

Agroeye

1.0

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Chapter 1

AgroEye - Remote sensing application for supporting the GAEC assessment

1.1 About the program

The political transformation, that took place in Poland over 25 years ago, as well as Poland's accession to European Union entailed a large number of changes, including agriculture. The most important of them were liquidation of national owned farms, free market development and increase manufactures competitiveness. These political changes caused also deep socio-economic transformations and landscape changes as well.

The remote sensing applications in agriculture sector began with sensors for soil organic matter, and have quickly diversified to include satellite (e.g. Landsat), airborne (e.g. digital hyperspectral cameras), UAV (e.g. with multi-spectrals camera) and hand held or tractor mounted sensors. At present there is considerable interest in collecting remote sensing data as multitemporal series in order to conduct near real time: soil, crop and pest management.

An example institution dealing with this topic is the Monitoring Agricultural Resources (MARS) Unit of European Commission's Joint Research Centre, which focuses on crop production, agricultural activities and rural development.

Our aim is to transfer these good practices to Polish agricultural area management. The first step to achieve the aim is development of an IT application called AgroEye. The AgroEye concept is an advanced Open Source application exclusively designed for monitoring agricultural lands in terms of GAEC. AgroEye will provide an easy to use spatial analysis system for agriculture, which can be used to support decision making and preparing spatio-temporal analysis. Any organizations interested in using application for purpose of monitoring and managing the environment, will get access to source code and the compiled application as well.

The AgroEye application will provide a fast, accurate and simple way to check the dynamic of agricultural changes to help control rules for direct payments. Many of the GAEC rules require field-checking at least a couple of times within a year, together with spatio-temporal analysis. With remote sensing approach, it will be possible with reasonable financial expenditure.

1.2 Links

See also our home page at: agroeye.pl

Please download out software at: <https://bitbucket.org/progea/agroeye>

Chapter 2

Download binaries or source files

2.1 Windows

`Windows binaries` package with setup wizard are available to download from Bitbucket repository.

Chapter 3

Namespace Index

3.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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Chapter 7

Namespace Documentation

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Namespaces

- [algorithm](#)
- [errors](#)
- [general](#)
- [handlers](#)
- [operations](#)

7.2 agroeye::algorithm Namespace Reference

Namespaces

- [math](#)

7.3 agroeye::algorithm::math Namespace Reference

Functions

- `template<class Iterator >`
`double mean (Iterator first, Iterator last)`
Metafunction computing the mean value. This function calculates the mean value of elements in given container pointed by pair of iterators.
- `template<class Iterator >`
`double mean (Iterator first, Iterator last, typename Iterator::value_type ignoreValue)`
Metafunction computing the mean value. This function calculates the mean value of elements in given container pointed by pair of iterators. From computation of mean value all values having ignoreValue are excluded.
- `template<class Iterator >`
`double stddev (Iterator first, Iterator last)`
Metafunction computing the standard deviation value. This function calculates the standard deviation value of elements in given container pointed by pair of iterators.
- `template<class Iterator >`
`double stddev (Iterator first, Iterator last, typename Iterator::value_type ignoreValue)`
Metafunction computing the standard deviation value. This function calculates the standard deviation value of elements in given container pointed by pair of iterators. From computation of standard deviation value all values having ignoreValue are excluded.

7.3.1 Function Documentation

7.3.1.1 `mean()` [1/2]

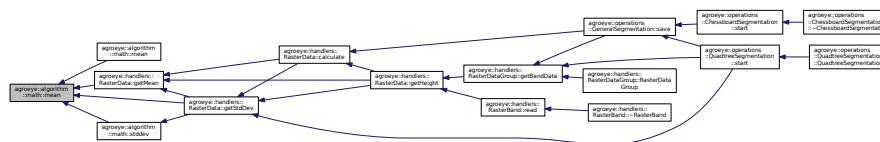
```
template<class Iterator >
double agroeye::algorithm::math::mean (
    Iterator first,
    Iterator last )
```

Metafunction computing the mean value. This function calculates the mean value of elements in given container pointed by pair of iterators.

Parameters

<i>first</i>	The first element
<i>last</i>	Next element behind the last

Here is the caller graph for this function:



7.3.1.2 `mean()` [2/2]

```
template<class Iterator >
double agroeye::algorithm::math::mean (
    Iterator first,
    Iterator last,
    typename Iterator::value_type ignoreValue )
```

Metafunction computing the mean value. This function calculates the mean value of elements in given container pointed by pair of iterators. From computation of mean value all values having ignoreValue are excluded.

Parameters

<i>first</i>	The first element
<i>last</i>	Next element behind the last
<i>ignoreValue</i>	The value excluded from computin mean value

Metafunction computing the standard deviation value. This function calculates the standard deviation value of

<i>first</i>	The first element
<i>last</i>	Next element behind the last

7.3.1.4 stddev() [2/2]

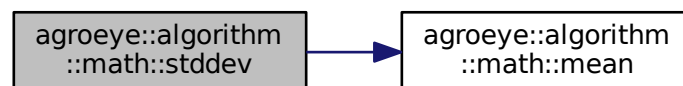
```
template<class Iterator >
double agroeye::algorithm::math::stddev (
    Iterator first,
    Iterator last,
    typename Iterator::value_type ignoreValue )
```

Metafunction computing the standard deviation value. This function calculates the standard deviation value of elements in given container pointed by pair of iterators. From computation of standard deviation value all values having ignoreValue are excluded.

Parameters

<i>first</i>	The first element
<i>last</i>	Next element behind the last
<i>ignoreValue</i>	The value excluded from computin mean value

Here is the call graph for this function:



7.4 agroeye::errors Namespace Reference

Classes

- class [BadBandValue](#)
Exceptions associated with [agroeye::handlers::RasterBand](#).
- class [BadPositionInRasterData](#)
Exceptions associated with [agroeye::handlers::RasterData](#).
- class [BadRasterDataSize](#)
Exceptions associated with [agroeye::handlers::RasterData](#).
- class [EmptyList](#)
General exceptions describing empty container.
- class [IncorrectRaster](#)
Exceptions associated with [agroeye::handlers::Raster](#).
- class [IncorrectRasterExtent](#)
Exceptions associated with [agroeye::handlers::Raster](#).
- class [IncorrectSideSize](#)
Exception associated with [agroeye::operations::ChessboardSegmentation](#).
- class [IncorrectValue](#)
General exceptions describind the incorrectness of value.

- class [InvalidThresholdValue](#)
Errors related to invalid value of threshold parameter in quadtree segmentation.
- class [InvalidRasterDataAttributes](#)
Exception thrown when to RasterDataGroup incoherent RasterData is added.
- class [SpatialiteError](#)
Exceptions associated with [agroeye::handlers::Spatialite](#).
- class [StatementError](#)
Exceptions associated with Statements.
- class [TableError](#)
Exceptions associated with [agroeye::handlers::DbTable](#).

7.5 agroeye::general Namespace Reference

Namespaces

- [geometry](#)

Typedefs

- using [ListCallbackTypes](#) = std::vector< [CallbackTypes](#) >
- using [CallbackFunction](#) = std::function< void(double, [ListCallbackTypes](#), std::string)>

Enumerations

- enum [CallbackTypes](#) { [CallbackTypes::PROGRESS](#), [CallbackTypes::INFO](#), [CallbackTypes::DEBUG](#), [CallbackTypes::ERROR](#) }
- Type of callback that can be called function.*

Functions

- void [defaultCallback](#) (double progress, [ListCallbackTypes](#) listTypes, std::string message)
A default callback.
- void [silenceCallback](#) (double progress, [ListCallbackTypes](#) listTypes, std::string message)
Silencing callback.

7.5.1 Typedef Documentation

7.5.1.1 CallbackFunction

```
using agroeye::general::CallbackFunction = typedef std::function<void(double, ListCallbackTypes, std::string)>
```

Typedef for callback function

7.5.1.2 ListCallbackTypes

```
using agroeye::general::ListCallbackTypes = typedef std::vector<CallbackTypes>
```

List containing types of callback types when function is called

7.5.2 Enumeration Type Documentation

7.5.2.1 CallbackTypes

```
enum agroeye::general::CallbackTypes [strong]
```

Type of callback that can be called function.

Enumerator

PROGRESS	contains inforamtion about progress of process
INFO	contains message
DEBUG	debugging information
ERROR	process encountered an error

7.5.3 Function Documentation

7.5.3.1 defaultCallback()

```
void agroeye::general::defaultCallback (
    double progress,
    ListCallbackTypes listTypes,
    std::string message )
```

A default callback.

When this function is called the list of callback types is checked.

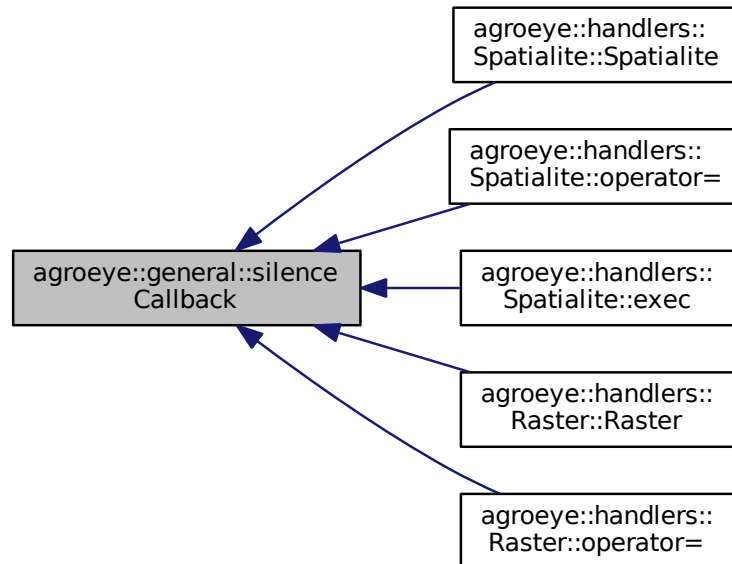
- If it has INFO type the message is printed in the stdout.
- If it has PROGRESS type the messege is printed with associated progress value in percentage
- In all other cases there is no printout

7.5.3.2 silenceCallback()

```
void agroeye::general::silenceCallback (
    double progress,
    ListCallbackTypes listTypes,
    std::string message )
```

Silencing callback.

All information passed to this callback are silenced (not displayed or processed in any way) Here is the caller graph for this function:



7.6 agroeye::general::geometry Namespace Reference

Classes

- struct [SpatialiteBlobWkb](#)
- class [SpatialitePolygon](#)
Class converting raster information into Spatialite Polygon.

7.7 agroeye::handlers Namespace Reference

Classes

- class [DbColumn](#)
Encapsulation of Sqlite3/Spatialite table.
- class [DbTable](#)
Encapsulation of table in database.
- class [GeneralStatement](#)
Class encapsulating the general insert statement into database.
- class [GeometryStatement](#)
- class [PreparedStatement](#)
Class encapsulating group of statements.
- class [Raster](#)

Class encapsulating [Raster](#) file object.

- class [RasterBand](#)
- class [RasterData](#)
- class [RasterDataGroup](#)

Encapsulation of read data from a couple of bands from one [RasterDataGroup](#). Also provides convenient basic operations and guarantees the same parameters of raster data.

- class [Spatialite](#)

Encapsulation of [Spatialite](#) database.

- class [StatisticStatement](#)

Typedefs

- using [SqliteCallback](#) = std::function< int(int, char **, char **)>

Callack function collection data of SQL query For exact syntax of the function please see the SQLite3 manual.

- using [ColumnIteratorConst](#) = std::vector< [DbColumn](#) >::const_iterator

Enumerations

- enum [ColumnType](#) {
[ColumnType::NONE](#), [ColumnType::INTEGER](#), [ColumnType::REAL](#), [ColumnType::TEXT](#),
[ColumnType::BLOB](#), [ColumnType::GEOMETRY](#) }

Type of data stored by column.

7.7.1 Typedef Documentation

7.7.1.1 ColumnIteratorConst

```
using agroeye::handlers::ColumnIteratorConst = typedef std::vector<DbColumn>::const_iterator
```

Iterator over columns in [DbTable](#)

7.7.1.2 SqliteCallback

```
using agroeye::handlers::SqliteCallback = typedef std::function<int(int, char**, char**)>
```

Callack function collection data of SQL query For exact syntax of the function please see the SQLite3 manual.

7.7.2 Enumeration Type Documentation

7.7.2.1 ColumnType

```
enum agroeye::handlers::ColumnType [strong]
```

Type of data stored by column.

Enumerator

NONE	NULL data
INTEGER	Integer values
REAL	Float values
TEXT	String (text) data
BLOB	Binary data
GEOMETRY	Geometry objects

7.8 agroeye::operations Namespace Reference

Classes

- class [ChessboardSegmentation](#)
Chessboard Segmentation.
- class [GeneralSegmentation](#)
Object encapsulating general segmentation.
- class [Parameters](#)
Class encapsulating different segmentation parameters.
- class [QuadtreeSegmentation](#)
Segmentation Quadtree.

Typedefs

- using [BandsList](#) = std::vector< size_t >
- using [StatisticsList](#) = std::vector< [StatisticsTypes](#) >
- using [BandsToStatsMap](#) = std::unordered_map< size_t, [StatisticsList](#) >
- using [StatsToBandsMap](#) = std::unordered_map< [StatisticsTypes](#), [BandsList](#) >

Enumerations

- enum [StatisticsTypes](#) { [StatisticsTypes::MEAN](#), [StatisticsTypes::STDDEV](#) }
Type of statistics that can be calculated.

7.8.1 Typedef Documentation

7.8.1.1 BandsList

```
using agroeye::operations::BandsList = typedef std::vector<size_t>
```

List with bands numbers

7.8.1.2 BandsToStatsMap

```
using agroeye::operations::BandsToStatsMap = typedef std::unordered_map<size_t, Statistics↵
List>
```

Correlation between band and statistics

7.8.1.3 StatisticsList

```
using agroeye::operations::StatisticsList = typedef std::vector<StatisticsTypes>
```

List with types of statistics

7.8.1.4 StatsToBandsMap

```
using agroeye::operations::StatsToBandsMap = typedef std::unordered_map<StatisticsTypes, Bands↵
List>
```

Correlation between type of statistic and bands

7.8.2 Enumeration Type Documentation

7.8.2.1 StatisticsTypes

```
enum agroeye::operations::StatisticsTypes [strong]
```

Type of statistics that can be calculated.

Enumerator

MEAN	Mean value
STDDEV	Standard deviation value

7.9 agroeyepy Namespace Reference

Namespaces

- [Control](#)
- [Logic](#)
- [View](#)

7.10 agroeyepy.Control Namespace Reference

Namespaces

- [agroeye_modules](#)

- [db_connection](#)
- [exceptionModel](#)
- [loadedfiles_model](#)
- [viewerApplication](#)
- [viewerwidget](#)

7.11 agroeyepy.Control.agroeye_modules Namespace Reference

7.12 agroeyepy.Control.db_connection Namespace Reference

Classes

- class [ConnectDatabase](#)
Opens database.

7.13 agroeyepy.Control.exceptionModel Namespace Reference

Classes

- class [DriverError](#)
- class [EPSGCodeError](#)
- class [Exception](#)
- class [FeatureError](#)
- class [FileFormatError](#)
- class [GeometryTypeException](#)
- class [LayerError](#)
- class [NumberCharWarning](#)
- class [OpenFileError](#)
- class [OverwriteFileError](#)
- class [PathError](#)
- class [PolygonInvalidError](#)
- class [SaveFileError](#)
- class [SpatialReferenceSystemError](#)
- class [SpecialCharWarning](#)
- class [StartCharWarning](#)
- class [UniqueNameError](#)
- class [ValidatorError](#)

7.14 agroeyepy.Control.loadedfiles_model Namespace Reference

Classes

- class [LoadedFiles](#)
- class [LoadedFiles_ListView](#)

7.15 agroeyepy.Control.viewerApplication Namespace Reference

Classes

- class [AgroEye](#)
Main Class Everything runs from this point.

Functions

- def [removeAfterClose](#) ()
After close vector file, remove created svg file (in temp svg directory).

Variables

- [app](#) = QtGui.QApplication(sys.argv)
- [myapp](#) = [AgroEye](#)()

7.15.1 Function Documentation

7.15.1.1 [removeAfterClose](#)()

```
def agroeyepy.Control.viewerApplication.removeAfterClose ( )
```

After close vector file, remove created svg file (in temp svg directory).

7.15.2 Variable Documentation

7.15.2.1 [app](#)

```
agroeyepy.Control.viewerApplication.app = QtGui.QApplication(sys.argv)
```

7.15.2.2 [myapp](#)

```
agroeyepy.Control.viewerApplication.myapp = AgroEye()
```

7.16 agroeyepy.Control.viewerwidget Namespace Reference

Classes

- class [ViewerWidget](#)

7.17 agroeyepy.Logic Namespace Reference

Namespaces

- [conversions](#)
- [rasterattributes](#)
- [rasterCalculator](#)
- [rasterLayerMechanism](#)
- [saveVectorLayerMechanism](#)
- [vectorLayerMechanism](#)
- [vectorSVGRenderer](#)
- [vectorTableMechanism](#)

7.18 agroeyepy.Logic.conversions Namespace Reference

Classes

- class [GdalToNumpy](#)

7.19 agroeyepy.Logic.rasterattributes Namespace Reference

Classes

- class [ChangedList](#)
- class [RasterAttributes](#)

7.20 agroeyepy.Logic.rasterCalculator Namespace Reference

Classes

- class [RasterCalclutor](#)

7.21 agroeyepy.Logic.rasterLayerMechanism Namespace Reference

Classes

- class [ProgressDialog](#)
- class [RasterFile](#)

7.22 agroeyepy.Logic.saveVectorLayerMechanism Namespace Reference

Classes

- class [NewVector](#)

7.23 agroeyepy.Logic.vectorLayerMechanism Namespace Reference

Classes

- class [FillStyle](#)
- class [LineStyle](#)
- class [PointStyle](#)
- class [VectorCheckLayer](#)
- class [VectorFile](#)

7.24 agroeyepy.Logic.vectorSVGRenderer Namespace Reference

Classes

- class [SvgRenderer](#)
- class [VectorCreate](#)
- class [Vertex](#)

7.25 agroeyepy.Logic.vectorTableMechanism Namespace Reference

Classes

- class [ColumnAddDialog](#)
- class [ColumnDelDialog](#)
- class [CoordinateDelegate](#)
- class [RenameDialog](#)
- class [ValidateClass](#)
- class [VariantDelegate](#)

7.26 agroeyepy.View Namespace Reference

Namespaces

- [Additional](#)
- [addlayerdialog](#)
- [addlayersdialog](#)
- [addnewobjecttolayer](#)
- [addnewvectorlayerdialog](#)
- [attributetabledialog](#)
- [checkstyle](#)
- [compositiondialog](#)
- [editstyledialog](#)
- [histogramdialog](#)
- [identifydialog](#)
- [loadedfilesdockwidget](#)
- [MainWindow](#)
- [measureareatool](#)
- [measuredistancetool](#)
- [modeldialog](#)
- [preferences](#)
- [progressdialog](#)
- [propertiesdialog2](#)
- [rastercalculator](#)
- [temp](#)
- [viewarea](#)
- [viewscene](#)

7.27 agroeyepy.View.Additional Namespace Reference

Namespaces

- [palette](#)

7.28 agroeyepy.View.Additional.palette Namespace Reference

Classes

- class [Palette](#)

7.29 agroeyepy.View.addlayerdialog Namespace Reference

Classes

- class [AddLayersDialog](#)

7.30 agroeyepy.View.addlayersdialog Namespace Reference

Classes

- class [AddLayersDialog](#)

7.31 agroeyepy.View.addnewobjecttolayer Namespace Reference

Classes

- class [AddNewVectorObjectToLayer](#)
- class [Attribute](#)
- class [Line](#)
- class [Point](#)
- class [Polygon](#)

7.32 agroeyepy.View.addnewvectorlayerdialog Namespace Reference

Classes

- class [AddNewVectorLayer](#)

7.33 agroeyepy.View.attributetabledialog Namespace Reference

Classes

- class [TableDialog](#)

7.34 agroeyepy.View.checkstyle Namespace Reference

Classes

- class [StyleDialog](#)

7.35 agroeyepy.View.compositiondialog Namespace Reference

Classes

- class [CompositionDialog](#)

7.36 agroeyepy.View.editstyledialog Namespace Reference

Classes

- class [Edit](#)
- class [EditLineDialog](#)
- class [EditPointDialog](#)
- class [EditPolygonDialog](#)

7.37 agroeyepy.View.histogramdialog Namespace Reference

Classes

- class [CustomTabBar](#)
: Customized tab bar of plots.
- class [HistogramDialog](#)
- class [MplCanvas](#)
: Class used for plotting histograms and LUTs.
- class [MplCanvasMetaclass](#)
: Metaclass for [MplCanvas](#).

7.38 agroeyepy.View.identifydialog Namespace Reference

Classes

- class [IdentifyDialog](#)
- class [IdentifyDialogModel](#)
- class [PlotCanvas](#)

7.39 agroeyepy.View.loadedfilesdockwidget Namespace Reference

Classes

- class [LoadedFilesDockWidget](#)

7.40 agroeyepy.View.MainWindow Namespace Reference

Classes

- class [Ui_AE_Window](#)

Variables

- [app](#) = QtGui.QApplication(sys.argv)
- [AE_Window](#) = QtGui.QMainWindow()
- [ui](#) = [Ui_AE_Window](#)()

7.40.1 Variable Documentation

7.40.1.1 AE_Window

```
agroeyepy.View.MainWindow.AE_Window = QtGui.QMainWindow()
```

7.40.1.2 app

```
agroeyepy.View.MainWindow.app = QtGui.QApplication(sys.argv)
```

7.40.1.3 ui

```
agroeyepy.View.MainWindow.ui = Ui\_AE\_Window()
```

7.41 agroeyepy.View.measureareatool Namespace Reference

Classes

- class [MeasureAreaTool](#)

7.42 agroeyepy.View.measuredistancetool Namespace Reference

Classes

- class [MeasureDistanceTool](#)
- class [MeasureDistanceToolMetaclass](#)
- class [StyleOfPen](#)

7.43 agroeyepy.View.modeldialog Namespace Reference

Classes

- class [ArrowItem](#)
- class [Draw](#)
- class [FilesBlock](#)
- class [FunctionBlock](#)
- class [InputFiles](#)
- class [ModelGAEC](#)
- class [OutputFiles](#)
- class [Segmentation](#)
- class [TableView](#)
- class [TextItem](#)

7.44 agroeyepy.View.preferences Namespace Reference

Classes

- class [Preferences](#)

7.45 agroeyepy.View.progressdialog Namespace Reference

Classes

- class [AgroeyeCallback](#)
- class [PyCallback](#)

7.46 agroeyepy.View.propertiesdialog2 Namespace Reference

Classes

- class [PropertiesDialog](#)
- class [PropertiesDialogModel](#)

7.47 agroeyepy.View.rastercalculator Namespace Reference

Classes

- class [RasterCalculator](#)

7.48 agroeyepy.View.temp Namespace Reference

Functions

- def [qInitResources](#) ()
- def [qCleanupResources](#) ()

Variables

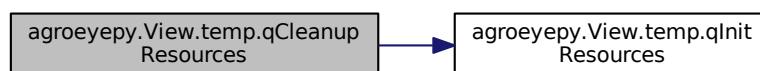
- string [qt_resource_data](#)
- string [qt_resource_name](#)
- string [qt_resource_struct](#)

7.48.1 Function Documentation

7.48.1.1 qCleanupResources()

```
def agroeyepy.View.temp.qCleanupResources ( )
```

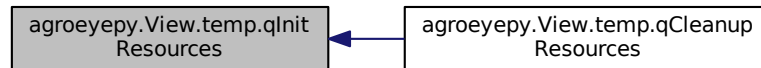
Here is the call graph for this function:



7.48.1.2 qInitResources()

```
def agroeyepy.View.temp.qInitResources ( )
```

Here is the caller graph for this function:



7.48.2 Variable Documentation

7.48.2.1 qt_resource_data

```
string agroeyepy.View.temp.qt_resource_data
```

7.48.2.2 qt_resource_name

```
string agroeyepy.View.temp.qt_resource_name
```

7.48.2.3 qt_resource_struct

```
string agroeyepy.View.temp.qt_resource_struct
```

7.49 agroeyepy.View.viewarea Namespace Reference

Classes

- class [DefaultRasterStretch](#)
- class [GetDataImagesThread](#)
- class [ViewArea](#)
- class [ZoomingObject](#)
- class [ZoomingThread](#)

7.50 agroeyepy.View.viewscene Namespace Reference

Classes

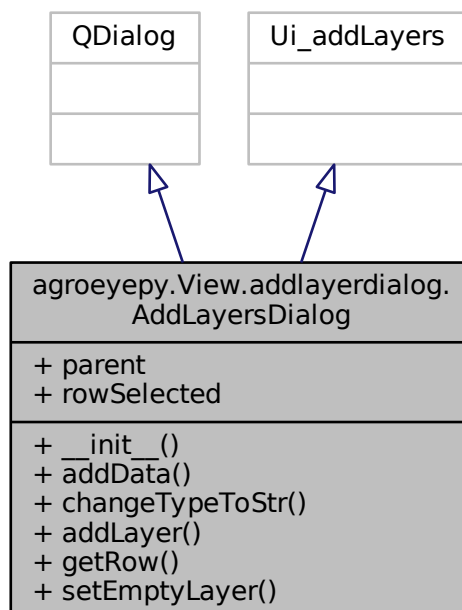
- class [ViewScene](#)

Chapter 8

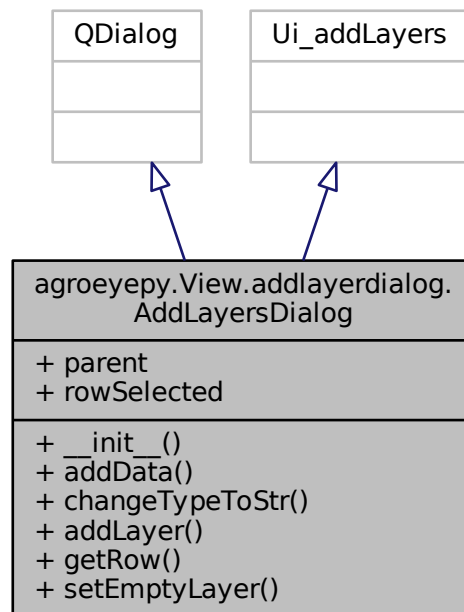
Class Documentation

8.1 agroeyepy.View.addlayerdialog.AddLayersDialog Class Reference

Inheritance diagram for agroeyepy.View.addlayerdialog.AddLayersDialog:



Collaboration diagram for `agroeyepy.View.addlayerdialog.AddLayersDialog`:



Public Member Functions

- `def __init__(self, parent)`
- `def addData(self)`
Create table with layer.
- `def changeTypeToStr(self, type, index)`
Change type to string type.
- `def addLayer(self)`
Load selected layer and close window.
- `def getRow(self)`
Returns selected row.
- `def setEmptyLayer(self, index)`
Set geometry for empty.

Public Attributes

- `parent`
- `rowSelected`

8.1.1 Constructor & Destructor Documentation

8.1.1.1 __init__()

```
def agroeyepy.View.addlayerdialog.AddLayersDialog.__init__ (
    self,
    parent )
```

Here is the call graph for this function:



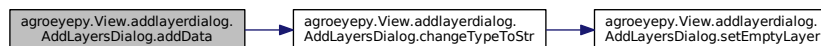
8.1.2 Member Function Documentation

8.1.2.1 addData()

```
def agroeyepy.View.addlayerdialog.AddLayersDialog.addData (
    self )
```

Create table with layer.

Here is the call graph for this function:



8.1.2.2 addLayer()

```
def agroeyepy.View.addlayerdialog.AddLayersDialog.addLayer (
    self )
```

Load selected layer and close window.

8.1.2.3 changeTypeToStr()

```
def agroeyepy.View.addlayerdialog.AddLayersDialog.changeTypeToStr (
    self,
    type,
    index )
```

Change type to string type.

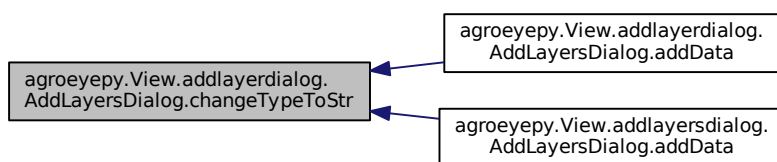
Returns

Returns type as string

Here is the call graph for this function:



Here is the caller graph for this function:



8.1.2.4 getRow()

```
def agroeyepy.View.addlayerdialog.AddLayersDialog.getRow (
    self )
```

Returns selected row.

8.1.2.5 setEmptyLayer()

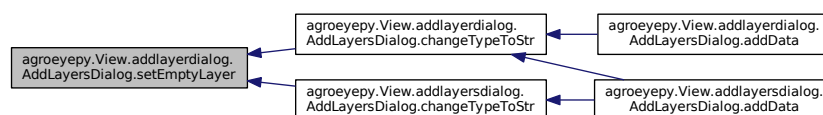
```
def agroeyepy.View.addlayerdialog.AddLayersDialog.setEmptyLayer (
    self,
    index )
```

Set geometry for empty.

Returns

Returns type as string.

Here is the caller graph for this function:



8.1.3 Member Data Documentation

8.1.3.1 parent

`agroeyepy.View.addlayerdialog.AddLayersDialog.parent`

8.1.3.2 rowSelected

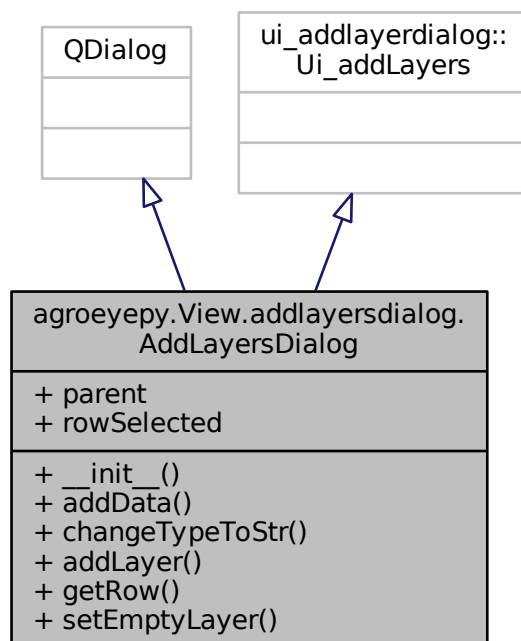
`agroeyepy.View.addlayerdialog.AddLayersDialog.rowSelected`

The documentation for this class was generated from the following file:

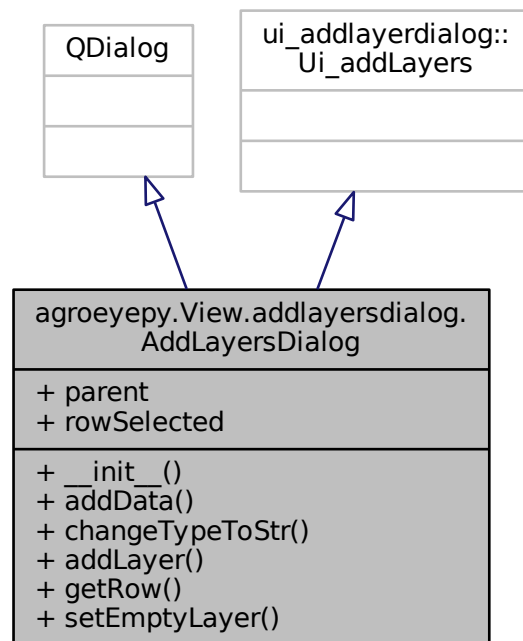
- `agroeyepy/View/addlayerdialog.py`

8.2 agroeyepy.View.addlayersdialog.AddLayersDialog Class Reference

Inheritance diagram for agroeyepy.View.addlayersdialog.AddLayersDialog:



Collaboration diagram for agroeyepy.View.addlayersdialog.AddLayersDialog:



Public Member Functions

- `def __init__ (self, parent)`
- `def addData (self)`
Create table with layer.
- `def changeTypeToStr (self, type, index)`
Change type to string type.
- `def addLayer (self)`
Load selected layer and close window.
- `def getRow (self)`
Returns selected row.
- `def setEmptyLayer (self, index)`
Set geometry for empty.

Public Attributes

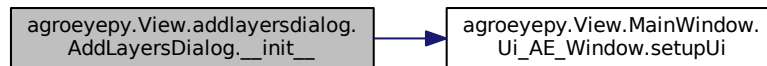
- `parent`
- `rowSelected`
Index of selected rows.

8.2.1 Constructor & Destructor Documentation

8.2.1.1 `__init__()`

```
def agroeyepy.View.addlayersdialog.AddLayersDialog.__init__ (
    self,
    parent )
```

Here is the call graph for this function:



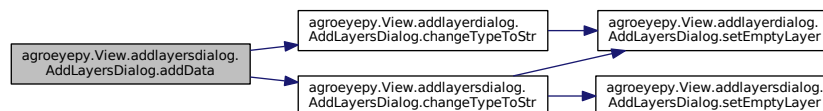
8.2.2 Member Function Documentation

8.2.2.1 `addData()`

```
def agroeyepy.View.addlayersdialog.AddLayersDialog.addData (
    self )
```

Create table with layer.

Here is the call graph for this function:



8.2.2.2 `addLayer()`

```
def agroeyepy.View.addlayersdialog.AddLayersDialog.addLayer (
    self )
```

Load selected layer and close window.

8.2.2.3 `changeTypeToStr()`

```
def agroeyepy.View.addlayersdialog.AddLayersDialog.changeTypeToStr (
    self,
    type,
    index )
```

Change type to string type.

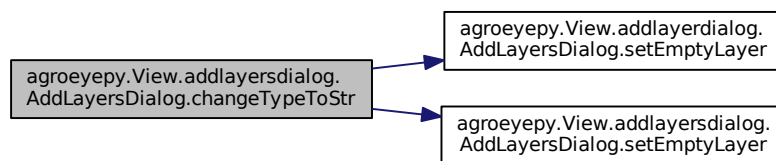
Parameters

<i>type</i>	Geometry type.
<i>index</i>	Index of geometry.

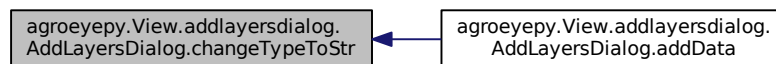
Returns

Returns type as string

Here is the call graph for this function:



Here is the caller graph for this function:

8.2.2.4 `getRow()`

```
def agroeyepy.View.addlayersdialog.AddLayersDialog.getRow (
    self )
```

Returns selected row.

8.2.2.5 `setEmptyLayer()`

```
def agroeyepy.View.addlayersdialog.AddLayersDialog.setEmptyLayer (
    self,
    index )
```

Set geometry for empty.

Parameters

<i>index</i>	Index of geometry.

Returns

Returns type as string.

Here is the caller graph for this function:

**8.2.3 Member Data Documentation****8.2.3.1 parent**

```
agroeyepy.View.addlayersdialog.AddLayersDialog.parent
```

8.2.3.2 rowSelected

```
agroeyepy.View.addlayersdialog.AddLayersDialog.rowSelected
```

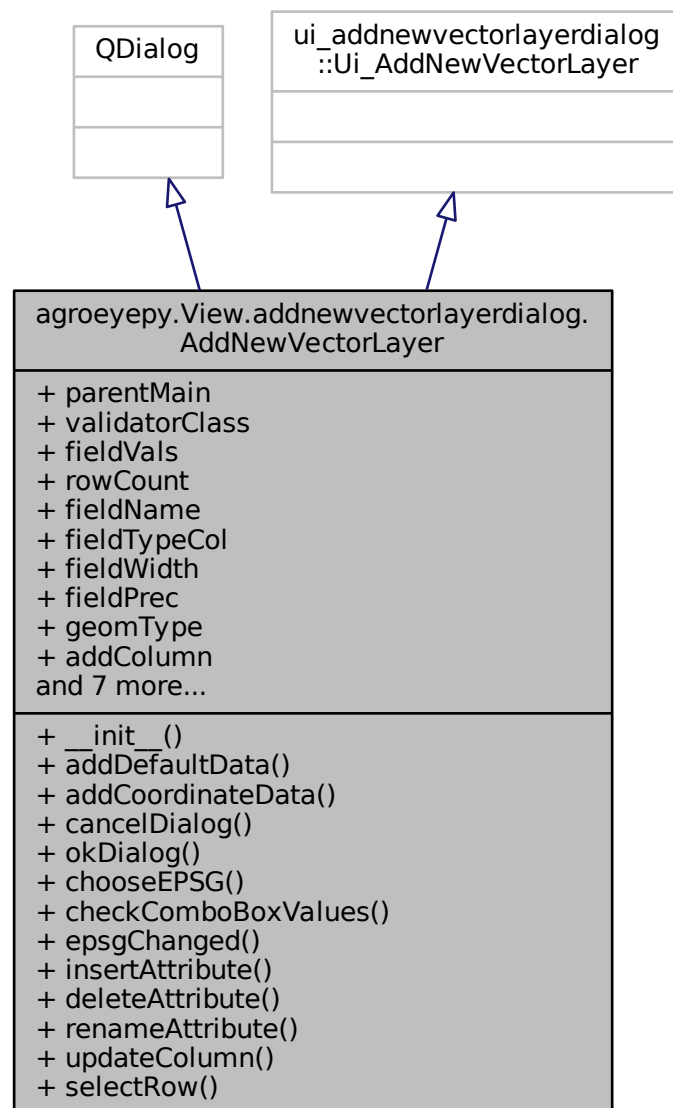
Index of selected rows.

The documentation for this class was generated from the following file:

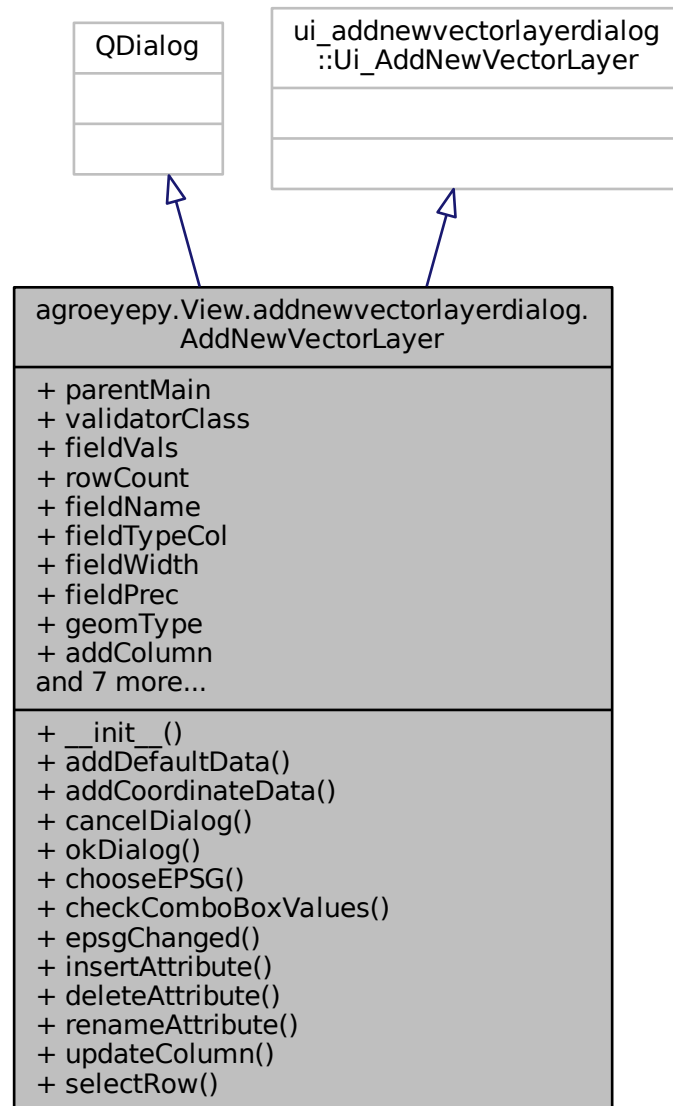
- `agroeyepy/View/addlayersdialog.py`

8.3 agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer Class Reference

Inheritance diagram for agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer:



Collaboration diagram for `agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer`:



Public Member Functions

- `def \_\_init\_\_ (self, parent=None)`
- `def addDefaultData (self)`
Create preview of column.
- `def addCoordinateData (self)`
Add data to combobox (epsg code).
- `def cancelDialog (self)`
Cancel raster calculator window.
- `def okDialog (self)`

- Accept raster calculator window.*
- def [chooseEPSG](#) (self, newIndex)
 - Chooses EPSG code.*
- def [checkComboBoxValues](#) (self, args, kwargs)
 - Simply styling line with editing EPSG code.*
- def [epsgChanged](#) (self, newIndex)
 - Sets EPSG code to new vector layer.*
- def [insertAttribute](#) (self)
 - Window for insert new column in attribute table.*
- def [deleteAttribute](#) (self)
 - Window for delete column in attribute table.*
- def [renameAttribute](#) (self)
 - Window for rename column in attribute table.*
- def [updateColumn](#) (self)
 - Update column after edit.*
- def [selectRow](#) (self)
 - Action after select row.*

Public Attributes

- [parentMain](#)
- [validatorClass](#)
- [fieldVals](#)
- [rowCount](#)
- [fieldName](#)
- [fieldTypeCol](#)
- [fieldWidth](#)
- [fieldPrec](#)
- [geomType](#)
- [addColumn](#)
- [delColumn](#)
- [renameColumn](#)
- [epsg](#)
- [srs](#)
- [comboIndexEpsg](#)
- [EPSG2Name](#)
- [epsg_code](#)

8.3.1 Constructor & Destructor Documentation

8.3.1.1 `__init__()`

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.__init__ (
    self,
    parent = None )
```

8.3.2 Member Function Documentation

8.3.2.1 addCoordinateData()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.addCoordinateData (
    self )
```

Add data to combobox (epsg code).

8.3.2.2 addDefaultData()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.addDefaultData (
    self )
```

Create preview of column.

Here is the call graph for this function:



8.3.2.3 cancelDialog()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.cancelDialog (
    self )
```

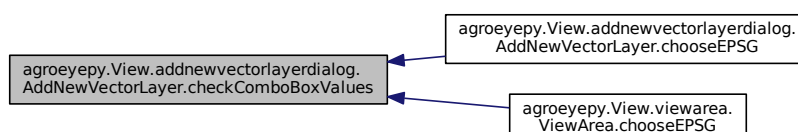
Cancel raster calculator window.

8.3.2.4 checkComboBoxValues()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.checkComboBoxValues (
    self,
    args,
    kwargs )
```

Simply styling line with editing EPSG code.

When background is yellow it means that more digits are required, When background is green the number of digits is satisfactory Red background never appears because right format of characters is imposed by Regular Expression Validator Here is the caller graph for this function:



8.3.2.5 chooseEPSG()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.chooseEPSG (
    self,
    newIndex )
```

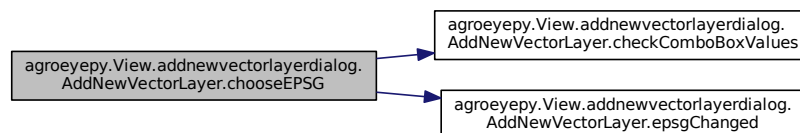
Chooses EPSG code.

User can choose EPSG code from list or enter new EPSG Code. If user EPSG Code is valid, new code is add to list.

Parameters

<i>newIndex</i>	Index of EPSG code list.

Here is the call graph for this function:



8.3.2.6 deleteAttribute()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.deleteAttribute (
    self )
```

Window for delete column in attribute table.

8.3.2.7 epsgChanged()

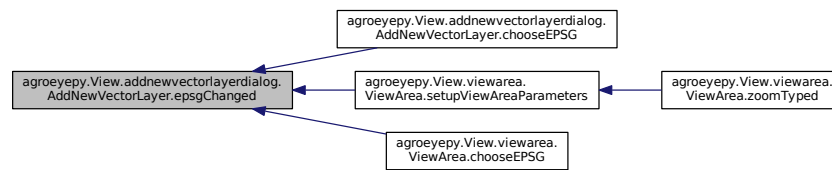
```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.epsgChanged (
    self,
    newIndex )
```

Sets EPSG code to new vector layer.

Parameters

<i>newIndex</i>	Index of QCombobox which refers EPSG code.

Here is the caller graph for this function:



8.3.2.8 insertAttribute()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.insertAttribute (
    self )
```

Window for insert new column in attribute table.

8.3.2.9 okDialog()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.okDialog (
    self )
```

Accept raster calculator window.

8.3.2.10 renameAttribute()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.renameAttribute (
    self )
```

Window for rename column in attribute table.

8.3.2.11 selectRow()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.selectRow (
    self )
```

Action after select row.

Here is the caller graph for this function:

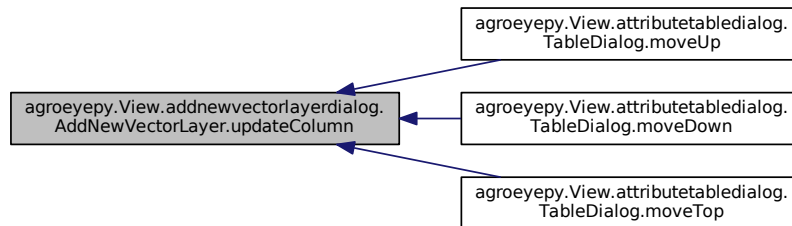


8.3.2.12 updateColumn()

```
def agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.updateColumn (
    self )
```

Update column after edit.

Here is the caller graph for this function:



8.3.3 Member Data Documentation

8.3.3.1 addColumn

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.addColumn
```

8.3.3.2 comboIndexEpsg

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.comboIndexEpsg
```

8.3.3.3 delColumn

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.delColumn
```

8.3.3.4 epsg

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.epsg
```

8.3.3.5 EPSG2Name

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.EPSG2Name
```

8.3.3.6 epsg_code

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.epsg_code
```

8.3.3.7 fieldName

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.fieldName
```

8.3.3.8 fieldPrec

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.fieldPrec
```

8.3.3.9 fieldTypeCol

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.fieldTypeCol
```

8.3.3.10 fieldVals

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.fieldVals
```

8.3.3.11 fieldWidth

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.fieldWidth
```

8.3.3.12 geomType

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.geomType
```

8.3.3.13 parentMain

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.parentMain
```

8.3.3.14 renameColumn

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.renameColumn
```

8.3.3.15 rowCount

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.rowCount
```

8.3.3.16 srs

```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.srs
```

8.3.3.17 validatorClass

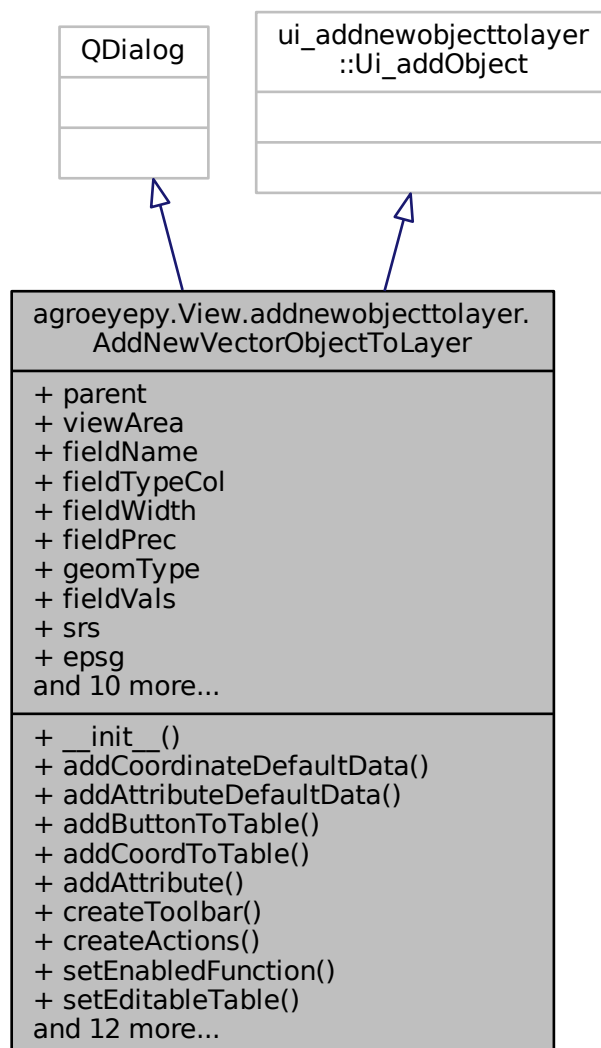
```
agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer.validatorClass
```

The documentation for this class was generated from the following file:

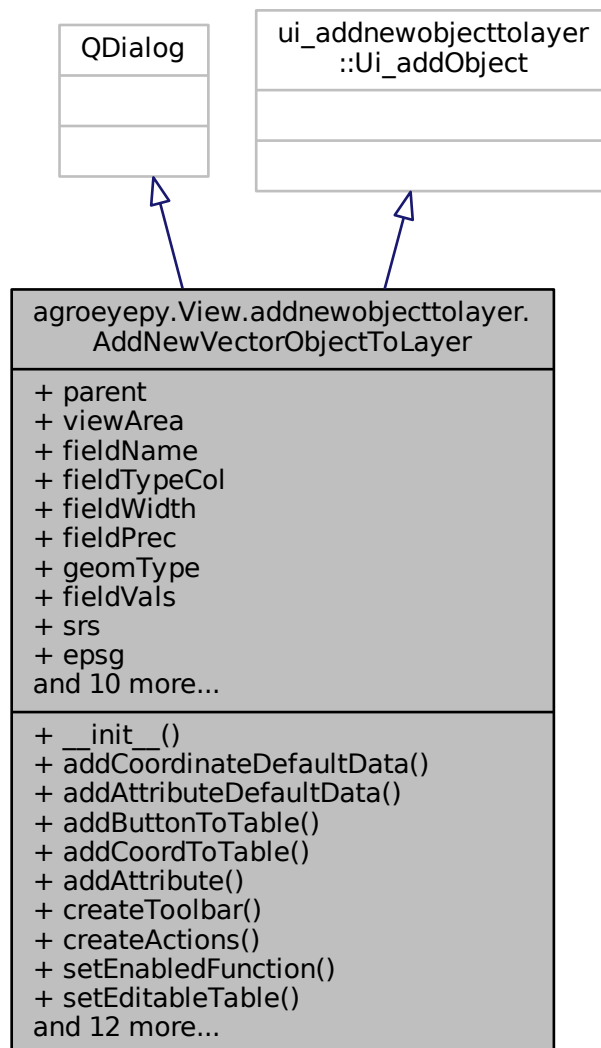
- `agroeyepy/View/addnewvectorlayerdialog.py`

8.4 agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer Class Reference

Inheritance diagram for `agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer`:



Collaboration diagram for `agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer`:



Public Member Functions

- `def __init__(self, parent=None)`
- `def addCoordinateDefaultData(self)`
Add default data to Coordinates Table.
- `def addAttributeDefaultData(self)`
Add default data to Attribute Table.
- `def addButtonToTable(self)`
Add button remove to Coordinates Table.
- `def addCoordToTable(self, x, y)`
Add coordinates to Coordinates Table, after clicked on View.
- `def addAttribute(self)`

- *Add data to [Attribute](#) Table.*
- def [createToolbar](#) (self)
 - Create toolbar for create vector layer.*
- def [createActions](#) (self)
 - Create action for QToolButton on Toolbar.*
- def [setEnabledFunction](#) (self, value)
 - Set enabled/disabled remove button.*
- def [setEditableTable](#) (self, value)
 - Set editable Coordinates and [Attribute](#) Table.*
- def [updateRowNumber](#) (self)
 - Update row numbers after removed.*
- def [updateObjectId](#) (self)
 - Update object_id after removed.*
- def [changeRow](#) (self, item)
 - Change row in tables.*
- def [pointChange](#) (self, item, idObject, idVerticle)
 - Redraw all points after removed point.*
- def [lineChange](#) (self, item, idObject, idVerticle)
 - Redraw all lines after removed one point from line.*
- def [polygonChange](#) (self, item, idObject, idVerticle)
 - Redraw all polygons after removed one point from polygon.*
- def [saveFile](#) (self)
 - Save drawn object as Shapefile.*
- def [setAttribute](#) (self)
 - Set value in [Attribute](#) Table.*
- def [convertCoord](#) (self, drawEPSG, newEPSG)
 - Converts drawn coordnates to new coordinates.*
- def [transform](#) (self, listGeom, coordTransform)
 - Transforms coordinates.*
- def [closeEvent](#) (self, QCloseEvent)
 - Close event.*
- def [clear](#) (self)
 - Clear QGraphicsView, remove all drawn figures.*

Public Attributes

- [parent](#)
- [viewArea](#)
- [fieldName](#)
- [fieldTypeCol](#)
- [fieldWidth](#)
- [fieldPrec](#)
- [geomType](#)
- [fieldVals](#)
- [srs](#)
- [epsg](#)
- [rowSelected](#)
- [validateClass](#)
- [attributeDialog](#)
- [objectAction](#)
- [geometry](#)

- [saveObjectAction](#)
- [geomData](#)
- [selectedLine](#)
- [selectedPoint](#)
- [selectedPoly](#)

8.4.1 Constructor & Destructor Documentation

8.4.1.1 `__init__()`

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.__init__ (
    self,
    parent = None )
```

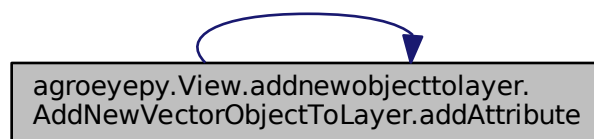
8.4.2 Member Function Documentation

8.4.2.1 `addAttribute()`

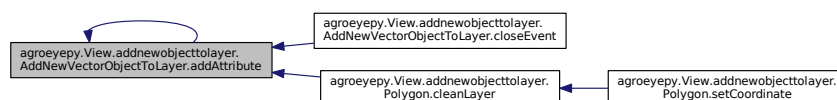
```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.addAttribute (
    self )
```

Add data to [Attribute](#) Table.

Here is the call graph for this function:



Here is the caller graph for this function:



8.4.2.2 addAttributeDefaultData()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.addAttributeDefaultData (
    self )
```

Add default data to [Attribute](#) Table.

Here is the call graph for this function:



8.4.2.3 addButtonToTable()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.addButtonToTable (
    self )
```

Add button remove to Coordinates Table.

Here is the caller graph for this function:

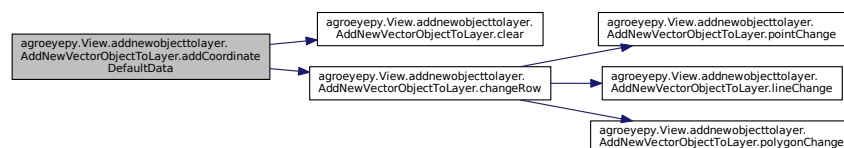


8.4.2.4 addCoordinateDefaultData()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.addCoordinateDefaultData (
    self )
```

Add default data to Coordinates Table.

Here is the call graph for this function:

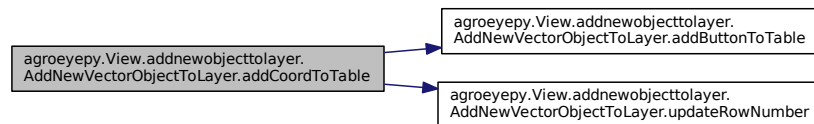


8.4.2.5 addCoordToTable()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.addCoordToTable (
    self,
    x,
    y )
```

Add coordinates to Coordinates Table, after clicked on [View](#).

Here is the call graph for this function:

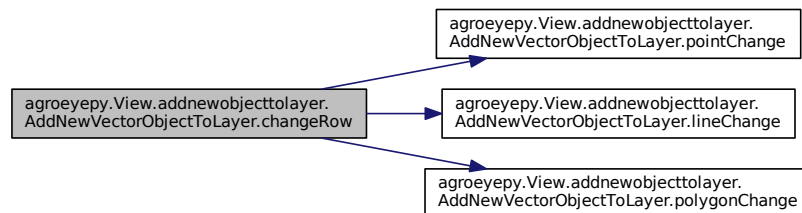


8.4.2.6 changeRow()

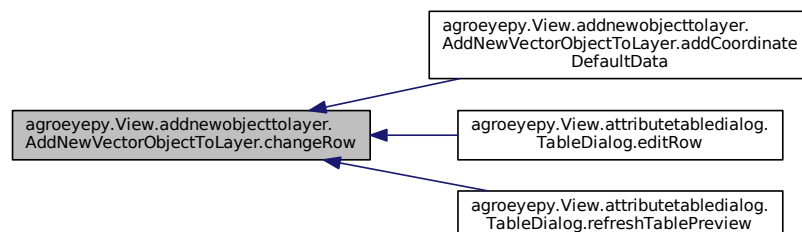
```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.changeRow (
    self,
    item )
```

Change row in tables.

Here is the call graph for this function:



Here is the caller graph for this function:

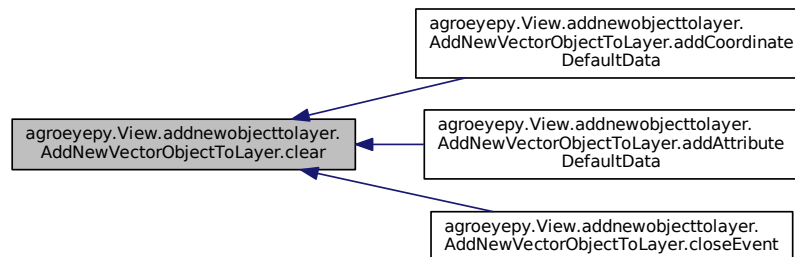


8.4.2.7 clear()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.clear (
    self )
```

Clear QGraphicsView, remove all drawn figures.

Here is the caller graph for this function:

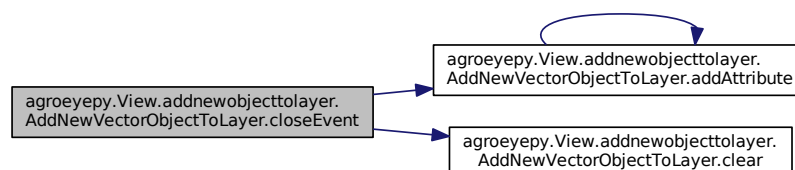


8.4.2.8 closeEvent()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.closeEvent (
    self,
    QCloseEvent )
```

Close event.

Disconnect graphic signal. Here is the call graph for this function:



8.4.2.9 convertCoord()

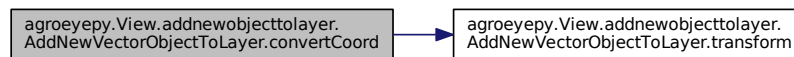
```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.convertCoord (
    self,
    drawEPSG,
    newEPSG )
```

Converts drawn coordinates to new coordinates.

Parameters

<i>drawEPSG</i>	old coordinates system saved as EPSG code.
<i>newEPSG</i>	new coordinates system saved as EPSG code.

Here is the call graph for this function:

8.4.2.10 `createActions()`

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.createActions (
    self )
```

Create action for QPushButton on Toolbar.

8.4.2.11 `createToolbar()`

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.createToolbar (
    self )
```

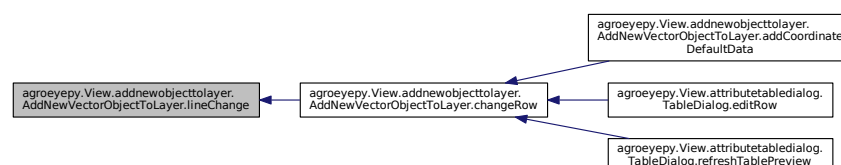
Create toolbar for create vector layer.

8.4.2.12 `lineChange()`

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.lineChange (
    self,
    item,
    idObject,
    idVerticle )
```

Redraw all lines after removed one point from line.

Here is the caller graph for this function:

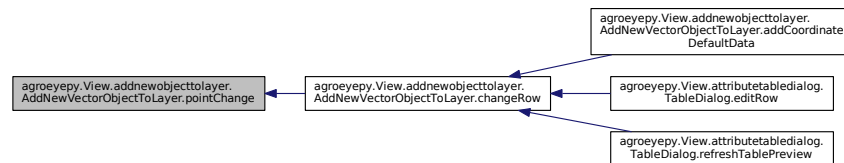


8.4.2.13 pointChange()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.pointChange (
    self,
    item,
    idObject,
    idVerticle )
```

Redraw all points after removed point.

Here is the caller graph for this function:

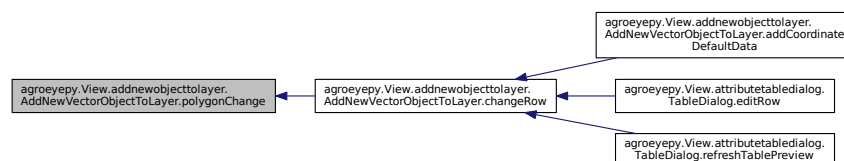


8.4.2.14 polygonChange()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.polygonChange (
    self,
    item,
    idObject,
    idVerticle )
```

Redraw all polygons after removed one point from polygon.

Here is the caller graph for this function:



8.4.2.15 saveFile()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.saveFile (
    self )
```

Save drawn object as Shapefile.

8.4.2.16 setAttribute()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.setAttribute (
    self )
```

Set value in [Attribute](#) Table.

8.4.2.17 setEditableTable()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.setEditableTable (
    self,
    value )
```

Set editable Coordinates and [Attribute](#) Table.

8.4.2.18 setEnabledFunction()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.setEnabledFunction (
    self,
    value )
```

Set enabled/disabled remove button.

8.4.2.19 transform()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.transform (
    self,
    listGeom,
    coordTransform )
```

Transforms coordinates.

Parameters

<i>listGeom</i>	list of coordinates.
<i>coordTransform</i>	spatial reference of transformed file.

Here is the caller graph for this function:



8.4.2.20 updateObjectId()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.updateObjectId (
    self )
```

Update object_id after removed.

8.4.2.21 updateRowNumber()

```
def agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.updateRowNumber (
    self )
```

Update row numbers after removed.

Here is the caller graph for this function:



8.4.3 Member Data Documentation

8.4.3.1 attributeDialog

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.attributeDialog
```

8.4.3.2 epsg

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.epsg
```

8.4.3.3 fieldName

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.fieldName
```

8.4.3.4 fieldPrec

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.fieldPrec
```

8.4.3.5 fieldTypeCol

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.fieldTypeCol
```

8.4.3.6 fieldVals

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.fieldVals`

8.4.3.7 fieldWidth

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.fieldWidth`

8.4.3.8 geomData

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.geomData`

8.4.3.9 geometry

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.geometry`

8.4.3.10 geomType

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.geomType`

8.4.3.11 objectAction

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.objectAction`

8.4.3.12 parent

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.parent`

8.4.3.13 rowSelected

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.rowSelected`

8.4.3.14 saveObjectAction

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.saveObjectAction`

8.4.3.15 selectedLine

`agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.selectedLine`

8.4.3.16 selectedPoint

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.selectedPoint
```

8.4.3.17 selectedPoly

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.selectedPoly
```

8.4.3.18 srs

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.srs
```

8.4.3.19 validateClass

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.validateClass
```

8.4.3.20 viewArea

```
agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer.viewArea
```

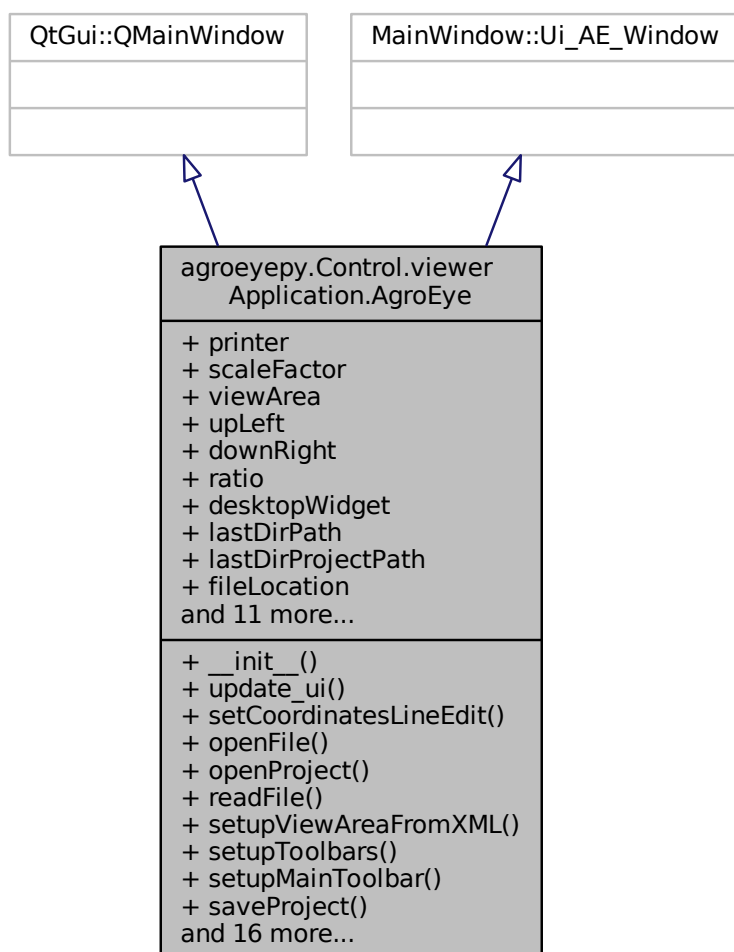
The documentation for this class was generated from the following file:

- agroeyepy/View/[addnewobjecttolayer.py](#)

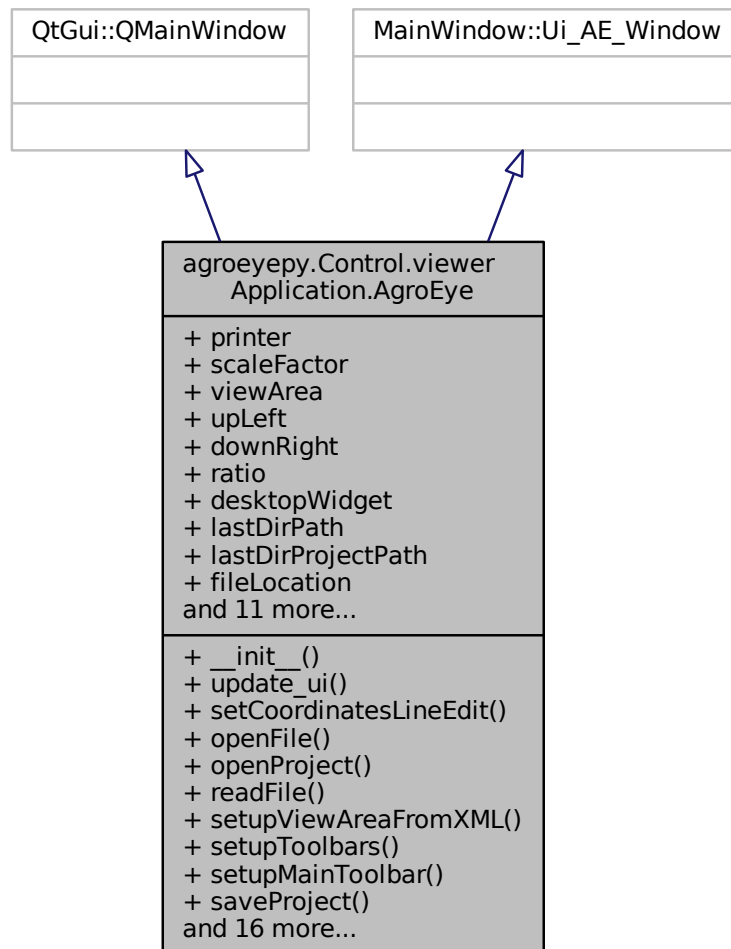
8.5 agroeyepy.Control.viewerApplication.AgroEye Class Reference

Main Class Everything runs from this point.

Inheritance diagram for agroeyepy.Control.viewerApplication.AgroEye:



Collaboration diagram for agroeyepy.Control.viewerApplication.AgroEye:



Public Member Functions

- `def \_\_init\_\_ (self, parent=None)`
Default constructor.
- `def update\_ui (self)`
Updates display.
- `def setCoordinatesLineEdit (self, point)`
Sets received signal into bottom widget with coordinates.
- `def openFile (self, fname=None)`
Opens raster or vector file and adds it into model list.
- `def openProject (self)`
- `def readFile (self, element)`
- `def setupViewAreaFromXML (self, element)`
- `def setupToolbars (self, element)`
- `def setupMainToolbar (self, element)`

- def [saveProject](#) (self, [fileLocation](#)=None)
- def [saveProjectAs](#) (self)
- def [setWindowTitleFromFilename](#) (self, fh)
- def [checkFileIsValid](#) (self, fname)
 - Check if open file is supported file format.*
- def [enableMenus](#) (self)
- def [disableMenus](#) (self)
- def [onRightClick](#) (self, pos)
 - Shows context menu on right click on list of loaded files.*
- def [keyPressEvent](#) (self, event)
 - Quit [AgroEye](#) when Escape is pressed.*
- def [openPreferencesDialog](#) (self)
 - Shows window to set preferences for view area, raster and vector file.*
- def [about](#) (self)
 - Shows window about [AgroEye](#).*
- def [showMeasuringDistanceTool](#) (self)
 - Shows window to measure distance.*
- def [showMeasuringAreaTool](#) (self)
 - Shows window to measure area.*
- def [openGAECModel](#) (self)
 - Shows window to check GAEC rules.*
- def [addNewVectorLayer](#) (self)
 - Shows window to add new vector layer shapefile.*
- def [showRasterCalculator](#) (self)
 - Shows window to raster calculator.*
- def [about_ext](#) (self)
- def [closeEvent](#) (self, event)

Public Attributes

- [printer](#)
- [scaleFactor](#)
- [viewArea](#)
- [upLeft](#)
- [downRight](#)
- [ratio](#)
- [desktopWidget](#)
- [lastDirPath](#)
- [lastDirProjectPath](#)
- [fileLocation](#)
- [onOffActions](#)
- [loadedfiles_tableview](#)
- [loadedfiles_model](#)
- [preferencesDialog](#)
- [ext](#)
- [selection](#)
- [measureDistance](#)
- [measureArea](#)
- [model](#)
- [newVectorLayer](#)
- [rasterCalc](#)

8.5.1 Detailed Description

Main Class Everything runs from this point.

8.5.2 Constructor & Destructor Documentation

8.5.2.1 `__init__()`

```
def agroeyepy.Control.viewerApplication.AgroEye.__init__ (
    self,
    parent = None )
```

Default constructor.

Main body of the program.

8.5.3 Member Function Documentation

8.5.3.1 `about()`

```
def agroeyepy.Control.viewerApplication.AgroEye.about (
    self )
```

Shows window about [AgroEye](#).

8.5.3.2 `about_ext()`

```
def agroeyepy.Control.viewerApplication.AgroEye.about_ext (
    self )
```

8.5.3.3 `addNewVectorLayer()`

```
def agroeyepy.Control.viewerApplication.AgroEye.addNewVectorLayer (
    self )
```

Shows window to add new vector layer shapefile.

8.5.3.4 `checkFileIsValid()`

```
def agroeyepy.Control.viewerApplication.AgroEye.checkFileIsValid (
    self,
    fname )
```

Check if open file is supported file format.

Parameters

<i>fname</i>	Name of file
<i>return</i>	Returns name of file if file format is valid; otherwise returns None.

Here is the caller graph for this function:



8.5.3.5 closeEvent()

```
def agroeyepy.Control.viewerApplication.AgroEye.closeEvent (
    self,
    event )
```

8.5.3.6 disableMenus()

```
def agroeyepy.Control.viewerApplication.AgroEye.disableMenus (
    self )
```

8.5.3.7 enableMenus()

```
def agroeyepy.Control.viewerApplication.AgroEye.enableMenus (
    self )
```

8.5.3.8 keyPressEvent()

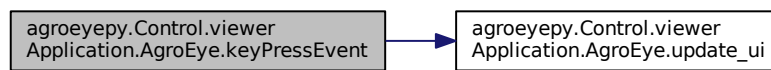
```
def agroeyepy.Control.viewerApplication.AgroEye.keyPressEvent (
    self,
    event )
```

Quit [AgroEye](#) when Escape is pressed.

Parameters

<i>event</i>	If any key is pressed, checks an action to do

Here is the call graph for this function:



8.5.3.9 onRightClick()

```
def agroeyepy.Control.viewerApplication.AgroEye.onRightClick (
    self,
    pos )
```

Shows context menu on right click on list of loaded files.

Parameters

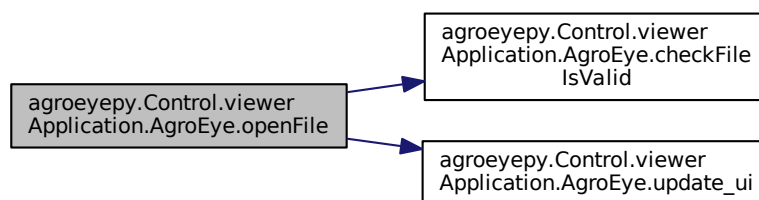
<i>pos</i>	Position of the context menu event.

8.5.3.10 openFile()

```
def agroeyepy.Control.viewerApplication.AgroEye.openFile (
    self,
    fname = None )
```

Opens raster or vector file and adds it into model list.

Returns nothing. Here is the call graph for this function:



Here is the caller graph for this function:



8.5.3.11 openGAECModel()

```
def agroeyepy.Control.viewerApplication.AgroEye.openGAECModel (
    self )
```

Shows window to check GAEC rules.

8.5.3.12 openPreferencesDialog()

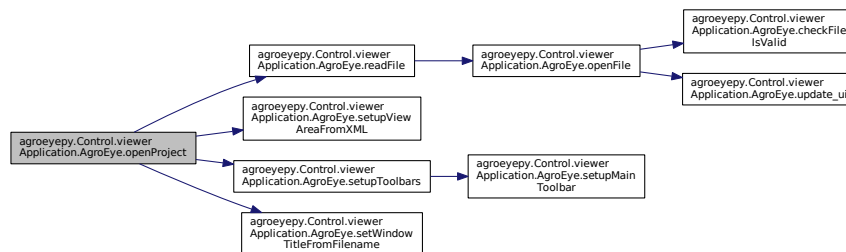
```
def agroeyepy.Control.viewerApplication.AgroEye.openPreferencesDialog (
    self )
```

Shows window to set preferences for view area, raster and vector file.

8.5.3.13 openProject()

```
def agroeyepy.Control.viewerApplication.AgroEye.openProject (
    self )
```

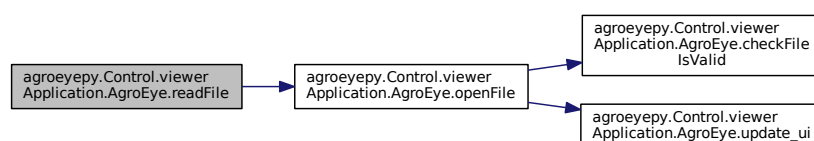
Here is the call graph for this function:



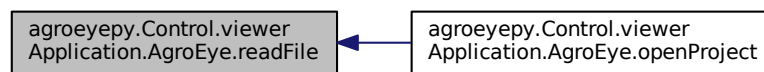
8.5.3.14 readFile()

```
def agroeyepy.Control.viewerApplication.AgroEye.readFile (
    self,
    element )
```

Here is the call graph for this function:



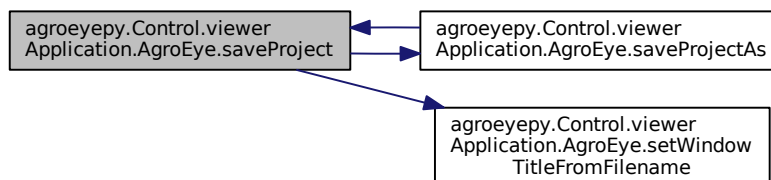
Here is the caller graph for this function:



8.5.3.15 saveProject()

```
def agroeyepy.Control.viewerApplication.AgroEye.saveProject (
    self,
    fileLocation = None )
```

Here is the call graph for this function:



Here is the caller graph for this function:



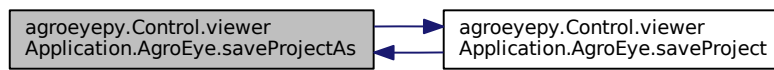
8.5.3.16 saveProjectAs()

```
def agroeyepy.Control.viewerApplication.AgroEye.saveProjectAs (
    self )
```

Here is the call graph for this function:



Here is the caller graph for this function:



8.5.3.17 setCoordinatesLineEdit()

```
def agroeyepy.Control.viewerApplication.AgroEye.setCoordinatesLineEdit (
    self,
    point )
```

Sets received signal into bottom widget with coordinates.

Parameters

<i>point</i>	Coordinates of received point which are about to be set in the bottom.

8.5.3.18 setupMainToolbar()

```
def agroeyepy.Control.viewerApplication.AgroEye.setupMainToolbar (
    self,
    element )
```

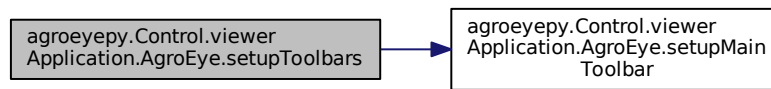
Here is the caller graph for this function:



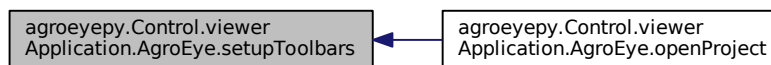
8.5.3.19 setupToolbars()

```
def agroeyepy.Control.viewerApplication.AgroEye.setupToolbars (
    self,
    element )
```

Here is the call graph for this function:



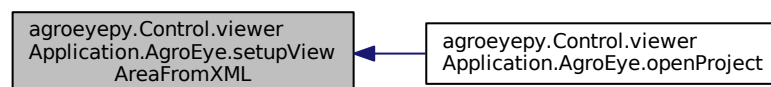
Here is the caller graph for this function:



8.5.3.20 setupViewAreaFromXML()

```
def agroeyepy.Control.viewerApplication.AgroEye.setupViewAreaFromXML (
    self,
    element )
```

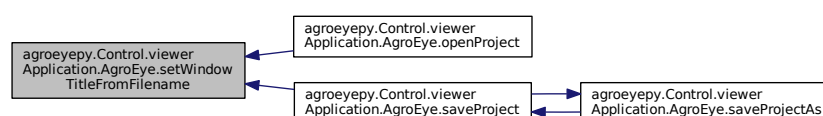
Here is the caller graph for this function:



8.5.3.21 setWindowTitleFromFilename()

```
def agroeyepy.Control.viewerApplication.AgroEye.setWindowTitleFromFilename (
    self,
    fh )
```

Here is the caller graph for this function:



8.5.3.22 showMeasuringAreaTool()

```
def agroeyepy.Control.viewerApplication.AgroEye.showMeasuringAreaTool (
    self )
```

Shows window to measure area.

8.5.3.23 showMeasuringDistanceTool()

```
def agroeyepy.Control.viewerApplication.AgroEye.showMeasuringDistanceTool (
    self )
```

Shows window to measure distance.

8.5.3.24 showRasterCalculator()

```
def agroeyepy.Control.viewerApplication.AgroEye.showRasterCalculator (
    self )
```

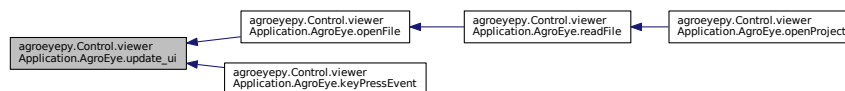
Shows window to raster calculator.

8.5.3.25 update_ui()

```
def agroeyepy.Control.viewerApplication.AgroEye.update_ui (
    self )
```

Updates display.

Checks which layers are visible and show them. two list - all loaded files and all visible files. Here is the caller graph for this function:



8.5.4 Member Data Documentation

8.5.4.1 desktopWidget

```
agroeyepy.Control.viewerApplication.AgroEye.desktopWidget
```

8.5.4.2 downRight

```
agroeyepy.Control.viewerApplication.AgroEye.downRight
```

8.5.4.3 ext

agroeyepy.Control.viewerApplication.AgroEye.ext

8.5.4.4 fileLocation

agroeyepy.Control.viewerApplication.AgroEye.fileLocation

8.5.4.5 lastDirPath

agroeyepy.Control.viewerApplication.AgroEye.lastDirPath

8.5.4.6 lastDirProjectPath

agroeyepy.Control.viewerApplication.AgroEye.lastDirProjectPath

8.5.4.7 loadedfiles_model

agroeyepy.Control.viewerApplication.AgroEye.loadedfiles_model

8.5.4.8 loadedfiles_tableview

agroeyepy.Control.viewerApplication.AgroEye.loadedfiles_tableview

8.5.4.9 measureArea

agroeyepy.Control.viewerApplication.AgroEye.measureArea

8.5.4.10 measureDistance

agroeyepy.Control.viewerApplication.AgroEye.measureDistance

8.5.4.11 model

agroeyepy.Control.viewerApplication.AgroEye.model

8.5.4.12 newVectorLayer

agroeyepy.Control.viewerApplication.AgroEye.newVectorLayer

8.5.4.13 onOffActions

```
agroeyepy.Control.viewerApplication.AgroEye.onOffActions
```

8.5.4.14 preferencesDialog

```
agroeyepy.Control.viewerApplication.AgroEye.preferencesDialog
```

8.5.4.15 printer

```
agroeyepy.Control.viewerApplication.AgroEye.printer
```

8.5.4.16 rasterCalc

```
agroeyepy.Control.viewerApplication.AgroEye.rasterCalc
```

8.5.4.17 ratio

```
agroeyepy.Control.viewerApplication.AgroEye.ratio
```

8.5.4.18 scaleFactor

```
agroeyepy.Control.viewerApplication.AgroEye.scaleFactor
```

8.5.4.19 selection

```
agroeyepy.Control.viewerApplication.AgroEye.selection
```

8.5.4.20 upLeft

```
agroeyepy.Control.viewerApplication.AgroEye.upLeft
```

8.5.4.21 viewArea

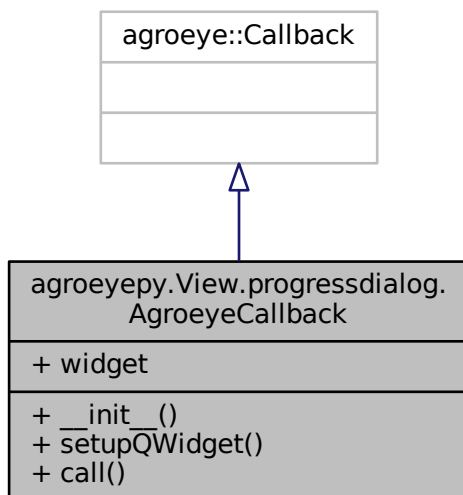
```
agroeyepy.Control.viewerApplication.AgroEye.viewArea
```

The documentation for this class was generated from the following file:

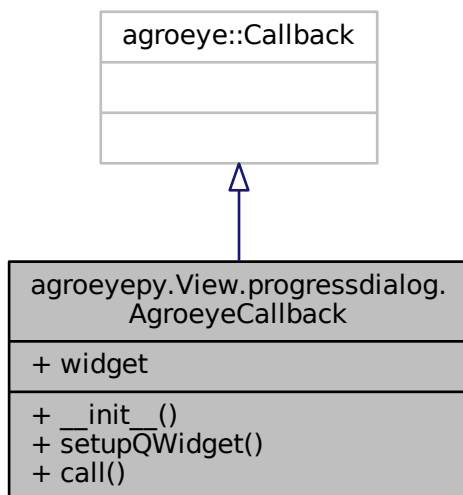
- `agroeyepy/Control/viewerApplication.py`

8.6 agroeyepy.View.progressdialog.AgroeyeCallback Class Reference

Inheritance diagram for agroeyepy.View.progressdialog.AgroeyeCallback:



Collaboration diagram for agroeyepy.View.progressdialog.AgroeyeCallback:



Public Member Functions

- `def \_\_init\_\_(self)`

- def [setupQWidget](#) (self, [widget](#)=None)
- def [call](#) (self)

Public Attributes

- [widget](#)

8.6.1 Constructor & Destructor Documentation

8.6.1.1 `__init__()`

```
def agroeyepy.View.progressdialog.AgroeyeCallback.__init__ (  
    self )
```

8.6.2 Member Function Documentation

8.6.2.1 `call()`

```
def agroeyepy.View.progressdialog.AgroeyeCallback.call (  
    self )
```

8.6.2.2 `setupQWidget()`

```
def agroeyepy.View.progressdialog.AgroeyeCallback.setupQWidget (  
    self,  
    widget = None )
```

8.6.3 Member Data Documentation

8.6.3.1 `widget`

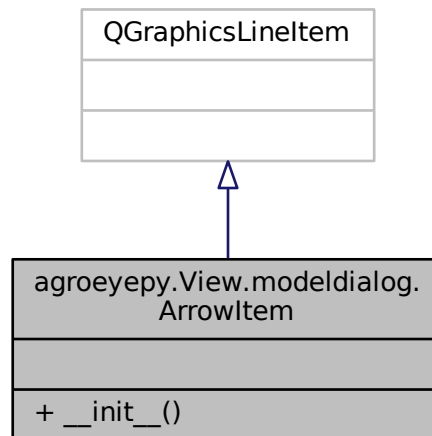
```
agroeyepy.View.progressdialog.AgroeyeCallback.widget
```

The documentation for this class was generated from the following file:

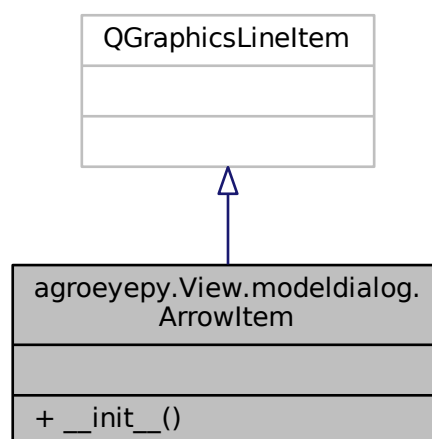
- [agroeyepy/View/progressdialog.py](#)

8.7 agroeyepy.View.modeldialog.ArrowItem Class Reference

Inheritance diagram for agroeyepy.View.modeldialog.ArrowItem:



Collaboration diagram for agroeyepy.View.modeldialog.ArrowItem:



Public Member Functions

- `def \_\_init\_\_(self, point1, point2)`

8.7.1 Constructor & Destructor Documentation

8.7.1.1 `__init__()`

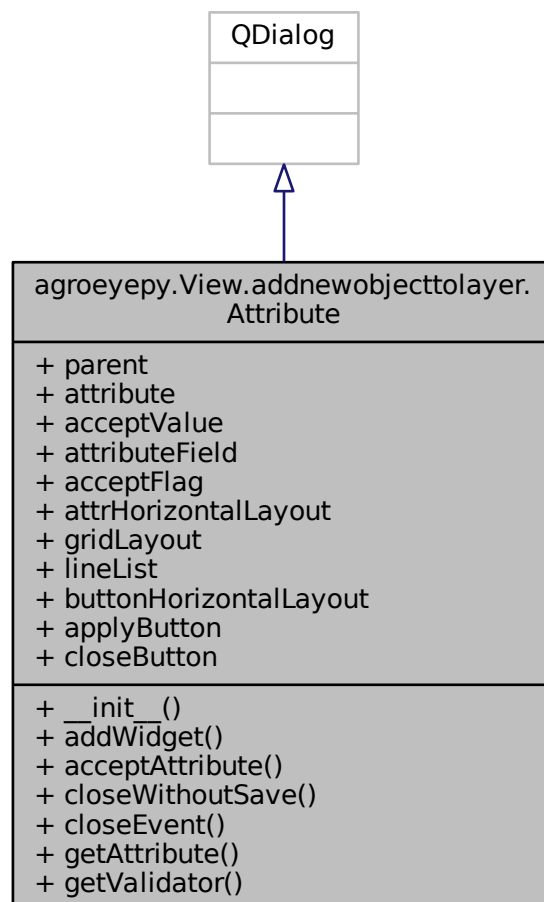
```
def agroeyepy.View.modeldialog.ArrowItem.__init__ (
    self,
    point1,
    point2 )
```

The documentation for this class was generated from the following file:

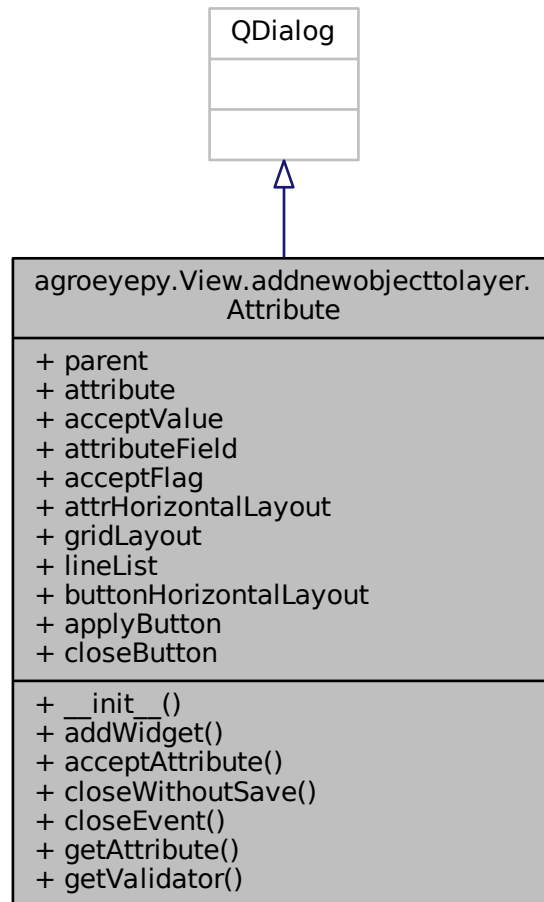
- [agroeyepy/View/modeldialog.py](#)

8.8 `agroeyepy.View.addnewobjecttolayer.Attribute` Class Reference

Inheritance diagram for `agroeyepy.View.addnewobjecttolayer.Attribute`:



Collaboration diagram for agroeyepy.View.addnewobjecttolayer.Attribute:



Public Member Functions

- `def __init__ (self, parent)`
- `def addWidget (self)`
Add QLabel with *Attribute* Name and QLineEdit to set *Attribute* Name.
- `def acceptAttribute (self)`
Action after click Accept Button.
- `def closeWithoutSave (self)`
- `def closeEvent (self, event)`
Close event.
- `def getAttribute (self)`
Returns *Attribute* Field.
- `def getValidator (self, type, index)`
Returns QRegExp validator, for selected field.

Public Attributes

- [parent](#)
- [attribute](#)
- [acceptValue](#)
- [attributeField](#)
- [acceptFlag](#)
- [attrHorizontalLayout](#)
- [gridLayout](#)
- [lineList](#)
- [buttonHorizontalLayout](#)
- [applyButton](#)
- [closeButton](#)

8.8.1 Constructor & Destructor Documentation

8.8.1.1 `__init__()`

```
def agroeyepy.View.addnewobjecttolayer.Attribute.__init__ (
    self,
    parent )
```

8.8.2 Member Function Documentation

8.8.2.1 `acceptAttribute()`

```
def agroeyepy.View.addnewobjecttolayer.Attribute.acceptAttribute (
    self )
```

Action after click Accept Button.

8.8.2.2 `addWidget()`

```
def agroeyepy.View.addnewobjecttolayer.Attribute.addWidget (
    self )
```

Add QLabel with [Attribute](#) Name and QLineEdit to set [Attribute](#) Name.

8.8.2.3 `closeEvent()`

```
def agroeyepy.View.addnewobjecttolayer.Attribute.closeEvent (
    self,
    event )
```

Close event.

Disconnect graphic signal.

8.8.2.4 closeWithoutSave()

```
def agroeyepy.View.addnewobjecttolayer.Attribute.closeWithoutSave (
    self )
```

8.8.2.5 getAttribute()

```
def agroeyepy.View.addnewobjecttolayer.Attribute.getAttribute (
    self )
```

Returns [Attribute](#) Field.

8.8.2.6 getValidator()

```
def agroeyepy.View.addnewobjecttolayer.Attribute.getValidator (
    self,
    type,
    index )
```

Returns QRegExp validator, for selected field.

8.8.3 Member Data Documentation

8.8.3.1 acceptFlag

```
agroeyepy.View.addnewobjecttolayer.Attribute.acceptFlag
```

8.8.3.2 acceptValue

```
agroeyepy.View.addnewobjecttolayer.Attribute.acceptValue
```

8.8.3.3 applyButton

```
agroeyepy.View.addnewobjecttolayer.Attribute.applyButton
```

8.8.3.4 attrHorizontalLayout

```
agroeyepy.View.addnewobjecttolayer.Attribute.attrHorizontalLayout
```

8.8.3.5 attribute

```
agroeyepy.View.addnewobjecttolayer.Attribute.attribute
```

8.8.3.6 attributeField

`agroeyepy.View.addnewobjecttolayer.Attribute.attributeField`

8.8.3.7 buttonHorizontalLayout

`agroeyepy.View.addnewobjecttolayer.Attribute.buttonHorizontalLayout`

8.8.3.8 closeButton

`agroeyepy.View.addnewobjecttolayer.Attribute.closeButton`

8.8.3.9 gridLayout

`agroeyepy.View.addnewobjecttolayer.Attribute.gridLayout`

8.8.3.10 lineList

`agroeyepy.View.addnewobjecttolayer.Attribute.lineList`

8.8.3.11 parent

`agroeyepy.View.addnewobjecttolayer.Attribute.parent`

The documentation for this class was generated from the following file:

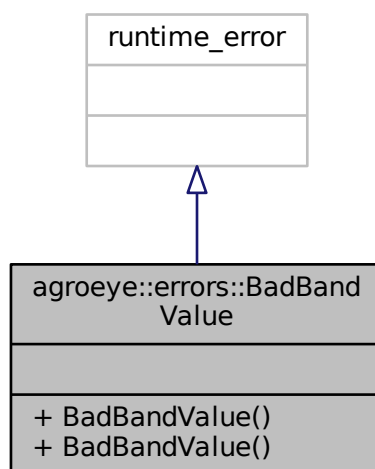
- `agroeyepy/View/addnewobjecttolayer.py`

8.9 agroeye::errors::BadBandValue Class Reference

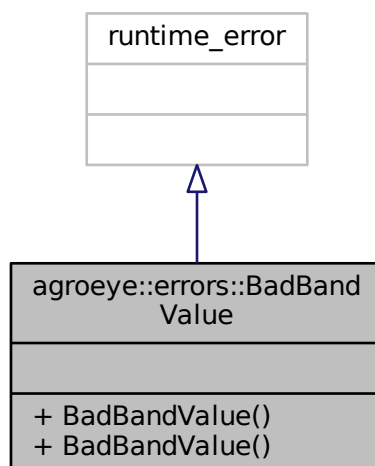
Exceptions associated with `agroeye::handlers::RasterBand`.

```
#include <RasterErrors.h>
```

Inheritance diagram for agroeye::errors::BadBandValue:



Collaboration diagram for agroeye::errors::BadBandValue:



Public Member Functions

- [BadBandValue](#) (std::string msg)
- [BadBandValue](#) ()

Exception with default information.

8.9.1 Detailed Description

Exceptions associated with [agroeye::handlers::RasterBand](#).

8.9.2 Constructor & Destructor Documentation

8.9.2.1 BadBandValue() [1/2]

```
agroeye::errors::BadBandValue::BadBandValue (
    std::string msg ) [inline]
```

8.9.2.2 BadBandValue() [2/2]

```
agroeye::errors::BadBandValue::BadBandValue ( ) [inline]
```

Exception with default information.

The documentation for this class was generated from the following file:

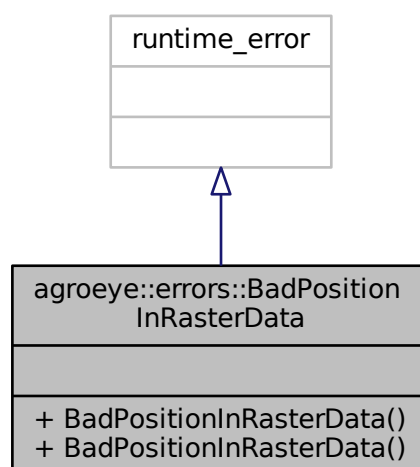
- [src/src/agroeye/errors/RasterErrors.h](#)

8.10 agroeye::errors::BadPositionInRasterData Class Reference

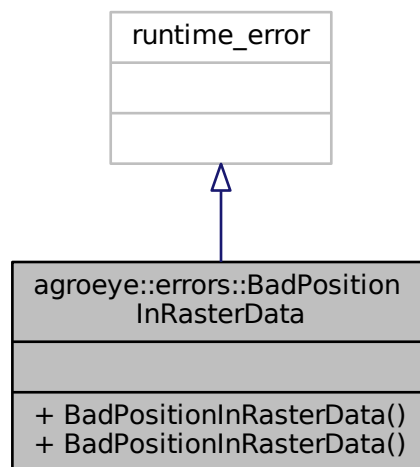
Exceptions associated with [agroeye::handlers::RasterData](#).

```
#include <RasterErrors.h>
```

Inheritance diagram for agroeye::errors::BadPositionInRasterData:



Collaboration diagram for agroeye::errors::BadPositionInRasterData:



Public Member Functions

- [BadPositionInRasterData](#) (std::string msg)
Exception with custom information.
- [BadPositionInRasterData](#) ()
Exception with default information.

8.10.1 Detailed Description

Exceptions associated with [agroeye::handlers::RasterData](#).

8.10.2 Constructor & Destructor Documentation

8.10.2.1 BadPositionInRasterData() [1/2]

```
agroeye::errors::BadPositionInRasterData::BadPositionInRasterData (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.10.2.2 `BadPositionInRasterData()` [2/2]

```
agroeye::errors::BadPositionInRasterData::BadPositionInRasterData ( ) [inline]
```

Exception with default information.

The documentation for this class was generated from the following file:

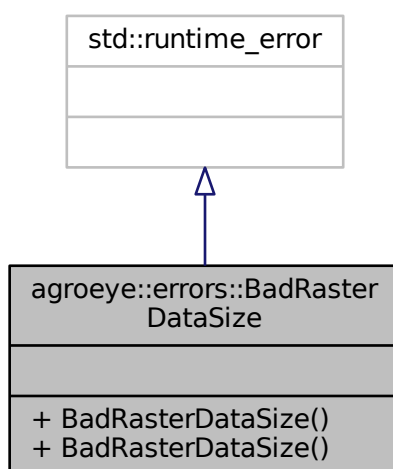
- `src/src/agroeye/errors/RasterErrors.h`

8.11 `agroeye::errors::BadRasterDataSize` Class Reference

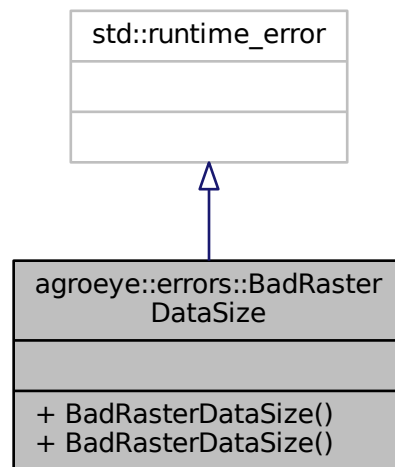
Exceptions associated with `agroeye::handlers::RasterData`.

```
#include <RasterErrors.h>
```

Inheritance diagram for `agroeye::errors::BadRasterDataSize`:



Collaboration diagram for agroeye::errors::BadRasterDataSize:



Public Member Functions

- [BadRasterDataSize](#) (std::string msg)
- [BadRasterDataSize](#) ()
Exception with default information.

8.11.1 Detailed Description

Exceptions associated with [agroeye::handlers::RasterData](#).

8.11.2 Constructor & Destructor Documentation

8.11.2.1 BadRasterDataSize() [1/2]

```
agroeye::errors::BadRasterDataSize::BadRasterDataSize (
    std::string msg ) [inline]
```

8.11.2.2 BadRasterDataSize() [2/2]

```
agroeye::errors::BadRasterDataSize::BadRasterDataSize ( ) [inline]
```

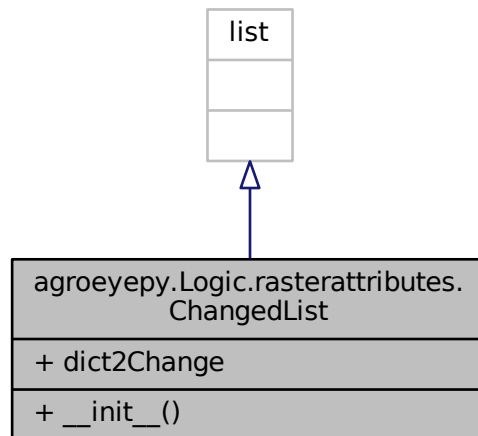
Exception with default information.

The documentation for this class was generated from the following file:

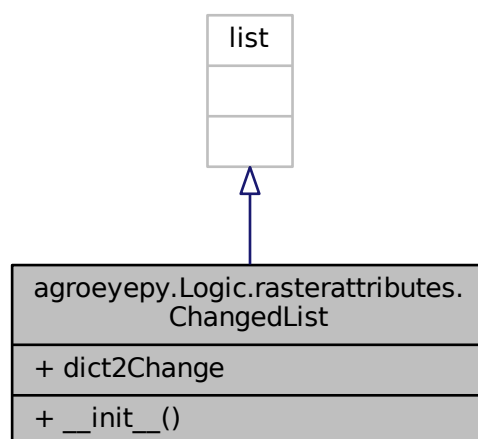
- `src/src/agroeye/errors/RasterErrors.h`

8.12 agroeyepy.Logic.rasterattributes.ChangedList Class Reference

Inheritance diagram for agroeyepy.Logic.rasterattributes.ChangedList:



Collaboration diagram for agroeyepy.Logic.rasterattributes.ChangedList:



Classes

- class [Dict2Change](#)

Public Member Functions

- `def \_\_init\_\_ (self, bands)`

Static Public Attributes

- `dict2Change`

8.12.1 Constructor & Destructor Documentation

8.12.1.1 `__init__()`

```
def agroeyepy.Logic.rasterattributes.ChangedList.__init__ (
    self,
    bands )
```

8.12.2 Member Data Documentation

8.12.2.1 `dict2Change`

```
agroeyepy.Logic.rasterattributes.ChangedList.dict2Change [static]
```

The documentation for this class was generated from the following file:

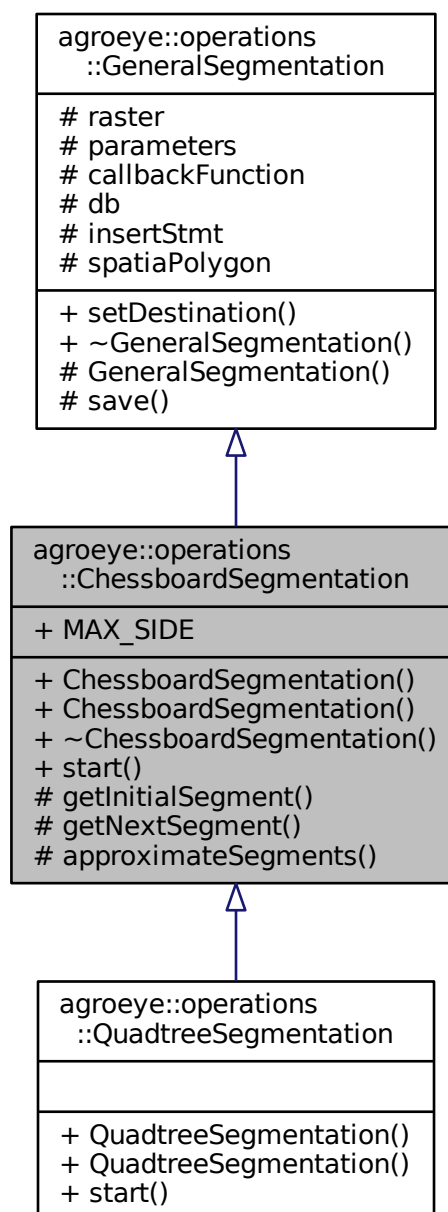
- `agroeyepy/Logic/rasterattributes.py`

8.13 agroeyepy::operations::ChessboardSegmentation Class Reference

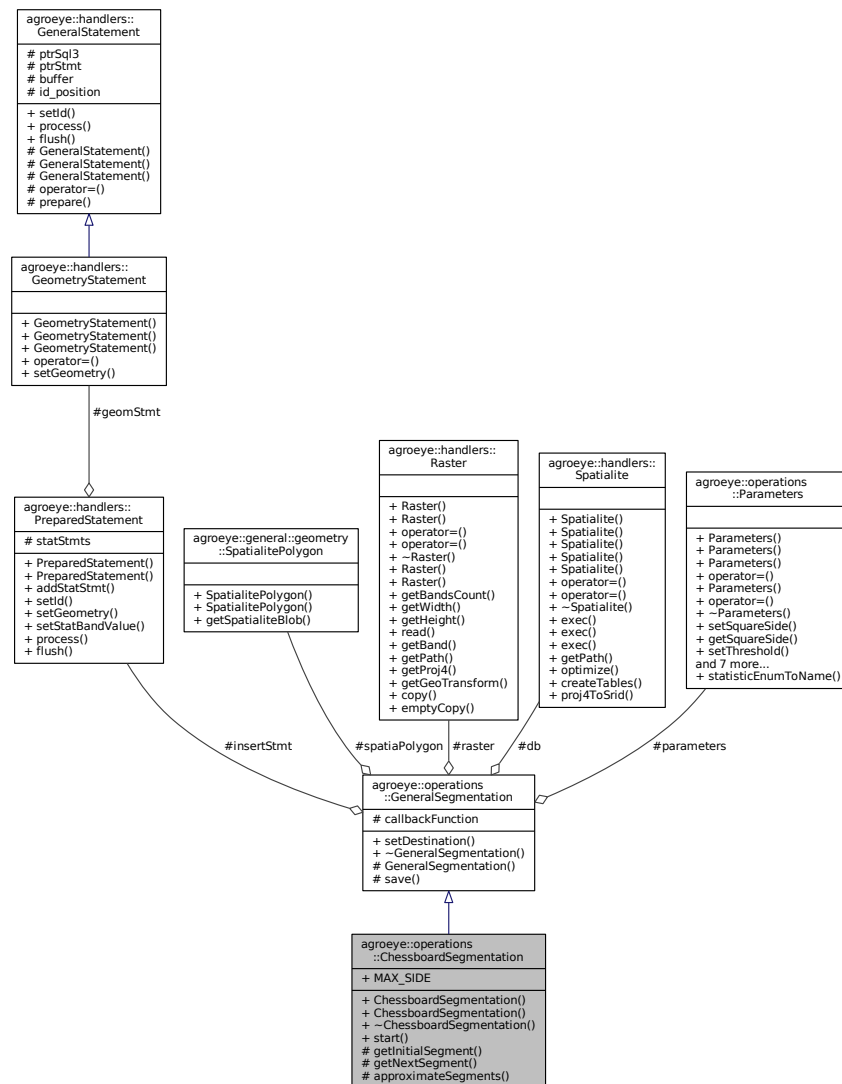
Chessboard Segmentation.

```
#include <SegmentationChessboard.h>
```

Inheritance diagram for agroeye::operations::ChessboardSegmentation:



Collaboration diagram for agroeye::operations::ChessboardSegmentation:



Public Member Functions

- [ChessboardSegmentation \(Raster raster, Parameters parameters\)](#)
Creates object segmenting the image.
- [ChessboardSegmentation \(Raster raster, Parameters parameters, CallbackFunction callbackFunc\)](#)
Creates object segmenting the image.
- virtual [~ChessboardSegmentation \(\)](#)
- int [start \(\)](#)
Starts the operation of segmenting image.

Static Public Attributes

- static const size_t [MAX_SIDE {256}](#)

Protected Member Functions

- [RasterDataGroup getInitialSegment \(\)](#)
Get first segment of image.
- [RasterDataGroup getNextSegment \(RasterDataGroup &rasterData\)](#)
Gets the next segment after given.
- `size_t` [approximateSegments \(\)](#) const

Additional Inherited Members

8.13.1 Detailed Description

Chessboard Segmentation.

8.13.2 Constructor & Destructor Documentation

8.13.2.1 ChessboardSegmentation() [1/2]

```
agroeye::operations::ChessboardSegmentation::ChessboardSegmentation (
    Raster raster,
    Parameters parameters )
```

Creates object segmenting the image.

Parameters

<i>raser</i>	Segmented image
<i>parameters</i>	Parameters of segmentation

8.13.2.2 ChessboardSegmentation() [2/2]

```
agroeye::operations::ChessboardSegmentation::ChessboardSegmentation (
    Raster raster,
    Parameters parameters,
    CallbackFunction callbackFunc )
```

Creates object segmenting the image.

Parameters

<i>raster</i>	Segmented image
<i>parameters</i>	Parameters of segmentation
<i>callbackFunc</i>	Callback function reporting progress

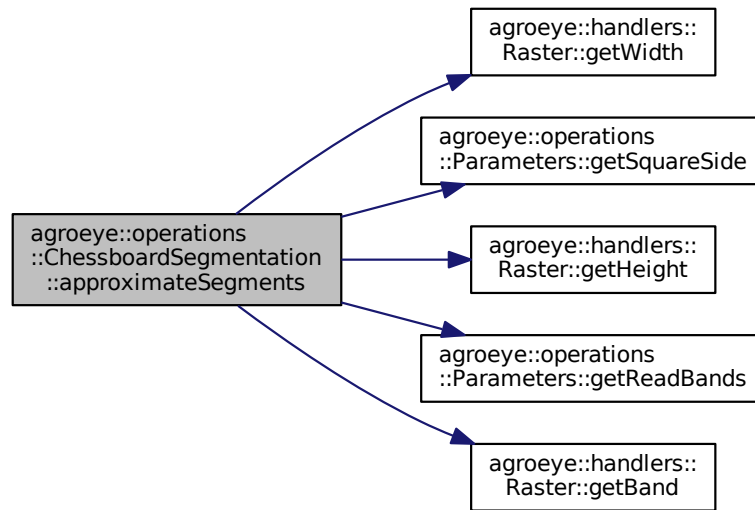

```
virtual agroeye::operations::ChessboardSegmentation::~~ChessboardSegmentation ( ) [inline],  
[virtual]
```

[illegible]

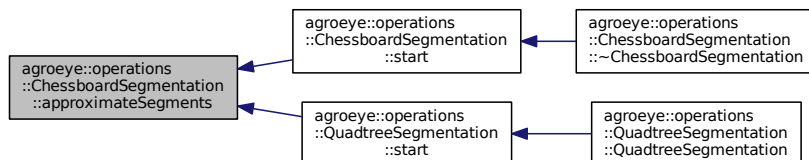
8.13.3.1 approximateSegments()

Generated by Doxygen

Here is the call graph for this function:



Here is the caller graph for this function:



8.13.3.2 `getInitialSegment()`

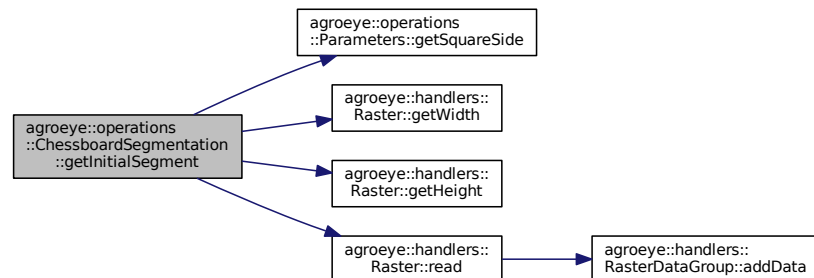
```
RasterDataGroup agroeye::operations::ChessboardSegmentation::getInitialSegment ( ) [protected]
```

Get first segment of image.

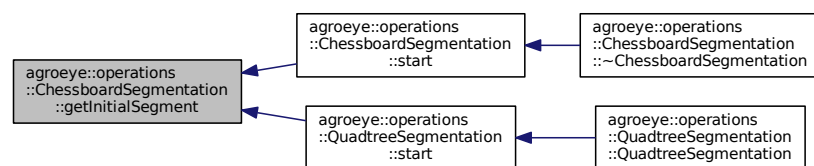
Returns

The initial segment

Here is the call graph for this function:



Here is the caller graph for this function:

**8.13.3.3 getNextSegment()**

```
RasterDataGroup agroeye::operations::ChessboardSegmentation::getNextSegment (
    RasterDataGroup & rasterData ) [protected]
```

Gets the next segment after given.

When end of raster is reached, an empty RasterDataGroup is returned

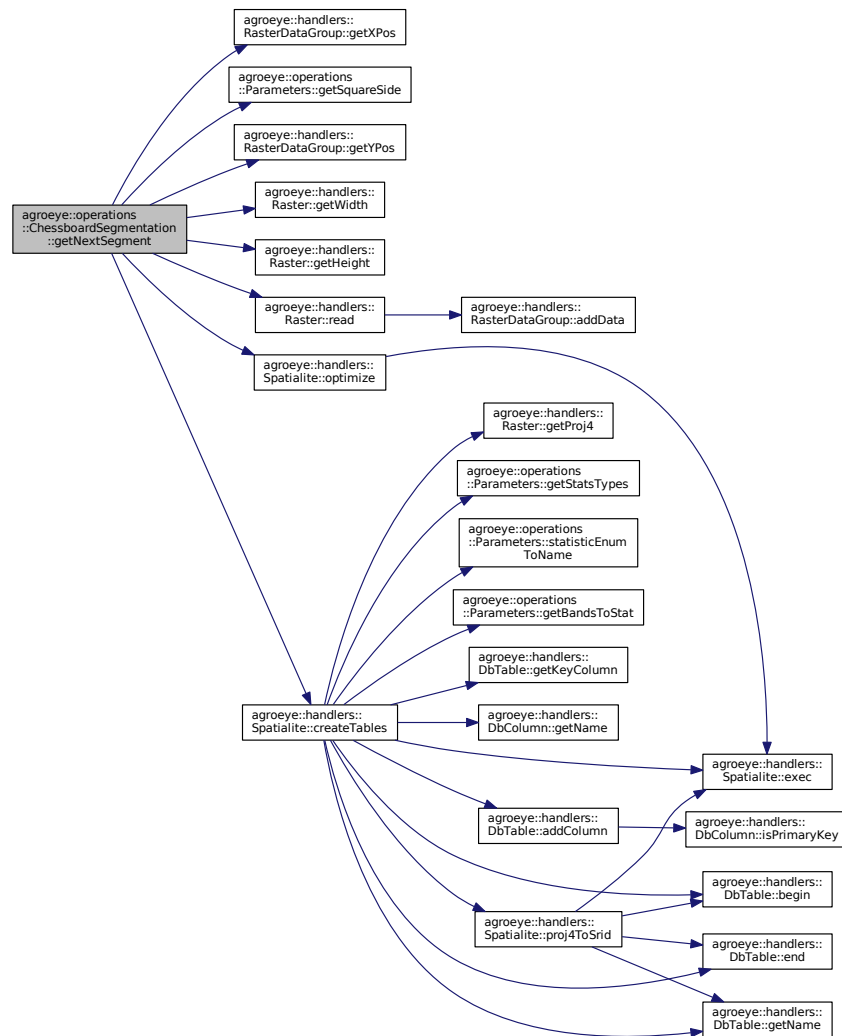
Parameters

<i>rasterData</i>	The proceeding segment

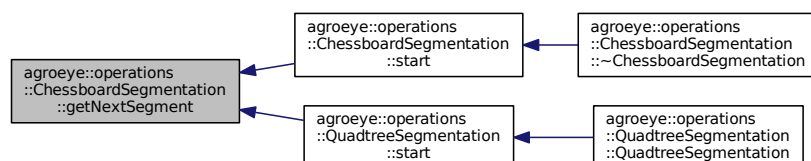
Returns

The following segment

Here is the call graph for this function:



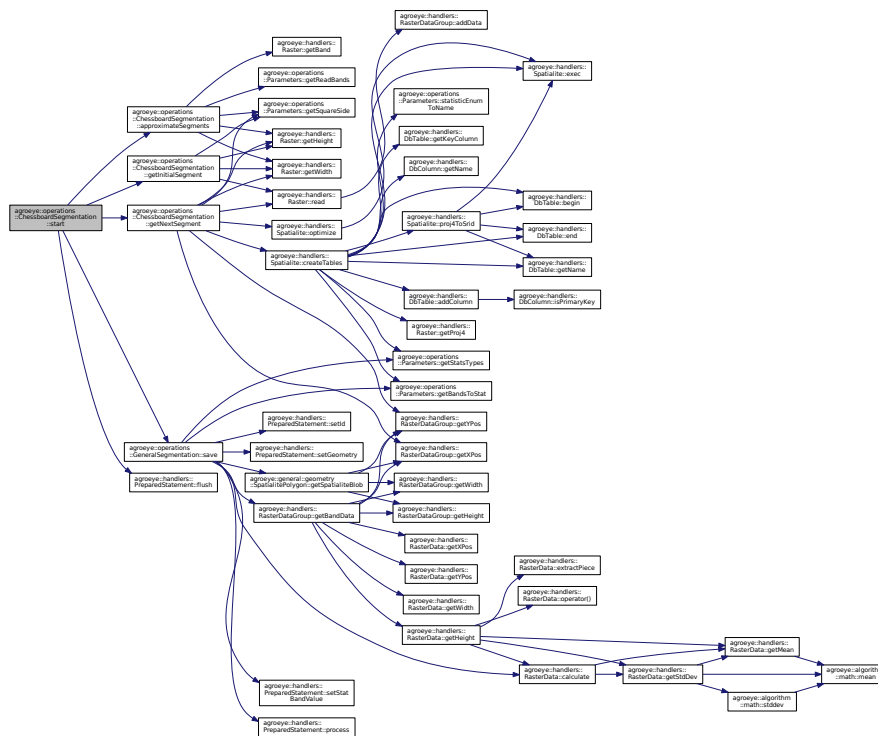
Here is the caller graph for this function:



```
int agroeye::operations::ChessboardSegmentation::start ( )
```

Returns

Here is the call graph for this function:



```
graph LR
    A["agroeye::operations  
::ChessboardSegmentation  
::start"] --> B["agroeye::operations  
::ChessboardSegmentation  
::~~ChessboardSegmentation"]
```

8.13.4 Member Data Documentation

8.13.4.1 MAX_SIDE

```
const size_t agroeyeye::operations::ChessboardSegmentation::MAX_SIDE {256} [static]
```

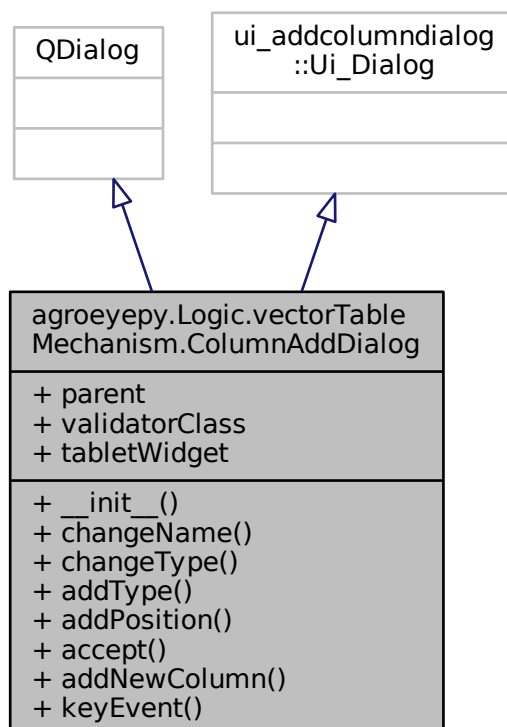
Maximum size of result square

The documentation for this class was generated from the following files:

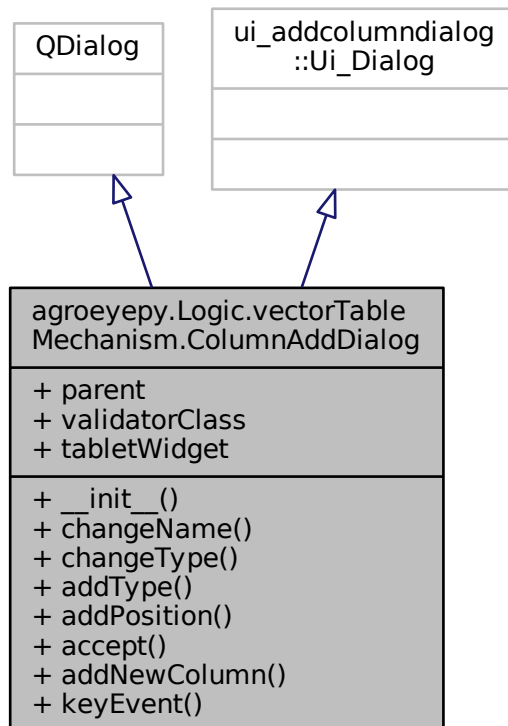
- [src/src/agroeyeye/operations/segmentation/SegmentationChessboard.h](#)
- [src/src/agroeyeye/operations/segmentation/SegmentationChessboard.cpp](#)

8.14 agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog Class Reference

Inheritance diagram for agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog:



Collaboration diagram for agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog:



Public Member Functions

- `def __init__ (self, parent, tableWidget)`
Open dialog to add new column.
- `def changeName (self)`
Action after write the name.
- `def changeType (self, index)`
Action after changed field in typeComboBox.
- `def addType (self)`
Create type for typeComboBox.
- `def addPosition (self)`
Create type for positionComboBox.
- `def accept (self)`
Action after clicked OK button.
- `def addNewColumn (self, nameCol, typeColName, posCol, lenCol, preCol)`
Adds new column and updates all values.
- `def keyEvent (self, event)`
Event for CTRL+C and CTRL+V.

Public Attributes

- [parent](#)
- [validatorClass](#)
- [tableWidget](#)

8.14.1 Constructor & Destructor Documentation

8.14.1.1 `__init__()`

```
def agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.__init__ (
    self,
    parent,
    tableWidget )
```

Open dialog to add new column.

Check if file name is valid. When creating new column, it is important to follow these rules:

- names must start with letter
- names must contain only letters, numbers and underscore
- spaces and other special characters are not supported
- names is limited to 15 characters

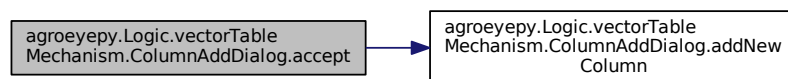
8.14.2 Member Function Documentation

8.14.2.1 `accept()`

```
def agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.accept (
    self )
```

Action after clicked OK button.

Creates new column with given name and type. Here is the call graph for this function:



8.14.2.2 `addNewColumn()`

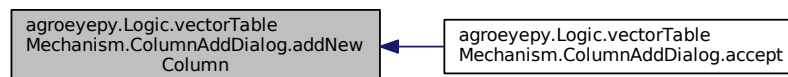
```
def agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.addNewColumn (
    self,
    nameCol,
    typeColName,
    posCol,
    lenCol,
    preCol )
```

Adds new column and updates all values.

Parameters

<i>nameCol</i>	Name of new field.
<i>typeColName</i>	Type of field.
<i>posCol</i>	Position of field.
<i>lenCol</i>	Length of field.
<i>preCol</i>	Precision of field.

Here is the caller graph for this function:



8.14.2.3 addPosition()

```
def agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.addPosition (
    self )
```

Create type for positionComboBox.

8.14.2.4 addType()

```
def agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.addType (
    self )
```

Create type for typeComboBox.

8.14.2.5 changeName()

```
def agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.changeName (
    self )
```

Action after write the name.

8.14.2.6 changeType()

```
def agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.changeType (
    self,
    index )
```

Action after changed field in typeComboBox.

Parameters

<i>index</i>	Index of new selected row.

8.14.2.7 keyEvent()

```
def agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.keyEvent (
    self,
    event )
```

Event for CTRL+C and CTRL+V.

8.14.3 Member Data Documentation**8.14.3.1 parent**

```
agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.parent
```

8.14.3.2 tabletWidget

```
agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.tabletWidget
```

8.14.3.3 validatorClass

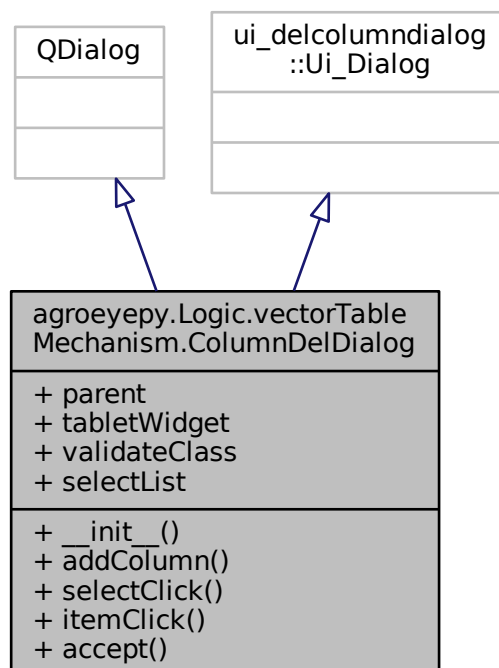
```
agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog.validatorClass
```

The documentation for this class was generated from the following file:

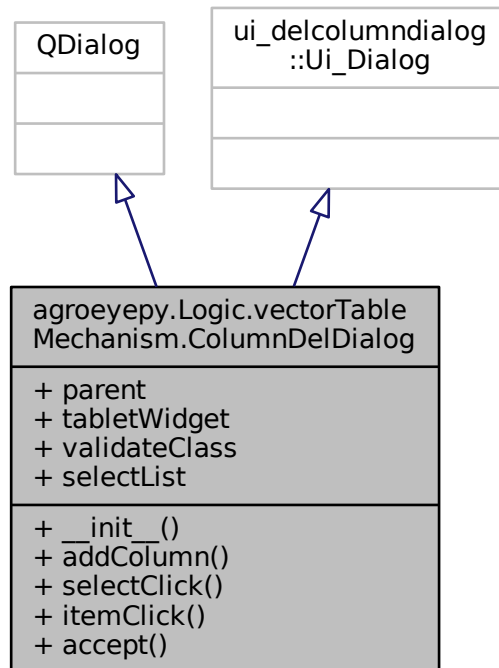
- agroeyepy/Logic/[vectorTableMechanism.py](#)

8.15 agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog Class Reference

Inheritance diagram for agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog:



Collaboration diagram for agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog:



Public Member Functions

- def `__init__` (self, `parent`, `tabletWidget`)
Open dialog to delete column.
- def `addColumn` (self)
Add names of column from attribute table to QListWidget.
- def `selectClick` (self)
Action after selected row in list.
- def `itemClick` (self, `item`)
Action after clicked row in list.
- def `accept` (self)
Action after clicked OK button.

Public Attributes

- `parent`
- `tabletWidget`
- `validateClass`
- `selectList`

8.15.1 Constructor & Destructor Documentation

8.15.1.1 `__init__()`

```
def agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.__init__ (
    self,
    parent,
    tableWidget )
```

Open dialog to delete column.

8.15.2 Member Function Documentation

8.15.2.1 `accept()`

```
def agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.accept (
    self )
```

Action after clicked OK button.

Delete the selected rows.

8.15.2.2 `addColumn()`

```
def agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.addColumn (
    self )
```

Add names of column from attribute table to QListWidget.

8.15.2.3 `itemClick()`

```
def agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.itemClick (
    self,
    item )
```

Action after clicked row in list.

Parameters

<i>item</i>	Item on the list.

8.15.2.4 `selectClick()`

```
def agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.selectClick (
    self )
```

Action after selected row in list.

8.15.3 Member Data Documentation

8.15.3.1 parent

`agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.parent`

8.15.3.2 selectList

`agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.selectList`

8.15.3.3 tabletWidget

`agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.tabletWidget`

8.15.3.4 validateClass

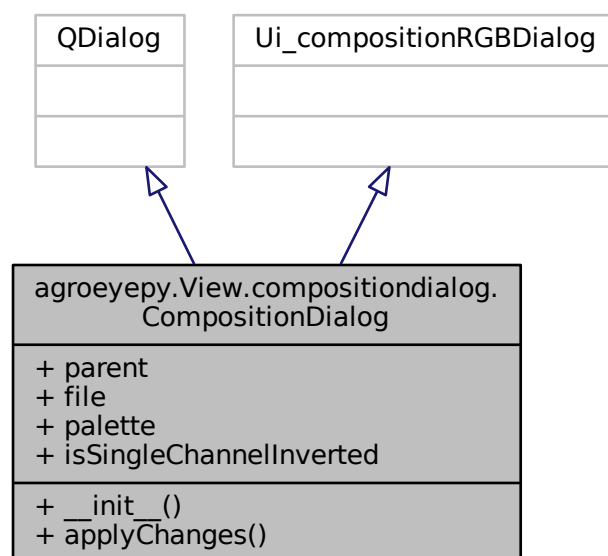
`agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog.validateClass`

The documentation for this class was generated from the following file:

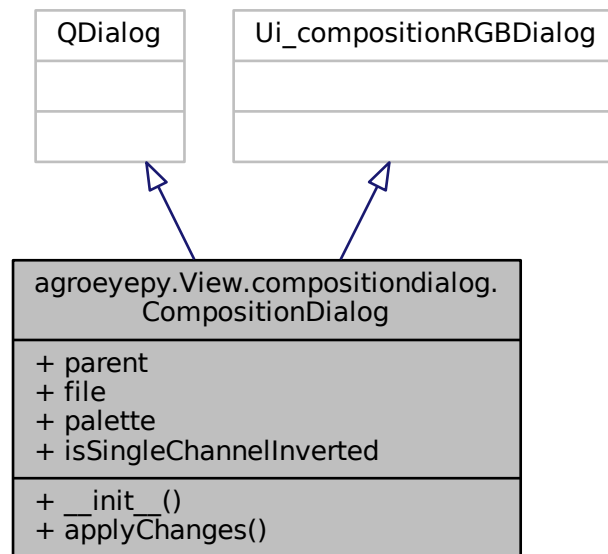
- [agroeyepy/Logic/vectorTableMechanism.py](#)

8.16 agroeyepy.View.compositiondialog.CompositionDialog Class Reference

Inheritance diagram for `agroeyepy.View.compositiondialog.CompositionDialog`:



Collaboration diagram for agroeyepy.View.compositiondialog.CompositionDialog:



Public Member Functions

- `def __init__ (self, parent, rowSelected)`
- `def applyChanges (self)`

Public Attributes

- [parent](#)
- [file](#)
- [palette](#)
- [isSingleChannelInverted](#)

8.16.1 Constructor & Destructor Documentation

8.16.1.1 __init__()

```

def agroeyepy.View.compositiondialog.CompositionDialog.__init__ (
    self,
    parent,
    rowSelected )
  
```

8.16.2 Member Function Documentation

8.16.2.1 applyChanges()

```
def agroeyepy.View.compositiondialog.CompositionDialog.applyChanges (
    self )
```

8.16.3 Member Data Documentation

8.16.3.1 file

```
agroeyepy.View.compositiondialog.CompositionDialog.file
```

8.16.3.2 isSingleChannelInverted

```
agroeyepy.View.compositiondialog.CompositionDialog.isSingleChannelInverted
```

8.16.3.3 palette

```
agroeyepy.View.compositiondialog.CompositionDialog.palette
```

8.16.3.4 parent

```
agroeyepy.View.compositiondialog.CompositionDialog.parent
```

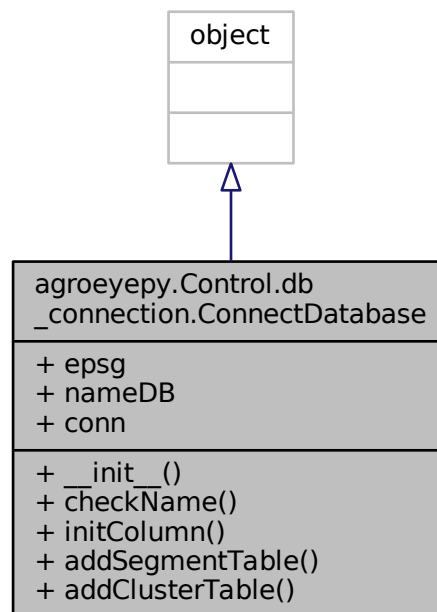
The documentation for this class was generated from the following file:

- agroeyepy/View/[compositiondialog.py](#)

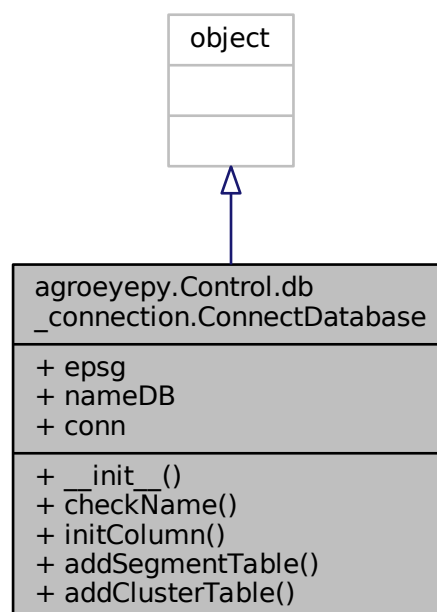
8.17 agroeyepy.Control.db_connection.ConnectDatabase Class Reference

Opens database.

Inheritance diagram for agroeyepy.Control.db_connection.ConnectDatabase:



Collaboration diagram for agroeyepy.Control.db_connection.ConnectDatabase:



Public Member Functions

- def `__init__` (self, name, `epsg`, parent=None)
- def `checkName` (self, name)
Check if filename is valid.
- def `initColumn` (self, numBand)
Init the column name in table.
- def `addSegmentTable` (self, source)
Create table with object from segmentation.
- def `addClusterTable` (self, source, `epsg_code`)
Create table for cluster.

Public Attributes

- `epsg`
- `nameDB`
- `conn`

8.17.1 Detailed Description

Opens database.

8.17.2 Constructor & Destructor Documentation

8.17.2.1 `__init__()`

```
def agroeyepy.Control.db_connection.ConnectDatabase.__init__ (
    self,
    name,
    epsg,
    parent = None )
```

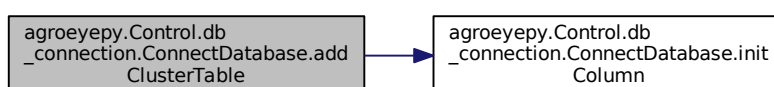
8.17.3 Member Function Documentation

8.17.3.1 `addClusterTable()`

```
def agroeyepy.Control.db_connection.ConnectDatabase.addClusterTable (
    self,
    source,
    epsg_code )
```

Create table for cluster.

Here is the call graph for this function:



8.17.3.2 addSegmentTable()

```
def agroeyepy.Control.db_connection.ConnectDatabase.addSegmentTable (
    self,
    source )
```

Create table with object from segmentation.

8.17.3.3 checkName()

```
def agroeyepy.Control.db_connection.ConnectDatabase.checkName (
    self,
    name )
```

Check if filename is valid.

Returns

Returns the valid filename.

8.17.3.4 initColumn()

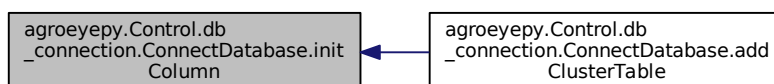
```
def agroeyepy.Control.db_connection.ConnectDatabase.initColumn (
    self,
    numBand )
```

Init the column name in table.

Returns

Returns the list of column name and column type.

Here is the caller graph for this function:



8.17.4 Member Data Documentation

8.17.4.1 conn

```
agroeyepy.Control.db_connection.ConnectDatabase.conn
```

8.17.4.2 epsg

`agroeyepy.Control.db_connection.ConnectDatabase.epsg`

8.17.4.3 nameDB

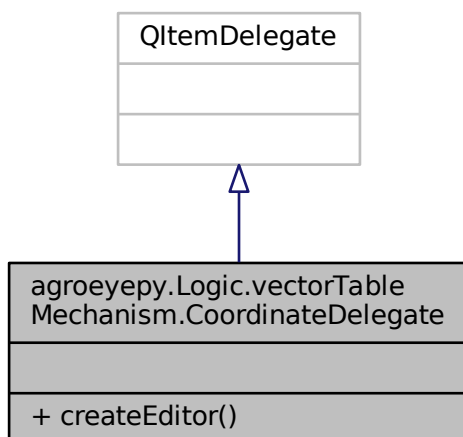
`agroeyepy.Control.db_connection.ConnectDatabase.nameDB`

The documentation for this class was generated from the following file:

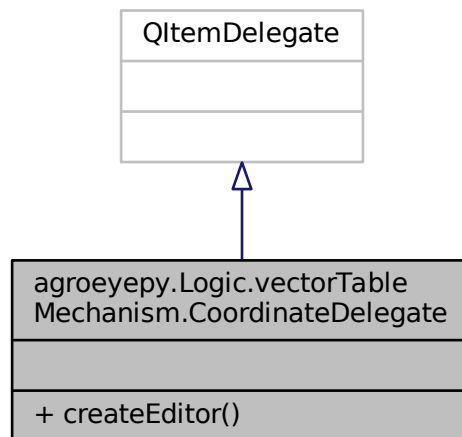
- `agroeyepy/Control/db_connection.py`

8.18 agroeyepy.Logic.vectorTableMechanism.CoordinateDelegate Class Reference

Inheritance diagram for `agroeyepy.Logic.vectorTableMechanism.CoordinateDelegate`:



Collaboration diagram for agroeyepy.Logic.vectorTableMechanism.CoordinateDelegate:



Public Member Functions

- def `createEditor` (self, widget, option, index)

8.18.1 Member Function Documentation

8.18.1.1 `createEditor()`

```

def agroeyepy.Logic.vectorTableMechanism.CoordinateDelegate.createEditor (
    self,
    widget,
    option,
    index )
  
```

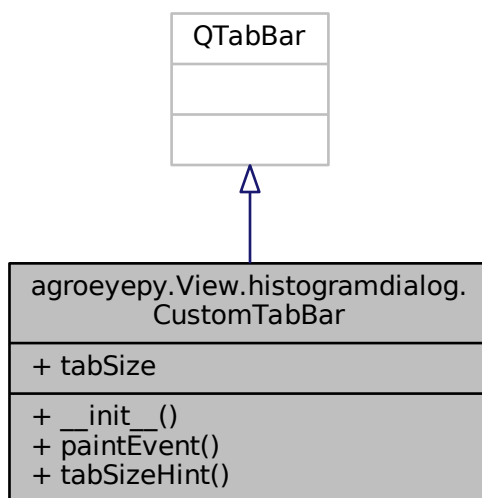
The documentation for this class was generated from the following file:

- agroeyepy/Logic/[vectorTableMechanism.py](#)

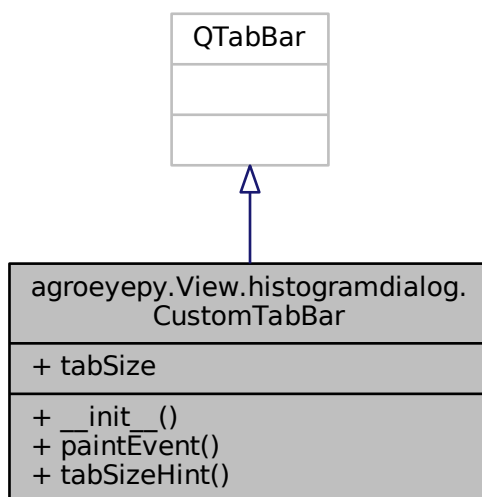
8.19 agroeyepy.View.histogramdialog.CustomTabBar Class Reference

: Customized tab bar of plots.

Inheritance diagram for `agroeyepy.View.histogramdialog.CustomTabBar`:



Collaboration diagram for `agroeyepy.View.histogramdialog.CustomTabBar`:



Public Member Functions

- `def __init__(self, parent=None, args, kwargs)`
- `def paintEvent(self, event)`
- `def tabSizeHint(self, index)`

Public Attributes

- [tabSize](#)

8.19.1 Detailed Description

: Customized tab bar of plots.

Tab bar will be placed on the left side and new tabs will be added vertically (new one below previous one).

8.19.2 Constructor & Destructor Documentation

8.19.2.1 `__init__()`

```
def agroeyepy.View.histogramdialog.CustomTabBar.__init__ (
    self,
    parent = None,
    args,
    kwargs )
```

8.19.3 Member Function Documentation

8.19.3.1 `paintEvent()`

```
def agroeyepy.View.histogramdialog.CustomTabBar.paintEvent (
    self,
    event )
```

8.19.3.2 `tabSizeHint()`

```
def agroeyepy.View.histogramdialog.CustomTabBar.tabSizeHint (
    self,
    index )
```

8.19.4 Member Data Documentation

8.19.4.1 `tabSize`

`agroeyepy.View.histogramdialog.CustomTabBar.tabSize`

The documentation for this class was generated from the following file:

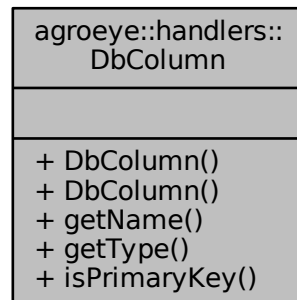
- `agroeyepy/View/histogramdialog.py`

8.20 agroeye::handlers::DbColumn Class Reference

Encapsulation of Sqlite3/Spatialite table.

```
#include <DatabaseColumn.h>
```

Collaboration diagram for agroeye::handlers::DbColumn:



Public Member Functions

- [DbColumn](#) ()
- [DbColumn](#) (const std::string &aName, const [ColumnType](#) &aType, bool isPrimary=false)
Constructor setting parameters of column.
- std::string [getName](#) () const
Get the name of column.
- [ColumnType](#) [getType](#) () const
Gets the type of data stored in column.
- bool [isPrimaryKey](#) () const
*Checks if column is primary key *.*

8.20.1 Detailed Description

Encapsulation of Sqlite3/Spatialite table.

8.20.2 Constructor & Destructor Documentation

8.20.2.1 DbColumn() [1/2]

```
agroeye::handlers::DbColumn::DbColumn ( ) [inline]
```


8.20.2.2 DbColumn() [2/2]

```
agroeye::handlers::DbColumn::DbColumn (
    const std::string & aName,
    const ColumnType & aType,
    bool isPrimary = false ) [inline]
```

Constructor setting parameters of column.

Constructs empty column with

Parameters

<i>aName</i>	Name of the column
<i>aType</i>	Type of stored data
<i>isPrimary</i>	Is the column PK, FALSE by default

8.20.3 Member Function Documentation

8.20.3.1 getName()

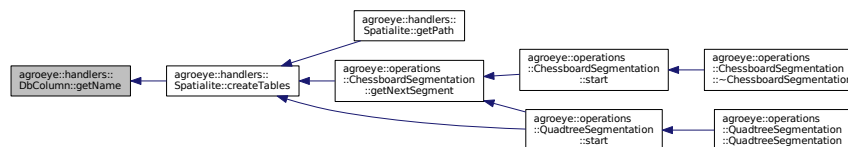
```
std::string agroeye::handlers::DbColumn::getName ( ) const [inline]
```

Get the name of column.

Returns

Name of the column

Here is the caller graph for this function:



8.20.3.2 getType()

```
ColumnType agroeye::handlers::DbColumn::getType ( ) const [inline]
```

Gets the type of data stored in column.

Returns

Type of data `ColumnType`

8.20.3.3 isPrimaryKey()

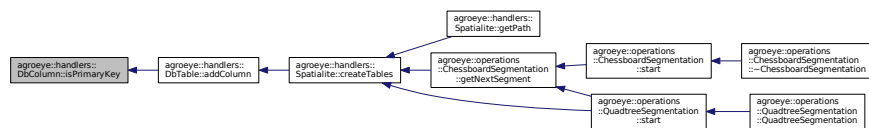
```
bool agroeye::handlers::DbColumn::isPrimaryKey ( ) const [inline]
```

Checks if column is primary key *.

Returns

if TRUE column is primary key, otherwise FALSE

Here is the caller graph for this function:



The documentation for this class was generated from the following file:

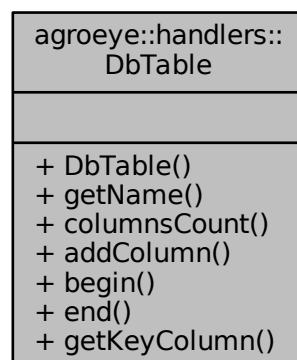
- [src/src/agroeye/handlers/Database/DatabaseColumn.h](#)

8.21 agroeye::handlers::DbTable Class Reference

Encapsulation of table in database.

```
#include <DatabaseTable.h>
```

Collaboration diagram for agroeye::handlers::DbTable:



Public Member Functions

- [DbTable](#) (const std::string &name)
Constructor of empty table.
- std::string [getName](#) () const
Gets name of the table.
- size_t [columnsCount](#) () const
Gets number of columns in table.
- void [addColumn](#) ([DbColumn](#) column)
Adds new column into table.
- [ColumnIteratorConst](#) [begin](#) () const
Gets the iterator to first column.
- [ColumnIteratorConst](#) [end](#) () const
Gets the iterator to first column behind last.
- const [DbColumn](#) & [getKeyColumn](#) () const
Gets the column with Primary Key.

8.21.1 Detailed Description

Encapsulation of table in database.

8.21.2 Constructor & Destructor Documentation

8.21.2.1 DbTable()

```
agroeye::handlers::DbTable::DbTable (
    const std::string & name )
```

Constructor of empty table.

Parameters

<i>name</i>	Name of table. Must be unique in database

8.21.3 Member Function Documentation

8.21.3.1 addColumn()

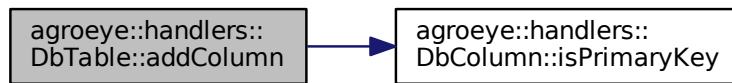
```
void agroeye::handlers::DbTable::addColumn (
    DbColumn column )
```

Adds new column into table.

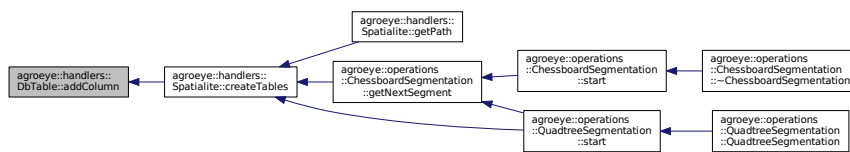
Parameters

<i>column</i>	The new column

Here is the call graph for this function:



Here is the caller graph for this function:



8.21.3.2 begin()

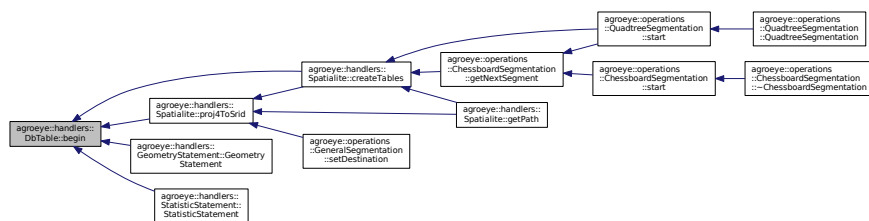
```
ColumnIteratorConst agroeye::handlers::DbTable::begin ( ) const
```

Gets the iterator to first column.

Returns

The column iterator

Here is the caller graph for this function:



8.21.3.3 columnsCount()

```
size_t agroeye::handlers::DbTable::columnsCount ( ) const
```

Gets number of columns in table.

Returns

Number of columns

8.21.3.4 end()

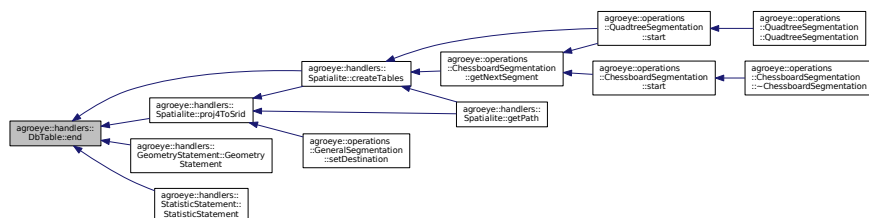
```
ColumnIteratorConst agroeye::handlers::DbTable::end ( ) const
```

Gets the iterator to first column behind last.

Returns

The column iterator

Here is the caller graph for this function:



8.21.3.5 getKeyColumn()

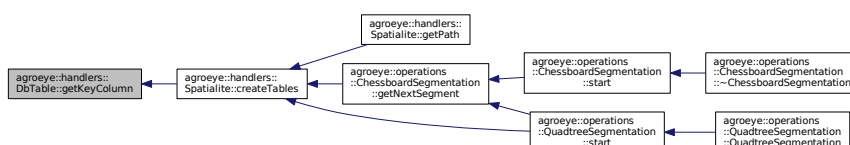
```
const DbColumn & agroeye::handlers::DbTable::getKeyColumn ( ) const
```

Gets the column with Primary Key.

Returns

Primary Key column

Here is the caller graph for this function:



8.21.3.6 getName()

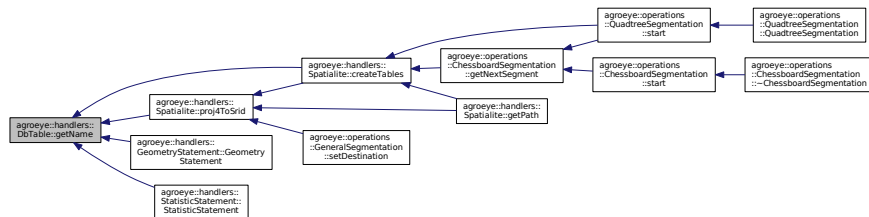
```
std::string agroeyepy::handlers::DbTable::getName ( ) const
```

Gets name of the table.

Returns

Name of the table

Here is the caller graph for this function:

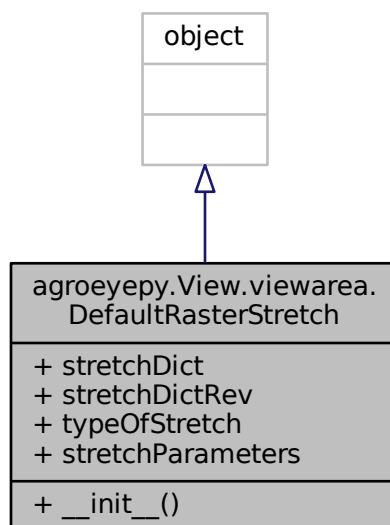


The documentation for this class was generated from the following files:

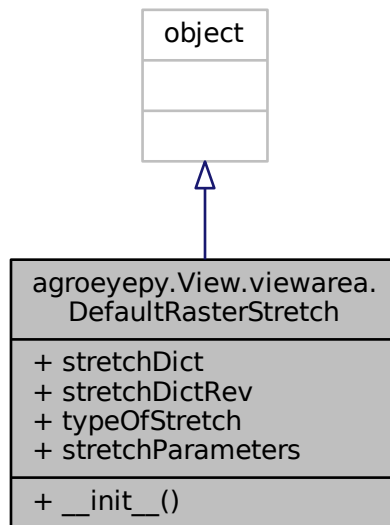
- [src/src/agroeyepy/handlers/Database/DatabaseTable.h](#)
- [src/src/agroeyepy/handlers/Database/DatabaseTable.cpp](#)

8.22 agroeyepy.View.viewarea.DefaultRasterStretch Class Reference

Inheritance diagram for agroeyepy.View.viewarea.DefaultRasterStretch:



Collaboration diagram for `agroeyepy.View.viewarea.DefaultRasterStretch`:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- [stretchDict](#)
- [stretchDictRev](#)
- [typeOfStretch](#)
- [stretchParameters](#)

8.22.1 Constructor & Destructor Documentation

8.22.1.1 `__init__()`

```
def agroeyepy.View.viewarea.DefaultRasterStretch.__init__(
    self )
```

8.22.2 Member Data Documentation

8.22.2.1 `stretchDict`

```
agroeyepy.View.viewarea.DefaultRasterStretch.stretchDict
```


8.22.2.2 stretchDictRev

```
agroeyepy.View.viewarea.DefaultRasterStretch.stretchDictRev
```

8.22.2.3 stretchParameters

```
agroeyepy.View.viewarea.DefaultRasterStretch.stretchParameters
```

8.22.2.4 typeOfStretch

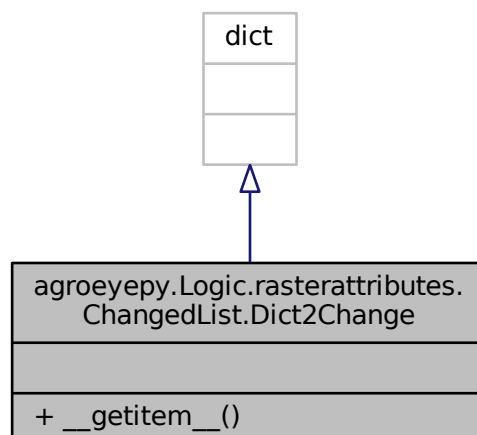
```
agroeyepy.View.viewarea.DefaultRasterStretch.typeOfStretch
```

The documentation for this class was generated from the following file:

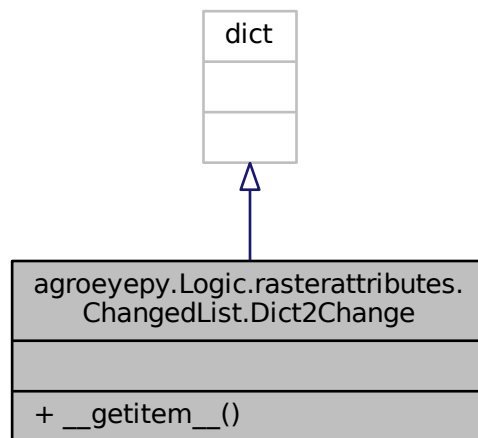
- [agroeyepy/View/viewarea.py](#)

8.23 agroeyepy.Logic.rasterattributes.ChangedList.Dict2Change Class Reference

Inheritance diagram for agroeyepy.Logic.rasterattributes.ChangedList.Dict2Change:



Collaboration diagram for `agroeyepy.Logic.rasterattributes.ChangedList.Dict2Change`:



Public Member Functions

- `def \_\_getitem\_\_ (self, key)`

8.23.1 Member Function Documentation

8.23.1.1 `__getitem__()`

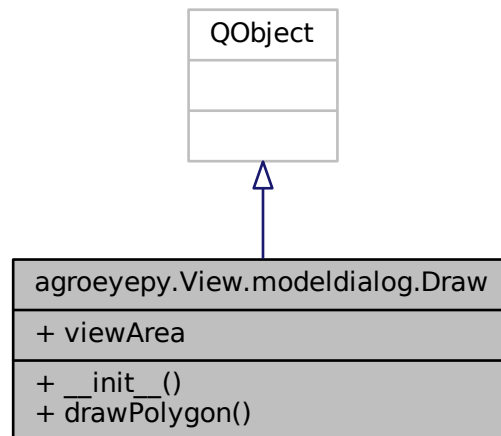
```
def agroeyepy.Logic.rasterattributes.ChangedList.Dict2Change.__getitem__ (
    self,
    key )
```

The documentation for this class was generated from the following file:

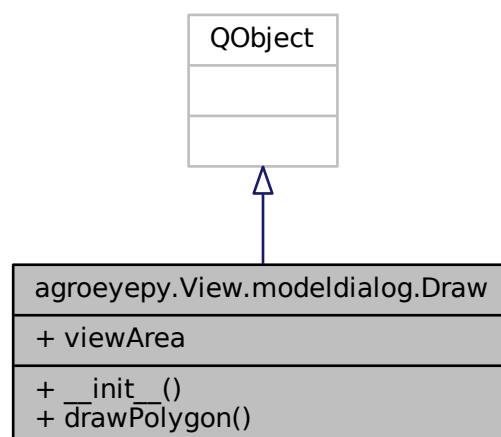
- `agroeyepy/Logic/rasterattributes.py`

8.24 agroeyepy.View.modeldialog.Draw Class Reference

Inheritance diagram for agroeyepy.View.modeldialog.Draw:



Collaboration diagram for agroeyepy.View.modeldialog.Draw:



Public Member Functions

- def `__init__`(self, [viewArea](#))
- def [drawPolygon](#)(self, geom)

Public Attributes

- [viewArea](#)

8.24.1 Constructor & Destructor Documentation

8.24.1.1 `__init__()`

```
def agroeyepy.View.modeldialog.Draw.__init__ (
    self,
    viewArea )
```

8.24.2 Member Function Documentation

8.24.2.1 `drawPolygon()`

```
def agroeyepy.View.modeldialog.Draw.drawPolygon (
    self,
    geom )
```

8.24.3 Member Data Documentation

8.24.3.1 `viewArea`

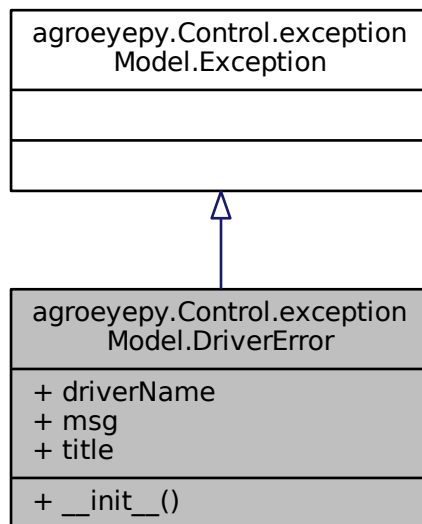
```
agroeyepy.View.modeldialog.Draw.viewArea
```

The documentation for this class was generated from the following file:

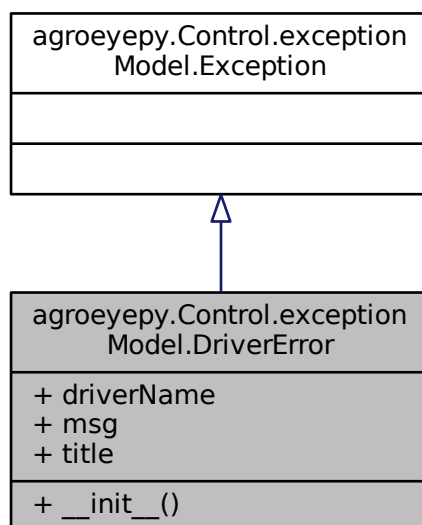
- [agroeyepy/View/modeldialog.py](#)

8.25 agroeyepy.Control.exceptionModel.DriverError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.DriverError:



Collaboration diagram for agroeyepy.Control.exceptionModel.DriverError:



Public Member Functions

- `def \_\_init\_\_(self, driverName)`

Public Attributes

- [driverName](#)
- [msg](#)
- [title](#)

8.25.1 Constructor & Destructor Documentation

8.25.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.DriverError.__init__ (  
    self,  
    driverName )
```

8.25.2 Member Data Documentation

8.25.2.1 `driverName`

```
agroeyepy.Control.exceptionModel.DriverError.driverName
```

8.25.2.2 `msg`

```
agroeyepy.Control.exceptionModel.DriverError.msg
```

8.25.2.3 `title`

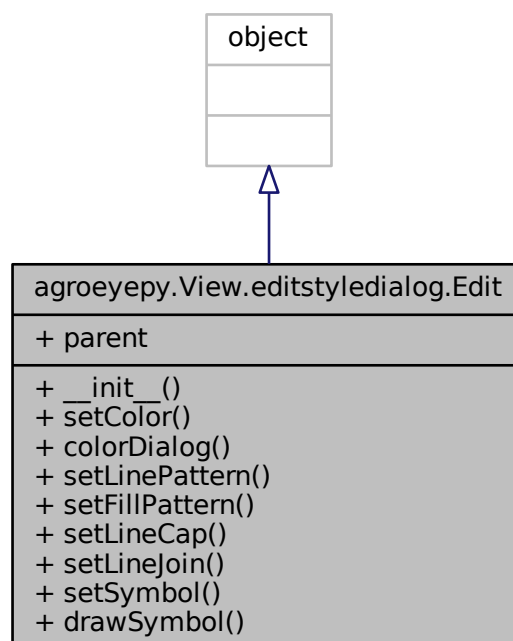
```
agroeyepy.Control.exceptionModel.DriverError.title
```

The documentation for this class was generated from the following file:

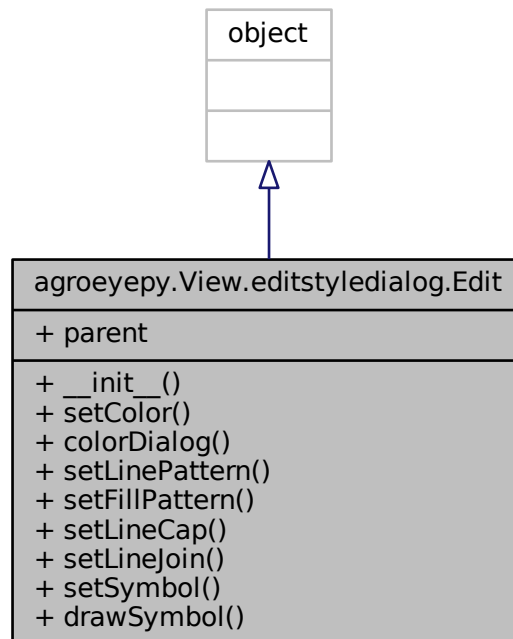
- `agroeyepy/Control/exceptionModel.py`

8.26 agroeyepy.View.editstyledialog.Edit Class Reference

Inheritance diagram for agroeyepy.View.editstyledialog.Edit:



Collaboration diagram for `agroeyepy.View.editstyledialog.Edit`:



Public Member Functions

- `def __init__ (self, parent)`
- `def setColor (self, colour, button)`
- `def colorDialog (self, colour, button)`
Sets color of features.
- `def setLinePattern (self, patternLine, comboBox)`
Set style for QPen.
- `def setFillPattern (self, pattern, comboBox)`
Set style for QBrush.
- `def setLineCap (self, capPattern, comboBox)`
- `def setLineJoin (self, joinPattern, comboBox)`
- `def setSymbol (self, symbol, comboBox)`
Set style of point vertices.
- `def drawSymbol (self, shape)`
Create point style in QComboBox.

Public Attributes

- `parent`

8.26.1 Constructor & Destructor Documentation

8.26.1.1 `__init__()`

```
def agroeyepy.View.editstyledialog.Edit.__init__ (
    self,
    parent )
```

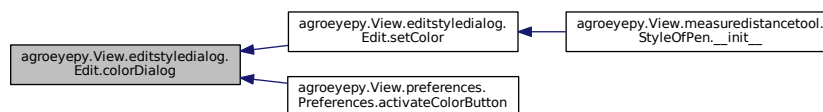
8.26.2 Member Function Documentation

8.26.2.1 `colorDialog()`

```
def agroeyepy.View.editstyledialog.Edit.colorDialog (
    self,
    colour,
    button )
```

Sets color of features.

Opens QColorDialog to set new color. Here is the caller graph for this function:



8.26.2.2 `drawSymbol()`

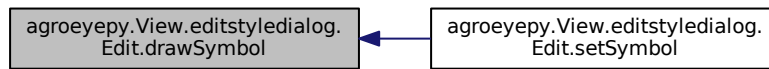
```
def agroeyepy.View.editstyledialog.Edit.drawSymbol (
    self,
    shape )
```

Create point style in QComboBox.

Parameters

<code>shape</code>	the type of selected style of point

Here is the caller graph for this function:



8.26.2.3 setColor()

```
def agroeyepy.View.editstyledialog.Edit.setColor (
    self,
    colour,
    button )
```

Here is the call graph for this function:



Here is the caller graph for this function:



8.26.2.4 setFillPattern()

```
def agroeyepy.View.editstyledialog.Edit.setFillPattern (
    self,
    pattern,
    comboBox )
```

Set style for QBrush.

8.26.2.5 setLineCap()

```
def agroeyepy.View.editstyledialog.Edit.setLineCap (
    self,
    capPattern,
    comboBox )
```

8.26.2.6 setLineJoin()

```
def agroeyepy.View.editstyledialog.Edit.setLineJoin (
    self,
    joinPattern,
    comboBox )
```

8.26.2.7 setLinePattern()

```
def agroeyepy.View.editstyledialog.Edit.setLinePattern (
    self,
    patternLine,
    comboBox )
```

Set style for QPen.

8.26.2.8 setSymbol()

```
def agroeyepy.View.editstyledialog.Edit.setSymbol (
    self,
    symbol,
    comboBox )
```

Set style of point verticles.

Here is the call graph for this function:



8.26.3 Member Data Documentation

8.26.3.1 parent

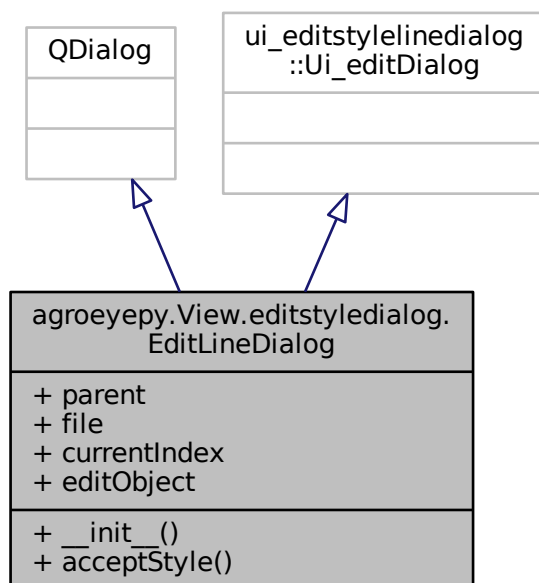
```
agroeyepy.View.editstyledialog.Edit.parent
```

The documentation for this class was generated from the following file:

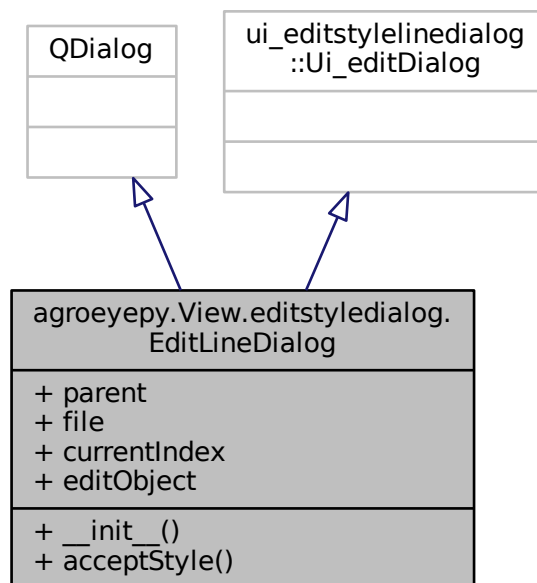
- `agroeyepy/View/editstyledialog.py`

8.27 agroeyepy.View.editstyledialog.EditLineDialog Class Reference

Inheritance diagram for agroeyepy.View.editstyledialog.EditLineDialog:



Collaboration diagram for agroeyepy.View.editstyledialog.EditLineDialog:



Public Member Functions

- `def __init__ (self, parent, rowSelected)`
Edit style of vector file - icon, color and size.
- `def acceptStyle (self)`

Public Attributes

- [parent](#)
- [file](#)
- [currentIndex](#)
- [editObject](#)

8.27.1 Constructor & Destructor Documentation

8.27.1.1 `__init__()`

```
def agroeyepy.View.editstyledialog.EditLineDialog.__init__ (
    self,
    parent,
    rowSelected )
```

[Edit](#) style of vector file - icon, color and size.

Parameters

<i>rowSelected</i>	selcted file.

8.27.2 Member Function Documentation**8.27.2.1 acceptStyle()**

```
def agroeyepy.View.editstyledialog.EditLineDialog.acceptStyle (  
    self )
```

8.27.3 Member Data Documentation**8.27.3.1 currentIndex**

```
agroeyepy.View.editstyledialog.EditLineDialog.currentIndex
```

8.27.3.2 editObject

```
agroeyepy.View.editstyledialog.EditLineDialog.editObject
```

8.27.3.3 file

```
agroeyepy.View.editstyledialog.EditLineDialog.file
```

8.27.3.4 parent

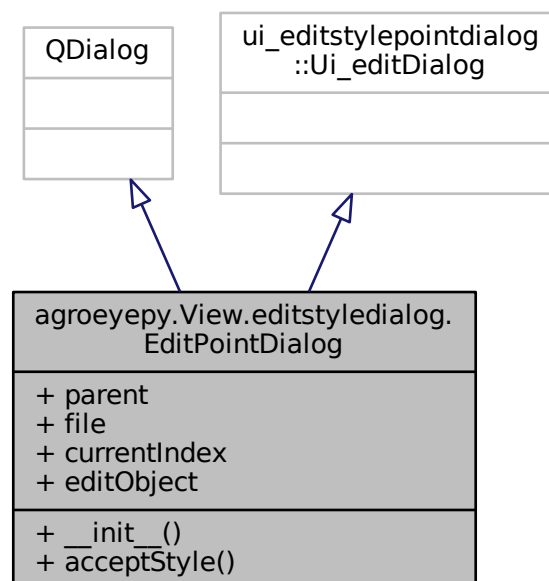
```
agroeyepy.View.editstyledialog.EditLineDialog.parent
```

The documentation for this class was generated from the following file:

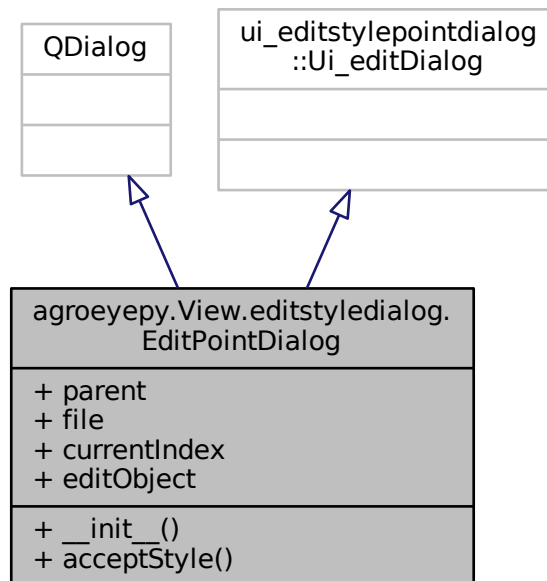
- agroeyepy/View/[editstyledialog.py](#)

8.28 agroeyepy.View.editstyledialog.EditPointDialog Class Reference

Inheritance diagram for agroeyepy.View.editstyledialog.EditPointDialog:



Collaboration diagram for `agroeyepy.View.editstyledialog.EditPointDialog`:



Public Member Functions

- `def __init__(self, parent, rowSelected)`
Edit style of vector file - icon, color and size.
- `def acceptStyle(self)`

Public Attributes

- `parent`
- `file`
- `currentIndex`
- `editObject`

8.28.1 Constructor & Destructor Documentation

8.28.1.1 __init__()

```

def agroeyepy.View.editstyledialog.EditPointDialog.__init__(
    self,
    parent,
    rowSelected )
  
```

[Edit](#) style of vector file - icon, color and size.

Parameters

<i>rowSelected</i>	selcted file.

8.28.2 Member Function Documentation

8.28.2.1 acceptStyle()

```
def agroeyepy.View.editstyledialog.EditPointDialog.acceptStyle (  
    self )
```

8.28.3 Member Data Documentation

8.28.3.1 currentIndex

```
agroeyepy.View.editstyledialog.EditPointDialog.currentIndex
```

8.28.3.2 editObject

```
agroeyepy.View.editstyledialog.EditPointDialog.editObject
```

8.28.3.3 file

```
agroeyepy.View.editstyledialog.EditPointDialog.file
```

8.28.3.4 parent

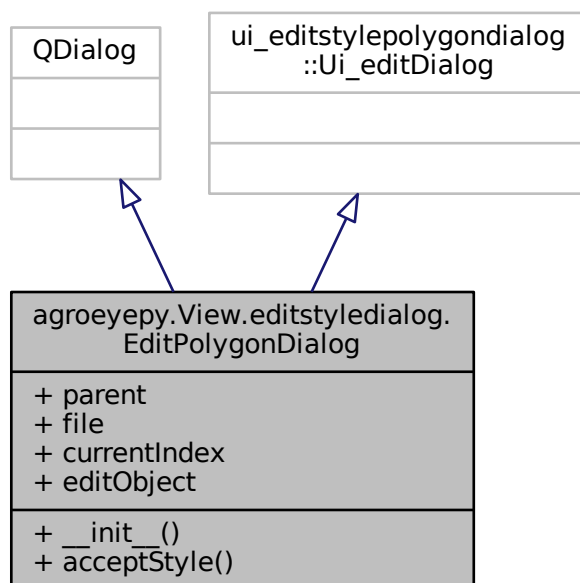
```
agroeyepy.View.editstyledialog.EditPointDialog.parent
```

The documentation for this class was generated from the following file:

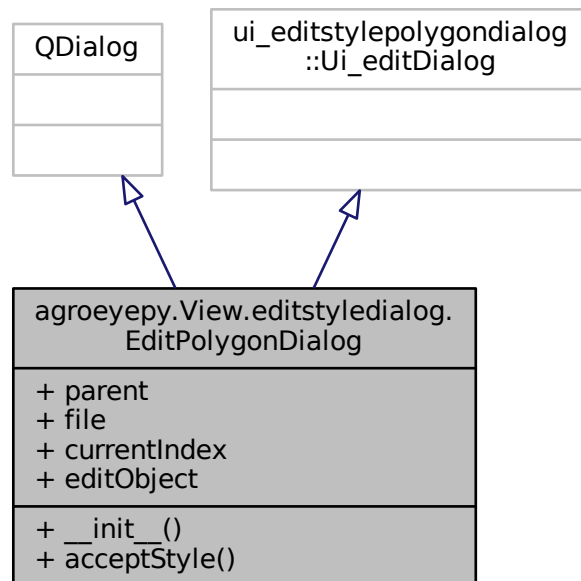
- agroeyepy/View/[editstyledialog.py](#)

8.29 agroeyepy.View.editstyledialog.EditPolygonDialog Class Reference

Inheritance diagram for agroeyepy.View.editstyledialog.EditPolygonDialog:



Collaboration diagram for agroeyepy.View.editstyledialog.EditPolygonDialog:



Public Member Functions

- `def __init__(self, parent, rowSelected)`
Edit style of vector file - icon, color and size.
- `def acceptStyle(self)`

Public Attributes

- `parent`
- `file`
- `currentIndex`
- `editObject`

8.29.1 Constructor & Destructor Documentation

8.29.1.1 __init__()

```
def agroeyepy.View.editstyledialog.EditPolygonDialog.__init__(
    self,
    parent,
    rowSelected )
```

Edit style of vector file - icon, color and size.

Parameters

<i>rowSelected</i>	selcted file.

8.29.2 Member Function Documentation**8.29.2.1 acceptStyle()**

```
def agroeyepy.View.editstyledialog.EditPolygonDialog.acceptStyle (
    self )
```

8.29.3 Member Data Documentation**8.29.3.1 currentIndex**

```
agroeyepy.View.editstyledialog.EditPolygonDialog.currentIndex
```

8.29.3.2 editObject

```
agroeyepy.View.editstyledialog.EditPolygonDialog.editObject
```

8.29.3.3 file

```
agroeyepy.View.editstyledialog.EditPolygonDialog.file
```

8.29.3.4 parent

```
agroeyepy.View.editstyledialog.EditPolygonDialog.parent
```

The documentation for this class was generated from the following file:

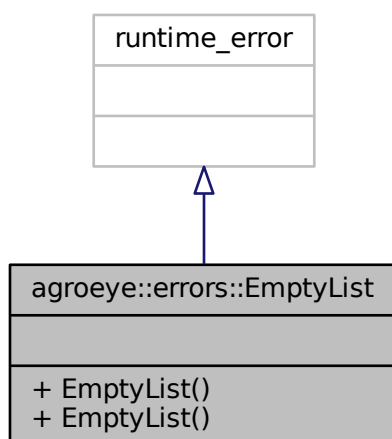
- agroeyepy/View/[editstyledialog.py](#)

8.30 agroeye::errors::EmptyList Class Reference

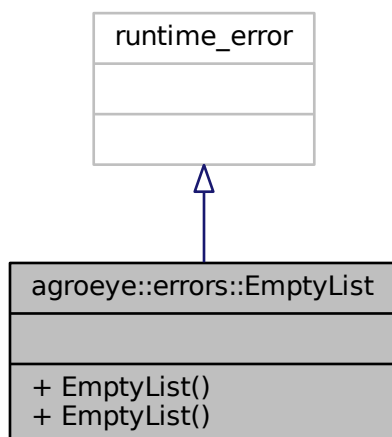
General exceptions describing empty container.

```
#include <GeneralErrors.h>
```

Inheritance diagram for agroeye::errors::EmptyList:



Collaboration diagram for agroeye::errors::EmptyList:



Public Member Functions

- [EmptyList](#) (std::string msg)
Exception with custom information.
- [EmptyList](#) ()
Exception with default information.

8.30.1 Detailed Description

General exceptions describing empty container.

General exceptions not associated with any particular class

8.30.2 Constructor & Destructor Documentation

8.30.2.1 [EmptyList\(\)](#) [1/2]

```
agroeye::errors::EmptyList::EmptyList (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.30.2.2 [EmptyList\(\)](#) [2/2]

```
agroeye::errors::EmptyList::EmptyList ( ) [inline]
```

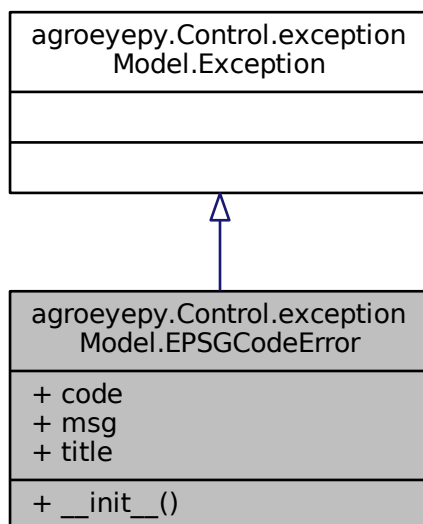
Exception with default information.

The documentation for this class was generated from the following file:

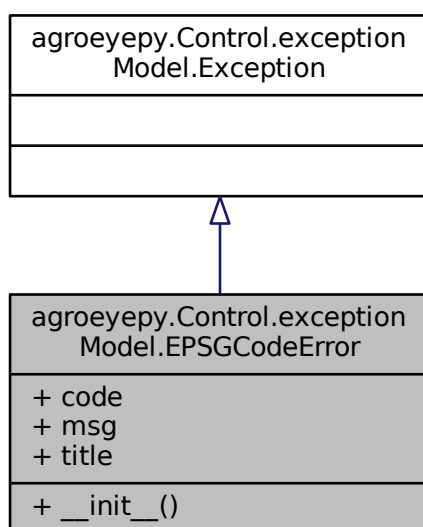
- src/src/agroeye/errors/[GeneralErrors.h](#)

8.31 agroeyepy.Control.exceptionModel.EPSGCodeError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.EPSGCodeError:



Collaboration diagram for agroeyepy.Control.exceptionModel.EPSGCodeError:



Public Member Functions

- `def \_\_init\_\_(self, code)`

Public Attributes

- [code](#)
- [msg](#)
- [title](#)

8.31.1 Constructor & Destructor Documentation

8.31.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.EPSGCodeError.__init__ (
    self,
    code )
```

8.31.2 Member Data Documentation

8.31.2.1 `code`

```
agroeyepy.Control.exceptionModel.EPSGCodeError.code
```

8.31.2.2 `msg`

```
agroeyepy.Control.exceptionModel.EPSGCodeError.msg
```

8.31.2.3 `title`

```
agroeyepy.Control.exceptionModel.EPSGCodeError.title
```

The documentation for this class was generated from the following file:

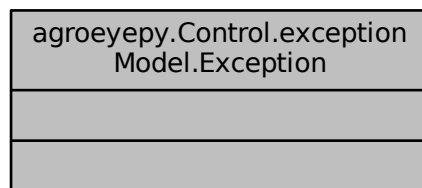
- `agroeyepy/Control/exceptionModel.py`

8.32 agroeyepy.Control.exceptionModel.Exception Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.Exception:



Collaboration diagram for agroeyepy.Control.exceptionModel.Exception:

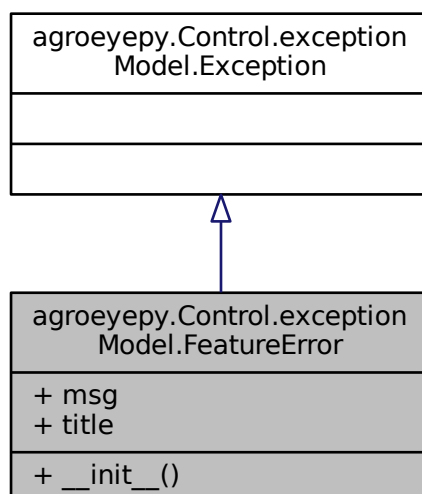


The documentation for this class was generated from the following file:

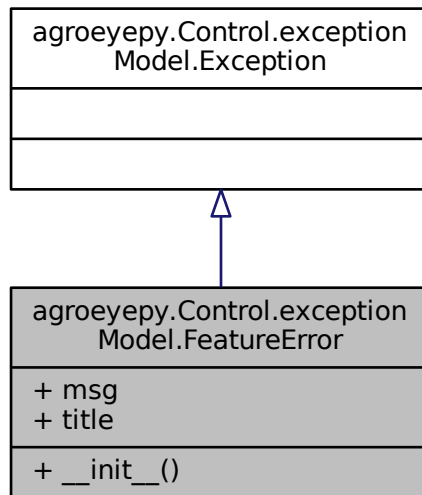
- [agroeyepy/Control/exceptionModel.py](#)

8.33 agroeyepy.Control.exceptionModel.FeatureError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.FeatureError:



Collaboration diagram for `agroeyepy.Control.exceptionModel.FeatureError`:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- `msg`
- `title`

8.33.1 Constructor & Destructor Documentation

8.33.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.FeatureError.__init__(
    self )
```

8.33.2 Member Data Documentation

8.33.2.1 `msg`

```
agroeyepy.Control.exceptionModel.FeatureError.msg
```

8.33.2.2 title

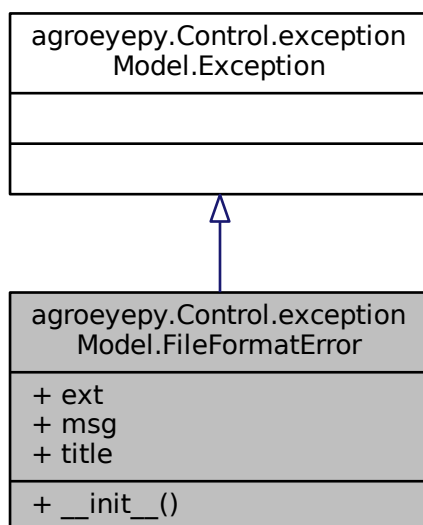
```
agroeyepy.Control.exceptionModel.FeatureError.title
```

The documentation for this class was generated from the following file:

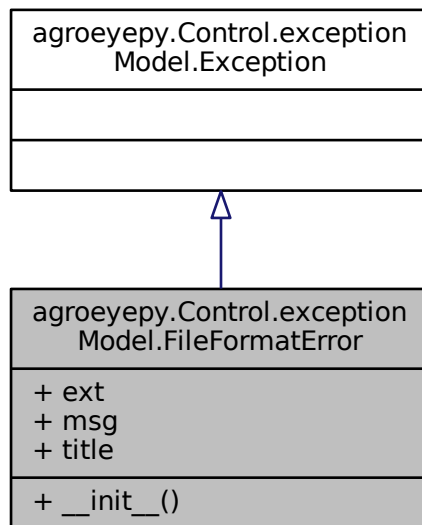
- [agroeyepy/Control/exceptionModel.py](#)

8.34 agroeyepy.Control.exceptionModel.FileFormatError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.FileFormatError:



Collaboration diagram for `agroeyepy.Control.exceptionModel.FileFormatError`:



Public Member Functions

- `def __init__(self, ext)`

Public Attributes

- `ext`
- `msg`
- `title`

8.34.1 Constructor & Destructor Documentation

8.34.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.FileFormatError.__init__ (
    self,
    ext )
```

8.34.2 Member Data Documentation

8.34.2.1 `ext`

```
agroeyepy.Control.exceptionModel.FileFormatError.ext
```

8.34.2.2 msg

```
agroeyepy.Control.exceptionModel.FileFormatError.msg
```

8.34.2.3 title

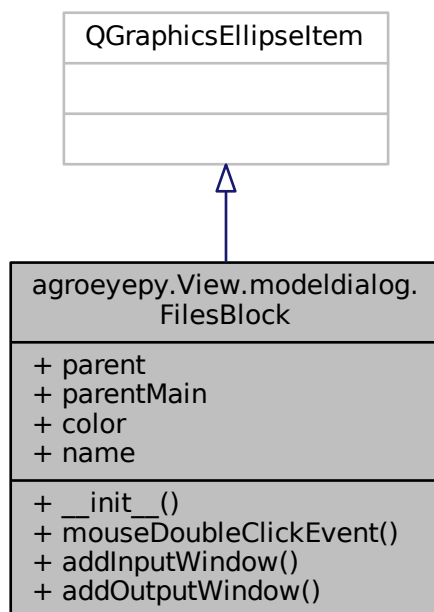
```
agroeyepy.Control.exceptionModel.FileFormatError.title
```

The documentation for this class was generated from the following file:

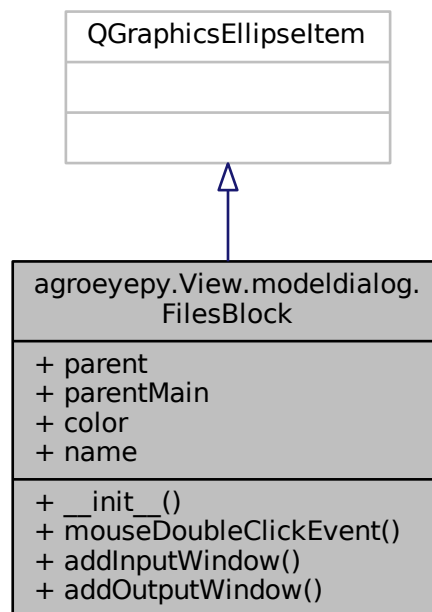
- [agroeyepy/Control/exceptionModel.py](#)

8.35 agroeyepy.View.modeldialog.FilesBlock Class Reference

Inheritance diagram for agroeyepy.View.modeldialog.FilesBlock:



Collaboration diagram for `agroeyepy.View.modeldialog.FilesBlock`:



Public Member Functions

- `def __init__ (self, parent, color, name)`
- `def mouseDoubleClickEvent (self, mouseEvent)`
- `def addInputWindow (self)`
- `def addOutputWindow (self)`

Public Attributes

- `parent`
- `parentMain`
- `color`
- `name`

8.35.1 Constructor & Destructor Documentation

8.35.1.1 `__init__()`

```

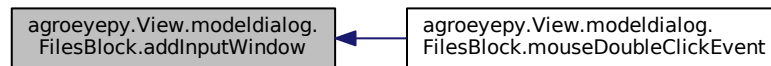
def agroeyepy.View.modeldialog.FilesBlock.__init__ (
    self,
    parent,
    color,
    name )
  
```

8.35.2 Member Function Documentation

8.35.2.1 addInputWindow()

```
def agroeyepy.View.modeldialog.FilesBlock.addInputWindow (  
    self )
```

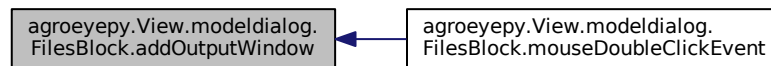
Here is the caller graph for this function:



8.35.2.2 addOutputWindow()

```
def agroeyepy.View.modeldialog.FilesBlock.addOutputWindow (  
    self )
```

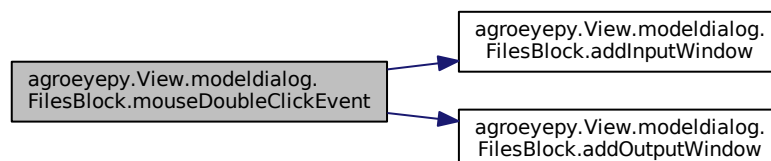
Here is the caller graph for this function:



8.35.2.3 mouseDoubleClickEvent()

```
def agroeyepy.View.modeldialog.FilesBlock.mouseDoubleClickEvent (  
    self,  
    mouseEvent )
```

Here is the call graph for this function:



8.35.3 Member Data Documentation

8.35.3.1 color

`agroeyepy.View.modeldialog.FilesBlock.color`

8.35.3.2 name

`agroeyepy.View.modeldialog.FilesBlock.name`

8.35.3.3 parent

`agroeyepy.View.modeldialog.FilesBlock.parent`

8.35.3.4 parentMain

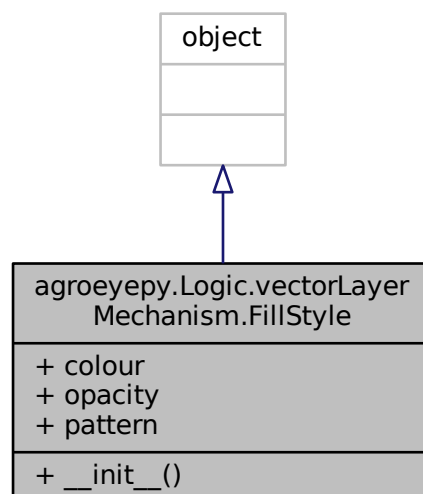
`agroeyepy.View.modeldialog.FilesBlock.parentMain`

The documentation for this class was generated from the following file:

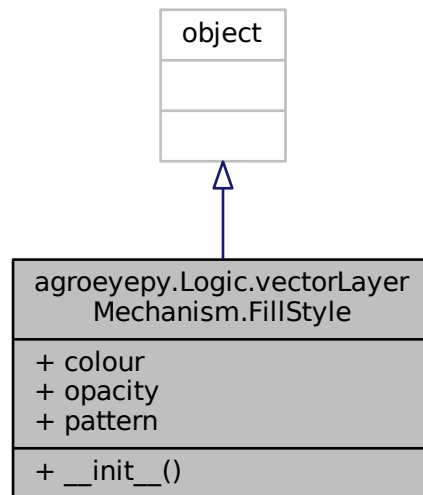
- `agroeyepy/View/modeldialog.py`

8.36 agroeyepy.Logic.vectorLayerMechanism.FillStyle Class Reference

Inheritance diagram for `agroeyepy.Logic.vectorLayerMechanism.FillStyle`:



Collaboration diagram for agroeyepy.Logic.vectorLayerMechanism.FillStyle:



Public Member Functions

- `def __init__ (self, colour, opacity, pattern=None)`

Public Attributes

- `colour`
The colour of filling.
- `opacity`
The opacity of filling.
- `pattern`
The pattern of filling.

8.36.1 Constructor & Destructor Documentation

8.36.1.1 __init__()

```

def agroeyepy.Logic.vectorLayerMechanism.FillStyle.__init__ (
    self,
    colour,
    opacity,
    pattern = None )
  
```

8.36.2 Member Data Documentation

8.36.2.1 colour

```
agroeyepy.Logic.vectorLayerMechanism.FillStyle.colour
```

The colour of filling.

8.36.2.2 opacity

```
agroeyepy.Logic.vectorLayerMechanism.FillStyle.opacity
```

The opacity of filling.

8.36.2.3 pattern

```
agroeyepy.Logic.vectorLayerMechanism.FillStyle.pattern
```

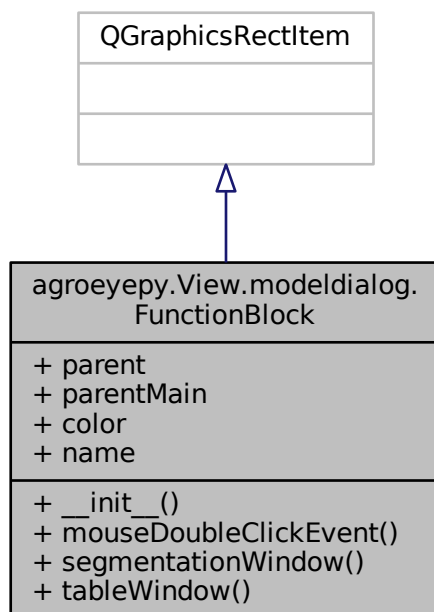
The pattern of filling.

The documentation for this class was generated from the following file:

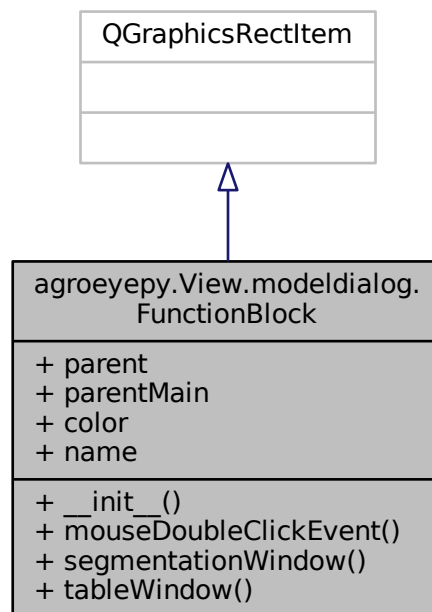
- [agroeyepy/Logic/vectorLayerMechanism.py](#)

8.37 agroeyepy.View.modeldialog.FunctionBlock Class Reference

Inheritance diagram for agroeyepy.View.modeldialog.FunctionBlock:



Collaboration diagram for agroeyepy.View.modeldialog.FunctionBlock:



Public Member Functions

- `def __init__(self, parent, color, name)`
- `def mouseDoubleClickEvent(self, mouseEvent)`
- `def segmentationWindow(self)`
- `def tableWindow(self)`

Public Attributes

- `parent`
- `parentMain`
- `color`
- `name`

8.37.1 Constructor & Destructor Documentation

8.37.1.1 `__init__()`

```

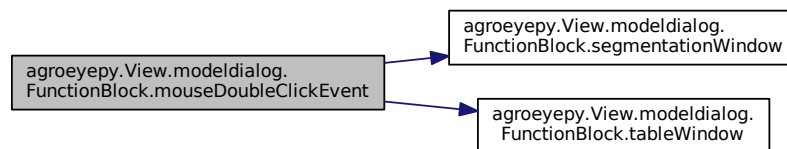
def agroeyepy.View.modeldialog.FunctionBlock.__init__(
    self,
    parent,
    color,
    name )
  
```

8.37.2 Member Function Documentation

8.37.2.1 mouseDoubleClickEvent()

```
def agroeyepy.View.modeldialog.FunctionBlock.mouseDoubleClickEvent (
    self,
    mouseEvent )
```

Here is the call graph for this function:



8.37.2.2 segmentationWindow()

```
def agroeyepy.View.modeldialog.FunctionBlock.segmentationWindow (
    self )
```

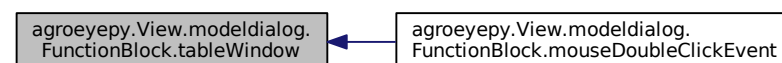
Here is the caller graph for this function:



8.37.2.3 tableWindow()

```
def agroeyepy.View.modeldialog.FunctionBlock.tableWindow (
    self )
```

Here is the caller graph for this function:



8.37.3 Member Data Documentation

8.37.3.1 color

`agroeyepy.View.modeldialog.FunctionBlock.color`

8.37.3.2 name

`agroeyepy.View.modeldialog.FunctionBlock.name`

8.37.3.3 parent

`agroeyepy.View.modeldialog.FunctionBlock.parent`

8.37.3.4 parentMain

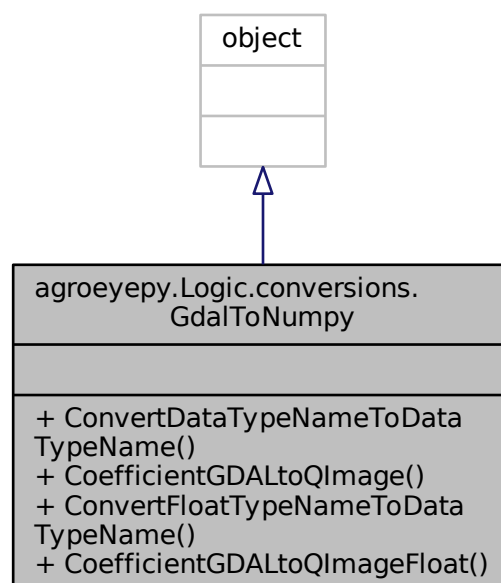
`agroeyepy.View.modeldialog.FunctionBlock.parentMain`

The documentation for this class was generated from the following file:

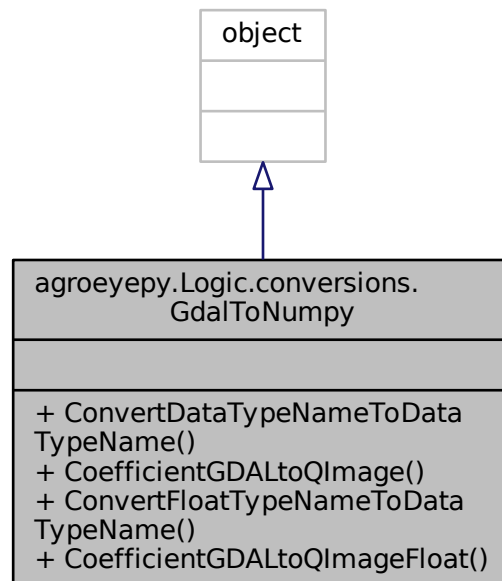
- `agroeyepy/View/modeldialog.py`

8.38 agroeyepy.Logic.conversions.GdalToNumpy Class Reference

Inheritance diagram for `agroeyepy.Logic.conversions.GdalToNumpy`:



Collaboration diagram for `agroeyepy.Logic.conversions.GdalToNumpy`:



Static Public Member Functions

- def [ConvertDataTypeNameToDataTypeName](#) (GdalFormatName)
Converts GDAL array type into Numpy array type.
- def [CoefficientGDALtoQImage](#) (stringType)
CURRENTLY NOT USED !! REMAINS JUST IN CASE !!
- def [ConvertFloatTypeNameToDataTypeName](#) (gdalDataset)
- def [CoefficientGDALtoQImageFloat](#) (bands)

8.38.1 Member Function Documentation

8.38.1.1 CoefficientGDALtoQImage()

```
def agroeyepy.Logic.conversions.GdalToNumpy.CoefficientGDALtoQImage (
    stringType ) [static]
```

CURRENTLY NOT USED !! REMAINS JUST IN CASE !!

!! NOW USES LUT (Look Up Tables) !! Gets coefficient converting image into 24bit

Parameters

<i>stringType</i>	Name of data type in NumPy convention

Returns

Coefficient required to compute from broader data type into narrower.

8.38.1.2 CoefficientGDALtoQImageFloat()

```
def agroeyepy.Logic.conversions.GdalToNumpy.CoefficientGDALtoQImageFloat (
    bands ) [static]
```

8.38.1.3 ConvertDataTypeNameToDataTypeName()

```
def agroeyepy.Logic.conversions.GdalToNumpy.ConvertDataTypeNameToDataTypeName (
    GdalFormatName ) [static]
```

Converts GDAL array type into Numpy array type.

Parameters

<i>GdalFormatName</i>	String name of data type in GDAL convention

Returns

String name of the same data type in NumPy convention.

8.38.1.4 ConvertFloatTypeNameToDataTypeName()

```
def agroeyepy.Logic.conversions.GdalToNumpy.ConvertFloatTypeNameToDataTypeName (
    gdalDataset ) [static]
```

The documentation for this class was generated from the following file:

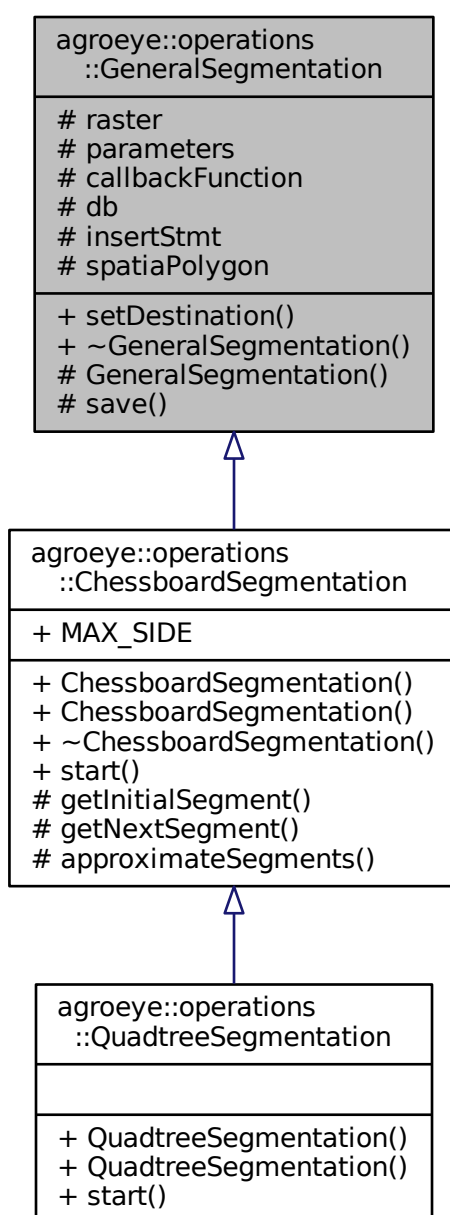
- agroeyepy/Logic/[conversions.py](#)

8.39 agroeye::operations::GeneralSegmentation Class Reference

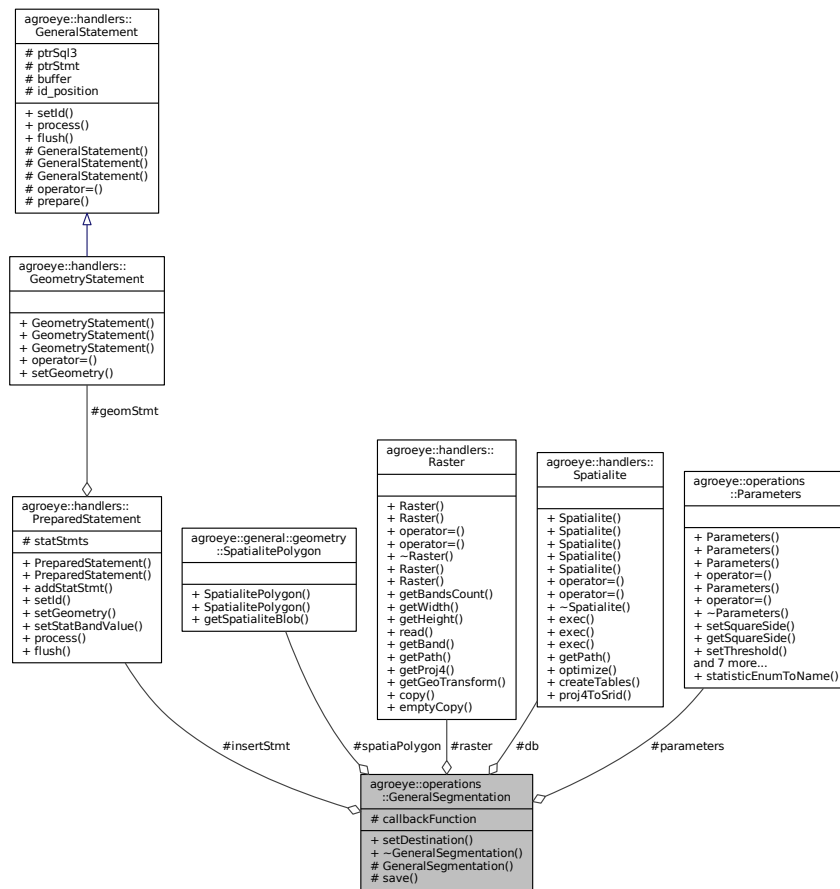
Object encapsulating general segmentation.

```
#include <SegmentationGeneral.h>
```

Inheritance diagram for agroeye::operations::GeneralSegmentation:



Collaboration diagram for agroeye::operations::GeneralSegmentation:



Public Member Functions

- void [setDestination](#) ([Spatialite db](#))
Sets the output location of segmentation.
- virtual [~GeneralSegmentation](#) ()

Protected Member Functions

- [GeneralSegmentation](#) ([Raster aRaster](#), [Parameters aParameters](#), [CallbackFunction aCallbackFunc](#))
- void [save](#) ([RasterDataGroup &rasterData](#), [size_t idNo](#))
Saves one iteration of segmentation into database.

Protected Attributes

- [Raster raster](#)
- [Parameters parameters](#)
- [CallbackFunction callbackFunction](#)
- [Spatialite db](#)
- [PreparedStatement insertStmt](#)
- [SpatialitePolygon spatiaPolygon](#)

8.39.1 Detailed Description

Object encapsulating general segmentation.

8.39.2 Constructor & Destructor Documentation

8.39.2.1 `~GeneralSegmentation()`

```
virtual agroeye::operations::GeneralSegmentation::~~GeneralSegmentation ( ) [inline], [virtual]
```

8.39.2.2 `GeneralSegmentation()`

```
agroeye::operations::GeneralSegmentation::GeneralSegmentation (
    Raster aRaster,
    Parameters aParameters,
    CallbackFunction aCallbackFunc ) [inline], [protected]
```

8.39.3 Member Function Documentation

8.39.3.1 `save()`

```
void agroeye::operations::GeneralSegmentation::save (
    RasterDataGroup & rasterData,
    size_t idNo ) [protected]
```

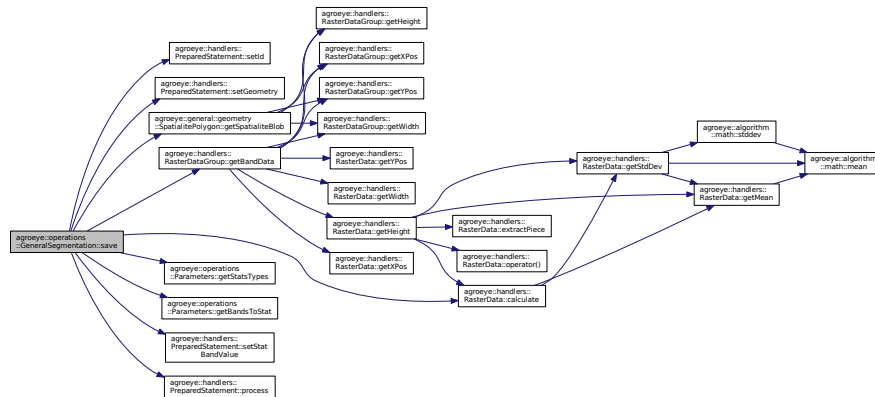
Saves one iteration of segmentation into database.

Inside this method values of statistic are computed !!

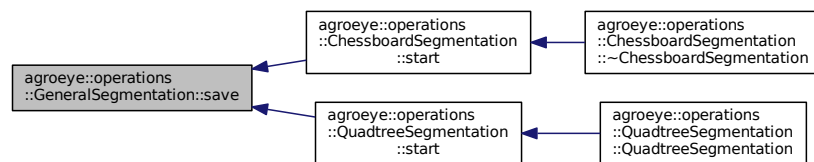
Parameters

<i>rasterData</i>	
<i>idNo</i>	Number of saving segment

Here is the call graph for this function:



Here is the caller graph for this function:



8.39.3.2 setDestination()

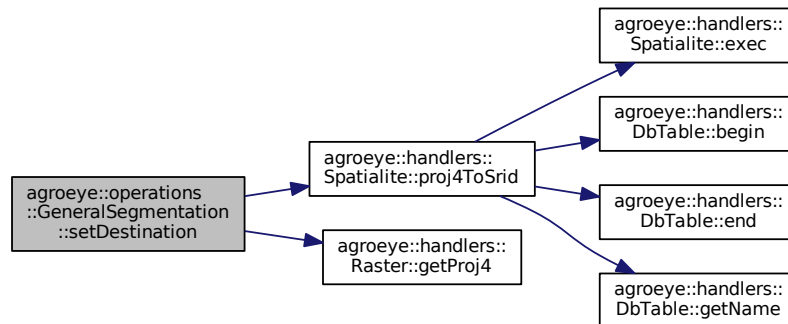
```
void agroeye::operations::GeneralSegmentation::setDestination (
    Spatialite db )
```

Sets the output location of segementation.

Parameters

<i>db</i>	Spatialite database with segmentation results

Here is the call graph for this function:



8.39.4 Member Data Documentation

8.39.4.1 callbackFunction

`CallbackFunction` `agroeye::operations::GeneralSegmentation::callbackFunction` [protected]

8.39.4.2 db

`Spatialite` `agroeye::operations::GeneralSegmentation::db` [protected]

Callback function reporting progress Destination database with results

8.39.4.3 insertStmt

`PreparedStatement` `agroeye::operations::GeneralSegmentation::insertStmt` [protected]

Statement for batch insert into database

8.39.4.4 parameters

`Parameters` `agroeye::operations::GeneralSegmentation::parameters` [protected]

Segmentation parameters

8.39.4.5 raster

`Raster` `agroeye::operations::GeneralSegmentation::raster` [protected]

Segmented raster

8.39.4.6 spatiaPolygon

`SpatialitePolygon` `agroeye::operations::GeneralSegmentation::spatiaPolygon` [protected]

Conversions from pixel coordinates into spatial polygon

The documentation for this class was generated from the following files:

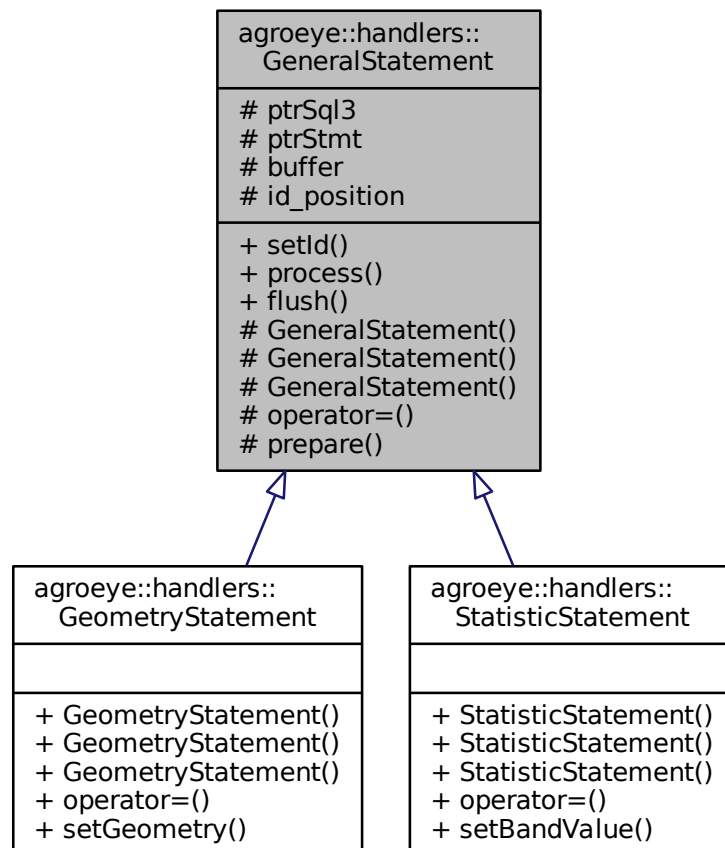
- `src/src/agroeye/operations/segmentation/SegmentationGeneral.h`
- `src/src/agroeye/operations/segmentation/SegmentationGeneral.cpp`

8.40 agroeye::handlers::GeneralStatement Class Reference

Class encapsulating the general insert statement into database.

```
#include <DatabaseStatements.h>
```

Inheritance diagram for `agroeye::handlers::GeneralStatement`:



Collaboration diagram for agroeye::handlers::GeneralStatement:

agroeye::handlers:: GeneralStatement
ptrSql3 # ptrStmt # buffer # id_position
+ setId() + process() + flush() # GeneralStatement() # GeneralStatement() # GeneralStatement() # operator=() # prepare()

Public Member Functions

- void [setId](#) (const uint32_t &id)
Sets id value of inserting row.
- void [process](#) ()
- void [flush](#) ()

Protected Member Functions

- [GeneralStatement](#) ()
- [GeneralStatement](#) (std::shared_ptr< sqlite3 > aPtrSql3)
- [GeneralStatement](#) ([GeneralStatement](#) &&)=default
- [GeneralStatement](#) & [operator=](#) ([GeneralStatement](#) &&)=default
- void [prepare](#) ()

Protected Attributes

- std::shared_ptr< sqlite3 > [ptrSql3](#) {nullptr}
- std::unique_ptr< sqlite3_stmt, int (*)(sqlite3_stmt *)> [ptrStmt](#) {nullptr, [](sqlite3_stmt* pStmt) {return sqlite3_finalize(pStmt);}}
- std::string [buffer](#)
- size_t [id_position](#) {0}

8.40.1 Detailed Description

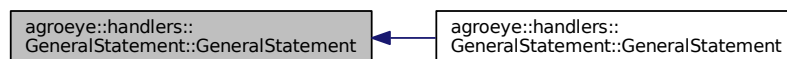
Class encapsulating the general insert statement into database.

8.40.2 Constructor & Destructor Documentation

8.40.2.1 GeneralStatement() [1/3]

```
agroeye::handlers::GeneralStatement::GeneralStatement ( ) [inline], [protected]
```

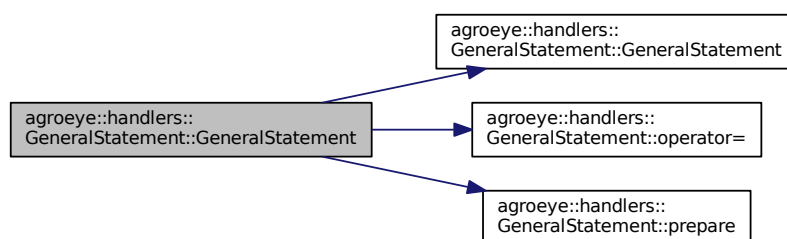
Here is the caller graph for this function:



8.40.2.2 GeneralStatement() [2/3]

```
agroeye::handlers::GeneralStatement::GeneralStatement (
    std::shared_ptr< sqlite3 > aPtrSql3 ) [inline], [protected]
```

Here is the call graph for this function:



8.40.2.3 GeneralStatement() [3/3]

```
agroeye::handlers::GeneralStatement::GeneralStatement (
    GeneralStatement && ) [protected], [default]
```

8.40.3 Member Function Documentation

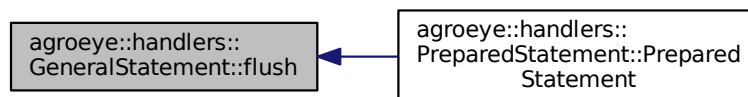
8.40.3.1 flush()

```
void agroeye::handlers::GeneralStatement::flush ( )
```

Performs flush by destroying insert statement and creates a new one Here is the call graph for this function:



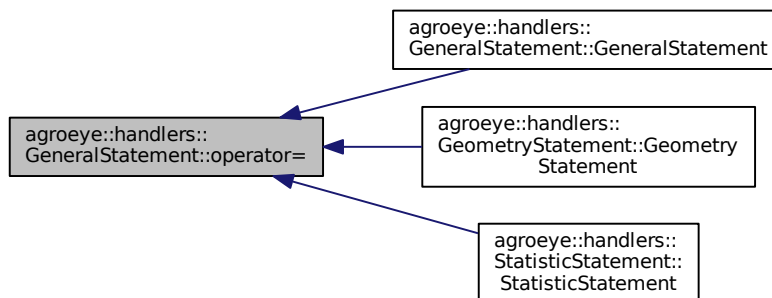
Here is the caller graph for this function:



8.40.3.2 operator=()

```
GeneralStatement& agroeye::handlers::GeneralStatement::operator= (
    GeneralStatement && ) [protected], [default]
```

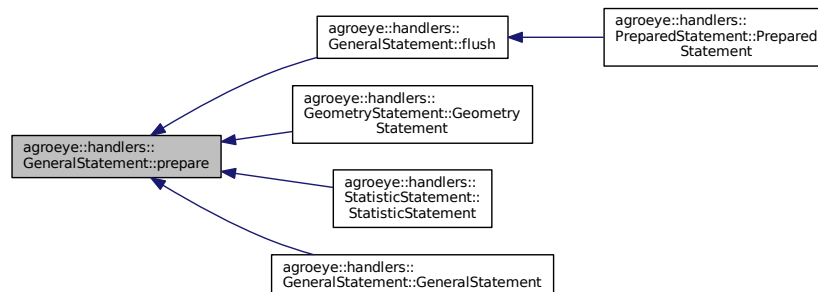
Here is the caller graph for this function:



8.40.3.3 prepare()

```
void agroeye::handlers::GeneralStatement::prepare ( ) [protected]
```

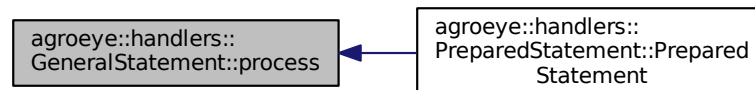
Prepares SQL statemnt to bind data with binary statement Here is the caller graph for this function:



8.40.3.4 process()

```
void agroeye::handlers::GeneralStatement::process ( )
```

Proceeds with already bind values Here is the caller graph for this function:



8.40.3.5 setId()

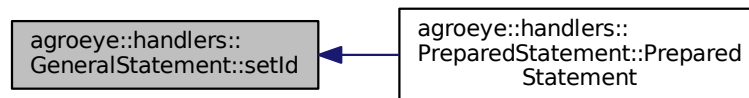
```
void agroeye::handlers::GeneralStatement::setId (
    const uint32_t & id )
```

Sets id value of inserting row.

Parameters

<i>id</i>	The id value

Here is the caller graph for this function:



8.40.4 Member Data Documentation

8.40.4.1 buffer

```
std::string agroeye::handlers::GeneralStatement::buffer [protected]
```

The buffer containing SQL string used for binding for fast insertions

8.40.4.2 id_position

```
size_t agroeye::handlers::GeneralStatement::id_position {0} [protected]
```

Position of primary key in binding SQL statement

8.40.4.3 ptrSql3

```
std::shared_ptr<sqlite3> agroeye::handlers::GeneralStatement::ptrSql3 {nullptr} [protected]
```

Pointer to the location of SQLite3 database

8.40.4.4 ptrStmt

```
std::unique_ptr<sqlite3_stmt, int (*)(sqlite3_stmt*)> agroeye::handlers::GeneralStatement↵
::ptrStmt {nullptr, [] (sqlite3_stmt* pStmt) {return sqlite3_finalize(pStmt);}} [protected]
```

Binded statement, only one copy allowed

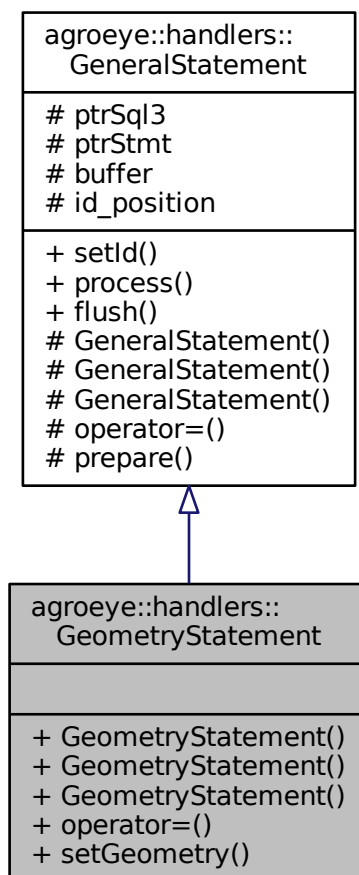
The documentation for this class was generated from the following files:

- [src/src/agroeye/handlers/Database/DatabaseStatements.h](#)
- [src/src/agroeye/handlers/Database/DatabaseStatements.cpp](#)

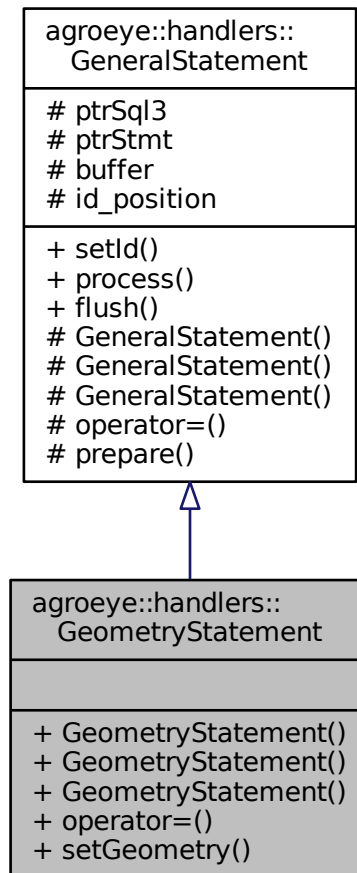
8.41 agroeye::handlers::GeometryStatement Class Reference

```
#include <DatabaseStatements.h>
```

Inheritance diagram for agroeye::handlers::GeometryStatement:



Collaboration diagram for agroeye::handlers::GeometryStatement:



Public Member Functions

- [GeometryStatement](#) ()
- [GeometryStatement](#) (std::shared_ptr< sqlite3 > ptrSql3, const [DbTable](#) &table)
Creates geometry statement.
- [GeometryStatement](#) ([GeometryStatement](#) &&)=default
- [GeometryStatement](#) & operator= ([GeometryStatement](#) &&)=default
- void [setGeometry](#) ([SpatialiteBlobWkb](#) &&blob)
Sets the geometry value in the statement Until the [process](#) or [flush](#) function is not called the geometry is not inserted into database.

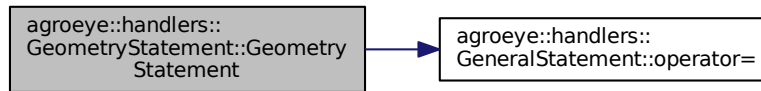
Additional Inherited Members

8.41.1 Constructor & Destructor Documentation

8.41.1.1 GeometryStatement() [1/3]

```
agroeye::handlers::GeometryStatement::GeometryStatement ( ) [inline]
```

Here is the call graph for this function:



8.41.1.2 GeometryStatement() [2/3]

```
agroeye::handlers::GeometryStatement::GeometryStatement (
    std::shared_ptr< sqlite3 > ptrSql3,
    const DbTable & table )
```

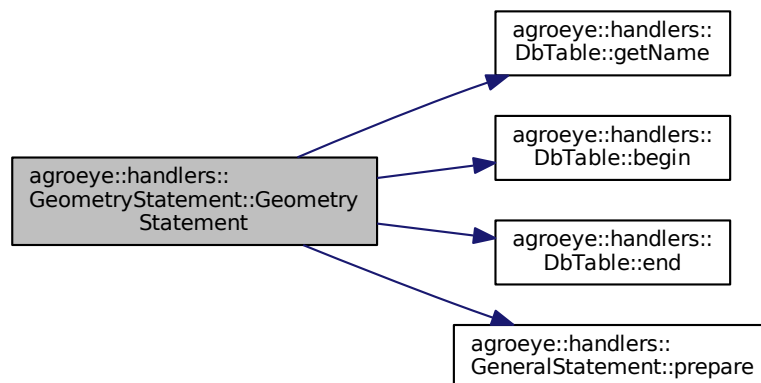
Creates geometry statement.

Constructor creates geoemtry statement. The provided table must contain exactly one geometry column

Parameters

<i>ptrSql3</i>	Smart pointer to the sqlite3 database
<i>table</i>	Table containing geometry column and id key

Here is the call graph for this function:



8.41.1.3 GeometryStatement() [3/3]

```
agroeye::handlers::GeometryStatement::GeometryStatement (
    GeometryStatement && ) [default]
```

8.41.2 Member Function Documentation

8.41.2.1 operator=()

```
GeometryStatement& agroeye::handlers::GeometryStatement::operator= (
    GeometryStatement && ) [default]
```

8.41.2.2 setGeometry()

```
void agroeye::handlers::GeometryStatement::setGeometry (
    SpatialiteBlobWkb && blob )
```

Sets the geometry value in the statement Until the [process](#) or [flush](#) function is not called the geometry is not inserted into database.

Parameters

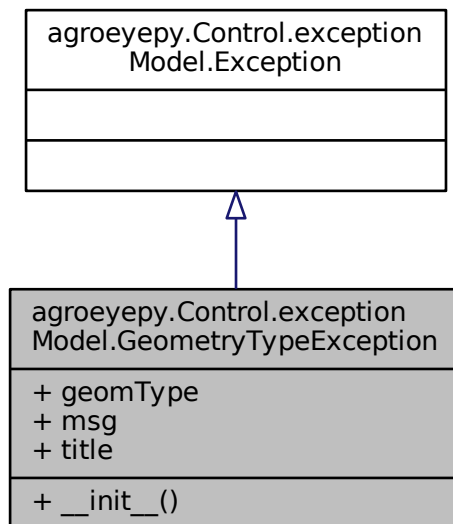
<i>blob</i>	The binary representation of geometry

The documentation for this class was generated from the following files:

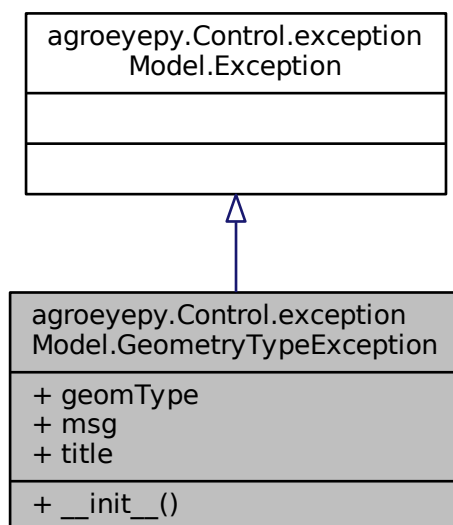
- [src/src/agroeye/handlers/Database/DatabaseStatements.h](#)
- [src/src/agroeye/handlers/Database/DatabaseStatements.cpp](#)

8.42 agroeyepy.Control.exceptionModel.GeometryTypeException Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.GeometryTypeException:



Collaboration diagram for agroeyepy.Control.exceptionModel.GeometryTypeException:



Public Member Functions

- `def __init__ (self, geomType)`

Public Attributes

- [geomType](#)
- [msg](#)
- [title](#)

8.42.1 Constructor & Destructor Documentation

8.42.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.GeometryTypeException.__init__ (  
    self,  
    geomType )
```

8.42.2 Member Data Documentation

8.42.2.1 `geomType`

```
agroeyepy.Control.exceptionModel.GeometryTypeException.geomType
```

8.42.2.2 `msg`

```
agroeyepy.Control.exceptionModel.GeometryTypeException.msg
```

8.42.2.3 `title`

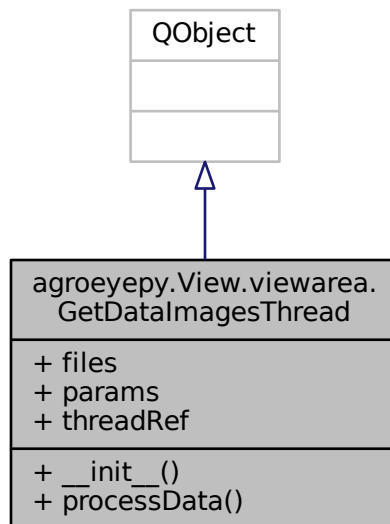
```
agroeyepy.Control.exceptionModel.GeometryTypeException.title
```

The documentation for this class was generated from the following file:

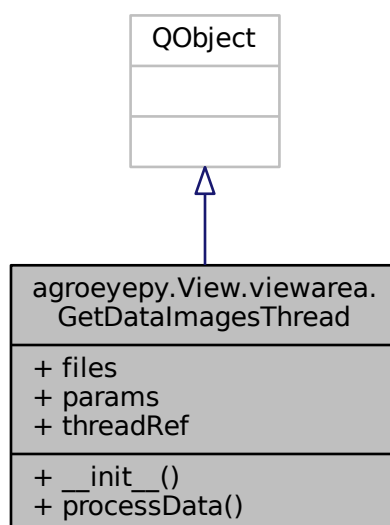
- `agroeyepy/Control/exceptionModel.py`

8.43 agroeyepy.View.viewarea.GetDataImagesThread Class Reference

Inheritance diagram for agroeyepy.View.viewarea.GetDataImagesThread:



Collaboration diagram for agroeyepy.View.viewarea.GetDataImagesThread:



Public Member Functions

- `def __init__ (self, files, params, parent=None)`
- `def processData (self)`

Public Attributes

- [files](#)
- [params](#)
- [threadRef](#)

8.43.1 Constructor & Destructor Documentation

8.43.1.1 `__init__()`

```
def agroeyepy.View.viewarea.GetDataImagesThread.__init__ (  
    self,  
    files,  
    params,  
    parent = None )
```

8.43.2 Member Function Documentation

8.43.2.1 `processData()`

```
def agroeyepy.View.viewarea.GetDataImagesThread.processData (  
    self )
```

8.43.3 Member Data Documentation

8.43.3.1 `files`

```
agroeyepy.View.viewarea.GetDataImagesThread.files
```

8.43.3.2 `params`

```
agroeyepy.View.viewarea.GetDataImagesThread.params
```

8.43.3.3 `threadRef`

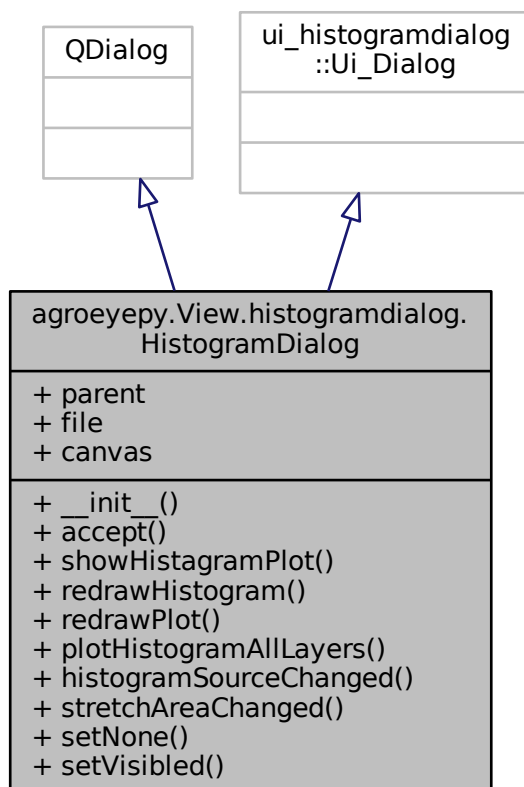
```
agroeyepy.View.viewarea.GetDataImagesThread.threadRef
```

The documentation for this class was generated from the following file:

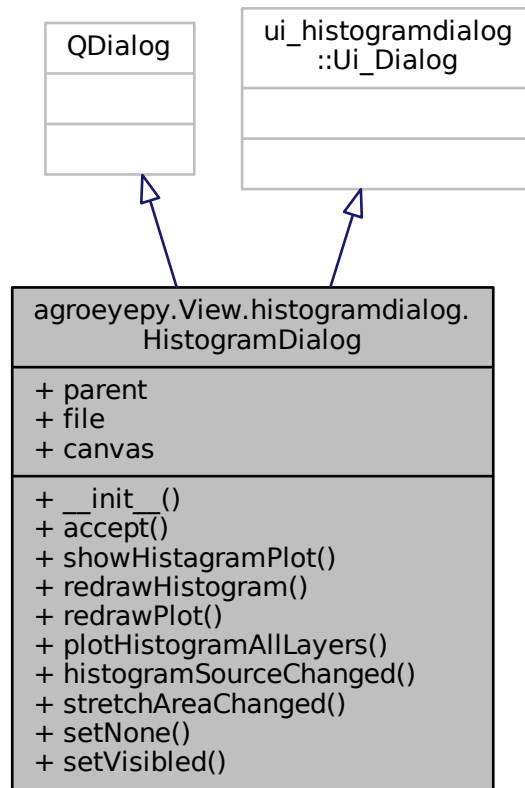
- `agroeyepy/View/viewarea.py`

8.44 agroeyepy.View.histogramdialog.HistogramDialog Class Reference

Inheritance diagram for agroeyepy.View.histogramdialog.HistogramDialog:



Collaboration diagram for `agroeyepy.View.histogramdialog.HistogramDialog`:



Public Member Functions

- `def __init__ (self, parent, rowSelected)`
- `def accept (self)`
- `def showHistogramPlot (self)`
- `def redrawHistogram (self)`
- `def redrawPlot (self, tabWidget, numberOfTab=0)`
- `def plotHistogramAllLayers (self, tabWidget, numberOfTab)`
- `def histogramSourceChanged (self, statisticsItem)`
- `def stretchAreaChanged (self, stretchItem)`
- `def setNone (self)`
- `def setVisible (self, object)`

Public Attributes

- [parent](#)
- [file](#)
- [canvas](#)

8.44.1 Constructor & Destructor Documentation

8.44.1.1 `__init__()`

```
def agroeyepy.View.histogramdialog.HistogramDialog.__init__ (
    self,
    parent,
    rowSelected )
```

8.44.2 Member Function Documentation

8.44.2.1 `accept()`

```
def agroeyepy.View.histogramdialog.HistogramDialog.accept (
    self )
```

Here is the call graph for this function:



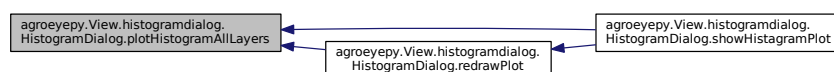
8.44.2.2 `histogramSourceChanged()`

```
def agroeyepy.View.histogramdialog.HistogramDialog.histogramSourceChanged (
    self,
    statisticsItem )
```

8.44.2.3 `plotHistogramAllLayers()`

```
def agroeyepy.View.histogramdialog.HistogramDialog.plotHistogramAllLayers (
    self,
    tabWidget,
    numberOfTab )
```

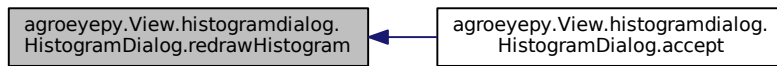
Here is the caller graph for this function:



8.44.2.4 redrawHistogram()

```
def agroeyepy.View.histogramdialog.HistogramDialog.redrawHistogram (  
    self )
```

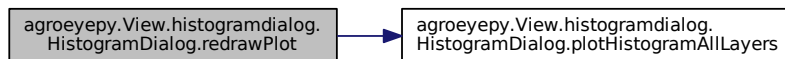
Here is the caller graph for this function:



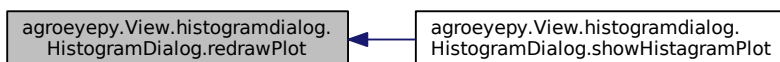
8.44.2.5 redrawPlot()

```
def agroeyepy.View.histogramdialog.HistogramDialog.redrawPlot (  
    self,  
    tabWidget,  
    numberOfTab = 0 )
```

Here is the call graph for this function:



Here is the caller graph for this function:



8.44.2.6 setNone()

```
def agroeyepy.View.histogramdialog.HistogramDialog.setNone (  
    self )
```

8.44.2.7 setVisible()

```
def agroeyepy.View.histogramdialog.HistogramDialog.setVisible (
    self,
    object )
```

8.44.2.8 showHistogramPlot()

```
def agroeyepy.View.histogramdialog.HistogramDialog.showHistogramPlot (
    self )
```

Here is the call graph for this function:



8.44.2.9 stretchAreaChanged()

```
def agroeyepy.View.histogramdialog.HistogramDialog.stretchAreaChanged (
    self,
    stretchItem )
```

8.44.3 Member Data Documentation

8.44.3.1 canvas

```
agroeyepy.View.histogramdialog.HistogramDialog.canvas
```

8.44.3.2 file

```
agroeyepy.View.histogramdialog.HistogramDialog.file
```

8.44.3.3 parent

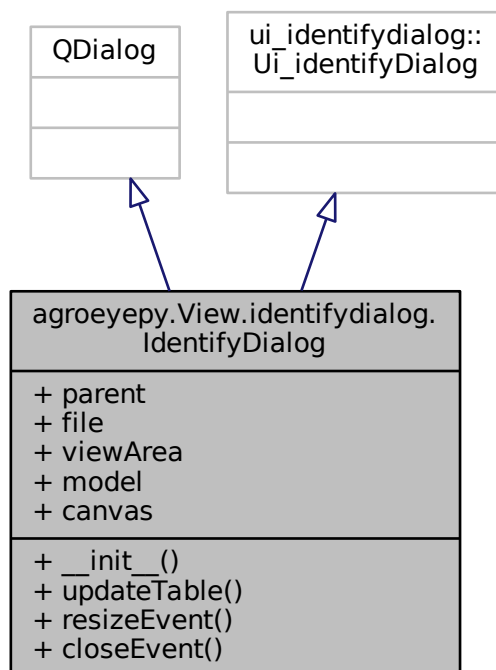
```
agroeyepy.View.histogramdialog.HistogramDialog.parent
```

The documentation for this class was generated from the following file:

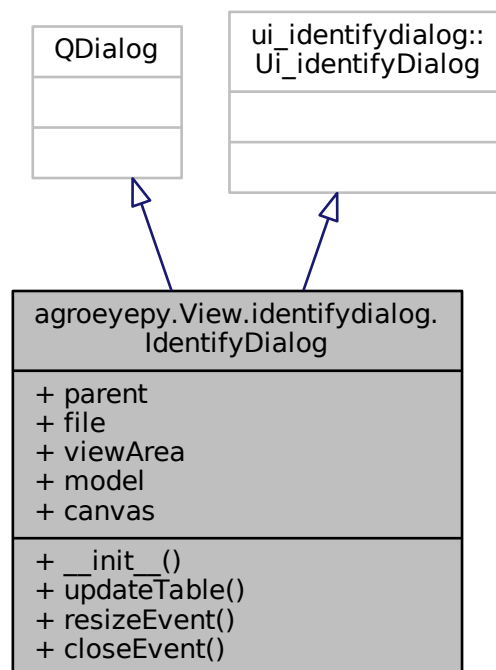
- `agroeyepy/View/histogramdialog.py`

8.45 agroeyepy.View.identifydialog.IdentifyDialog Class Reference

Inheritance diagram for agroeyepy.View.identifydialog.IdentifyDialog:



Collaboration diagram for agroeyepy.View.identifydialog.IdentifyDialog:



Public Member Functions

- `def __init__(self, parent, sourceFile)`
- `def updateTable(self, event)`
- `def resizeEvent(self, event)`
- `def closeEvent(self, event)`

Public Attributes

- `parent`
- `file`
- `viewArea`
- `model`
- `canvas`

8.45.1 Constructor & Destructor Documentation

8.45.1.1 __init__()

```

def agroeyepy.View.identifydialog.IdentifyDialog.__init__(
    self,
    parent,
    sourceFile )
  
```

8.45.2 Member Function Documentation

8.45.2.1 closeEvent()

```
def agroeyepy.View.identifydialog.IdentifyDialog.closeEvent (
    self,
    event )
```

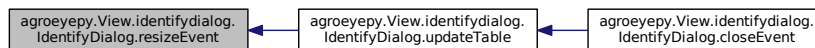
Here is the call graph for this function:



8.45.2.2 resizeEvent()

```
def agroeyepy.View.identifydialog.IdentifyDialog.resizeEvent (
    self,
    event )
```

Here is the caller graph for this function:



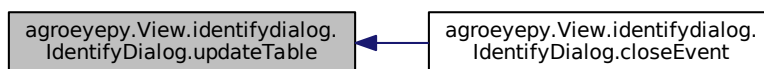
8.45.2.3 updateTable()

```
def agroeyepy.View.identifydialog.IdentifyDialog.updateTable (
    self,
    event )
```

Here is the call graph for this function:



Here is the caller graph for this function:



8.45.3 Member Data Documentation

8.45.3.1 canvas

`agroeyepy.View.identifydialog.IdentifyDialog.canvas`

8.45.3.2 file

`agroeyepy.View.identifydialog.IdentifyDialog.file`

8.45.3.3 model

`agroeyepy.View.identifydialog.IdentifyDialog.model`

8.45.3.4 parent

`agroeyepy.View.identifydialog.IdentifyDialog.parent`

8.45.3.5 viewArea

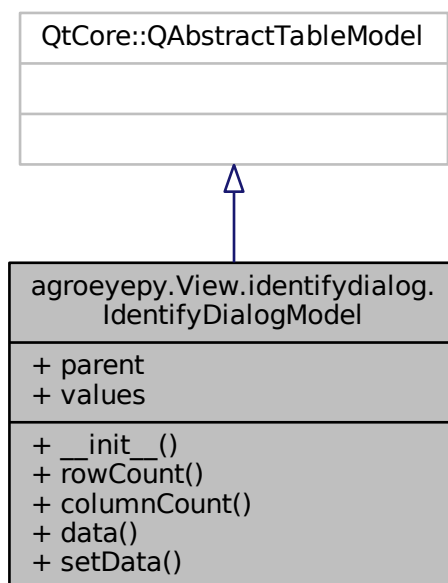
`agroeyepy.View.identifydialog.IdentifyDialog.viewArea`

The documentation for this class was generated from the following file:

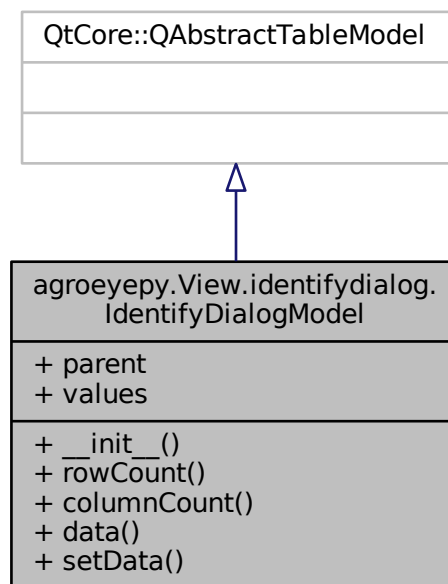
- `agroeyepy/View/identifydialog.py`

8.46 agroeyepy.View.identifydialog.IdentifyDialogModel Class Reference

Inheritance diagram for agroeyepy.View.identifydialog.IdentifyDialogModel:



Collaboration diagram for agroeyepy.View.identifydialog.IdentifyDialogModel:



Public Member Functions

- `def __init__ (self, values=None, parent=None)`
- `def rowCount (self, parent)`
- `def columnCount (self, parent=None)`
- `def data (self, index, role)`
- `def setData (self, index, value, role=QtCore.QModelIndex())`

Public Attributes

- `parent`
- `values`

8.46.1 Constructor & Destructor Documentation

8.46.1.1 __init__()

```

def agroeyepy.View.identifydialog.IdentifyDialogModel.__init__ (
    self,
    values = None,
    parent = None )
  
```

8.46.2 Member Function Documentation

8.46.2.1 columnCount()

```
def agroeyepy.View.identifydialog.IdentifyDialogModel.columnCount (
    self,
    parent = None )
```

8.46.2.2 data()

```
def agroeyepy.View.identifydialog.IdentifyDialogModel.data (
    self,
    index,
    role )
```

8.46.2.3 rowCount()

```
def agroeyepy.View.identifydialog.IdentifyDialogModel.rowCount (
    self,
    parent )
```

8.46.2.4 setData()

```
def agroeyepy.View.identifydialog.IdentifyDialogModel.setData (
    self,
    index,
    value,
    role = QtCore.QModelIndex() )
```

8.46.3 Member Data Documentation

8.46.3.1 parent

```
agroeyepy.View.identifydialog.IdentifyDialogModel.parent
```

8.46.3.2 values

```
agroeyepy.View.identifydialog.IdentifyDialogModel.values
```

The documentation for this class was generated from the following file:

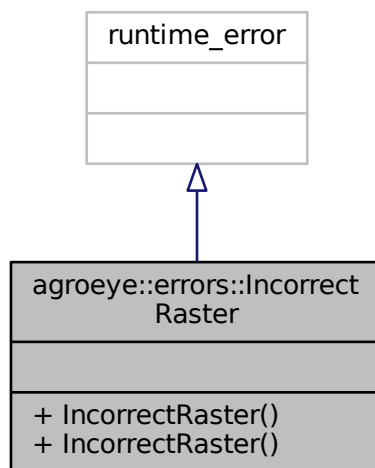
- [agroeyepy/View/identifydialog.py](#)

8.47 agroeye::errors::IncorrectRaster Class Reference

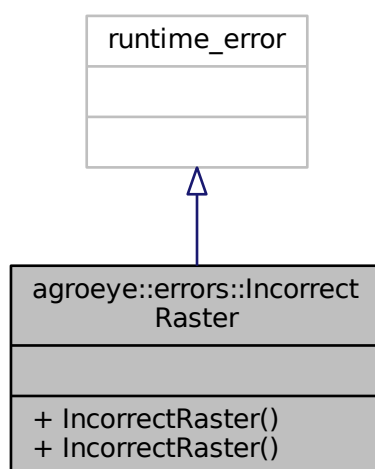
Exceptions associated with [agroeye::handlers::Raster](#).

```
#include <RasterErrors.h>
```

Inheritance diagram for agroeye::errors::IncorrectRaster:



Collaboration diagram for agroeye::errors::IncorrectRaster:



Public Member Functions

- [IncorrectRaster](#) (std::string msg)
Exception with custom information.
- [IncorrectRaster](#) ()
Exception with default information.

8.47.1 Detailed Description

Exceptions associated with [agroeye::handlers::Raster](#).

See also

[agroeye::handlers::RasterBand](#)
[agroeye::handlers::RasterData](#)

8.47.2 Constructor & Destructor Documentation

8.47.2.1 IncorrectRaster() [1/2]

```
agroeye::errors::IncorrectRaster::IncorrectRaster (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.47.2.2 IncorrectRaster() [2/2]

```
agroeye::errors::IncorrectRaster::IncorrectRaster ( ) [inline]
```

Exception with default information.

The documentation for this class was generated from the following file:

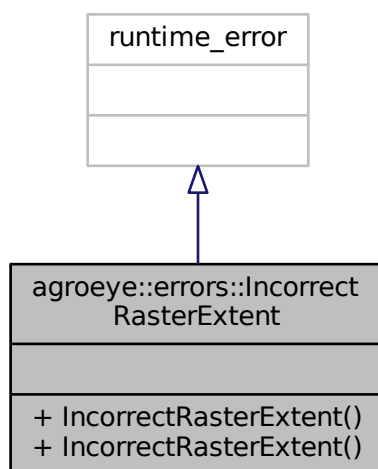
- src/src/agroeye/errors/[RasterErrors.h](#)

8.48 agroeye::errors::IncorrectRasterExtent Class Reference

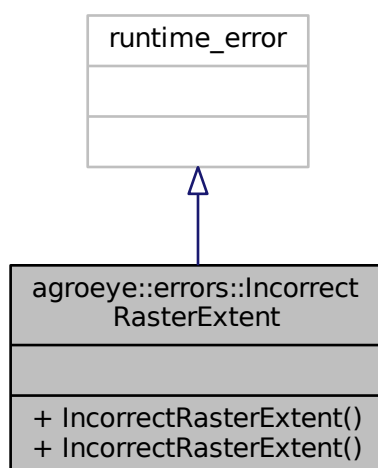
Exceptions associated with [agroeye::handlers::Raster](#).

```
#include <RasterErrors.h>
```


Inheritance diagram for agroeye::errors::IncorrectRasterExtent:



Collaboration diagram for agroeye::errors::IncorrectRasterExtent:



Public Member Functions

- [IncorrectRasterExtent](#) (std::string msg)
Exception with custom information.
- [IncorrectRasterExtent](#) ()
Exception with default information.

8.48.1 Detailed Description

Exceptions associated with [agroeye::handlers::Raster](#).

See also

[agroeye::handlers::RasterBand](#)
[agroeye::handlers::RasterData](#)

8.48.2 Constructor & Destructor Documentation

8.48.2.1 IncorrectRasterExtent() [1/2]

```
agroeye::errors::IncorrectRasterExtent::IncorrectRasterExtent (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.48.2.2 IncorrectRasterExtent() [2/2]

```
agroeye::errors::IncorrectRasterExtent::IncorrectRasterExtent ( ) [inline]
```

Exception with default information.

The documentation for this class was generated from the following file:

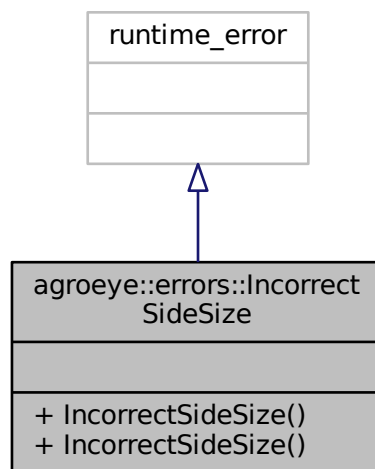
- [src/src/agroeye/errors/RasterErrors.h](#)

8.49 agroeye::errors::IncorrectSideSize Class Reference

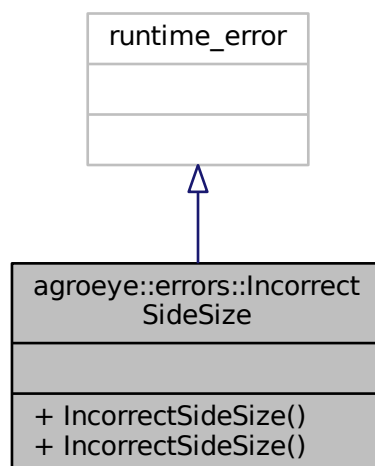
Exception associated with [agroeye::operations::ChessboardSegmentation](#).

```
#include <SegmentationErrors.h>
```

Inheritance diagram for agroeye::errors::IncorrectSideSize:



Collaboration diagram for agroeye::errors::IncorrectSideSize:



Public Member Functions

- [IncorrectSideSize](#) (std::string msg)
Exception with custom information.
- [IncorrectSideSize](#) ()
Exception with default information.

8.49.1 Detailed Description

Exception associated with [agroeye::operations::ChessboardSegmentation](#).

Exception is thrown when given side of square in chessbarde segmentation is either negative or exceeds specifed value

See also

[agroeye::operations::GeneralSegmentation](#)

[agroeye::operations::ChessboardSegmentation::MAX_SIDE](#) Maxium value of square side

8.49.2 Constructor & Destructor Documentation

8.49.2.1 IncorrectSideSize() [1/2]

```
agroeye::errors::IncorrectSideSize::IncorrectSideSize (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.49.2.2 IncorrectSideSize() [2/2]

```
agroeye::errors::IncorrectSideSize::IncorrectSideSize ( ) [inline]
```

Exception with default information.

The documentation for this class was generated from the following file:

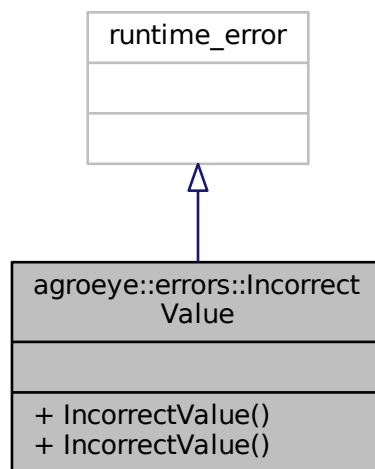
- [src/src/agroeye/errors/SegmentationErrors.h](#)

8.50 agroeye::errors::IncorrectValue Class Reference

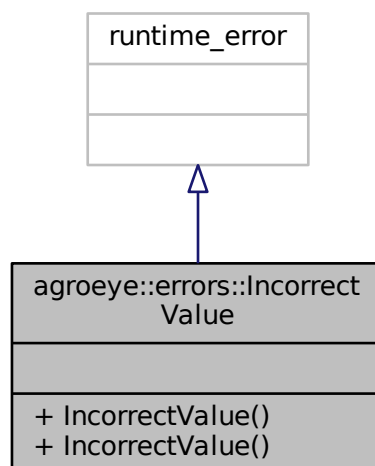
Generel exceptions describind the incorrectness of value.

```
#include <GeneralErrors.h>
```

Inheritance diagram for agroeye::errors::IncorrectValue:



Collaboration diagram for agroeye::errors::IncorrectValue:



Public Member Functions

- [IncorrectValue](#) (std::string msg)
Exception with custom information.
- [IncorrectValue](#) ()
Exception with default information.

8.50.1 Detailed Description

General exceptions describing the incorrectness of value.

General exceptions not associated with any particular class

8.50.2 Constructor & Destructor Documentation

8.50.2.1 IncorrectValue() [1/2]

```
agroeye::errors::IncorrectValue::IncorrectValue (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.50.2.2 IncorrectValue() [2/2]

```
agroeye::errors::IncorrectValue::IncorrectValue ( ) [inline]
```

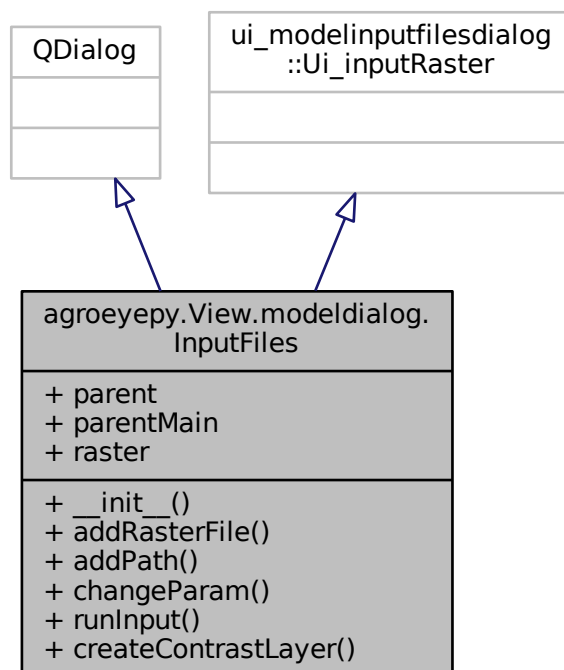
Exception with default information.

The documentation for this class was generated from the following file:

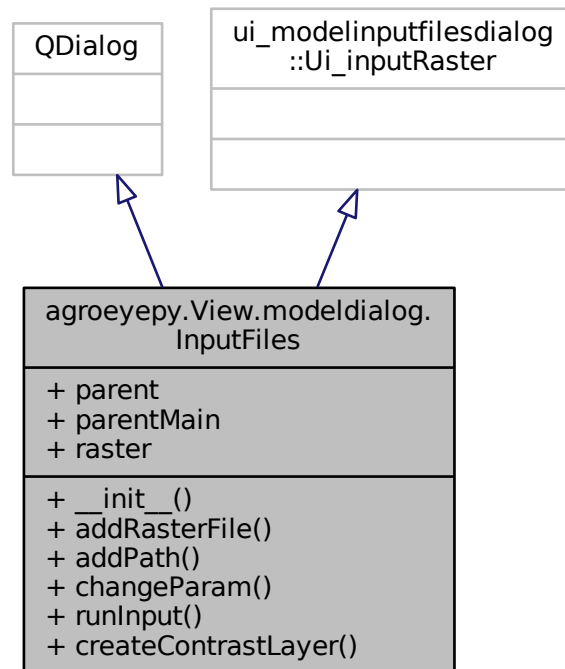
- [src/src/agroeye/errors/GeneralErrors.h](#)

8.51 agroeyepy.View.modeldialog.InputFiles Class Reference

Inheritance diagram for agroeyepy.View.modeldialog.InputFiles:



Collaboration diagram for `agroeyepy.View.modeldialog.InputFiles`:



Public Member Functions

- `def __init__ (self, parent)`
- `def addRasterFile (self)`
- `def addPath (self)`
- `def changeParam (self)`
- `def runInput (self)`
- `def createContrastLayer (self)`

Public Attributes

- `parent`
- `parentMain`
- `raster`

8.51.1 Constructor & Destructor Documentation

8.51.1.1 __init__()

```

def agroeyepy.View.modeldialog.InputFiles.__init__ (
    self,
    parent )
  
```


8.51.2 Member Function Documentation

8.51.2.1 addPath()

```
def agroeyepy.View.modeldialog.InputFiles.addPath (  
    self )
```

8.51.2.2 addRasterFile()

```
def agroeyepy.View.modeldialog.InputFiles.addRasterFile (  
    self )
```

8.51.2.3 changeParam()

```
def agroeyepy.View.modeldialog.InputFiles.changeParam (  
    self )
```

8.51.2.4 createContrastLayer()

```
def agroeyepy.View.modeldialog.InputFiles.createContrastLayer (  
    self )
```

8.51.2.5 runInput()

```
def agroeyepy.View.modeldialog.InputFiles.runInput (  
    self )
```

8.51.3 Member Data Documentation

8.51.3.1 parent

```
agroeyepy.View.modeldialog.InputFiles.parent
```

8.51.3.2 parentMain

```
agroeyepy.View.modeldialog.InputFiles.parentMain
```

8.51.3.3 raster

```
agroeyepy.View.modeldialog.InputFiles.raster
```

The documentation for this class was generated from the following file:

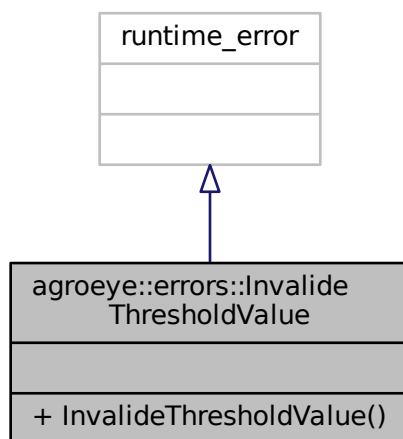
- [agroeyepy/View/modeldialog.py](#)

8.52 agroeye::errors::InvalideThresholdValue Class Reference

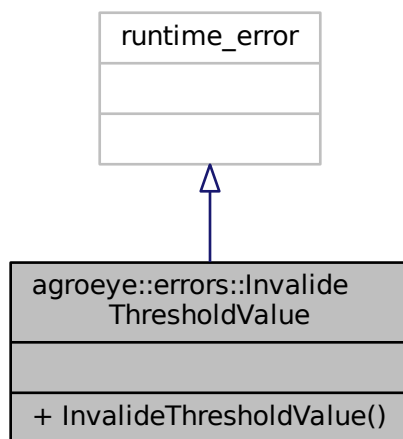
Errors related to invalid value of threshold parameter in quadtree segmentation.

```
#include <SegmentationErrors.h>
```

Inheritance diagram for agroeye::errors::InvalideThresholdValue:



Collaboration diagram for agroeye::errors::InvalideThresholdValue:



Public Member Functions

- [InvalideThresholdValue](#) ()
Default error message.

8.52.1 Detailed Description

Errors related to invalid value of threshold parameter in quadtree segmentation.

8.52.2 Constructor & Destructor Documentation

8.52.2.1 InvalidateThresholdValue()

```
agroeye::errors::InvalidateThresholdValue::InvalidateThresholdValue ( ) [inline]
```

Default error message.

The documentation for this class was generated from the following file:

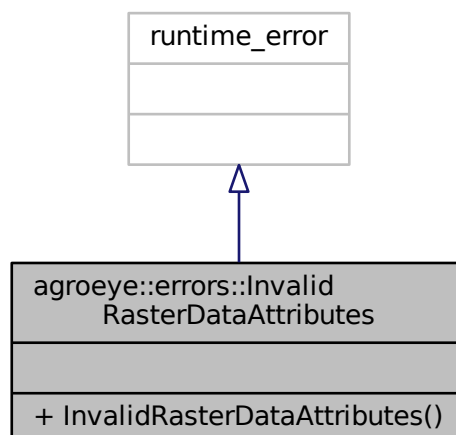
- [src/src/agroeye/errors/SegmentationErrors.h](#)

8.53 agroeye::errors::InvalidRasterDataAttributes Class Reference

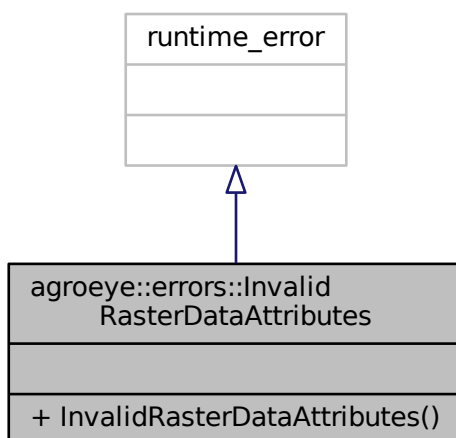
Exception thrown when to RasterDataGroup incoherent RasterData is added.

```
#include <RasterErrors.h>
```

Inheritance diagram for agroeye::errors::InvalidRasterDataAttributes:



Collaboration diagram for `agroeye::errors::InvalidRasterDataAttributes`:



Public Member Functions

- [InvalidRasterDataAttributes \(\)](#)
Default errors message.

8.53.1 Detailed Description

Exception thrown when to `RasterDataGroup` incoherent `RasterData` is added.

8.53.2 Constructor & Destructor Documentation

8.53.2.1 InvalidRasterDataAttributes()

```
agroeye::errors::InvalidRasterDataAttributes::InvalidRasterDataAttributes ( ) [inline]
```

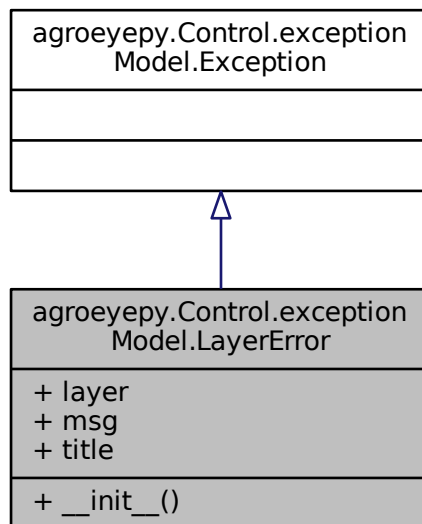
Default errors message.

The documentation for this class was generated from the following file:

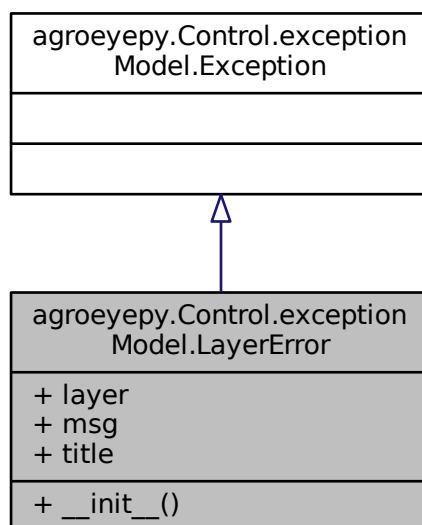
- `src/src/agroeye/errors/RasterErrors.h`

8.54 agroeyepy.Control.exceptionModel.LayerError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.LayerError:



Collaboration diagram for agroeyepy.Control.exceptionModel.LayerError:



Public Member Functions

- `def __init__ (self, layer)`

Public Attributes

- [layer](#)
- [msg](#)
- [title](#)

8.54.1 Constructor & Destructor Documentation

8.54.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.LayerError.__init__ (  
    self,  
    layer )
```

8.54.2 Member Data Documentation

8.54.2.1 `layer`

```
agroeyepy.Control.exceptionModel.LayerError.layer
```

8.54.2.2 `msg`

```
agroeyepy.Control.exceptionModel.LayerError.msg
```

8.54.2.3 `title`

```
agroeyepy.Control.exceptionModel.LayerError.title
```

The documentation for this class was generated from the following file:

- `agroeyepy/Control/exceptionModel.py`

8.55 agroeyepy.View.addnewobjecttolayer.Line Class Reference

Collaboration diagram for agroeyepy.View.addnewobjecttolayer.Line:

agroeyepy.View.addnewobjecttolayer.Line
+ parent + alpha + idObject + verticleCount + idVertice + selectedLine + Lines + signal + penStyle
+ __init__() + connectLine() + getCoordinate() + draw() + saveObject() + setCoordinate() + deleteObject() + newDraw() + deleteVerticle()

Public Member Functions

- def `__init__` (self, [parent](#))
- def `connectLine` (self)
Emit signal for add polyline.
- def `getCoordinate` (self, event)
Add coordinates of line, coordinates are from mouse clicked on the QGraphicsView.
- def `draw` (self)
Draw all drawn lines.
- def `saveObject` (self)
Save draw objects to shapefile.
- def `setCoordinate` (self)
Returns points coordinates as numpy array.
- def `deleteObject` (self, selectedRow, [signal](#), numVertices)
Delete object, from selected row.
- def `newDraw` (self)
Redraw lines.
- def `deleteVerticle` (self)
Delete verticle of object.

Public Attributes

- [parent](#)
- [alpha](#)
- [idObject](#)
- [verticleCount](#)
- [idVertice](#)
- [selectedLine](#)

Save draw objects to shapefile.

- [Lines](#)
- [signal](#)
- [penStyle](#)

Draw all drawn lines.

8.55.1 Constructor & Destructor Documentation

8.55.1.1 `__init__()`

```
def agroeyepy.View.addnewobjecttolayer.Line.__init__ (
    self,
    parent )
```

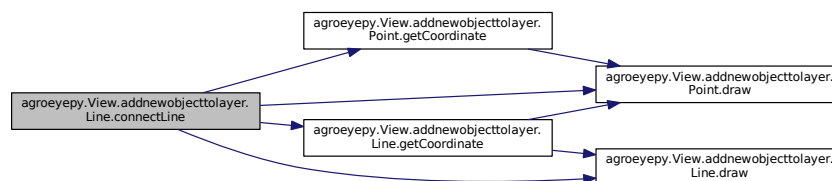
8.55.2 Member Function Documentation

8.55.2.1 `connectLine()`

```
def agroeyepy.View.addnewobjecttolayer.Line.connectLine (
    self )
```

Emit signal for add polyline.

Here is the call graph for this function:



8.55.2.2 `deleteObject()`

```
def agroeyepy.View.addnewobjecttolayer.Line.deleteObject (
    self,
    selectedRow,
    signal,
    numVertices )
```

Delete object, from selected row.

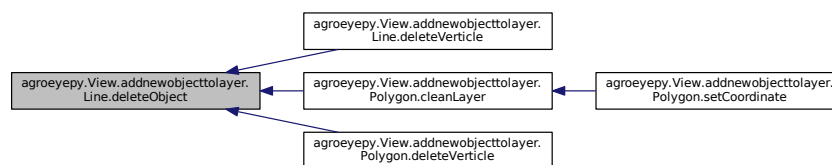
Parameters

<i>selectedRow</i>	index of selected row.
<i>signal</i>	signal to remove object.
<i>numVertices</i>	number of vertices.

Here is the call graph for this function:



Here is the caller graph for this function:

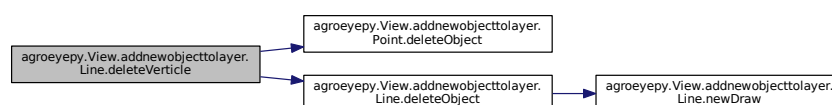


8.55.2.3 deleteVertex()

```
def agroeyepy.View.addnewobjecttolayer.Line.deleteVertex (
    self )
```

Delete verticle of object.

Here is the call graph for this function:

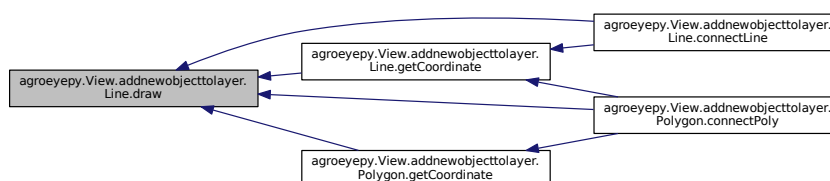


8.55.2.4 draw()

```
def agroeyepy.View.addnewobjecttolayer.Line.draw (
    self )
```

Draw all drawn lines.

Here is the caller graph for this function:



8.55.2.5 getCoordinate()

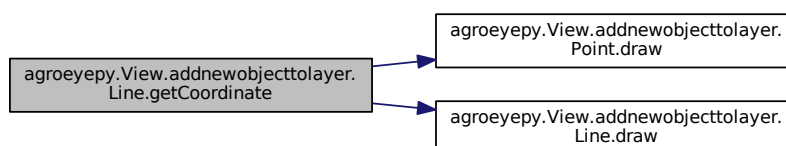
```
def agroeyepy.View.addnewobjecttolayer.Line.getCoordinate (
    self,
    event )
```

Add coordinates of line, coordinates are from mouse clicked on the QGraphicsView.

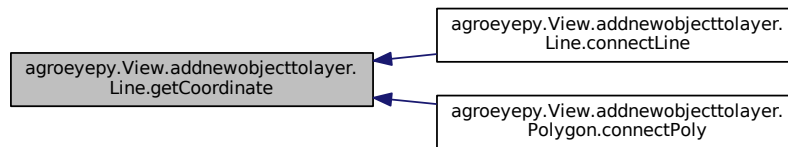
Parameters

<i>event</i>	Mouse click wheel triggers this event

Here is the call graph for this function:



Here is the caller graph for this function:

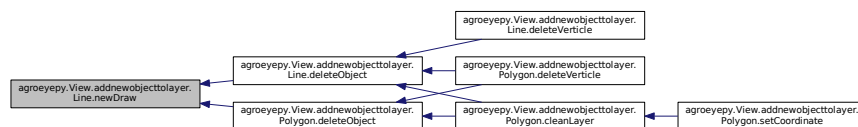


8.55.2.6 newDraw()

```
def agroeyepy.View.addnewobjecttolayer.Line.newDraw (
    self )
```

Redraw lines.

Here is the caller graph for this function:



8.55.2.7 saveObject()

```
def agroeyepy.View.addnewobjecttolayer.Line.saveObject (
    self )
```

Save draw objects to shapefile.

8.55.2.8 setCoordinate()

```
def agroeyepy.View.addnewobjecttolayer.Line.setCoordinate (
    self )
```

Returns points coordinates as numpy array.

8.55.3 Member Data Documentation

8.55.3.1 alpha

```
agroeyepy.View.addnewobjecttolayer.Line.alpha
```

8.55.3.2 idObject

```
agroeyepy.View.addnewobjecttolayer.Line.idObject
```

8.55.3.3 idVertice

```
agroeyepy.View.addnewobjecttolayer.Line.idVertice
```

8.55.3.4 Lines

```
agroeyepy.View.addnewobjecttolayer.Line.Lines
```

8.55.3.5 parent

```
agroeyepy.View.addnewobjecttolayer.Line.parent
```

8.55.3.6 penStyle

```
agroeyepy.View.addnewobjecttolayer.Line.penStyle
```

Draw all drawn lines.

8.55.3.7 selectedLine

```
def agroeyepy.View.addnewobjecttolayer.Line.selectedLine
```

Save draw objects to shapefile.

Lists of all drawn polylines during creating shapefile.

Delete object, from selected row.

Parameters

<i>selectedRow</i>	index of selected row.
<i>signal</i>	signal to remove object.
<i>numVertices</i>	number of vertices.

8.55.3.8 signal

```
agroeyepy.View.addnewobjecttolayer.Line.signal
```

8.55.3.9 verticleCount

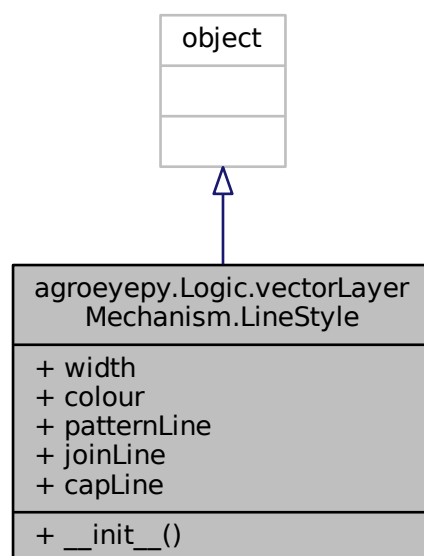
```
agroeyepy.View.addnewobjecttolayer.Line.verticleCount
```

The documentation for this class was generated from the following file:

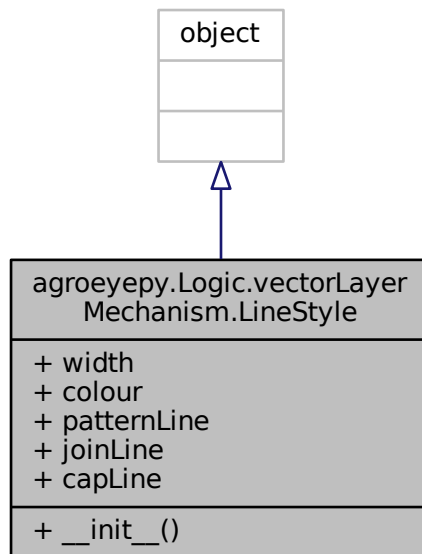
- [agroeyepy/View/addnewobjecttolayer.py](#)

8.56 agroeyepy.Logic.vectorLayerMechanism.LineStyle Class Reference

Inheritance diagram for agroeyepy.Logic.vectorLayerMechanism.LineStyle:



Collaboration diagram for `agroeyepy.Logic.vectorLayerMechanism.LineStyle`:



Public Member Functions

- `def __init__(self, width, colour, patternLine=None, joinLine=None, capLine=None)`

Public Attributes

- `width`
The width of line.
- `colour`
- `patternLine`
The pattern of line.
- `joinLine`
The join style of line.
- `capLine`

8.56.1 Constructor & Destructor Documentation

8.56.1.1 __init__()

```

def agroeyepy.Logic.vectorLayerMechanism.LineStyle.__init__(
    self,
    width,
    colour,
    patternLine = None,
    joinLine = None,
    capLine = None )
  
```

8.56.2 Member Data Documentation

8.56.2.1 capLine

`agroeyepy.Logic.vectorLayerMechanism.LineStyle.capLine`

8.56.2.2 colour

`agroeyepy.Logic.vectorLayerMechanism.LineStyle.colour`

8.56.2.3 joinLine

`agroeyepy.Logic.vectorLayerMechanism.LineStyle.joinLine`

The join style of line.

8.56.2.4 patternLine

`agroeyepy.Logic.vectorLayerMechanism.LineStyle.patternLine`

The pattern of line.

8.56.2.5 width

`agroeyepy.Logic.vectorLayerMechanism.LineStyle.width`

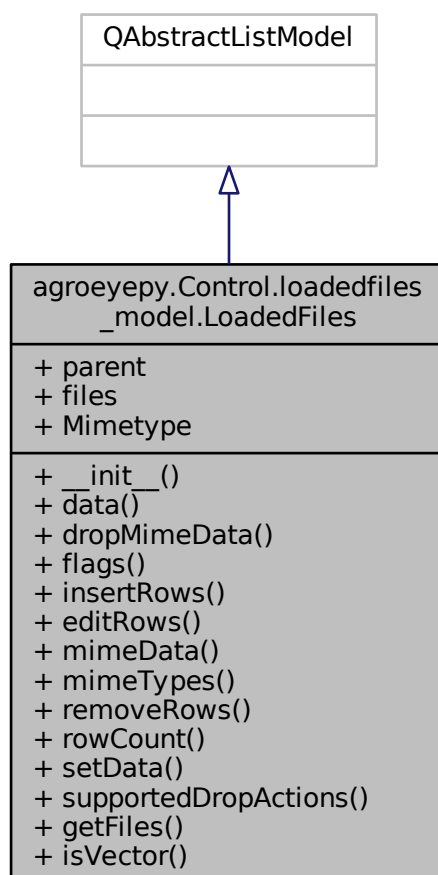
The width of line.

The documentation for this class was generated from the following file:

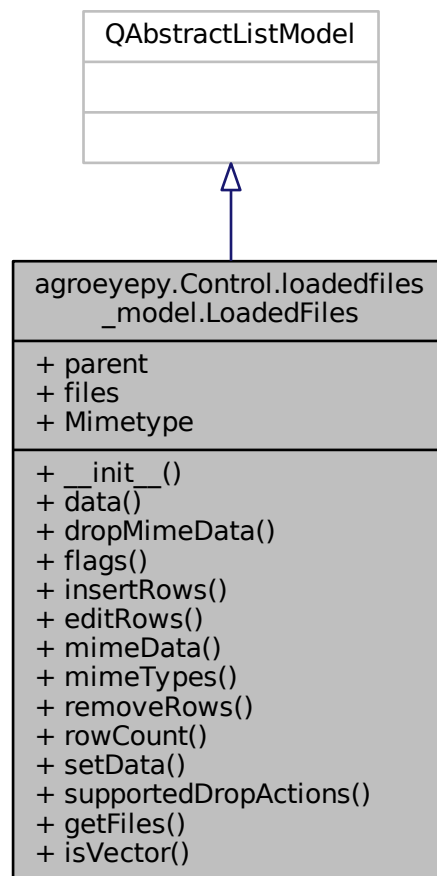
- `agroeyepy/Logic/vectorLayerMechanism.py`

8.57 agroeyepy.Control.loadedfiles_model.LoadedFiles Class Reference

Inheritance diagram for agroeyepy.Control.loadedfiles_model.LoadedFiles:



Collaboration diagram for agroeyepy.Control.loadedfiles_model.LoadedFiles:



Public Member Functions

- def `__init__` (self, `parent`=None)
- def `data` (self, index, role=Qt.DisplayRole)
Returns the data stored under the given role for the item referred to by the index.
- def `dropMimeData` (self, `data`, action, row, column, `parent`)
Handles the data supplied by a drag and drop operation that ended with the given action.
- def `flags` (self, index)
Returns flags for the given index.
- def `insertRows` (self, file, position, count=1, index=QModelIndex())
Insert count file into the model before the given position.
- def `editRows` (self, row, count, `parent`=QModelIndex())
Insert row into the model after the given position in drag and drop operation.
- def `mimeData` (self, indexes)
Returns an object that contains serialized items of data corresponding to the list of indexes specified.
- def `mimeTypes` (self)
Returns a list of MIME types that can be used to describe a list of model indexes.

- def `removeRows` (self, row, count=1, `parent`=QModelIndex())
Removes count rows starting with the given row under parent parent from the model.
- def `rowCount` (self, `parent`=QModelIndex())
Returns the number of rows under the given parent.
- def `setData` (self, index, value, role=Qt.EditRole)
Sets the role data for the item at index to value.
- def `supportedDropActions` (self)
Sets the supported drag actions for the items in the model.
- def `getFiles` (self)
Returns item into model.
- def `isVector` (self, index=QModelIndex)
Returns True if selected file is vector; otherwise returns False.

Public Attributes

- `parent`
- `files`

Static Public Attributes

- string `Mimetype` = 'application/x-qabstractmodeldatalist'

8.57.1 Constructor & Destructor Documentation

8.57.1.1 `__init__()`

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.__init__ (
    self,
    parent = None )
```

8.57.2 Member Function Documentation

8.57.2.1 `data()`

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.data (
    self,
    index,
    role = Qt.DisplayRole )
```

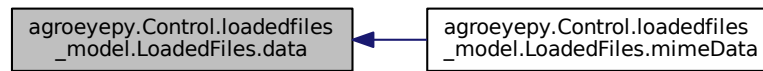
Returns the data stored under the given role for the item referred to by the index.

If you do not have a value to return, return an invalid QVariant.

Parameters

<i>index</i>	Index of item in the model.
<i>role</i>	Role for item which is used by the view to indicate to the model which type of data it needs. By default the key data to be rendered in the form of text (QString).

Here is the caller graph for this function:



8.57.2.2 dropMimeTypeData()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.dropMimeTypeData (
    self,
    data,
    action,
    row,
    column,
    parent )
```

Handles the data supplied by a drag and drop operation that ended with the given action.

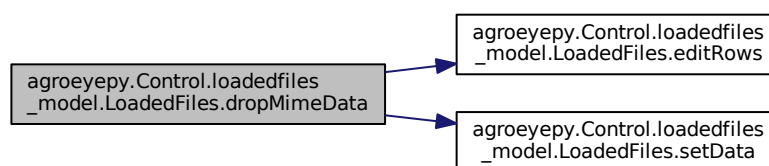
The specified row, column and parent indicate the location of an item in the model where the operation ended.

When row and column are -1 it means that the dropped data should be considered as dropped directly on parent. Usually this will mean appending the data as child items of parent. If row and column are greater than or equal zero, it means that the drop occurred just before the specified row and column in the specified parent.

Parameters

<i>data</i>	The supplied data by a drag and drop operation.
<i>action</i>	Action specifies what to do with the data supplied by a drag and drop operation.
<i>row</i>	The row of dropped data.
<i>column</i>	The column of dropped data.
<i>index</i>	The index of dropped data.
<i>return</i>	Returns True if the data and action can be handled by the model; otherwise returns False.

Here is the call graph for this function:



8.57.2.3 editRows()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.editRows (
    self,
    row,
    count,
    parent = QModelIndex() )
```

Insert row into the model after the given position in drag and drop operation.

Parameters

<i>row</i>	The row which is about to be insterted.
<i>positon</i>	The position where it will be placed.
<i>count</i>	The quantity of inserting rows. By default is 1 if a single file is placed into the list.
<i>index</i>	The index of inserting rows. By default creates new empty index from QModelIndex class.

Returns

Returns True if the rows were successfully inserted; otherwise returns False.

Here is the caller graph for this function:



8.57.2.4 flags()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.flags (
    self,
    index )
```

Returns flags for the given index.

Parameters

<i>index</i>	Index of item in the model.

8.57.2.5 getFiles()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.getFiles (
    self )
```

Returns item into model.

8.57.2.6 insertRows()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.insertRows (
    self,
    file,
    position,
    count = 1,
    index = QModelIndex() )
```

Insert count file into the model before the given position.

Parameters

<i>file</i>	The file which is about to be insterted.
<i>positon</i>	The position where it will be placed.
<i>count</i>	The quantity of inserting rows. By default is 1 if a single file is placed into the list.
<i>index</i>	The index of inserting rows. By default creates new empty index from QModelIndex class.

Returns

Returns True if the rows were successfully inserted; otherwise returns False.

8.57.2.7 isVector()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.isVector (
    self,
    index = QModelIndex )
```

Returns True if selected file is vector; otherwise returns False.

8.57.2.8 mimeTypeData()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.mimeTypeData (
    self,
    indexes )
```

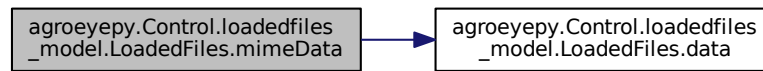
Returns an object that contains serialized items of data corresponding to the list of indexes specified.

The formats used to describe the encoded data is obtained from the [mimeTypeTypes\(\)](#) function.

Parameters

<i>indexes</i>	The list of indexes of data.

Here is the call graph for this function:



8.57.2.9 mimeTypes()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.mimeTypes (
    self )
```

Returns a list of MIME types that can be used to describe a list of model indexes.

8.57.2.10 removeRows()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.removeRows (
    self,
    row,
    count = 1,
    parent = QModelIndex() )
```

Removes count rows starting with the given row under parent parent from the model.

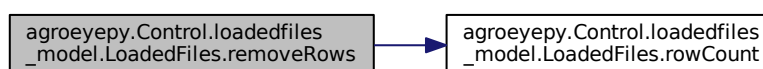
Parameters

<i>row</i>	The rows which is about to be removed.
<i>count</i>	The quantity of removing row.
<i>parent</i>	The index of removing rows.

Returns

Returns True if the rows were successfully removed; otherwise returns False.

Here is the call graph for this function:



8.57.2.11 rowCount()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.rowCount (
    self,
    parent = QModelIndex() )
```

Returns the number of rows under the given parent.

Parameters

<i>parent</i>	Index of data.

Here is the caller graph for this function:



8.57.2.12 setData()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.setData (
    self,
    index,
    value,
    role = Qt.EditRole )
```

Sets the role data for the item at index to value.

Parameters

<i>index</i>	Index of setting data.
<i>value</i>	The value to set.
<i>role</i>	Role for item which is used by the view to indicate to the model which type of data it needs. By default the data in a form suitable for editing in an editor (QString).

Returns

Returns True if successful; otherwise returns False.

Here is the caller graph for this function:

**8.57.2.13 supportedDropActions()**

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles.supportedDropActions (
    self )
```

Sets the supported drag actions for the items in the model.

8.57.3 Member Data Documentation**8.57.3.1 files**

```
agroeyepy.Control.loadedfiles_model.LoadedFiles.files
```

8.57.3.2 Mimetype

```
string agroeyepy.Control.loadedfiles_model.LoadedFiles.Mimetype = 'application/x-qabstractmodeldatalist'
[static]
```

8.57.3.3 parent

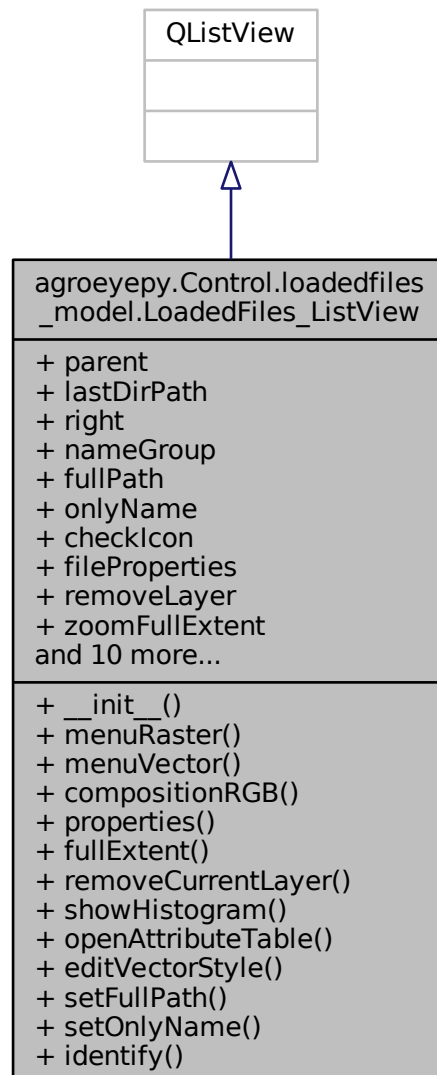
```
agroeyepy.Control.loadedfiles_model.LoadedFiles.parent
```

The documentation for this class was generated from the following file:

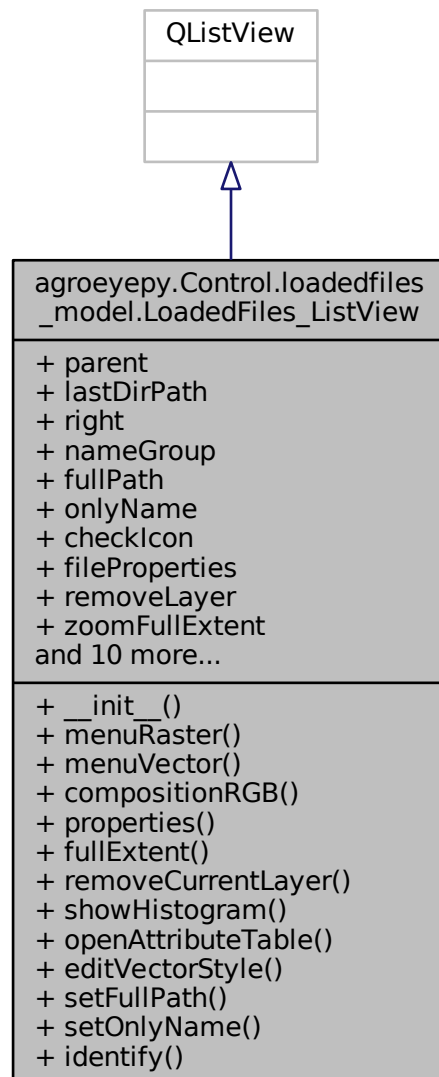
- [agroeyepy/Control/loadedfiles_model.py](#)

8.58 agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView Class Reference

Inheritance diagram for agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView:



Collaboration diagram for `agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView`:



Public Member Functions

- `def __init__ (self, parent=None)`
- `def menuRaster (self, pos)`
Sets the context menu for the raster file.
- `def menuVector (self, pos)`
Sets the context menu for the vector file.
- `def compositionRGB (self)`
Display Raster RGB Composition dialog.
- `def properties (self, file=None)`
Display Properties dialog.

- def [fullExtent](#) (self)
Emit signal to zoom full extent.
- def [removeCurrentLayer](#) (self)
Remove selected layer.
- def [showHistogram](#) (self)
Display Histogram dialog.
- def [openAttributeTable](#) (self)
Display Attribute Table dialog.
- def [editVectorStyle](#) (self)
Display Edit Style dialog.
- def [setFullPath](#) (self)
Show full path of file.
- def [setOnlyName](#) (self)
Show short name of file.
- def [identify](#) (self, file=None)
Display Properties dialog.

Public Attributes

- [parent](#)
- [lastDirPath](#)
- [right](#)
- [nameGroup](#)
- [fullPath](#)
- [onlyName](#)
- [checkIcon](#)
- [fileProperties](#)
- [removeLayer](#)
- [zoomFullExtent](#)
- [showHistogramMenu](#)
- [compositionRGBMenu](#)
- [attributeTable](#)
- [editStyle](#)
- [compositionRGBDialog](#)
- [propertiesDialog](#)
- [histogramDialog](#)
- [attributeTableDialog](#)
- [editLayersStyleDialog](#)
- [identificationDialog](#)

8.58.1 Constructor & Destructor Documentation

8.58.1.1 `__init__()`

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.__init__ (
    self,
    parent = None )
```

8.58.2 Member Function Documentation

8.58.2.1 compositionRGB()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.compositionRGB (
    self )
```

Display Raster RGB Composition dialog.

8.58.2.2 editVectorStyle()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.editVectorStyle (
    self )
```

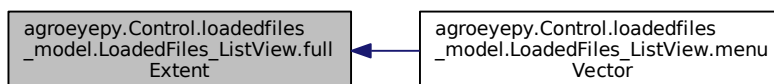
Display Edit Style dialog.

8.58.2.3 fullExtent()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.fullExtent (
    self )
```

Emit signal to zoom full extent.

Here is the caller graph for this function:



8.58.2.4 identify()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.identify (
    self,
    file = None )
```

Display Properties dialog.

8.58.2.5 menuRaster()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.menuRaster (
    self,
    pos )
```

Sets the context menu for the raster file.

Parameters

<i>pos</i>	Position of the context menu event.

8.58.2.6 menuVector()

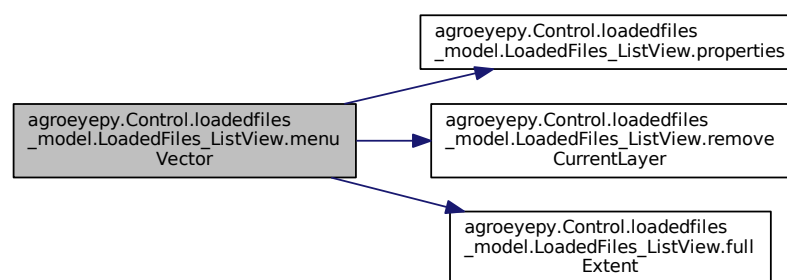
```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.menuVector (
    self,
    pos )
```

Sets the context menu for the vector file.

Parameters

<i>pos</i>	Position of the context menu event.

Here is the call graph for this function:



8.58.2.7 openAttributeTable()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.openAttributeTable (
    self )
```

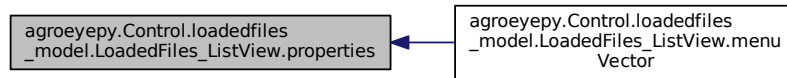
Display Attribute Table dialog.

8.58.2.8 properties()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.properties (
    self,
    file = None )
```

Display Properties dialog.

Here is the caller graph for this function:

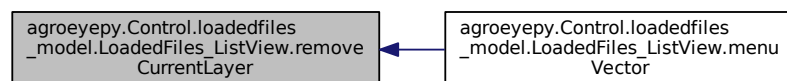


8.58.2.9 removeCurrentLayer()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.removeCurrentLayer (
    self )
```

Remove selected layer.

Here is the caller graph for this function:



8.58.2.10 setFullPath()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.setFullPath (
    self )
```

Show full path of file.

8.58.2.11 setOnlyName()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.setOnlyName (
    self )
```

Show short name of file.

8.58.2.12 showHistogram()

```
def agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.showHistogram (
    self )
```

Display Histogram dialog.

8.58.3 Member Data Documentation

8.58.3.1 attributeTable

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.attributeTable

8.58.3.2 attributeTableDialog

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.attributeTableDialog

8.58.3.3 checkIcon

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.checkIcon

8.58.3.4 compositionRGBDialog

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.compositionRGBDialog

8.58.3.5 compositionRGBMenu

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.compositionRGBMenu

8.58.3.6 editLayersStyleDialog

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.editLayersStyleDialog

8.58.3.7 editStyle

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.editStyle

8.58.3.8 fileProperties

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.fileProperties

8.58.3.9 fullPath

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.fullPath

8.58.3.10 histogramDialog

agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.histogramDialog

8.58.3.11 identificationDialog

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.identificationDialog`

8.58.3.12 lastDirPath

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.lastDirPath`

8.58.3.13 nameGroup

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.nameGroup`

8.58.3.14 onlyName

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.onlyName`

8.58.3.15 parent

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.parent`

8.58.3.16 propertiesDialog

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.propertiesDialog`

8.58.3.17 removeLayer

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.removeLayer`

8.58.3.18 right

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.right`

8.58.3.19 showHistogramMenu

`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.showHistogramMenu`

8.58.3.20 zoomFullExtent

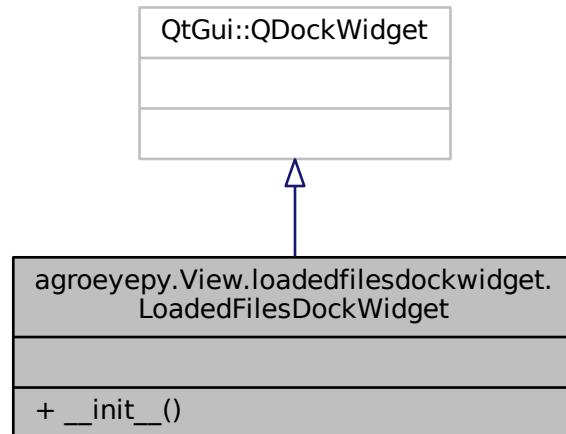
`agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView.zoomFullExtent`

The documentation for this class was generated from the following file:

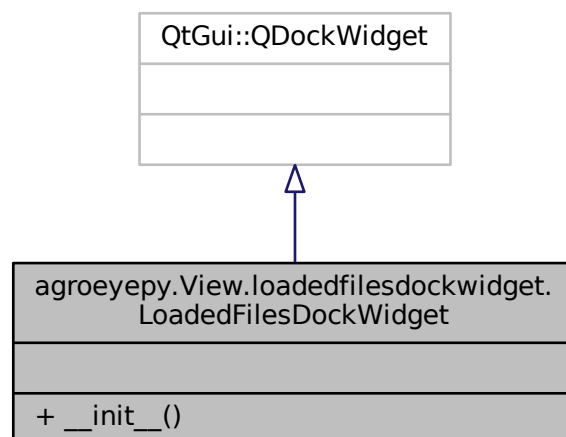
- `agroeyepy/Control/loadedfiles\_model.py`

8.59 agroeyepy.View.loadedfilesdockwidget.LoadedFilesDockWidget Class Reference

Inheritance diagram for agroeyepy.View.loadedfilesdockwidget.LoadedFilesDockWidget:



Collaboration diagram for agroeyepy.View.loadedfilesdockwidget.LoadedFilesDockWidget:



Public Member Functions

- `def \_\_init\_\_(self, parent=None)`

8.59.1 Constructor & Destructor Documentation

8.59.1.1 `__init__()`

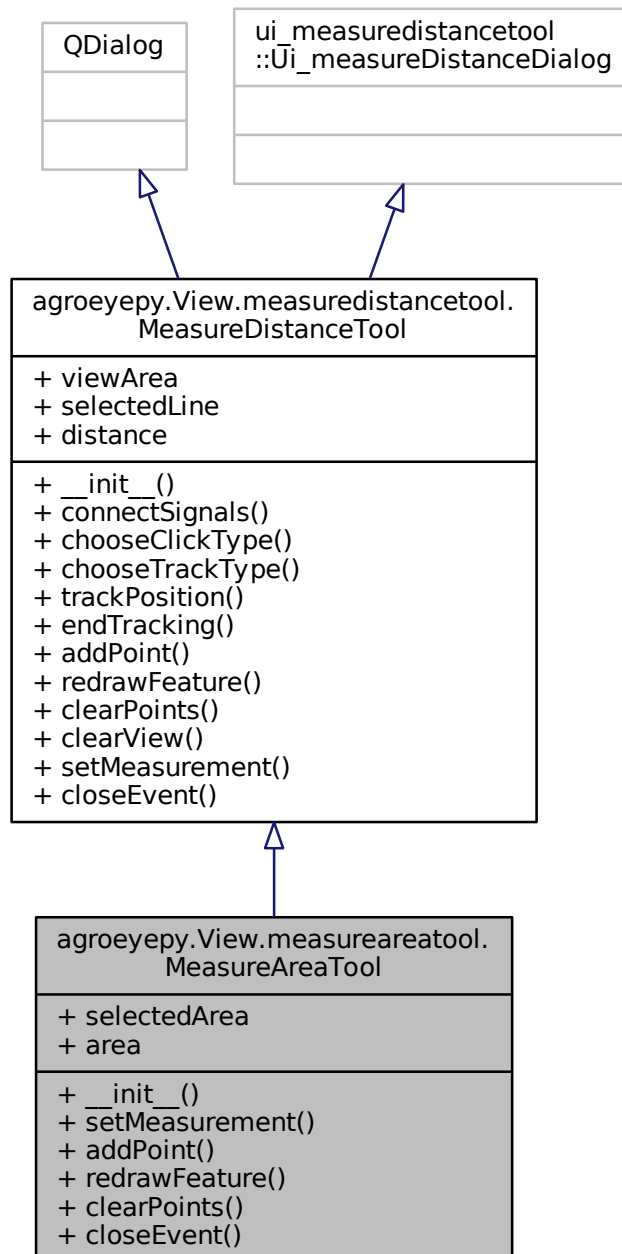
```
def agroeyepy.View.loadedfilesdockwidget.LoadedFilesDockWidget.__init__ (
    self,
    parent = None )
```

The documentation for this class was generated from the following file:

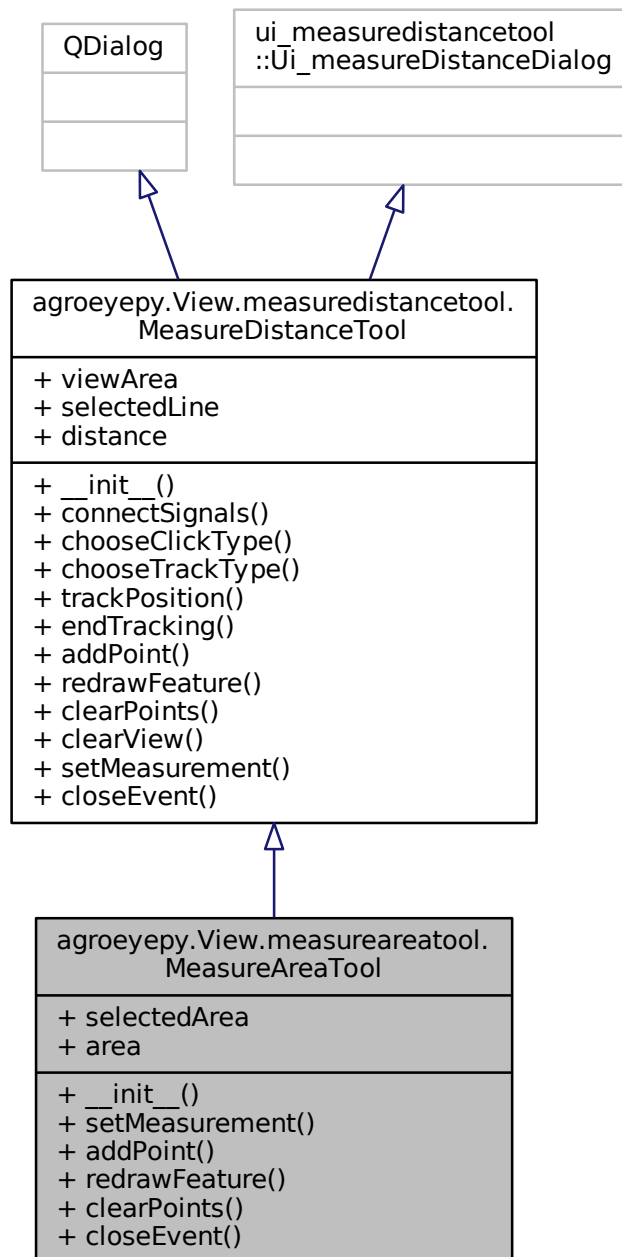
- [agroeyepy/View/loadedfilesdockwidget.py](#)

8.60 agroeyepy.View.measureareatool.MeasureAreaTool Class Reference

Inheritance diagram for agroeyepy.View.measureareatool.MeasureAreaTool:



Collaboration diagram for `agroeyepy.View.measureareatool.MeasureAreaTool`:



Public Member Functions

- `def __init__ (self, parent=None)`
- `def setMeasurement (self, givenArea=None)`
- `def addPoint (self, event)`
- `def redrawFeature (self)`
- `def clearPoints (self)`
- `def closeEvent (self, event)`

Public Attributes

- [selectedArea](#)
- [area](#)

8.60.1 Constructor & Destructor Documentation

8.60.1.1 `__init__()`

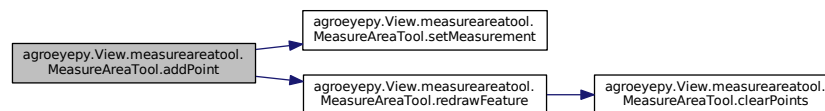
```
def agroeyepy.View.measureareatool.MeasureAreaTool.__init__ (
    self,
    parent = None )
```

8.60.2 Member Function Documentation

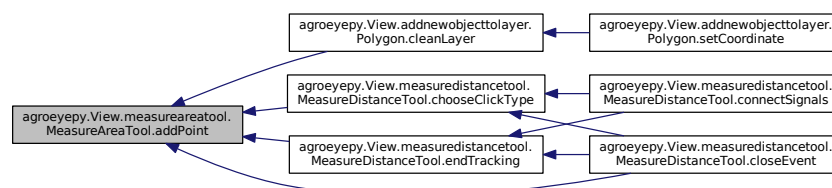
8.60.2.1 `addPoint()`

```
def agroeyepy.View.measureareatool.MeasureAreaTool.addPoint (
    self,
    event )
```

Here is the call graph for this function:



Here is the caller graph for this function:



[illegible]

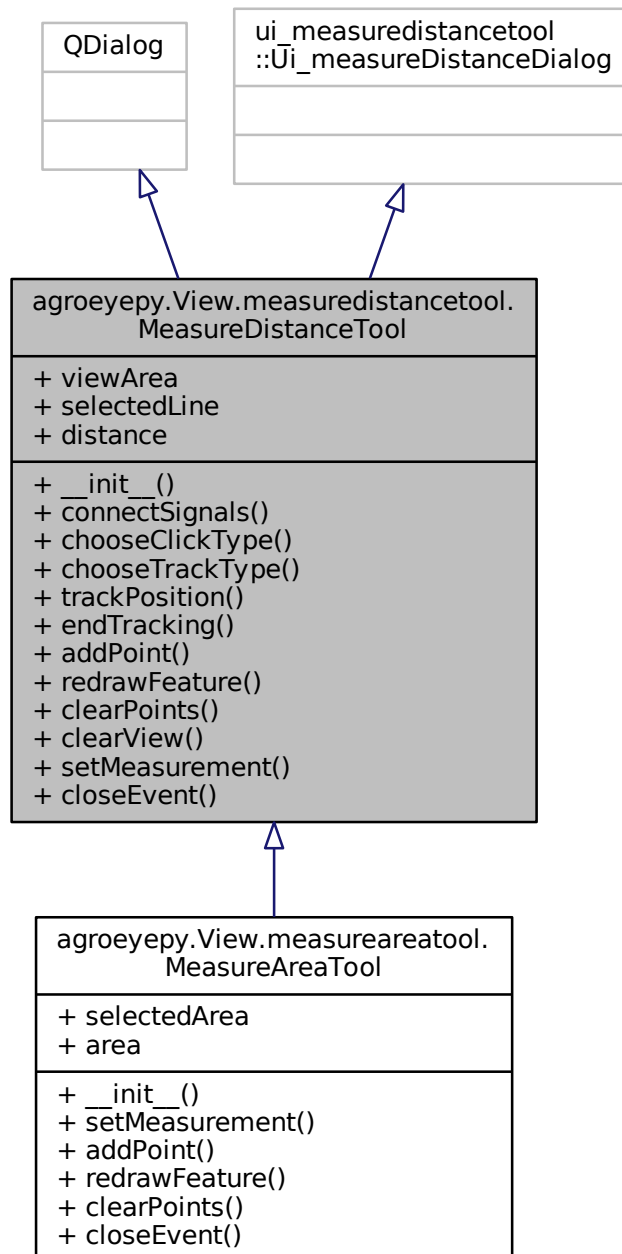
```
def agroeyepy.View.measureareatool.MeasureAreaTool.setMeasurement (
    self,
    givenArea = None )
```

```
agroeyepy.View.measureareatool.MeasureAreaTool.area
```

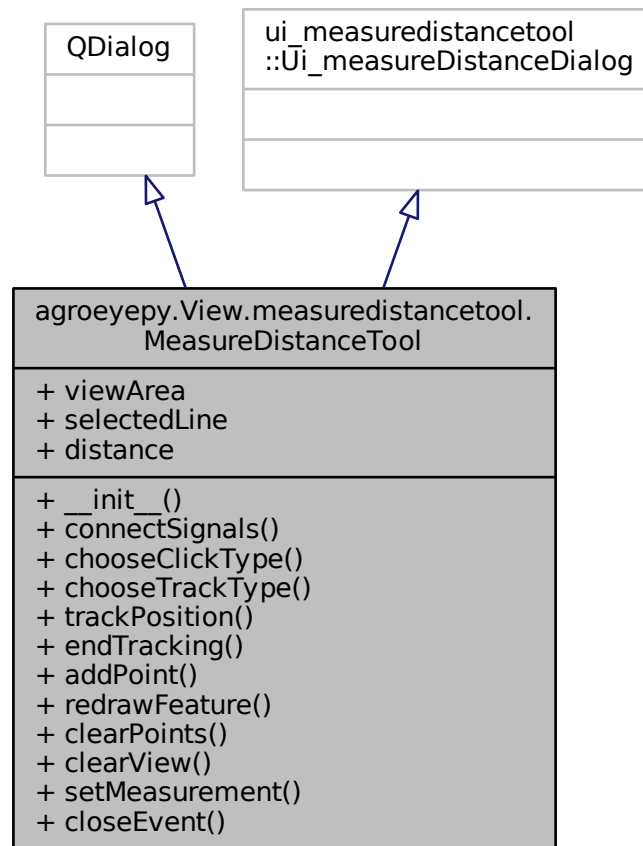
- [agroeyepy/View/measureareatool.py](#)

8.61 agroeyepy.View.measuredistancetool.MeasureDistanceTool Class Reference

Inheritance diagram for agroeyepy.View.measuredistancetool.MeasureDistanceTool:



Collaboration diagram for agroeyepy.View.measuredistancetool.MeasureDistanceTool:



Public Member Functions

- `def __init__ (self, parent=None)`
- `def connectSignals (self)`
- `def chooseClickType (self)`
- `def chooseTrackType (self)`
- `def trackPosition (self, event)`
- `def endTracking (self, event)`
- `def addPoint (self, event)`
- `def redrawFeature (self, border=None)`
- `def clearPoints (self)`
- `def clearView (self)`
- `def setMeasurement (self, distance=None)`
Set distance to box.
- `def closeEvent (self, event)`

Public Attributes

- `viewArea`
- `selectedLine`
- `distance`

8.61.1 Constructor & Destructor Documentation

8.61.1.1 `__init__()`

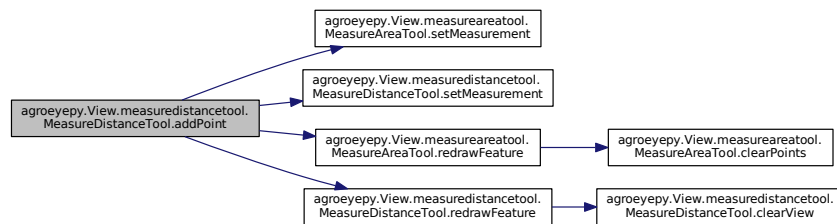
```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.__init__ (
    self,
    parent = None )
```

8.61.2 Member Function Documentation

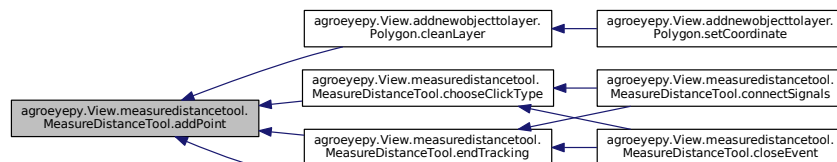
8.61.2.1 `addPoint()`

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.addPoint (
    self,
    event )
```

Here is the call graph for this function:



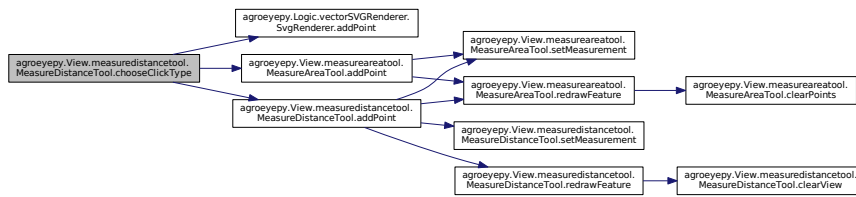
Here is the caller graph for this function:



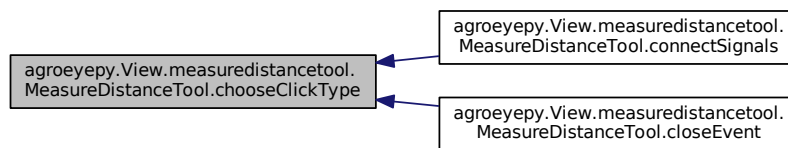
8.61.2.2 `chooseClickType()`

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.chooseClickType (
    self )
```

Here is the call graph for this function:



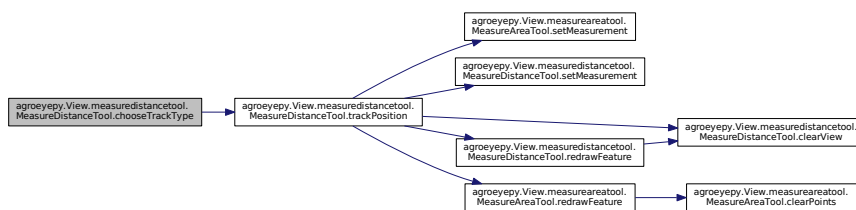
Here is the caller graph for this function:



8.61.2.3 chooseTrackType()

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.chooseTrackType (
    self )
```

Here is the call graph for this function:



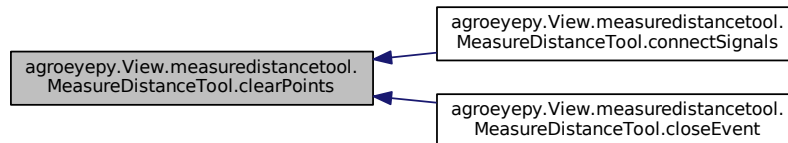
Here is the caller graph for this function:



8.61.2.4 clearPoints()

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.clearPoints (
    self )
```

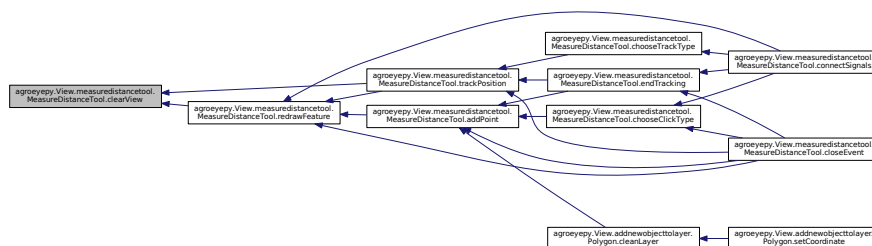
Here is the caller graph for this function:



8.61.2.5 clearView()

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.clearView (
    self )
```

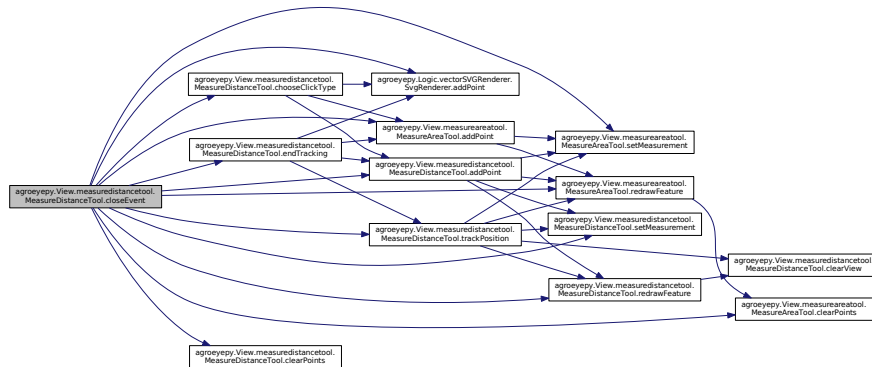
Here is the caller graph for this function:



8.61.2.6 closeEvent()

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.closeEvent (
    self,
    event )
```

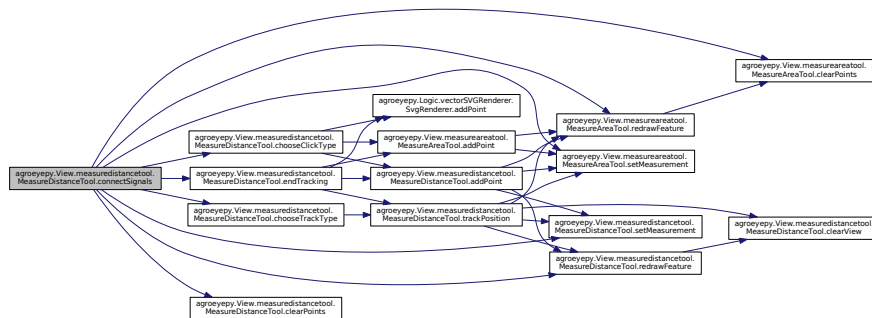
Here is the call graph for this function:



8.61.2.7 connectSignals()

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.connectSignals (
    self )
```

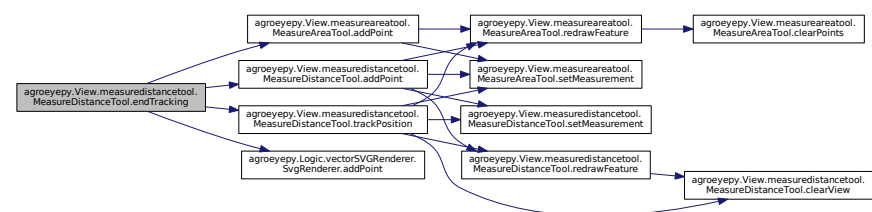
Here is the call graph for this function:



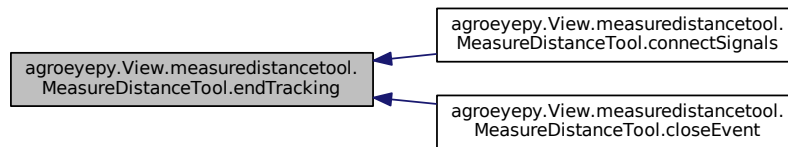
8.61.2.8 endTracking()

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.endTracking (
    self,
    event )
```

Here is the call graph for this function:



Here is the caller graph for this function:



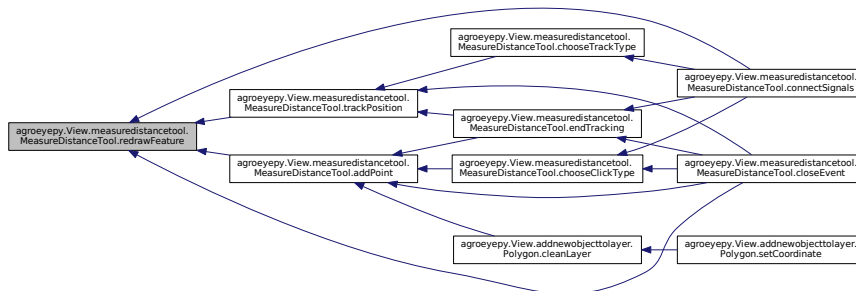
8.61.2.9 redrawFeature()

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.redrawFeature (
    self,
    border = None )
```

Here is the call graph for this function:



Here is the caller graph for this function:



8.61.2.10 setMeasurement()

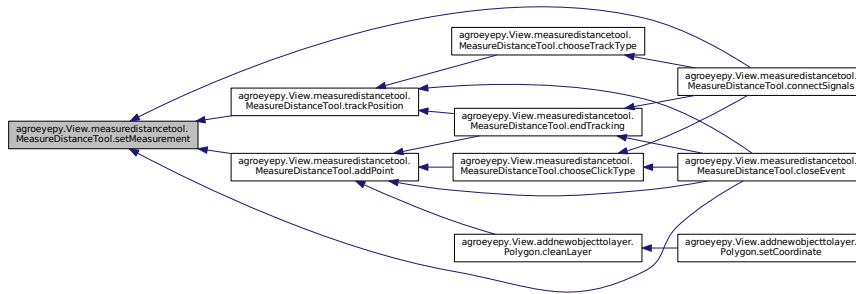
```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.setMeasurement (
    self,
    distance = None )
```

Set distance to box.

Parameters

<i>distance</i>	in meters

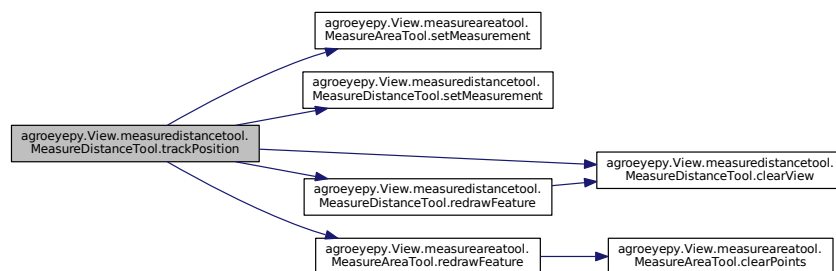
Here is the caller graph for this function:



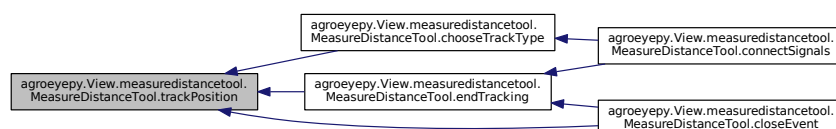
8.61.2.11 trackPosition()

```
def agroeyepy.View.measuredistancetool.MeasureDistanceTool.trackPosition (
    self,
    event )
```

Here is the call graph for this function:



Here is the caller graph for this function:



8.61.3 Member Data Documentation

8.61.3.1 distance

`agroeyepy.View.measuredistancetool.MeasureDistanceTool.distance`

8.61.3.2 selectedLine

`agroeyepy.View.measuredistancetool.MeasureDistanceTool.selectedLine`

8.61.3.3 viewArea

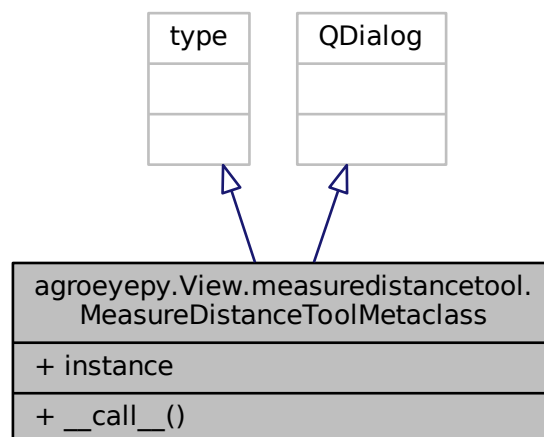
`agroeyepy.View.measuredistancetool.MeasureDistanceTool.viewArea`

The documentation for this class was generated from the following file:

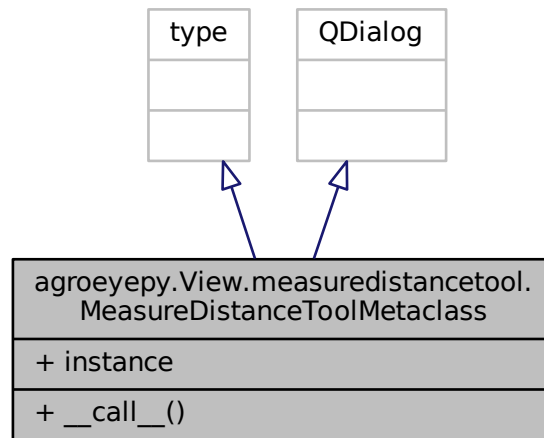
- `agroeyepy/View/measuredistancetool.py`

8.62 `agroeyepy.View.measuredistancetool.MeasureDistanceToolMetaclass` Class Reference

Inheritance diagram for `agroeyepy.View.measuredistancetool.MeasureDistanceToolMetaclass`:



Collaboration diagram for agroeyepy.View.measuredistancetool.MeasureDistanceToolMetaclass:



Public Member Functions

- `def __call__ (cls, args, kwargs)`

Static Public Attributes

- `instance = None`

8.62.1 Member Function Documentation

8.62.1.1 `__call__()`

```
def agroeyepy.View.measuredistancetool.MeasureDistanceToolMetaclass.__call__ (
    cls,
    args,
    kwargs )
```

8.62.2 Member Data Documentation

8.62.2.1 `instance`

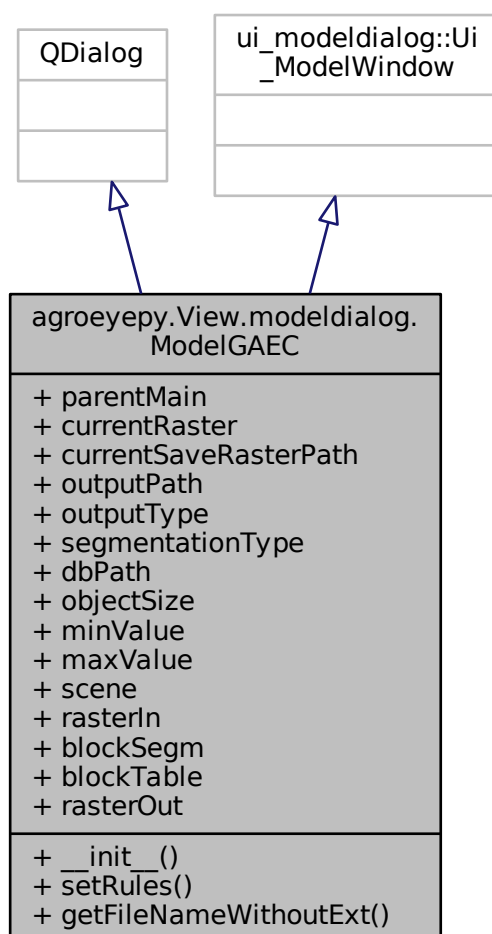
```
agroeyepy.View.measuredistancetool.MeasureDistanceToolMetaclass.instance = None [static]
```

The documentation for this class was generated from the following file:

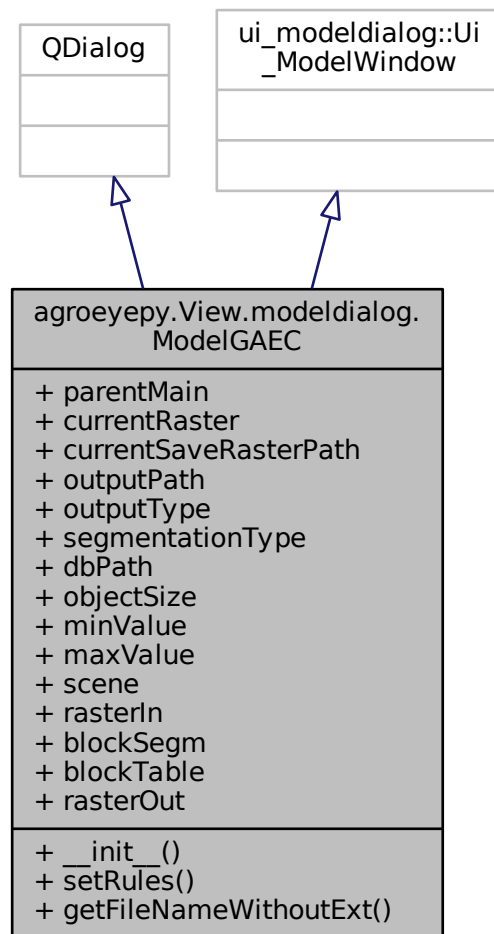
- `agroeyepy/View/measuredistancetool.py`

8.63 agroeyepy.View.modeldialog.ModelGAEC Class Reference

Inheritance diagram for agroeyepy.View.modeldialog.ModelGAEC:



Collaboration diagram for agroeyepy.View.modeldialog.ModelGAEC:



Public Member Functions

- `def __init__(self, parent=None)`
- `def setRules(self)`
- `def getFileNameWithoutExt(self)`

Public Attributes

- `parentMain`
- `currentRaster`
- `currentSaveRasterPath`
- `outputPath`
- `outputType`
- `segmentationType`
- `dbPath`

- [objectSize](#)
- [minValue](#)
- [maxValue](#)
- [scene](#)
- [rasterIn](#)
- [blockSegm](#)
- [blockTable](#)
- [rasterOut](#)

8.63.1 Constructor & Destructor Documentation

8.63.1.1 `__init__()`

```
def agroeyepy.View.modeldialog.ModelGAEC.__init__ (
    self,
    parent = None )
```

8.63.2 Member Function Documentation

8.63.2.1 `getFileNameWithoutExt()`

```
def agroeyepy.View.modeldialog.ModelGAEC.getFileNameWithoutExt (
    self )
```

8.63.2.2 `setRules()`

```
def agroeyepy.View.modeldialog.ModelGAEC.setRules (
    self )
```

8.63.3 Member Data Documentation

8.63.3.1 `blockSegm`

```
agroeyepy.View.modeldialog.ModelGAEC.blockSegm
```

8.63.3.2 `blockTable`

```
agroeyepy.View.modeldialog.ModelGAEC.blockTable
```

8.63.3.3 `currentRaster`

```
agroeyepy.View.modeldialog.ModelGAEC.currentRaster
```

8.63.3.4 currentSaveRasterPath

agroeyepy.View.modeldialog.ModelGAEC.currentSaveRasterPath

8.63.3.5 dbPath

agroeyepy.View.modeldialog.ModelGAEC.dbPath

8.63.3.6 maxValue

agroeyepy.View.modeldialog.ModelGAEC.maxValue

8.63.3.7 minValue

agroeyepy.View.modeldialog.ModelGAEC.minValue

8.63.3.8 objectSize

agroeyepy.View.modeldialog.ModelGAEC.objectSize

8.63.3.9 outputPath

agroeyepy.View.modeldialog.ModelGAEC.outputPath

8.63.3.10 outputType

agroeyepy.View.modeldialog.ModelGAEC.outputType

8.63.3.11 parentMain

agroeyepy.View.modeldialog.ModelGAEC.parentMain

8.63.3.12 rasterIn

agroeyepy.View.modeldialog.ModelGAEC.rasterIn

8.63.3.13 rasterOut

agroeyepy.View.modeldialog.ModelGAEC.rasterOut

8.63.3.14 scene

`agroeyepy.View.modeldialog.ModelGAEC.scene`

8.63.3.15 segmentationType

`agroeyepy.View.modeldialog.ModelGAEC.segmentationType`

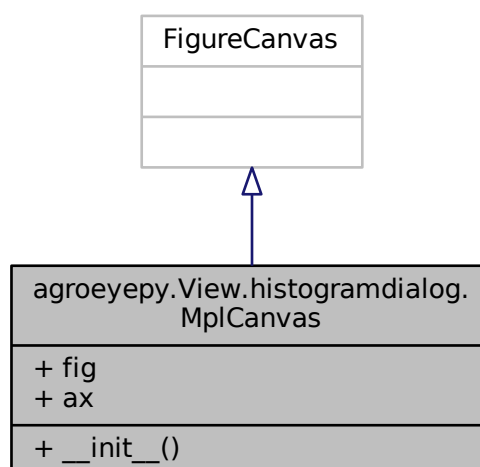
The documentation for this class was generated from the following file:

- `agroeyepy/View/modeldialog.py`

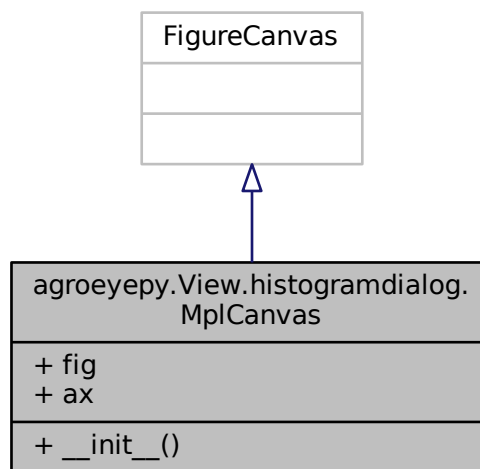
8.64 agroeyepy.View.histogramdialog.MplCanvas Class Reference

: Class used for plotting histograms and LUTs.

Inheritance diagram for `agroeyepy.View.histogramdialog.MplCanvas`:



Collaboration diagram for agroeyepy.View.histogramdialog.MplCanvas:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- `fig`
- `ax`

8.64.1 Detailed Description

: Class used for plotting histograms and LUTs.

8.64.2 Constructor & Destructor Documentation

8.64.2.1 `__init__()`

```
def agroeyepy.View.histogramdialog.MplCanvas.__init__ (
    self )
```

8.64.3 Member Data Documentation

8.64.3.1 `ax`

```
agroeyepy.View.histogramdialog.MplCanvas.ax
```

8.64.3.2 fig

`agroeyepy.View.histogramdialog.MplCanvas.fig`

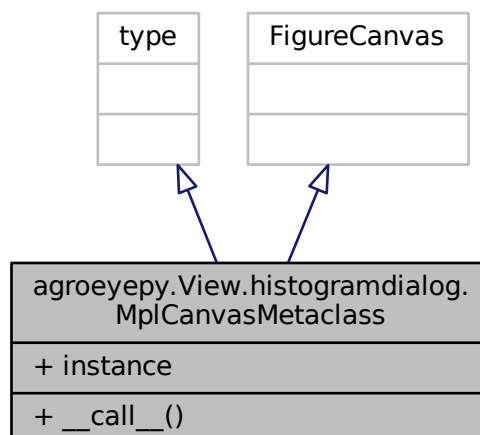
The documentation for this class was generated from the following file:

- [agroeyepy/View/histogramdialog.py](#)

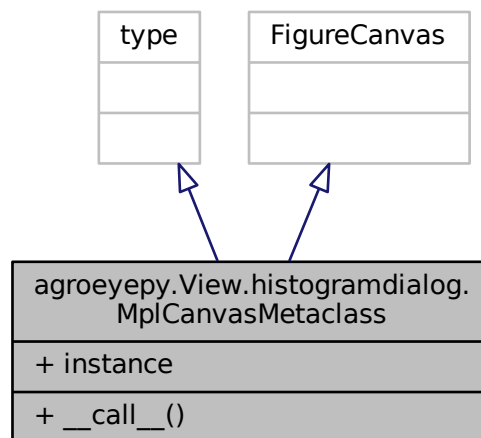
8.65 agroeyepy.View.histogramdialog.MplCanvasMetaclass Class Reference

: Metaclass for [MplCanvas](#).

Inheritance diagram for `agroeyepy.View.histogramdialog.MplCanvasMetaclass`:



Collaboration diagram for agroeyepy.View.histogramdialog.MplCanvasMetaclass:



Public Member Functions

- `def \_\_call\_\_ (cls, args, kwargs)`

Static Public Attributes

- `instance = None`

8.65.1 Detailed Description

: Metaclass for [MplCanvas](#).

Provides model: only one matplotlib figure with subplot and axes per one histogram dialog. If new instance is called the previous plot is cleared (axes).

8.65.2 Member Function Documentation

8.65.2.1 `__call__()`

```
def agroeyepy.View.histogramdialog.MplCanvasMetaclass.__call__ (
    cls,
    args,
    kwargs )
```

8.65.3 Member Data Documentation

8.65.3.1 instance

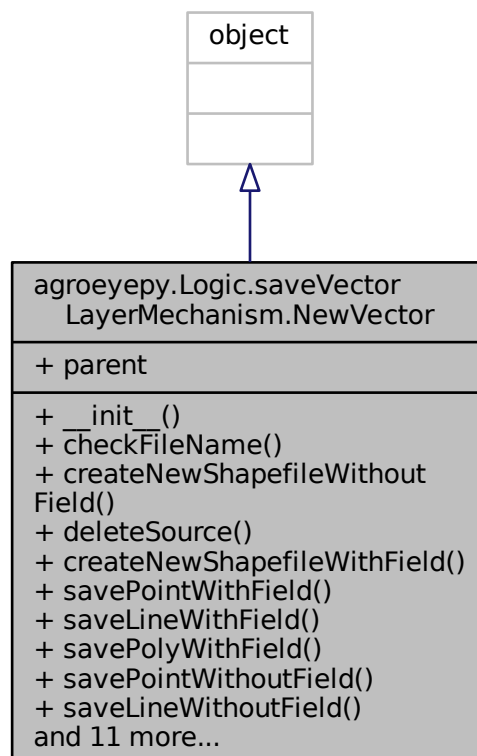
```
agroeyepy.View.histogramdialog.MplCanvasMetaclass.instance = None [static]
```

The documentation for this class was generated from the following file:

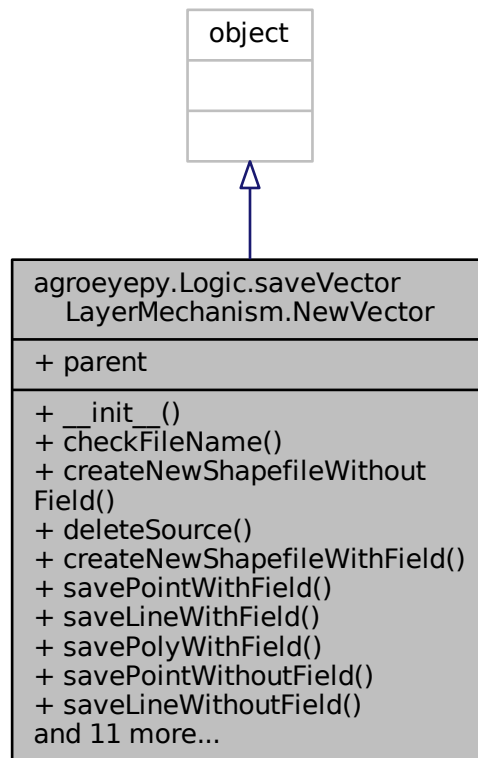
- [agroeyepy/View/histogramdialog.py](#)

8.66 agroeyepy.Logic.saveVectorLayerMechanism.NewVector Class Reference

Inheritance diagram for agroeyepy.Logic.saveVectorLayerMechanism.NewVector:



Collaboration diagram for agroeyepy.Logic.saveVectorLayerMechanism.NewVector:



Public Member Functions

- `def __init__(self, parent)`
- `def checkFileName(self, filename)`
- `def createNewShapefileWithoutField(self, filename, geomType, epsg, geomData)`
Save geometries as own shapefile file and add it to loadfiles_model.
- `def deleteSource(self, vectorLayer)`
Delete opened datasource.
- `def createNewShapefileWithField(self, filename, tableLayer, viewArea)`
Save geometries as new shapefile file and add it to loadfiles_model.
- `def savePointWithField(self, outDataSource, spatialReference, tableLayer)`
Save geometries as points with features.
- `def saveLineWithField(self, outDataSource, spatialReference, tableLayer)`
Save geometries as polyline with features.
- `def savePolyWithField(self, outDataSource, spatialReference, tableLayer)`
Save geometries as polygon with features.
- `def savePointWithoutField(self, outDataSource, spatialReference, geomData)`
Save geometries as points without field.
- `def saveLineWithoutField(self, outDataSource, spatialReference, geomData)`
Save geometries as lines without field.

- def [savePolyWithoutField](#) (self, outDataSource, spatialReference, geomData)
Save geometries as polygon without field.
- def [diffList](#) (self, oldList, newList)
Returns difference between two list.
- def [checkRenameList](#) (self, [renameField](#), currField)
Returns the rename column name.
- def [setNewField](#) (self, newField, tableLayer, vectorLayer)
Set new Field in vector file (column in attribute table).
- def [transformType](#) (self, type)
Returns the string type to ogr type.
- def [delField](#) (self, delField, vectorLayer)
Delete Field in vector file (column in attribute table).
- def [renameField](#) (self, vectorLayer, editColumnName)
Change name of Field in vector file (column in attribute table).
- def [setFeature](#) (self, vectorLayer, editRow)
Set Features in vector file (rows in attribute table).
- def [delFeature](#) (self, vectorLayer, editRow)
Delete Features in vector file (rows in attribute table).
- def [updateFile](#) (self, vectorLayer)
Updates the file after save.
- def [addToList](#) (self, filename, viewArea)
Add new file to loadfiles model.

Public Attributes

- [parent](#)

8.66.1 Constructor & Destructor Documentation

8.66.1.1 `__init__()`

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.__init__ (
    self,
    parent )
```

8.66.2 Member Function Documentation

8.66.2.1 `addToList()`

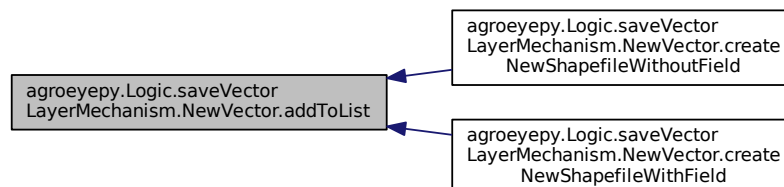
```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.addToList (
    self,
    filename,
    viewArea )
```

Add new file to loadfiles model.

Parameters

<i>filename</i>	The name of created file.
<i>viewArea</i>	The view.

Here is the caller graph for this function:



8.66.2.2 checkFileName()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.checkFileName (
    self,
    filename )
```

@brief Check if file name is valid.
 When creating new file, it is important to follow these rules:

- names must start with letter
- names must contain only letters, numbers and underscore
- spaces and other special characters are not supported
- names is limited to 15 characters

@param filename: The verified name.

8.66.2.3 checkRenameList()

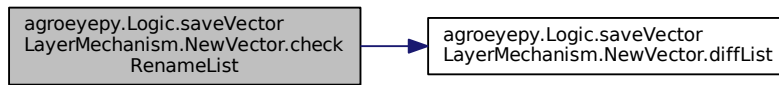
```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.checkRenameList (
    self,
    renameField,
    currField )
```

Returns the rename column name.

Parameters

<i>renameField</i>	List of rename column
<i>currField</i>	List of name edited column (field)

Here is the call graph for this function:



8.66.2.4 createNewShapefileWithField()

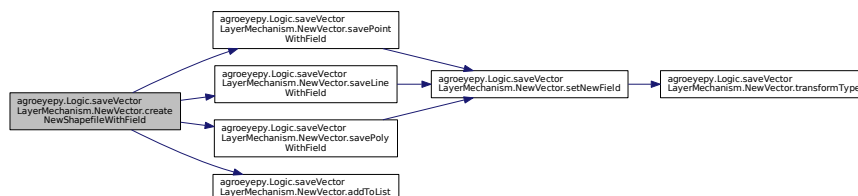
```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.createNewShapefileWithField (
    self,
    filename,
    tableLayer,
    viewArea )
```

Save geometries as new shapefile file and add it to loadfiles_model.

Parameters

<i>filename</i>	The name of created file.
<i>tableLayer</i>	Object to Table Class.
<i>viewArea</i>	View .

Here is the call graph for this function:



8.66.2.5 createNewShapefileWithoutField()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.createNewShapefileWithoutField (
    self,
    filename,
    geomType,
    epsg,
    geomData )
```

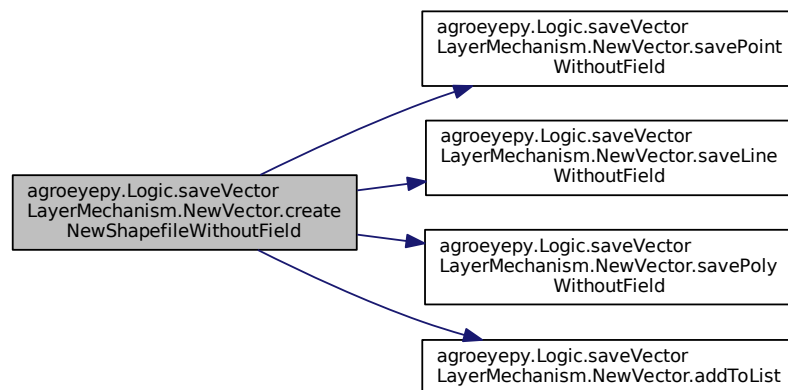
Save geometries as own shapefile file and add it to loadfiles_model.

Returns shapefile without field, only coordinates.

Parameters

<i>filename</i>	The name of created file.
<i>geomType</i>	The geometry type of created file.
<i>epsg</i>	The epsg code.
<i>geomData</i>	The data contains coordinates.

Here is the call graph for this function:



8.66.2.6 deleteSource()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.deleteSource (
    self,
    vectorLayer )
```

Delete opened datasource.

Parameters

<i>vectorLayer</i>	Vector datasource to delete.

8.66.2.7 delFeature()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.delFeature (
    self,
    vectorLayer,
    editRow )
```

Delete Features in vector file (rows in attribute table).

Parameters

<i>vectorLayer</i>	Object of selected vector.
<i>editRow</i>	List of values of edited row (features).

8.66.2.8 delField()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.delField (
    self,
    delField,
    vectorLayer )
```

Delete Field in vector file (column in attribute table).

Parameters

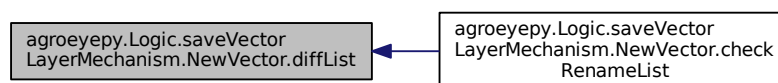
<i>delField</i>	List of name column to delete (field).
<i>vectorLayer</i>	Object of selected vector.

8.66.2.9 diffList()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.diffList (
    self,
    oldList,
    newList )
```

Returns difference between two list.

Here is the caller graph for this function:



8.66.2.10 renameField()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.renameField (
    self,
    vectorLayer,
    editColumnName )
```

Change name of Field in vector file (column in attribute table).

Parameters

<i>vectorLayer</i>	Object of selected vector.
<i>editColumnName</i>	List of name edited column (field).

8.66.2.11 saveLineWithField()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.saveLineWithField (
    self,
    outDataSource,
    spatialReference,
    tableLayer )
```

Save geometries as polyline with features.

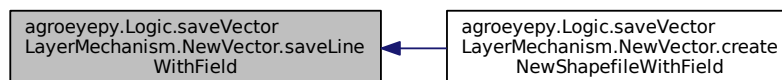
Parameters

<i>outDataSource</i>	Datasource for created file.
<i>spatialReference</i>	Spatial reference system for created file.
<i>tableLayer</i>	Object of Table Class.

Here is the call graph for this function:



Here is the caller graph for this function:



8.66.2.12 saveLineWithoutField()

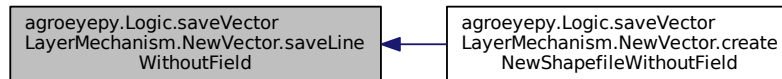
```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.saveLineWithoutField (
    self,
    outDataSource,
    spatialReference,
    geomData )
```

Save geometries as lines without field.

Parameters

<i>outDataSource</i>	Datasource for created file.
<i>spatialReference</i>	Spatial reference system for created file.
<i>geomData</i>	Coordinates of lines.

Here is the caller graph for this function:



8.66.2.13 savePointWithField()

```

def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.savePointWithField (
    self,
    outDataSource,
    spatialReference,
    tableLayer )
  
```

Save geometries as points with features.

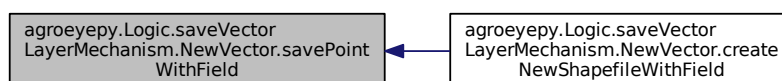
Parameters

<i>outDataSource</i>	Datasource for created file.
<i>spatialReference</i>	Spatial reference system for created file.
<i>tableLayer</i>	Object of Table Class.

Here is the call graph for this function:



Here is the caller graph for this function:



8.66.2.14 savePointWithoutField()

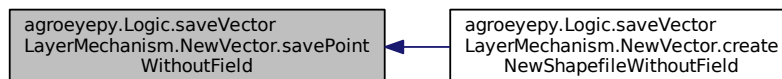
```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.savePointWithoutField (
    self,
    outDataSource,
    spatialReference,
    geomData )
```

Save geometries as points without field.

Parameters

<i>outDataSource</i>	Datasource for created file.
<i>spatialReference</i>	Spatial reference system for created file.
<i>geomData</i>	Coordinates of points.

Here is the caller graph for this function:



8.66.2.15 savePolyWithField()

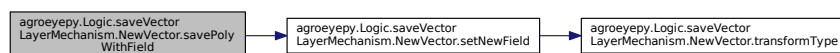
```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.savePolyWithField (
    self,
    outDataSource,
    spatialReference,
    tableLayer )
```

Save geometries as polygon with features.

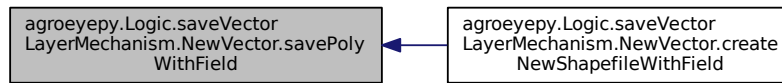
Parameters

<i>outDataSource</i>	Datasource for created file.
<i>spatialReference</i>	Spatial reference system for created file.
<i>tableLayer</i>	Object of Table Class.

Here is the call graph for this function:



Here is the caller graph for this function:



8.66.2.16 savePolyWithoutField()

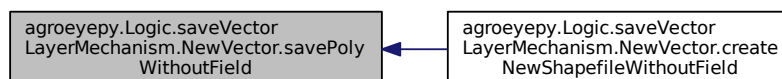
```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.savePolyWithoutField (
    self,
    outDataSource,
    spatialReference,
    geomData )
```

Save geometries as polygon without field.

Parameters

<i>outDataSource</i>	Datasource for created file.
<i>spatialReference</i>	Spatial reference system for created file.
<i>geomData</i>	Coordinates of polygons.

Here is the caller graph for this function:



8.66.2.17 setFeature()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.setFeature (
    self,
    vectorLayer,
    editRow )
```

Set Features in vector file (rows in attribute table).

Parameters

<i>vectorLayer</i>	Object of selected vector.
<i>editRow</i>	List of values of edited row (features).

8.66.2.18 setNewField()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.setNewField (
    self,
    newField,
    tableLayer,
    vectorLayer )
```

Set new Field in vector file (column in attribute table).

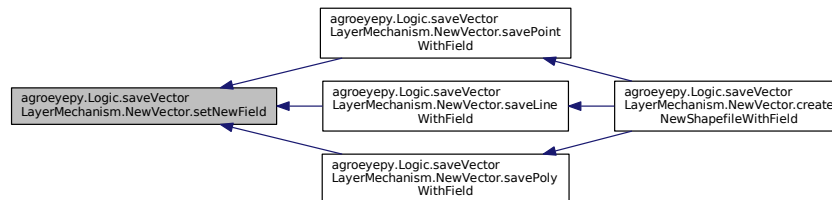
Parameters

<i>newField</i>	The new field.
<i>tableLayer</i>	The object of Table Class.
<i>vectorLayer</i>	Object of selected vector.

Here is the call graph for this function:



Here is the caller graph for this function:



8.66.2.19 transformType()

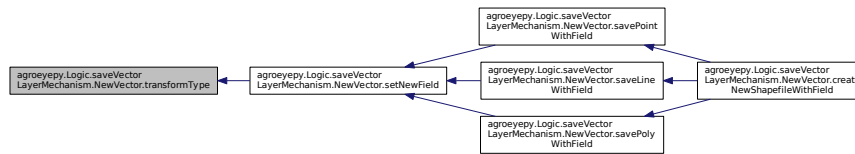
```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.transformType (
    self,
    type )
```

Returns the string type to ogr type.

Parameters

<i>type</i>	Type of geometry read from file.

Here is the caller graph for this function:



8.66.2.20 updateFile()

```
def agroeyepy.Logic.saveVectorLayerMechanism.NewVector.updateFile (
    self,
    vectorLayer )
```

Updates the file after save.

Parameters

<i>vectorLayer</i>	Object of selected vector.

8.66.3 Member Data Documentation

8.66.3.1 parent

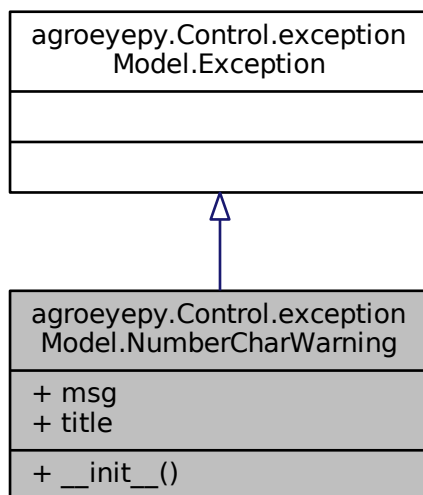
```
agroeyepy.Logic.saveVectorLayerMechanism.NewVector.parent
```

The documentation for this class was generated from the following file:

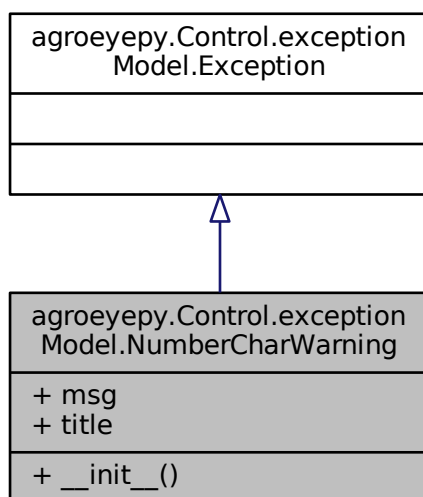
- `agroeyepy/Logic/saveVectorLayerMechanism.py`

8.67 agroeyepy.Control.exceptionModel.NumberCharWarning Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.NumberCharWarning:



Collaboration diagram for agroeyepy.Control.exceptionModel.NumberCharWarning:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- [msg](#)
- [title](#)

8.67.1 Constructor & Destructor Documentation

8.67.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.NumberCharWarning.__init__ (
    self )
```

8.67.2 Member Data Documentation

8.67.2.1 `msg`

```
agroeyepy.Control.exceptionModel.NumberCharWarning.msg
```

8.67.2.2 `title`

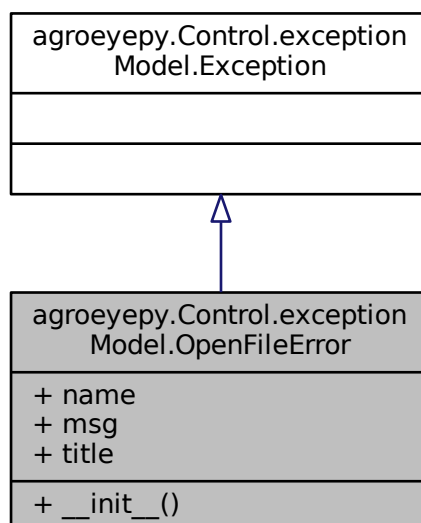
```
agroeyepy.Control.exceptionModel.NumberCharWarning.title
```

The documentation for this class was generated from the following file:

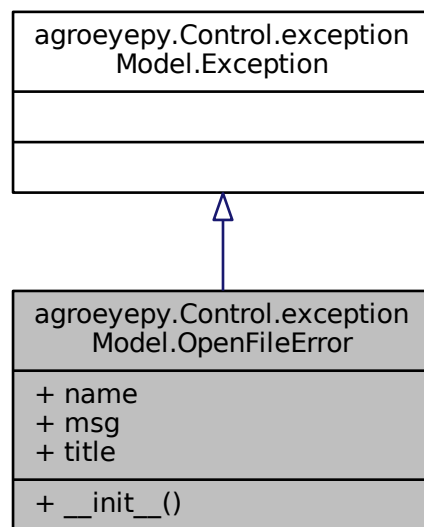
- [agroeyepy/Control/exceptionModel.py](#)

8.68 `agroeyepy.Control.exceptionModel.OpenFileError` Class Reference

Inheritance diagram for `agroeyepy.Control.exceptionModel.OpenFileError`:



Collaboration diagram for agroeyepy.Control.exceptionModel.OpenFileError:



Public Member Functions

- `def __init__(self, name)`

Public Attributes

- `name`
- `msg`
- `title`

8.68.1 Constructor & Destructor Documentation

8.68.1.1 __init__()

```
def agroeyepy.Control.exceptionModel.OpenFileError.__init__ (
    self,
    name )
```

8.68.2 Member Data Documentation

8.68.2.1 msg

```
agroeyepy.Control.exceptionModel.OpenFileError.msg
```

8.68.2.2 name

`agroeyepy.Control.exceptionModel.OpenFileError.name`

8.68.2.3 title

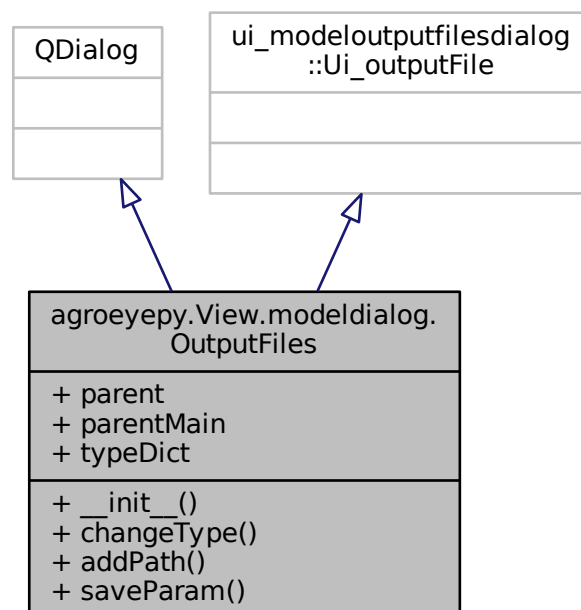
`agroeyepy.Control.exceptionModel.OpenFileError.title`

The documentation for this class was generated from the following file:

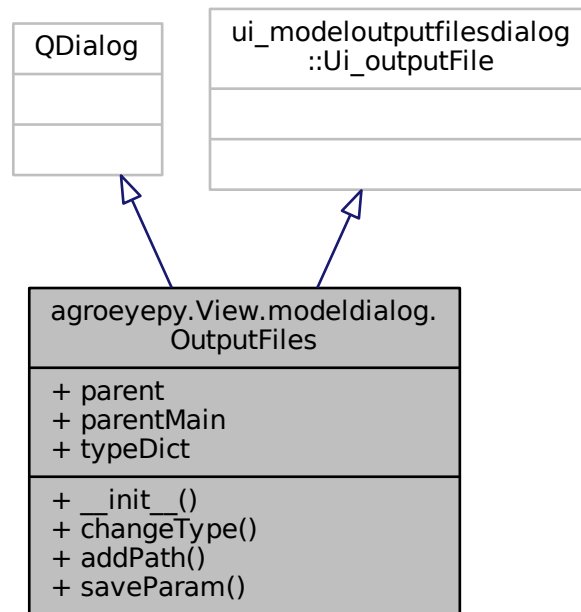
- `agroeyepy/Control/exceptionModel.py`

8.69 agroeyepy.View.modeldialog.OutputFiles Class Reference

Inheritance diagram for `agroeyepy.View.modeldialog.OutputFiles`:



Collaboration diagram for agroeyepy.View.modeldialog.OutputFiles:



Public Member Functions

- `def __init__ (self, parent)`
- `def changeType (self)`
- `def addPath (self)`
- `def saveParam (self)`

Public Attributes

- `parent`
- `parentMain`
- `typeDict`

8.69.1 Constructor & Destructor Documentation

8.69.1.1 __init__()

```

def agroeyepy.View.modeldialog.OutputFiles.__init__ (
    self,
    parent )
  
```

8.69.2 Member Function Documentation

8.69.2.1 addPath()

```
def agroeyepy.View.modeldialog.OutputFiles.addPath (  
    self )
```

8.69.2.2 changeType()

```
def agroeyepy.View.modeldialog.OutputFiles.changeType (  
    self )
```

8.69.2.3 saveParam()

```
def agroeyepy.View.modeldialog.OutputFiles.saveParam (  
    self )
```

8.69.3 Member Data Documentation

8.69.3.1 parent

```
agroeyepy.View.modeldialog.OutputFiles.parent
```

8.69.3.2 parentMain

```
agroeyepy.View.modeldialog.OutputFiles.parentMain
```

8.69.3.3 typeDict

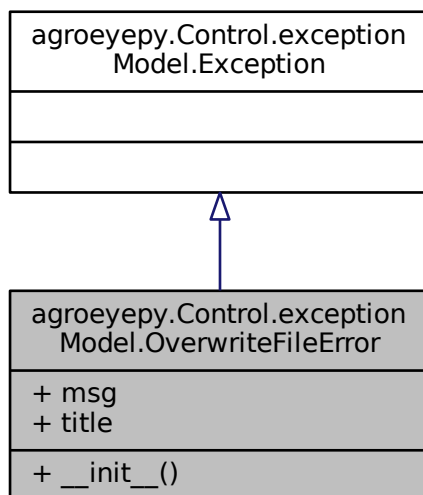
```
agroeyepy.View.modeldialog.OutputFiles.typeDict
```

The documentation for this class was generated from the following file:

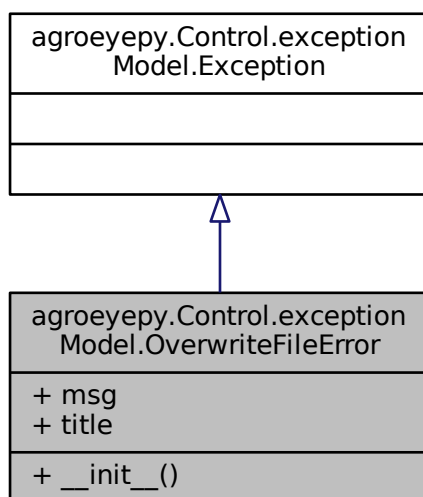
- [agroeyepy/View/modeldialog.py](#)

8.70 agroeyepy.Control.exceptionModel.OverwriteFileError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.OverwriteFileError:



Collaboration diagram for agroeyepy.Control.exceptionModel.OverwriteFileError:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- [msg](#)
- [title](#)

8.70.1 Constructor & Destructor Documentation

8.70.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.OverwriteFileError.__init__ (
    self )
```

8.70.2 Member Data Documentation

8.70.2.1 `msg`

```
agroeyepy.Control.exceptionModel.OverwriteFileError.msg
```

8.70.2.2 `title`

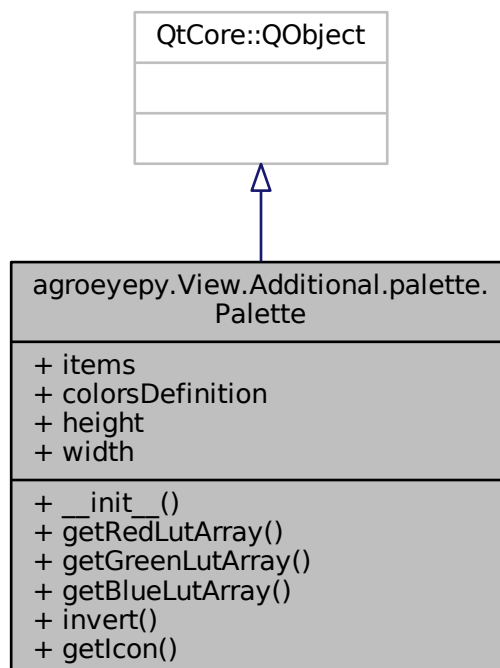
```
agroeyepy.Control.exceptionModel.OverwriteFileError.title
```

The documentation for this class was generated from the following file:

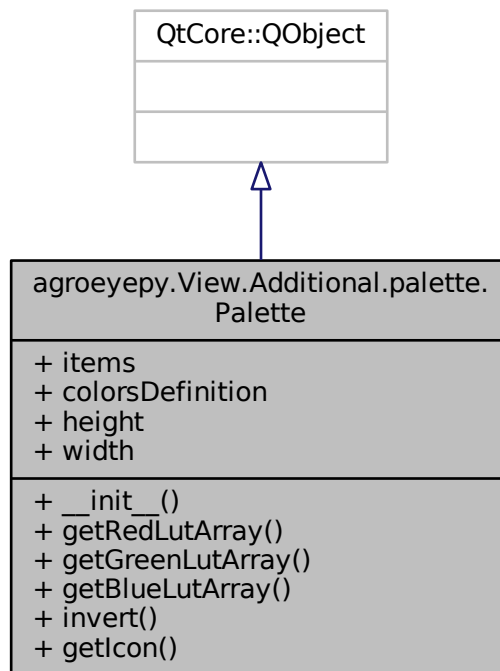
- [agroeyepy/Control/exceptionModel.py](#)

8.71 agroeyepy.View.Additional.palette.Palette Class Reference

Inheritance diagram for agroeyepy.View.Additional.palette.Palette:



Collaboration diagram for agroeyepy.View.Additional.palette.Palette:



Public Member Functions

- `def __init__ (self)`
- `def getRedLutArray (self, number)`
- `def getGreenLutArray (self, number)`
- `def getBlueLutArray (self, number)`
- `def invert (self, number)`
- `def getIcon (self, colorsList)`

Public Attributes

- [items](#)
- [colorsDefinition](#)
- [height](#)
- [width](#)

8.71.1 Constructor & Destructor Documentation

8.71.1.1 `__init__()`

```
def agroeyepy.View.Additional.palette.Palette.__init__ (
    self )
```


8.71.2 Member Function Documentation

8.71.2.1 getBlueLutArray()

```
def agroeyepy.View.Additional.palette.Palette.getBlueLutArray (
    self,
    number )
```

8.71.2.2 getGreenLutArray()

```
def agroeyepy.View.Additional.palette.Palette.getGreenLutArray (
    self,
    number )
```

8.71.2.3 getIcon()

```
def agroeyepy.View.Additional.palette.Palette.getIcon (
    self,
    colorsList )
```

8.71.2.4 getRedLutArray()

```
def agroeyepy.View.Additional.palette.Palette.getRedLutArray (
    self,
    number )
```

8.71.2.5 invert()

```
def agroeyepy.View.Additional.palette.Palette.invert (
    self,
    number )
```

8.71.3 Member Data Documentation

8.71.3.1 colorsDefinition

```
agroeyepy.View.Additional.palette.Palette.colorsDefinition
```

8.71.3.2 height

```
agroeyepy.View.Additional.palette.Palette.height
```

8.71.3.3 items

```
agroeyepy.View.Additional.palette.Palette.items
```

8.71.3.4 width

```
agroeyepy.View.Additional.palette.Palette.width
```

The documentation for this class was generated from the following file:

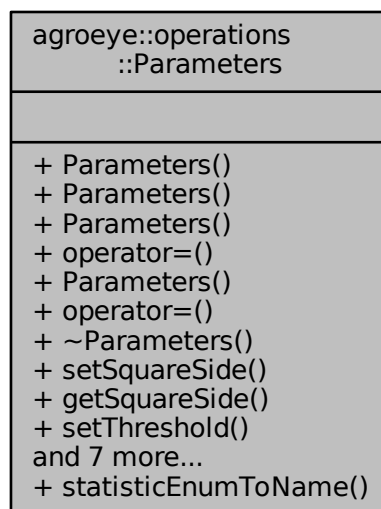
- [agroeyepy/View/Additional/palette.py](#)

8.72 agroeye::operations::Parameters Class Reference

Class encapsulating different segmentation parameters.

```
#include <SegmentationParameters.h>
```

Collaboration diagram for agroeye::operations::Parameters:



Public Member Functions

- [Parameters](#) ()
- [Parameters](#) ([BandsList](#) bands)
 - All given band will take part in segmentation and calucation statistics.*
- [Parameters](#) (const [Parameters](#) &other)=default
- [Parameters](#) & [operator=](#) (const [Parameters](#) &other)=default
- [Parameters](#) ([Parameters](#) &&other)=default
- [Parameters](#) & [operator=](#) ([Parameters](#) &&other)=default
- virtual [~Parameters](#) ()
- void [setSquareSide](#) (size_t side)
 - Sets square side in Chessboard segmentation.*

- `size_t` [getSquareSide](#) () const
- void [setThreshold](#) (double value)
Sets threshold value for quadtree segmentation.
- double [getThreshold](#) () const
- [BandsList](#) [getReadBands](#) () const
- [BandsList](#) [getSegmentationBands](#) () const
- [BandsList](#) [getStatisticsBands](#) () const
- [StatisticsList](#) [getStatsTypes](#) () const
- [StatisticsList](#) [getStatsToBand](#) (size_t band) const
Get statistics that have to be computed for given band.
- [BandsList](#) [getBandsToStat](#) ([StatisticsTypes](#) type) const
Get all bands for which given type of statistic is computed.

Static Public Member Functions

- static std::string [statisticEnumToName](#) (const [StatisticsTypes](#) type)
Convert statistic enum to string value.

8.72.1 Detailed Description

Class encapsulating different segmentation parameters.

8.72.2 Constructor & Destructor Documentation

8.72.2.1 Parameters() [1/4]

```
agroeye::operations::Parameters::Parameters ( ) [inline]
```

8.72.2.2 Parameters() [2/4]

```
agroeye::operations::Parameters::Parameters (
    BandsList bands )
```

All given band will take part in segmentation and calucation statistics.

Parameters

<i>bands</i>	Bands values

8.72.2.3 Parameters() [3/4]

```
agroeye::operations::Parameters::Parameters (
    const Parameters & other ) [default]
```

8.72.2.4 Parameters() [4 / 4]

```
agroeye::operations::Parameters::Parameters (
    Parameters && other ) [default]
```

8.72.2.5 ~Parameters()

```
virtual agroeye::operations::Parameters::~~Parameters ( ) [inline], [virtual]
```

8.72.3 Member Function Documentation

8.72.3.1 getBandsToStat()

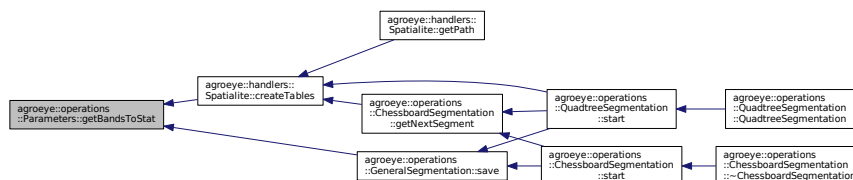
```
BandsList agroeye::operations::Parameters::getBandsToStat (
    StatisticsTypes type ) const
```

Get all bands for which given type of statistic is computed.

Parameters

type	Given statistic type

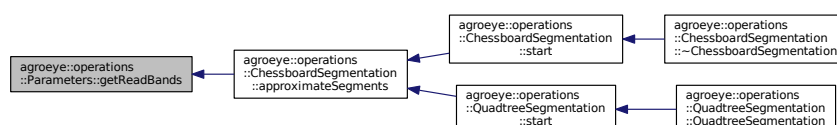
Here is the caller graph for this function:



8.72.3.2 getReadBands()

```
BandsList agroeye::operations::Parameters::getReadBands ( ) const
```

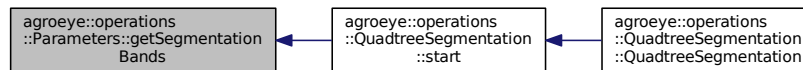
Get all bands that have to be read Here is the caller graph for this function:



8.72.3.3 getSegmentationBands()

```
BandsList agroeye::operations::Parameters::getSegmentationBands ( ) const
```

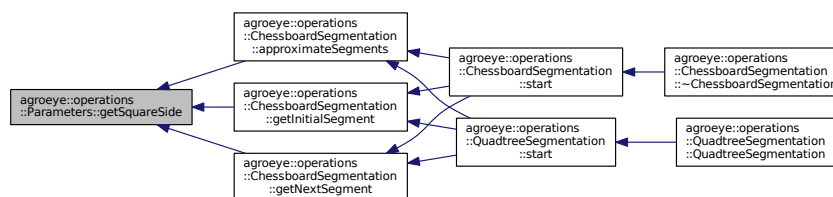
Get all bands paritcaptain in segmentation Here is the caller graph for this function:



8.72.3.4 getSquareSide()

```
size_t agroeye::operations::Parameters::getSquareSide ( ) const
```

Returns the side of square Here is the caller graph for this function:



8.72.3.5 getStatisticsBands()

```
BandsList agroeye::operations::Parameters::getStatisticsBands ( ) const
```

Get all bands that require counting statistics

8.72.3.6 getStatsToBand()

```
StatisticsList agroeye::operations::Parameters::getStatsToBand (
    size_t band ) const
```

Get statistics that have to be computed for given band.

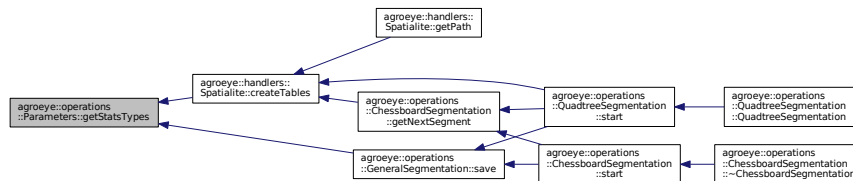
Parameters

<i>band</i>	Give band

8.72.3.7 getStatsTypes()

```
StatisticsList agroeye::operations::Parameters::getStatsTypes ( ) const
```

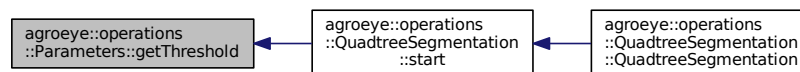
Get all type of statistic that have to be computed Here is the caller graph for this function:



8.72.3.8 getThreshold()

```
double agroeye::operations::Parameters::getThreshold ( ) const [inline]
```

Here is the caller graph for this function:



8.72.3.9 operator=() [1/2]

```
Parameters& agroeye::operations::Parameters::operator= (
    const Parameters & other ) [default]
```

8.72.3.10 operator=() [2/2]

```
Parameters& agroeye::operations::Parameters::operator= (
    Parameters && other ) [default]
```

8.72.3.11 setSquareSide()

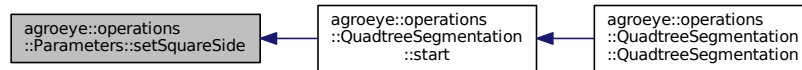
```
void agroeye::operations::Parameters::setSquareSide (
    size_t side )
```

Sets square side in Chessboard segmentation.

Parameters

<i>side</i>	Square side

Here is the caller graph for this function:



8.72.3.12 setThreshold()

```
void agroeye::operations::Parameters::setThreshold (
    double value ) [inline]
```

Sets threshold value for quadtree segmentation.

Parameters

<i>value</i>	Threshold value

8.72.3.13 statisticEnumToName()

```
std::string agroeye::operations::Parameters::statisticEnumToName (
    const StatisticsTypes type ) [static]
```

Convert statistic enum to string value.

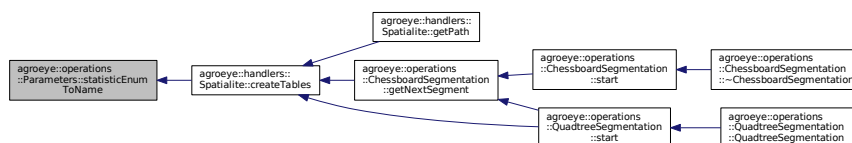
Parameters

<i>type</i>	Type of statistic

Returns

Corresponding text name

Here is the caller graph for this function:

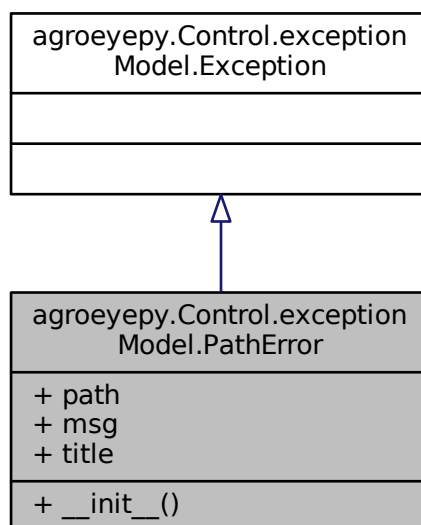


The documentation for this class was generated from the following files:

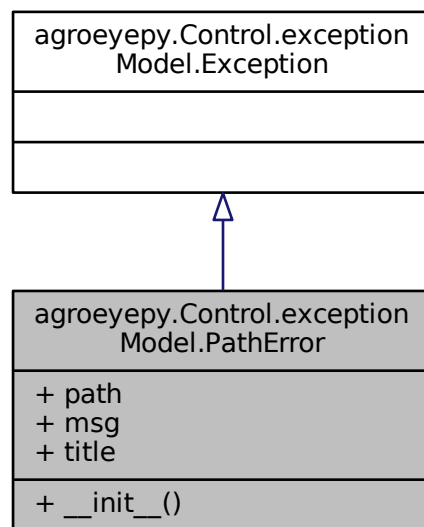
- [src/src/agroeyeye/operations/segmentation/SegmentationParameters.h](#)
- [src/src/agroeyeye/operations/segmentation/SegmentationParameters.cpp](#)

8.73 agroeyepy.Control.exceptionModel.PathError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.PathError:



Collaboration diagram for agroeyepy.Control.exceptionModel.PathError:



Public Member Functions

- `def __init__(self, path)`

Public Attributes

- [path](#)
- [msg](#)
- [title](#)

8.73.1 Constructor & Destructor Documentation

8.73.1.1 __init__()

```
def agroeyepy.Control.exceptionModel.PathError.__init__(
    self,
    path )
```

8.73.2 Member Data Documentation

8.73.2.1 msg

```
agroeyepy.Control.exceptionModel.PathError.msg
```

8.73.2.2 path

`agroeyepy.Control.exceptionModel.PathError.path`

8.73.2.3 title

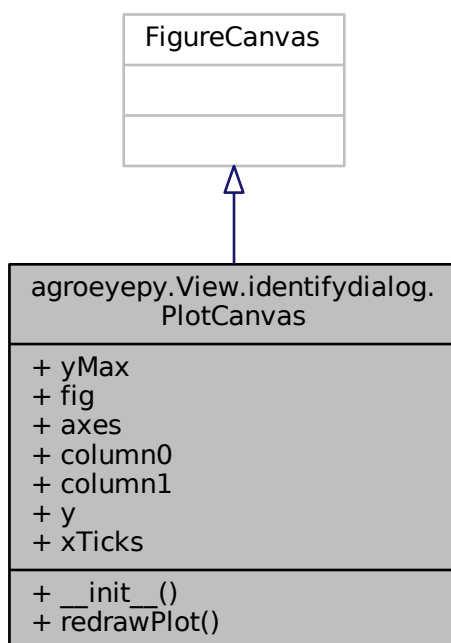
`agroeyepy.Control.exceptionModel.PathError.title`

The documentation for this class was generated from the following file:

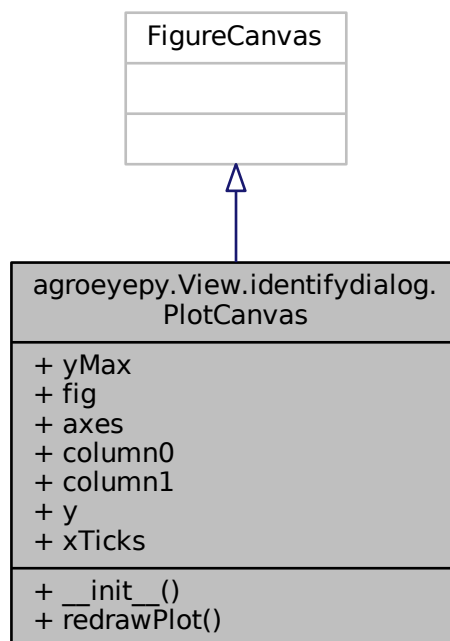
- `agroeyepy/Control/exceptionModel.py`

8.74 agroeyepy.View.identifydialog.PlotCanvas Class Reference

Inheritance diagram for `agroeyepy.View.identifydialog.PlotCanvas`:



Collaboration diagram for agroeyepy.View.identifydialog.PlotCanvas:



Public Member Functions

- `def __init__(self, initValues, dataRange)`
- `def redrawPlot(self, values)`

Public Attributes

- `yMax`
- `fig`
- `axes`
- `column0`
- `column1`
- `y`
- `xTicks`

8.74.1 Constructor & Destructor Documentation

8.74.1.1 __init__()

```

def agroeyepy.View.identifydialog.PlotCanvas.__init__(
    self,
    initValues,
    dataRange )
  
```

8.74.2 Member Function Documentation

8.74.2.1 redrawPlot()

```
def agroeyepy.View.identifydialog.PlotCanvas.redrawPlot (
    self,
    values )
```

8.74.3 Member Data Documentation

8.74.3.1 axes

```
agroeyepy.View.identifydialog.PlotCanvas.axes
```

8.74.3.2 column0

```
agroeyepy.View.identifydialog.PlotCanvas.column0
```

8.74.3.3 column1

```
agroeyepy.View.identifydialog.PlotCanvas.column1
```

8.74.3.4 fig

```
agroeyepy.View.identifydialog.PlotCanvas.fig
```

8.74.3.5 xTicks

```
agroeyepy.View.identifydialog.PlotCanvas.xTicks
```

8.74.3.6 y

```
agroeyepy.View.identifydialog.PlotCanvas.y
```

8.74.3.7 yMax

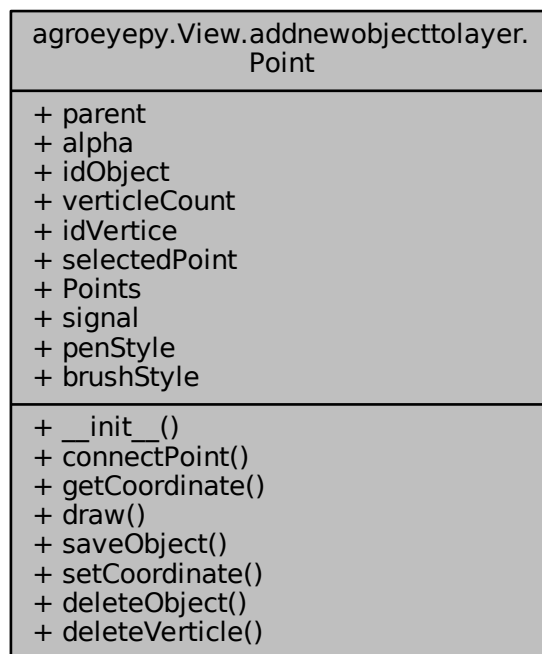
```
agroeyepy.View.identifydialog.PlotCanvas.yMax
```

The documentation for this class was generated from the following file:

- [agroeyepy/View/identifydialog.py](#)

8.75 agroeyepy.View.addnewobjecttolayer.Point Class Reference

Collaboration diagram for agroeyepy.View.addnewobjecttolayer.Point:



Public Member Functions

- def `__init__` (self, [parent](#))
- def [connectPoint](#) (self)
Emit signal for add point.
- def [getCoordinate](#) (self, event)
Add coordinates of point, coordinates are from mouse clicked on the QGraphicsView.
- def [draw](#) (self)
Draw all drawn points.
- def [saveObject](#) (self)
Save draw objects to shapefile.
- def [setCoordinate](#) (self)
Returns points coordinates as numpy array.
- def [deleteObject](#) (self, selectedRow, [signal](#), numVertices)
Delete object, from selected row.
- def [deleteVerticle](#) (self)
Delete verticle of object.

Public Attributes

- [parent](#)
- [alpha](#)
- [idObject](#)
- [verticleCount](#)
- [idVertice](#)
- [selectedPoint](#)

Save draw objects to shapefile.

- [Points](#)
- [signal](#)
- [penStyle](#)

Draw all drawn points.

- [brushStyle](#)

8.75.1 Constructor & Destructor Documentation

8.75.1.1 `__init__()`

```
def agroeyepy.View.addnewobjecttolayer.Point.__init__ (
    self,
    parent )
```

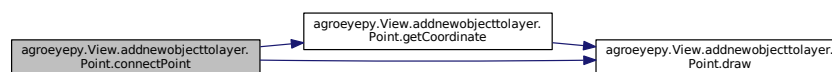
8.75.2 Member Function Documentation

8.75.2.1 `connectPoint()`

```
def agroeyepy.View.addnewobjecttolayer.Point.connectPoint (
    self )
```

Emit signal for add point.

Here is the call graph for this function:



8.75.2.2 `deleteObject()`

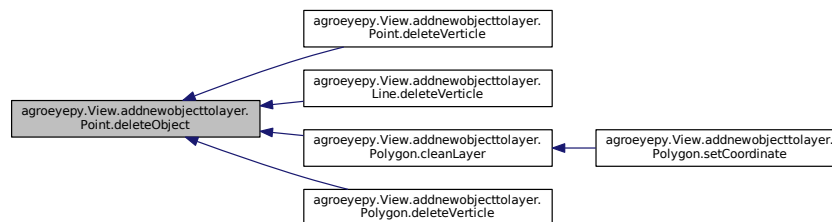
```
def agroeyepy.View.addnewobjecttolayer.Point.deleteObject (
    self,
    selectedRow,
    signal,
    numVertices )
```

Delete object, from selected row.

Parameters

<i>selectedRow</i>	index of selected row.
<i>signal</i>	signal to remove object.
<i>numVertices</i>	number of vertices.

Here is the caller graph for this function:



8.75.2.3 deleteVertex()

```
def agroeyepy.View.addnewobjecttolayer.Point.deleteVertex (
    self )
```

Delete verticle of object.

Here is the call graph for this function:

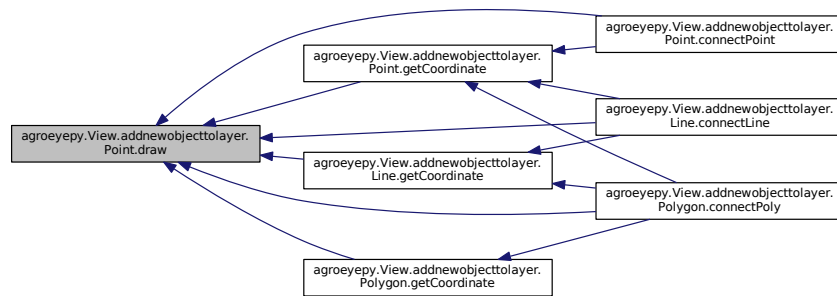


8.75.2.4 draw()

```
def agroeyepy.View.addnewobjecttolayer.Point.draw (
    self )
```

Draw all drawn points.

Here is the caller graph for this function:



8.75.2.5 getCoordinate()

```
def agroeyepy.View.addnewobjecttolayer.Point.getCoordinate (
    self,
    event )
```

Add coordinates of point, coordinates are from mouse clicked on the QGraphicsView.

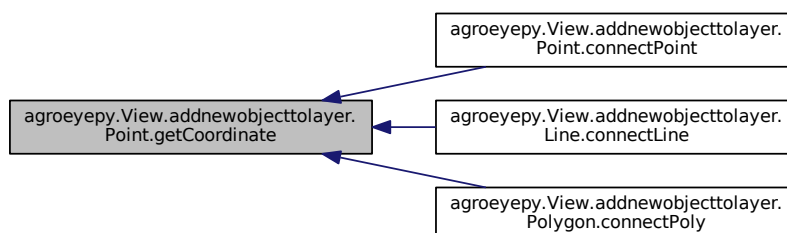
Parameters

<i>event</i>	Mouse click wheel triggers this event

Here is the call graph for this function:



Here is the caller graph for this function:



8.75.2.6 saveObject()

```
def agroeyepy.View.addnewobjecttolayer.Point.saveObject (
    self )
```

Save draw objects to shapefile.

8.75.2.7 setCoordinate()

```
def agroeyepy.View.addnewobjecttolayer.Point.setCoordinate (
    self )
```

Returns points coordinates as numpy array.

8.75.3 Member Data Documentation

8.75.3.1 alpha

```
agroeyepy.View.addnewobjecttolayer.Point.alpha
```

8.75.3.2 brushStyle

```
agroeyepy.View.addnewobjecttolayer.Point.brushStyle
```

8.75.3.3 idObject

```
agroeyepy.View.addnewobjecttolayer.Point.idObject
```

8.75.3.4 idVertice

```
agroeyepy.View.addnewobjecttolayer.Point.idVertice
```

8.75.3.5 parent

```
agroeyepy.View.addnewobjecttolayer.Point.parent
```

8.75.3.6 penStyle

```
agroeyepy.View.addnewobjecttolayer.Point.penStyle
```

Draw all drawn points.

8.75.3.7 Points

```
agroeyepy.View.addnewobjecttolayer.Point.Points
```

8.75.3.8 selectedPoint

```
def agroeyepy.View.addnewobjecttolayer.Point.selectedPoint
```

Save draw objects to shapefile.

Lists of all drawn points during creating shapefile.

Delete object, from selected row.

Parameters

<i>selectedRow</i>	index of selected row.
<i>signal</i>	signal to remove object.
<i>numVertices</i>	number of vertices.

8.75.3.9 signal

```
agroeyepy.View.addnewobjecttolayer.Point.signal
```

8.75.3.10 verticleCount

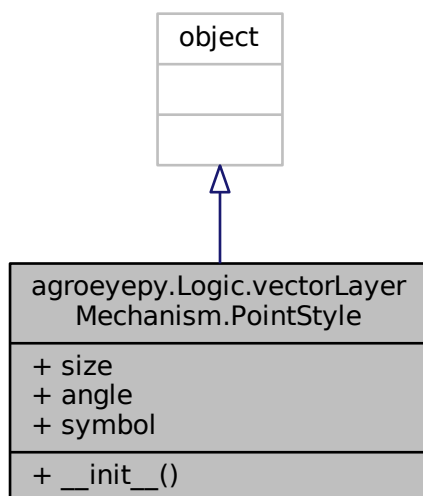
```
agroeyepy.View.addnewobjecttolayer.Point.verticleCount
```

The documentation for this class was generated from the following file:

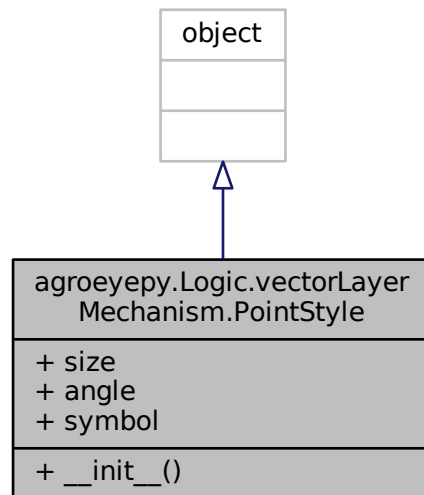
- [agroeyepy/View/addnewobjecttolayer.py](#)

8.76 agroeyepy.Logic.vectorLayerMechanism.PointStyle Class Reference

Inheritance diagram for agroeyepy.Logic.vectorLayerMechanism.PointStyle:



Collaboration diagram for agroeyepy.Logic.vectorLayerMechanism.PointStyle:



Public Member Functions

- `def __init__ (self, pointSize, angle=None, symbol=None)`

Public Attributes

- [size](#)
The size of point.
- [angle](#)
The angle of symbol.
- [symbol](#)
The symbol of point.

8.76.1 Constructor & Destructor Documentation

8.76.1.1 `__init__()`

```

def agroeyepy.Logic.vectorLayerMechanism.PointStyle.__init__ (
    self,
    pointSize,
    angle = None,
    symbol = None )
  
```

8.76.2 Member Data Documentation

8.76.2.1 angle

`agroeyepy.Logic.vectorLayerMechanism.PointStyle.angle`

The angle of symbol.

8.76.2.2 size

`agroeyepy.Logic.vectorLayerMechanism.PointStyle.size`

The size of point.

8.76.2.3 symbol

`agroeyepy.Logic.vectorLayerMechanism.PointStyle.symbol`

The symbol of point.

The documentation for this class was generated from the following file:

- `agroeyepy/Logic/vectorLayerMechanism.py`

8.77 agroeyepy.View.addnewobjecttolayer.Polygon Class Reference

Collaboration diagram for agroeyepy.View.addnewobjecttolayer.Polygon:

agroeyepy.View.addnewobjecttolayer. Polygon
+ parent + alpha + idObject + verticleCount + idVertice + selectedPoly + Polygons + signal + penStyle + brushStyle
+ __init__() + connectPoly() + getCoordinate() + draw() + addCoordToTable() + checkPolygonIsValid() + saveObject() + setCoordinate() + cleanLayer() + saveObject() + deleteVerticle() + deleteObject() + newDraw()

Public Member Functions

- def [__init__](#) (self, [parent](#))
- def [connectPoly](#) (self)
 - Emit signal for add polygon.*
- def [getCoordinate](#) (self, event)
 - Add coordinates of polygon, coordinates are from mouse clicked on the QGraphicsView.*
- def [draw](#) (self)
 - Draw all drawn polygons.*
- def [addCoordToTable](#) (self, x, y)
- def [checkPolygonIsValid](#) (self, polNew)
 - Checks if the polygon is valid.*
- def [saveObject](#) (self)
 - Save drawn object as Shapefile.*
- def [setCoordinate](#) (self)
 - Returns points coordinates as numpy array.*

- def `cleanLayer` (self)
- def `saveObject` (self)
- def `deleteVertice` (self)
Delete verticle of object.
- def `deleteObject` (self, selectedRow, `signal`, numVertices)
Delete object, from selected row.
- def `newDraw` (self)
Redraw polygons.

Public Attributes

- `parent`
- `alpha`
- `idObject`
- `verticleCount`
- `idVertice`
- `selectedPoly`
Save drawn object as Shapefile.
- `Polygons`
- `signal`
- `penStyle`
Draw all drawn polygons.
- `brushStyle`

8.77.1 Constructor & Destructor Documentation

8.77.1.1 `__init__()`

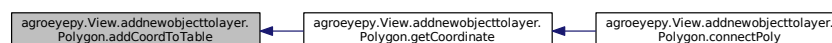
```
def agroeyepy.View.addnewobjecttolayer.Polygon.__init__ (
    self,
    parent )
```

8.77.2 Member Function Documentation

8.77.2.1 `addCoordToTable()`

```
def agroeyepy.View.addnewobjecttolayer.Polygon.addCoordToTable (
    self,
    x,
    y )
```

Here is the caller graph for this function:



8.77.2.2 checkPolygonIsValid()

```
def agroeyepy.View.addnewobjecttolayer.Polygon.checkPolygonIsValid (
    self,
    polNew )
```

Checks if the polygon is valid.

Returns True if polygon is valid, False if not valid.

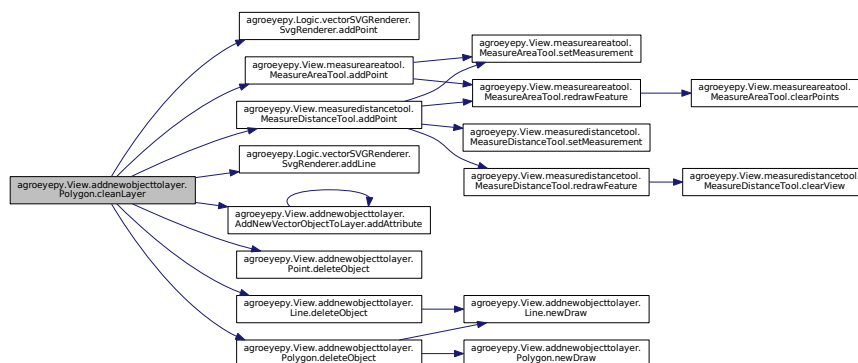
Parameters

<i>polNew</i>	list of coordinates of new polygon.

8.77.2.3 cleanLayer()

```
def agroeyepy.View.addnewobjecttolayer.Polygon.cleanLayer (
    self )
```

Here is the call graph for this function:



Here is the caller graph for this function:

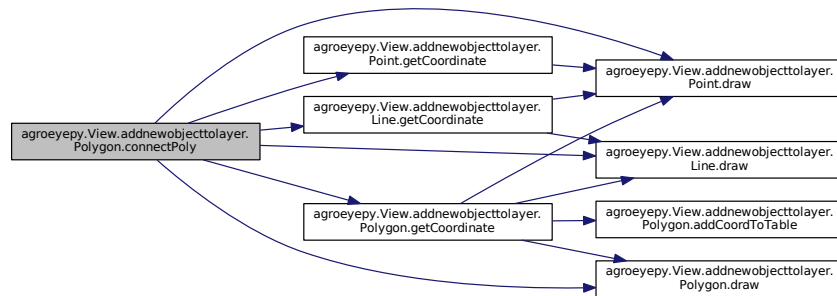


8.77.2.4 connectPoly()

```
def agroeyepy.View.addnewobjecttolayer.Polygon.connectPoly (
    self )
```

Emit signal for add polygon.

Here is the call graph for this function:



8.77.2.5 deleteObject()

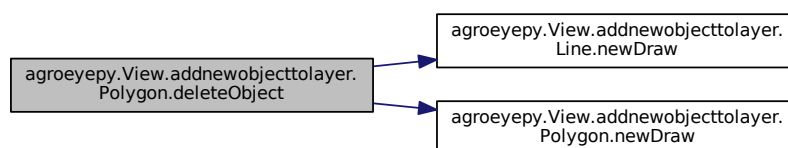
```
def agroeyepy.View.addnewobjecttolayer.Polygon.deleteObject (
    self,
    selectedRow,
    signal,
    numVertices )
```

Delete object, from selected row.

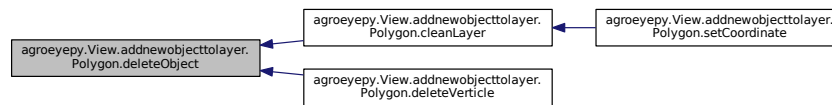
Parameters

<i>selectedRow</i>	index of selected row.
<i>signal</i>	signal to remove object.
<i>numVertices</i>	number of vertices.

Here is the call graph for this function:



Here is the caller graph for this function:

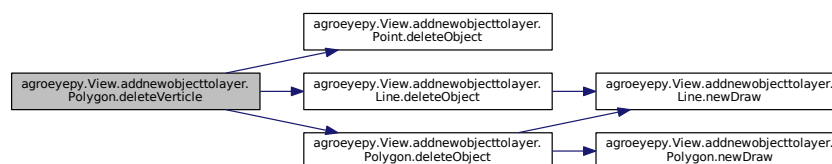


8.77.2.6 deleteVertex()

```
def agroeyepy.View.addnewobjecttolayer.Polygon.deleteVertex (
    self )
```

Delete verticle of object.

Here is the call graph for this function:



8.77.2.7 draw()

```
def agroeyepy.View.addnewobjecttolayer.Polygon.draw (
    self )
```

Draw all drawn polygons.

Here is the caller graph for this function:



8.77.2.8 getCoordinate()

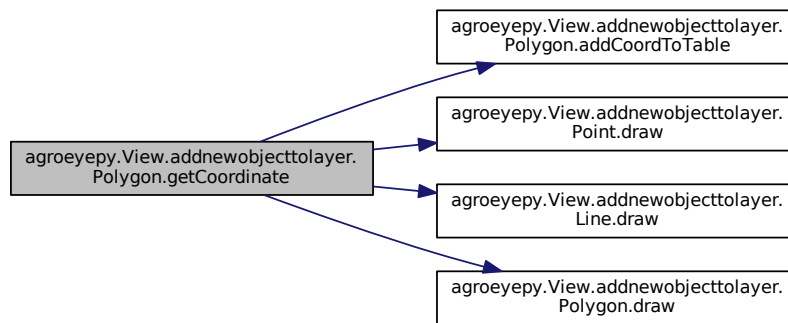
```
def agroeyepy.View.addnewobjecttolayer.Polygon.getCoordinate (
    self,
    event )
```

Add coordinates of polygon, coordinates are from mouse clicked on the QGraphicsView.

Parameters

<i>event</i>	Mouse click wheel triggers this event

Here is the call graph for this function:



Here is the caller graph for this function:

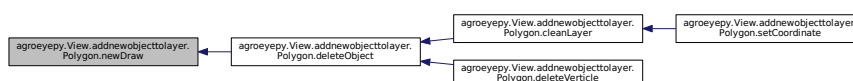


8.77.2.9 newDraw()

```
def agroeyepy.View.addnewobjecttolayer.Polygon.newDraw (
    self )
```

Redraw polygons.

Here is the caller graph for this function:

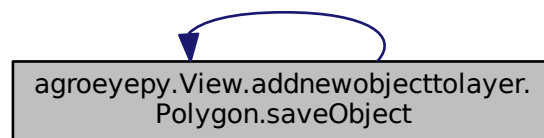


8.77.2.10 saveObject() [1/2]

```
def agroeyepy.View.addnewobjecttolayer.Polygon.saveObject (
    self )
```

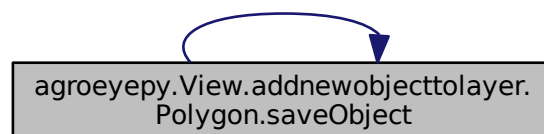
Save drawn object as Shapefile.

Here is the caller graph for this function:

**8.77.2.11 saveObject()** [2/2]

```
def agroeyepy.View.addnewobjecttolayer.Polygon.saveObject (
    self )
```

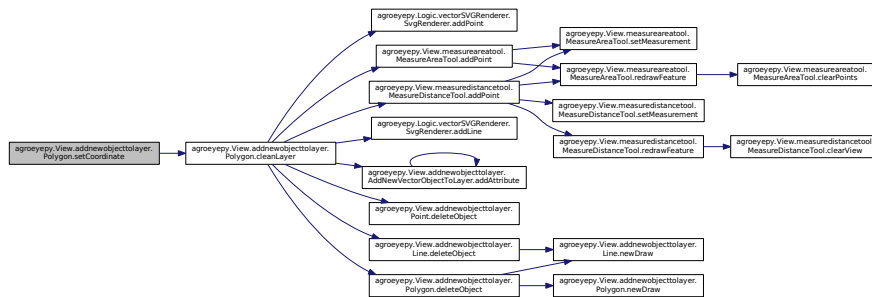
Here is the call graph for this function:

**8.77.2.12 setCoordinate()**

```
def agroeyepy.View.addnewobjecttolayer.Polygon.setCoordinate (
    self )
```

Returns points coordinates as numpy array.

Here is the call graph for this function:



8.77.3 Member Data Documentation

8.77.3.1 alpha

`agroeyepy.View.addnewobjecttolayer.Polygon.alpha`

8.77.3.2 brushStyle

`agroeyepy.View.addnewobjecttolayer.Polygon.brushStyle`

8.77.3.3 idObject

`agroeyepy.View.addnewobjecttolayer.Polygon.idObject`

8.77.3.4 idVertice

`agroeyepy.View.addnewobjecttolayer.Polygon.idVertice`

8.77.3.5 parent

`agroeyepy.View.addnewobjecttolayer.Polygon.parent`

8.77.3.6 penStyle

`agroeyepy.View.addnewobjecttolayer.Polygon.penStyle`

Draw all drawn polygons.

8.77.3.7 Polygons

`agroeyepy.View.addnewobjecttolayer.Polygon.Polygons`

8.77.3.8 selectedPoly

`def agroeyepy.View.addnewobjecttolayer.Polygon.selectedPoly`

Save drawn object as Shapefile.

Lists of all drawn polygons during creating shapefile.

Delete object, from selected row.

Parameters

<i>selectedRow</i>	index of selected row.
<i>signal</i>	signal to remove object.
<i>numVertices</i>	number of vertices.

8.77.3.9 signal

agroeyepy.View.addnewobjecttolayer.Polygon.signal

8.77.3.10 verticleCount

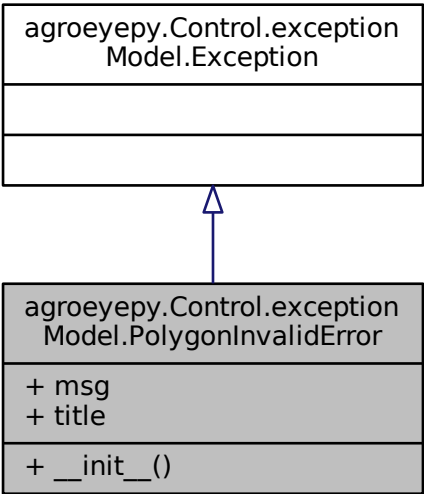
agroeyepy.View.addnewobjecttolayer.Polygon.verticleCount

The documentation for this class was generated from the following file:

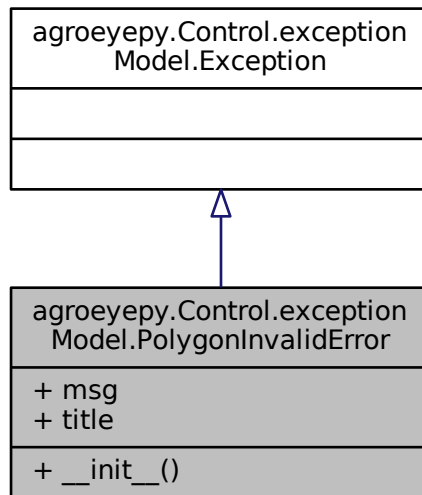
- agroeyepy/View/[addnewobjecttolayer.py](#)

8.78 agroeyepy.Control.exceptionModel.PolygonInvalidError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.PolygonInvalidError:



Collaboration diagram for `agroeyepy.Control.exceptionModel.PolygonInvalidError`:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- `msg`
- `title`

8.78.1 Constructor & Destructor Documentation

8.78.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.PolygonInvalidError.__init__(  
    self )
```

8.78.2 Member Data Documentation

8.78.2.1 `msg`

```
agroeyepy.Control.exceptionModel.PolygonInvalidError.msg
```

8.78.2.2 title

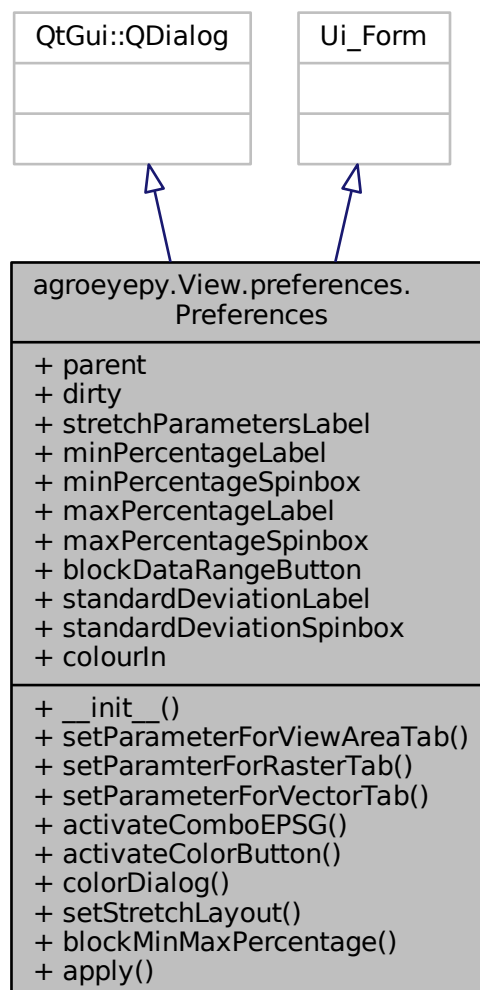
```
agroeyepy.Control.exceptionModel.PolygonInvalidError.title
```

The documentation for this class was generated from the following file:

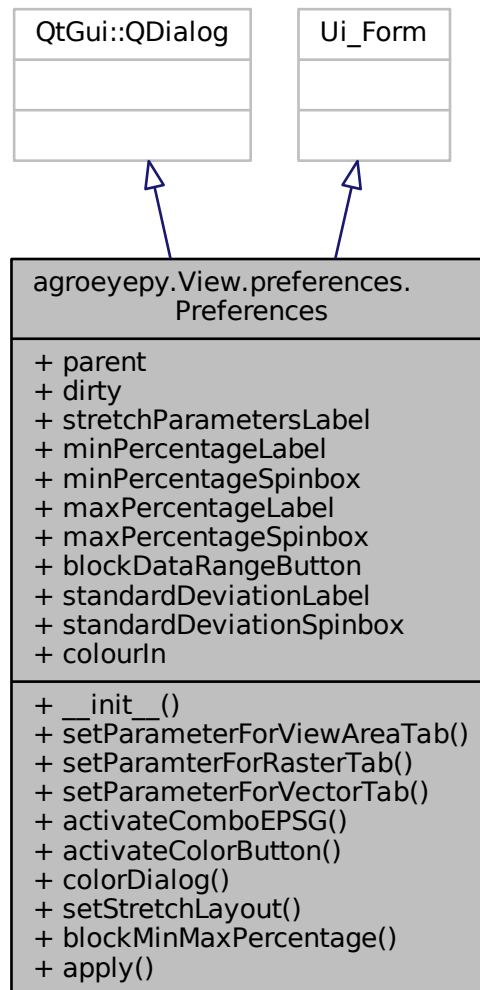
- [agroeyepy/Control/exceptionModel.py](#)

8.79 agroeyepy.View.preferences.Preferences Class Reference

Inheritance diagram for agroeyepy.View.preferences.Preferences:



Collaboration diagram for `agroeyepy.View.preferences.Preferences`:



Public Member Functions

- `def \_\_init\_\_ (self, parent=None)`
- `def setParameterForViewAreaTab (self)`
- `def setParamterForRasterTab (self)`
- `def setParameterForVectorTab (self)`
- `def activateComboEPSG (self, isActivated)`
- `def activateColorButton (self, isActivated)`
- `def colorDialog (self)`
- `def setStretchLayout (self, index)`
- `def blockMinMaxPercentage (self, block)`
- `def apply (self)`

Public Attributes

- [parent](#)
- [dirty](#)
- [stretchParametersLabel](#)
- [minPercentageLabel](#)
- [minPercentageSpinbox](#)
- [maxPercentageLabel](#)
- [maxPercentageSpinbox](#)
- [blockDataRangeButton](#)
- [standardDeviationLabel](#)
- [standardDeviationSpinbox](#)
- [colourIn](#)

8.79.1 Constructor & Destructor Documentation

8.79.1.1 `__init__()`

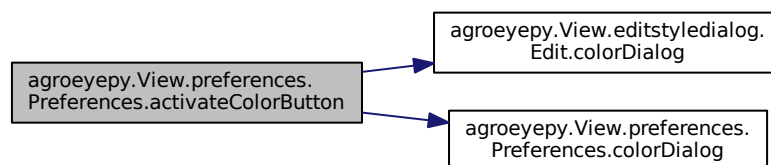
```
def agroeyepy.View.preferences.Preferences.__init__ (
    self,
    parent = None )
```

8.79.2 Member Function Documentation

8.79.2.1 `activateColorButton()`

```
def agroeyepy.View.preferences.Preferences.activateColorButton (
    self,
    isActivated )
```

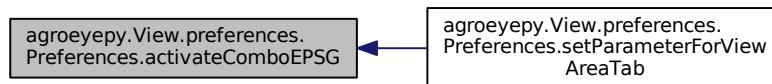
Here is the call graph for this function:



8.79.2.2 activateComboEPSG()

```
def agroeyepy.View.preferences.Preferences.activateComboEPSG (
    self,
    isActivated )
```

Here is the caller graph for this function:



8.79.2.3 apply()

```
def agroeyepy.View.preferences.Preferences.apply (
    self )
```

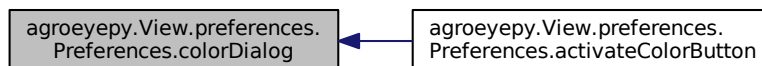
8.79.2.4 blockMinMaxPercentage()

```
def agroeyepy.View.preferences.Preferences.blockMinMaxPercentage (
    self,
    block )
```

8.79.2.5 colorDialog()

```
def agroeyepy.View.preferences.Preferences.colorDialog (
    self )
```

Here is the caller graph for this function:



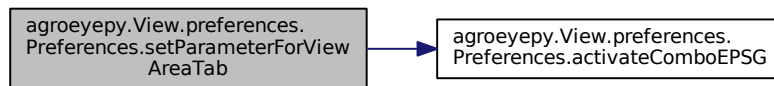
8.79.2.6 setParameterForVectorTab()

```
def agroeyepy.View.preferences.Preferences.setParameterForVectorTab (
    self )
```

8.79.2.7 setParameterForViewAreaTab()

```
def agroeyepy.View.preferences.Preferences.setParameterForViewAreaTab (
    self )
```

Here is the call graph for this function:

**8.79.2.8 setParamterForRasterTab()**

```
def agroeyepy.View.preferences.Preferences.setParamterForRasterTab (
    self )
```

8.79.2.9 setStretchLayout()

```
def agroeyepy.View.preferences.Preferences.setStretchLayout (
    self,
    index )
```

8.79.3 Member Data Documentation**8.79.3.1 blockDataRangeButton**

```
agroeyepy.View.preferences.Preferences.blockDataRangeButton
```

8.79.3.2 colourIn

```
agroeyepy.View.preferences.Preferences.colourIn
```

8.79.3.3 dirty

```
agroeyepy.View.preferences.Preferences.dirty
```

8.79.3.4 maxPercentageLabel

```
agroeyepy.View.preferences.Preferences.maxPercentageLabel
```

8.79.3.5 maxPercentageSpinbox

`agroeyepy.View.preferences.Preferences.maxPercentageSpinbox`

8.79.3.6 minPercentageLabel

`agroeyepy.View.preferences.Preferences.minPercentageLabel`

8.79.3.7 minPercentageSpinbox

`agroeyepy.View.preferences.Preferences.minPercentageSpinbox`

8.79.3.8 parent

`agroeyepy.View.preferences.Preferences.parent`

8.79.3.9 standardDeviationLabel

`agroeyepy.View.preferences.Preferences.standardDeviationLabel`

8.79.3.10 standardDeviationSpinbox

`agroeyepy.View.preferences.Preferences.standardDeviationSpinbox`

8.79.3.11 stretchParametersLabel

`agroeyepy.View.preferences.Preferences.stretchParametersLabel`

The documentation for this class was generated from the following file:

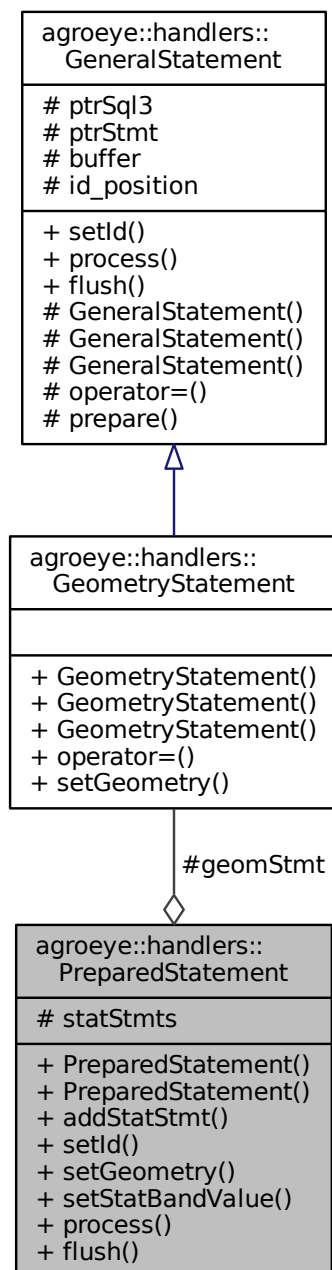
- [agroeyepy/View/preferences.py](#)

8.80 agroeye::handlers::PreparedStatement Class Reference

Class encapsulating group of statements.

```
#include <DatabaseStatements.h>
```

Collaboration diagram for agroeye::handlers::PreparedStatement:



Public Member Functions

- [PreparedStatement](#) ()
- [PreparedStatement](#) ([GeometryStatement](#) &&aGeomStmt)
Constructor if there is geoemtry statment.
- void [addStatStmt](#) (const StatisticsTypes &type, [StatisticStatement](#) &&statStmt)
Adds statistic statment to the group of statements.
- void [setId](#) (uint32_t id)
Sets id for all inserting objects.
- void [setGeometry](#) ([SpatialiteBlobWkb](#) &&blob)
Adds geometry representation of objects.
- void [setStatBandValue](#) (const StatisticsTypes &type, const int &band, const double &value)
Sets statistic value to the corresponding band and statistic attribute.
- void [process](#) ()
- void [flush](#) ()

Protected Attributes

- [GeometryStatement](#) geomStmt
- std::vector< std::pair< StatisticsTypes, [StatisticStatement](#) > > statStmts

8.80.1 Detailed Description

Class encapsulating group of statements.

Class contains all statements that are executed after every iteration of segmentation algorithm

8.80.2 Constructor & Destructor Documentation

8.80.2.1 [PreparedStatement](#)() [1/2]

```
agroeey::handlers::PreparedStatement::PreparedStatement ( ) [inline]
```

8.80.2.2 [PreparedStatement](#)() [2/2]

```
agroeey::handlers::PreparedStatement::PreparedStatement (
    GeometryStatement && aGeomStmt ) [inline]
```

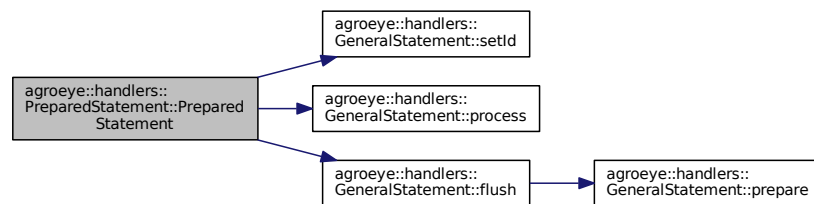
Constructor if there is geoemtry statment.

If there is no geometry statement

Parameters

<i>aGeomStmt</i>	Geoemtry statement.

Here is the call graph for this function:



8.80.3 Member Function Documentation

8.80.3.1 addStatStmt()

```
void agroeye::handlers::PreparedStatement::addStatStmt (
    const StatisticsTypes & type,
    StatisticStatement && statStmt )
```

Adds statistic statment to the group of statements.

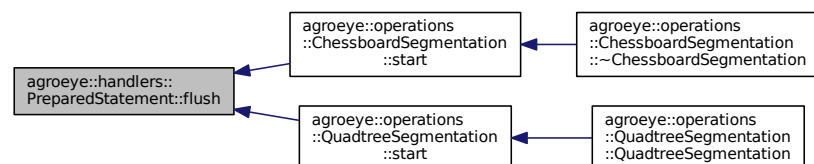
Parameters

<i>statStmt</i>	Statistic statement

8.80.3.2 flush()

```
void agroeye::handlers::PreparedStatement::flush ( )
```

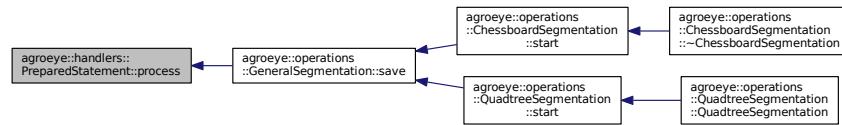
Flushes all grouped statements Here is the caller graph for this function:



8.80.3.3 process()

```
void agroeye::handlers::PreparedStatement::process ( )
```

Process with set values for all grouped statements Here is the caller graph for this function:



8.80.3.4 setGeometry()

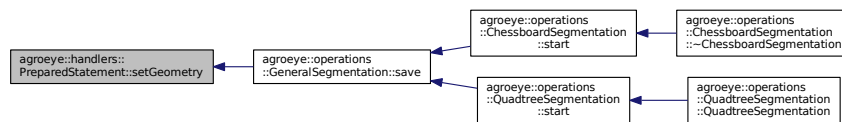
```
void agroeye::handlers::PreparedStatement::setGeometry (
    SpatialiteBlobWkb && blob )
```

Adds geometry representation of objects.

Parameters

<i>blob</i>	The binary representation of object

Here is the caller graph for this function:



8.80.3.5 setId()

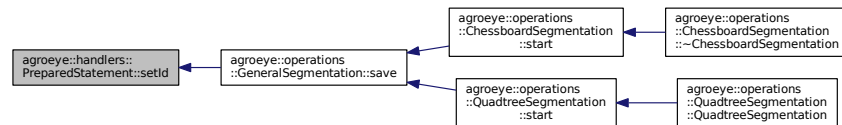
```
void agroeye::handlers::PreparedStatement::setId (
    uint32_t id )
```

Sets id for all inserting objects.

Parameters

<i>id</i>	The id value

Here is the caller graph for this function:



8.80.3.6 setStatBandValue()

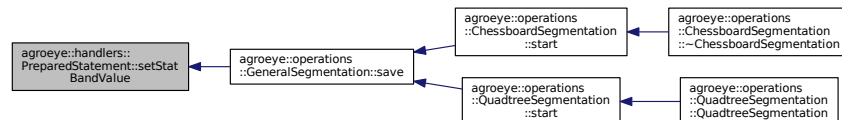
```
void agroeye::handlers::PreparedStatement::setStatBandValue (
    const StatisticsTypes & type,
    const int & band,
    const double & value )
```

Sets statistic value to the corresponding band and statistic attribute.

Parameters

<i>type</i>	Type of insertin statistic
<i>band</i>	Band with calculated statistic
<i>value</i>	Value to be added

Here is the caller graph for this function:



8.80.4 Member Data Documentation

8.80.4.1 geomStmt

`GeometryStatement` agroeye::handlers::PreparedStatement::geomStmt [protected]

8.80.4.2 statStmts

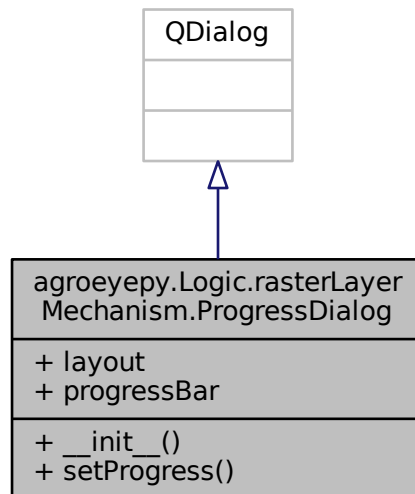
`std::vector<std::pair<StatisticsTypes, StatisticStatement>>` agroeye::handlers::PreparedStatement::statStmts [protected]

The documentation for this class was generated from the following files:

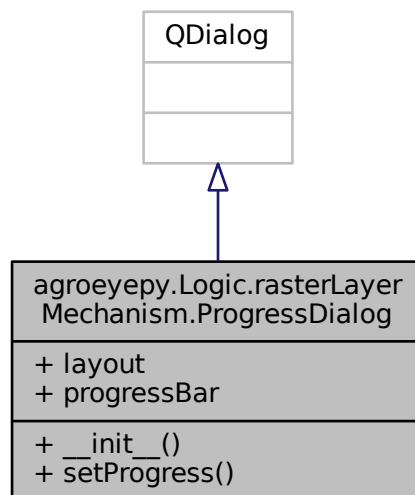
- src/src/agroeye/handlers/Database/[DatabaseStatements.h](#)
- src/src/agroeye/handlers/Database/[DatabaseStatements.cpp](#)

8.81 agroeyepy.Logic.rasterLayerMechanism.ProgressDialog Class Reference

Inheritance diagram for agroeyepy.Logic.rasterLayerMechanism.ProgressDialog:



Collaboration diagram for agroeyepy.Logic.rasterLayerMechanism.ProgressDialog:



Public Member Functions

- def `__init__` (self, parent=None, name=None)
- def `setProgress` (self, progress, message, data)

Public Attributes

- [layout](#)
- [progressBar](#)

8.81.1 Constructor & Destructor Documentation

8.81.1.1 `__init__()`

```
def agroeyepy.Logic.rasterLayerMechanism.ProgressDialog.__init__ (
    self,
    parent = None,
    name = None )
```

8.81.2 Member Function Documentation

8.81.2.1 `setProgress()`

```
def agroeyepy.Logic.rasterLayerMechanism.ProgressDialog.setProgress (
    self,
    progress,
    message,
    data )
```

8.81.3 Member Data Documentation

8.81.3.1 `layout`

`agroeyepy.Logic.rasterLayerMechanism.ProgressDialog.layout`

8.81.3.2 `progressBar`

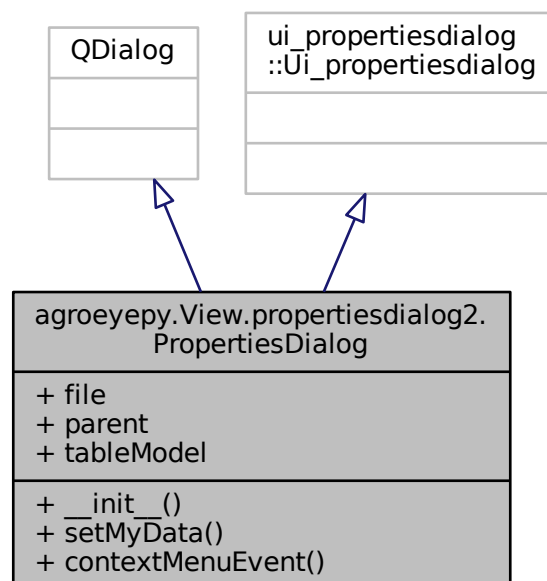
`agroeyepy.Logic.rasterLayerMechanism.ProgressDialog.progressBar`

The documentation for this class was generated from the following file:

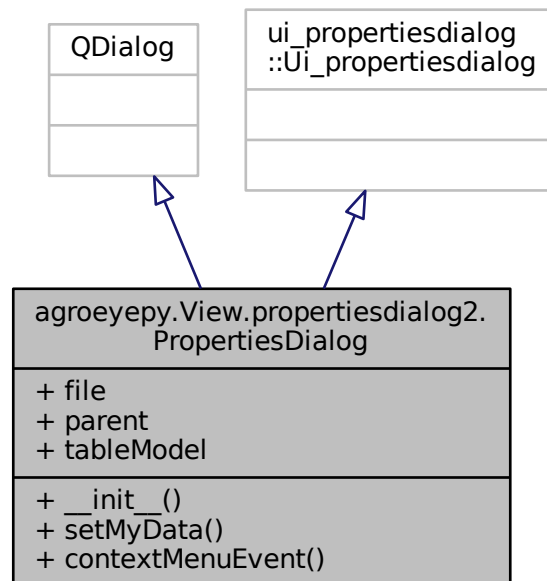
- `agroeyepy/Logic/rasterLayerMechanism.py`

8.82 agroeyepy.View.propertiesdialog2.PropertiesDialog Class Reference

Inheritance diagram for agroeyepy.View.propertiesdialog2.PropertiesDialog:



Collaboration diagram for agroeyepy.View.propertiesdialog2.PropertiesDialog:



Public Member Functions

- `def __init__(self, parent, file)`
- `def setMyData(self)`
- `def contextMenuEvent(self, event)`

Public Attributes

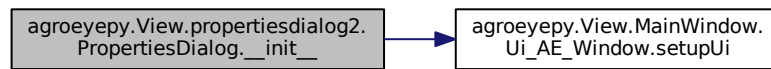
- `file`
- `parent`
- `tableModel`

8.82.1 Constructor & Destructor Documentation

8.82.1.1 __init__()

```
def agroeyepy.View.propertiesdialog2.PropertiesDialog.__init__(
    self,
    parent,
    file )
```

Here is the call graph for this function:



8.82.2 Member Function Documentation

8.82.2.1 contextMenuEvent()

```
def agroeyepy.View.propertiesdialog2.PropertiesDialog.contextMenuEvent (
    self,
    event )
```

8.82.2.2 setMyData()

```
def agroeyepy.View.propertiesdialog2.PropertiesDialog.setMyData (
    self )
```

8.82.3 Member Data Documentation

8.82.3.1 file

```
agroeyepy.View.propertiesdialog2.PropertiesDialog.file
```

8.82.3.2 parent

```
agroeyepy.View.propertiesdialog2.PropertiesDialog.parent
```

8.82.3.3 tableModel

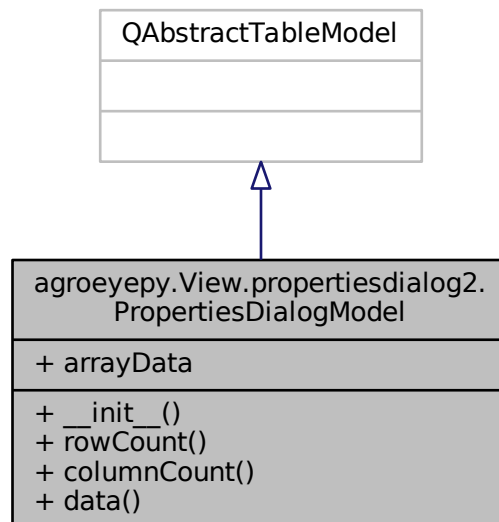
```
agroeyepy.View.propertiesdialog2.PropertiesDialog.tableModel
```

The documentation for this class was generated from the following file:

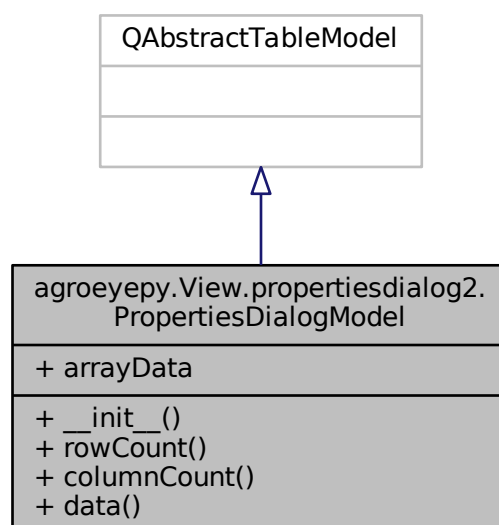
- [agroeyepy/View/propertiesdialog2.py](#)

8.83 agroeyepy.View.propertiesdialog2.PropertiesDialogModel Class Reference

Inheritance diagram for agroeyepy.View.propertiesdialog2.PropertiesDialogModel:



Collaboration diagram for agroeyepy.View.propertiesdialog2.PropertiesDialogModel:



Public Member Functions

- `def \_\_init\_\_ (self, datain, parent=None, args)`
- `def rowCount (self, parent)`
- `def columnCount (self, parent)`
- `def data (self, index, role)`

Public Attributes

- `arrayData`

8.83.1 Constructor & Destructor Documentation

8.83.1.1 `__init__()`

```
def agroeyepy.View.propertiesdialog2.PropertiesDialogModel.__init__ (  
    self,  
    datain,  
    parent = None,  
    args )
```

8.83.2 Member Function Documentation

8.83.2.1 `columnCount()`

```
def agroeyepy.View.propertiesdialog2.PropertiesDialogModel.columnCount (  
    self,  
    parent )
```

8.83.2.2 `data()`

```
def agroeyepy.View.propertiesdialog2.PropertiesDialogModel.data (  
    self,  
    index,  
    role )
```

8.83.2.3 `rowCount()`

```
def agroeyepy.View.propertiesdialog2.PropertiesDialogModel.rowCount (  
    self,  
    parent )
```


8.83.3 Member Data Documentation

8.83.3.1 arrayData

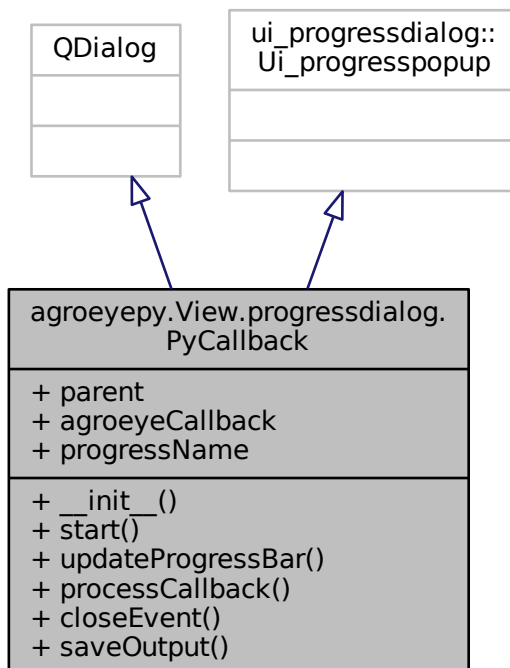
`agroeyepy.View.propertiesdialog2.PropertiesDialogModel.arrayData`

The documentation for this class was generated from the following file:

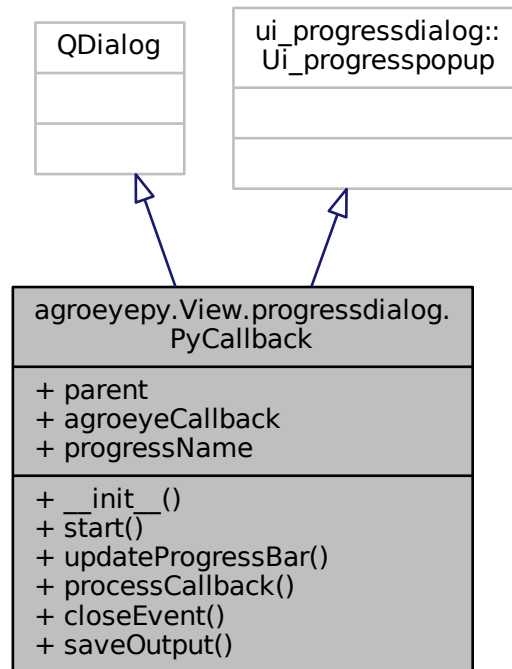
- `agroeyepy/View/propertiesdialog2.py`

8.84 agroeyepy.View.progressdialog.PyCallback Class Reference

Inheritance diagram for `agroeyepy.View.progressdialog.PyCallback`:



Collaboration diagram for `agroeyepy.View.progressdialog.PyCallback`:



Public Member Functions

- `def __init__ (self, parent=None, progressName=None)`

Callback Progress dialog box.

- `def start (self)`
- `def updateProgressBar (self)`
- `def processCallback (self)`
- `def closeEvent (self, event)`
- `def saveOutput (self)`

Save messages from output info.

Public Attributes

- `parent`
- `agroeyeCallback`
- `progressName`

8.84.1 Constructor & Destructor Documentation

8.84.1.1 `__init__()`

```
def agroeyepy.View.progressdialog.PyCallback.__init__ (
    self,
    parent = None,
    progressName = None )
```

Callback Progress dialog box.

8.84.2 Member Function Documentation

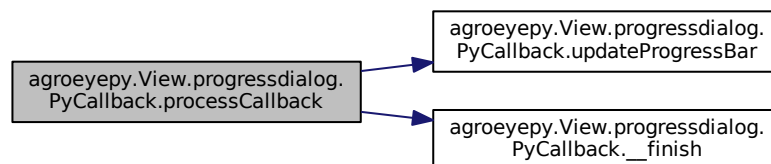
8.84.2.1 `closeEvent()`

```
def agroeyepy.View.progressdialog.PyCallback.closeEvent (
    self,
    event )
```

8.84.2.2 `processCallback()`

```
def agroeyepy.View.progressdialog.PyCallback.processCallback (
    self )
```

Here is the call graph for this function:



8.84.2.3 `saveOutput()`

```
def agroeyepy.View.progressdialog.PyCallback.saveOutput (
    self )
```

Save messages from output info.

8.84.2.4 `start()`

```
def agroeyepy.View.progressdialog.PyCallback.start (
    self )
```

8.84.2.5 updateProgressBar()

```
def agroeyepy.View.progressdialog.PyCallback.updateProgressBar (
    self )
```

Here is the caller graph for this function:



8.84.3 Member Data Documentation

8.84.3.1 agroeyeCallback

```
agroeyepy.View.progressdialog.PyCallback.agroeyeCallback
```

8.84.3.2 parent

```
agroeyepy.View.progressdialog.PyCallback.parent
```

8.84.3.3 progressName

```
agroeyepy.View.progressdialog.PyCallback.progressName
```

The documentation for this class was generated from the following file:

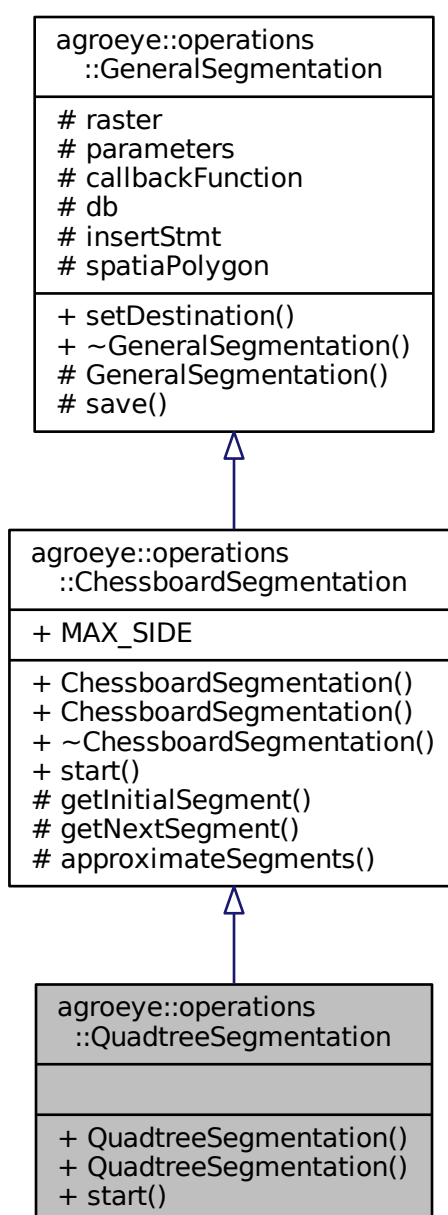
- [agroeyepy/View/progressdialog.py](#)

8.85 agroeye::operations::QuadtreeSegmentation Class Reference

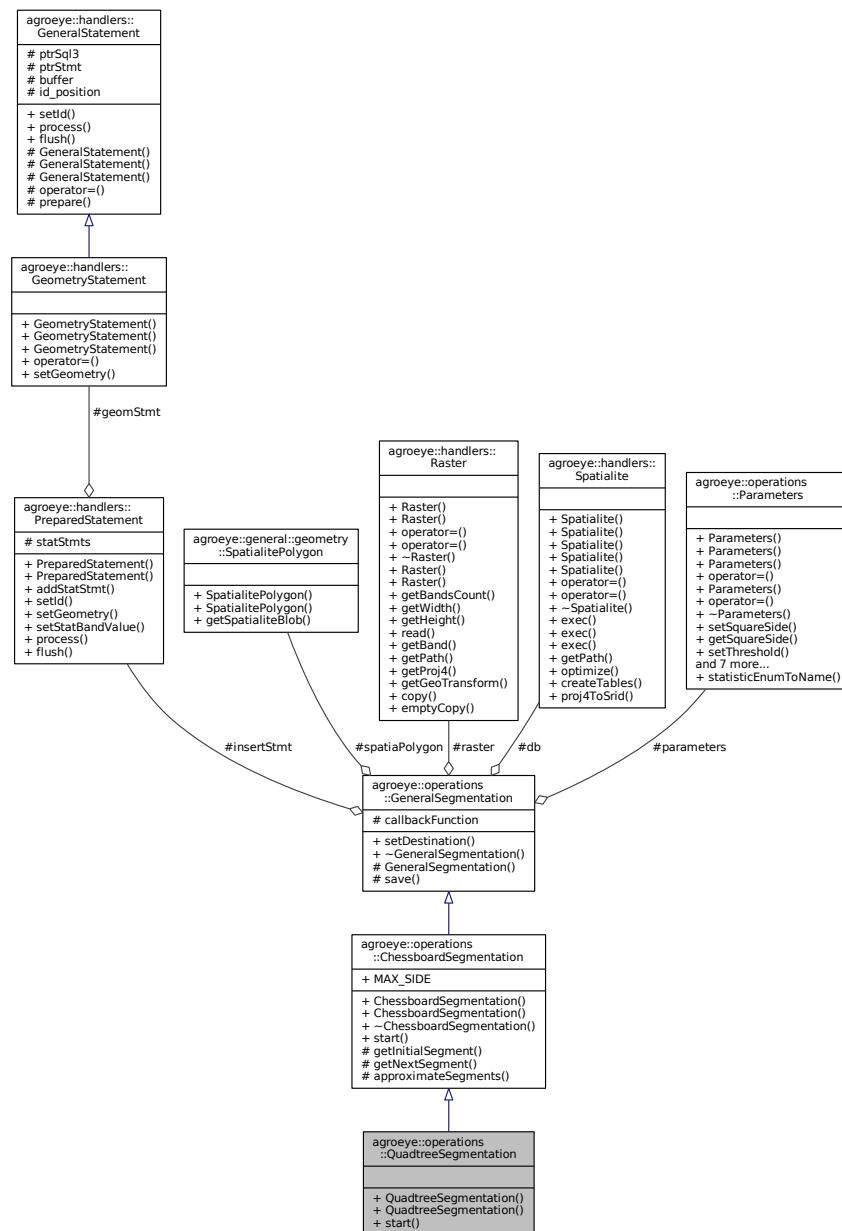
Segmentation Quadtree.

```
#include <SegmentationQuadtree.h>
```

Inheritance diagram for agroeye::operations::QuadtreeSegmentation:



Collaboration diagram for `agroeye::operations::QuadtreeSegmentation`:



Public Member Functions

- [QuadtreeSegmentation](#) ([Raster raster](#), [Parameters parameters](#))

Constructor.

- [QuadtreeSegmentation](#) ([Raster raster](#), [Parameters parameters](#), [CallbackFunction callbackFunc](#))

Creates object segmenting the image.

- `int` [start](#) ()

Starts segmentation.

Additional Inherited Members

8.85.1 Detailed Description

Segmentation Quadtree.

8.85.2 Constructor & Destructor Documentation

8.85.2.1 QuadtreeSegmentation() [1/2]

```
agroeye::operations::QuadtreeSegmentation::QuadtreeSegmentation (
    Raster raster,
    Parameters parameters ) [inline]
```

Constructor.

Parameters

<i>raster</i>	Input, segmented raster
<i>parameters</i>	Segmentation parameters

8.85.2.2 QuadtreeSegmentation() [2/2]

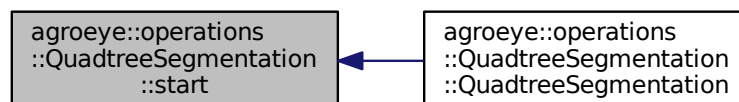
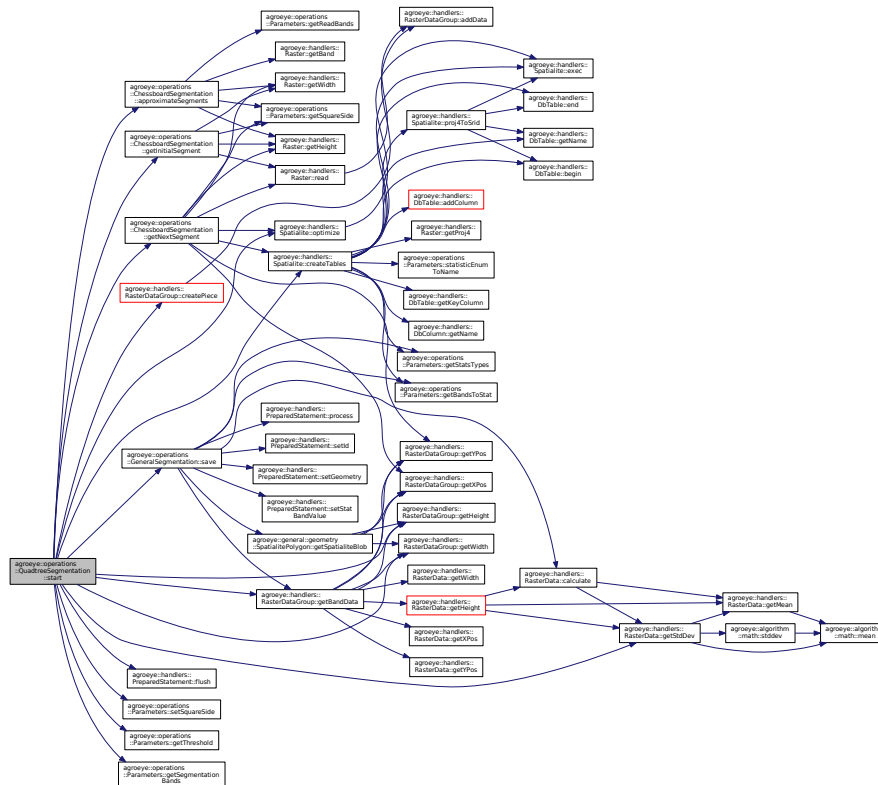
```
agroeye::operations::QuadtreeSegmentation::QuadtreeSegmentation (
    Raster raster,
    Parameters parameters,
    CallbackFunction callbackFunc ) [inline]
```

Creates object segmenting the image.

Parameters

<i>raster</i>	Segmented image
<i>parameters</i>	Parameters of segmentation
<i>callbackFunc</i>	Callback function reporting progress

If zero it means the whole process finishes without error



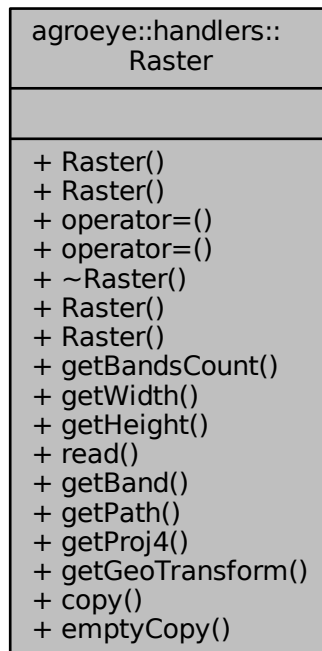
- src/src/agroeye/operations/segmentation/SegmentationQuadtree.h
- src/src/agroeye/operations/segmentation/SegmentationQuadtree.cpp

8.86 agroeye::handlers::Raster Class Reference

Class encapsulating [Raster](#) file object.

```
#include <Raster.h>
```

Collaboration diagram for agroeye::handlers::Raster:



Public Member Functions

- [Raster](#) (const [Raster](#) &other)
- [Raster](#) ([Raster](#) &&other)
- [Raster](#) & operator= (const [Raster](#) &other)
- [Raster](#) & operator= ([Raster](#) &&other)
- virtual [~Raster](#) ()
- [Raster](#) (const char *path)
Opens file.
- [Raster](#) (const char *path, [agroeye::general::CallbackFunction](#) func)
Opens file.
- size_t [getBandsCount](#) () const
- size_t [getWidth](#) () const
- size_t [getHeight](#) () const
- [RasterDataGroup](#) [read](#) (size_t x, size_t y, size_t width, size_t height)
Reads pixels data from all bands inside raster.
- [RasterBand](#) [getBand](#) (const size_t bandNo)
Gets the band of raster.
- std::string [getPath](#) () const
- std::string [getProj4](#) () const
- std::unique_ptr< double[] > [getGeoTransform](#) () const

Static Public Member Functions

- static [Raster copy](#) (const [Raster](#) &other, const char *path)
Copies the raster.
- static [Raster emptyCopy](#) (const [Raster](#) &other, const char *path)
Copies and empties raster.

8.86.1 Detailed Description

Class encapsulating [Raster](#) file object.

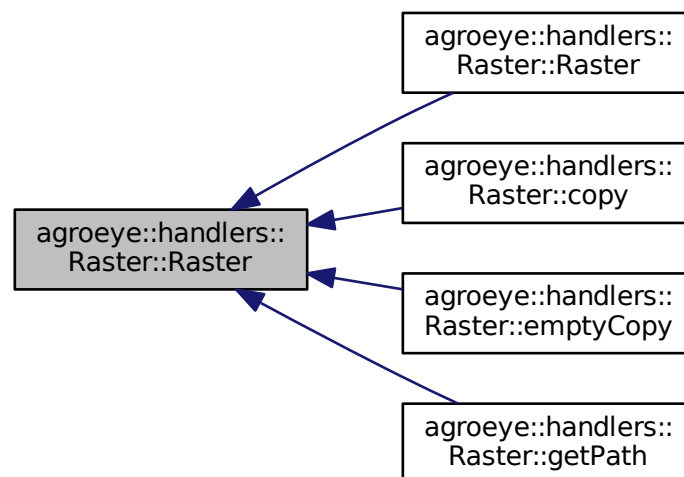
When new instances of this class are created using copy operators they are still sharing pointer to the same object.
Not thread safe (yet).

8.86.2 Constructor & Destructor Documentation

8.86.2.1 [Raster\(\)](#) [1/4]

```
agroeye::handlers::Raster::Raster (  
    const Raster & other )
```

Copy constructor Here is the caller graph for this function:



8.86.2.2 Raster() [2/4]

```
agroeye::handlers::Raster::Raster (
    Raster && other )
```

Move constructor Here is the call graph for this function:

**8.86.2.3 ~Raster()**

```
agroeye::handlers::Raster::~~Raster ( ) [virtual]
```

Destructor deallocating resources

8.86.2.4 Raster() [3/4]

```
agroeye::handlers::Raster::Raster (
    const char * path )
```

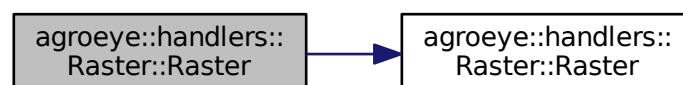
Opens file.

Opens file with given filepath. The silence callback is used to silence all feedback.

Parameters

<i>path</i>	Path to the file

Here is the call graph for this function:



8.86.2.5 Raster() [4/4]

```
agroeye::handlers::Raster::Raster (
    const char * path,
    agroeye::general::CallbackFunction func )
```

Opens file.

Opens file with given filepath. The given function is used to feedback.

Parameters

<i>path</i>	Path to the file
<i>func</i>	Callback function

8.86.3 Member Function Documentation

8.86.3.1 copy()

```
Raster agroeye::handlers::Raster::copy (
    const Raster & other,
    const char * path ) [static]
```

Copies the raster.

The given raster is used to create to exact copy

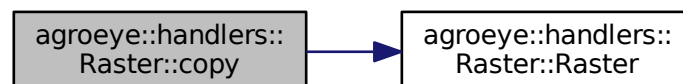
Parameters

<i>other</i>	Raster to be copy
<i>path</i>	Output location

Returns

Newly created raster

Here is the call graph for this function:



8.86.3.2 emptyCopy()

```
Raster agroeye::handlers::Raster::emptyCopy (
    const Raster & other,
    const char * path ) [static]
```

Copies and empties raster.

The given raster is used to create an empty copy

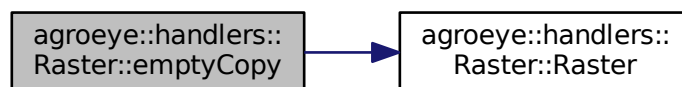
Parameters

<i>other</i>	Raster to be copy
<i>path</i>	Output location

Returns

Newly created raster

Here is the call graph for this function:



8.86.3.3 getBand()

```
RasterBand agroeye::handlers::Raster::getBand (
    const size_t bandNo )
```

Gets the band of raster.

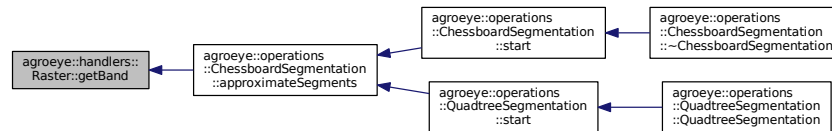
Parameters

<i>bandNo</i>	Number of band

Returns

[Raster](#) Band object

Here is the caller graph for this function:



8.86.3.4 getBandsCount()

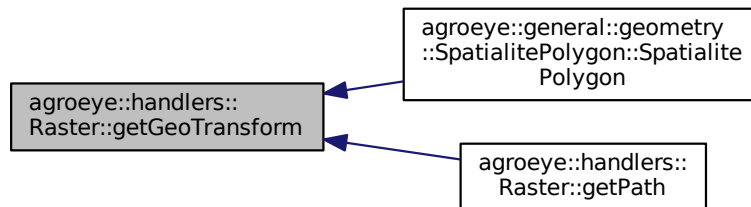
```
size_t agroeye::handlers::Raster::getBandsCount ( ) const
```

Number of bands that raster is consited of

8.86.3.5 getGeoTransform()

```
std::unique_ptr< double[ ]> agroeye::handlers::Raster::getGeoTransform ( ) const
```

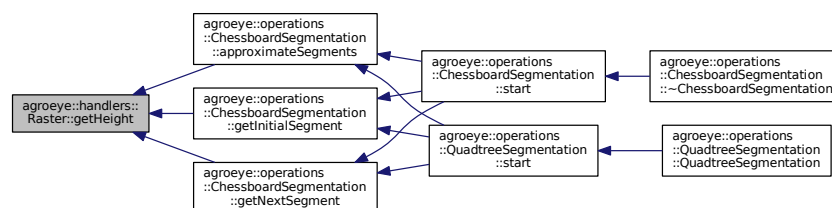
Gets the parameters of spatial location of raster Here is the caller graph for this function:



8.86.3.6 getHeight()

```
size_t agroeye::handlers::Raster::getHeight ( ) const
```

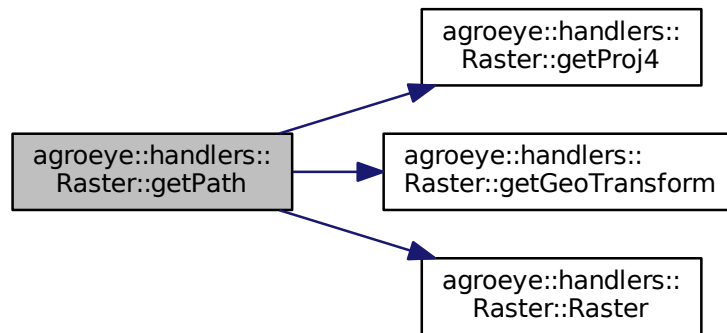
Height of the raster Here is the caller graph for this function:



8.86.3.7 getPath()

```
std::string agroeye::handlers::Raster::getPath ( ) const [inline]
```

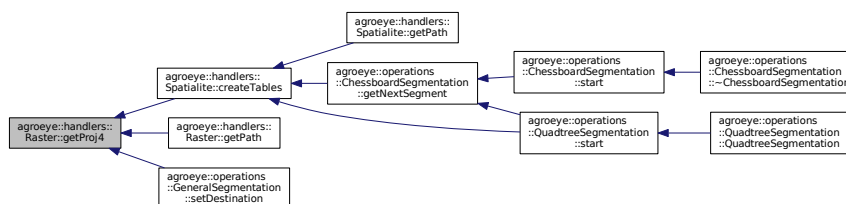
Here is the call graph for this function:



8.86.3.8 getProj4()

```
std::string agroeye::handlers::Raster::getProj4 ( ) const
```

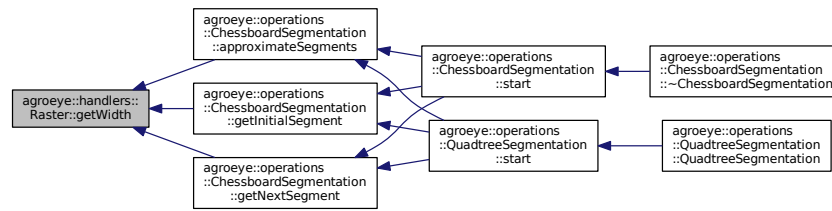
Path to the location of raster Gets the geographic definition of raster in Proj4 format Here is the caller graph for this function:



8.86.3.9 getWidth()

```
size_t agroeye::handlers::Raster::getWidth ( ) const
```


Width of the raster Here is the caller graph for this function:



8.86.3.10 operator=() [1/2]

```
Raster & agroeye::handlers::Raster::operator= (
    const Raster & other )
```

Copy assignment

8.86.3.11 operator=() [2/2]

```
Raster & agroeye::handlers::Raster::operator= (
    Raster && other )
```

Move assignment Here is the call graph for this function:



8.86.3.12 read()

```
RasterDataGroup agroeye::handlers::Raster::read (
    size_t x,
    size_t y,
    size_t width,
    size_t height )
```

Reads pixels data from all bands inside raster.

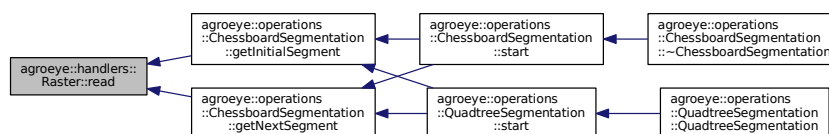
Parameters

<i>x</i>	Column number of top left corner
<i>y</i>	Row number of top left corner
<i>width</i>	Width of reading fragment
<i>height</i>	Height of reading fragment

Here is the call graph for this function:



Here is the caller graph for this function:

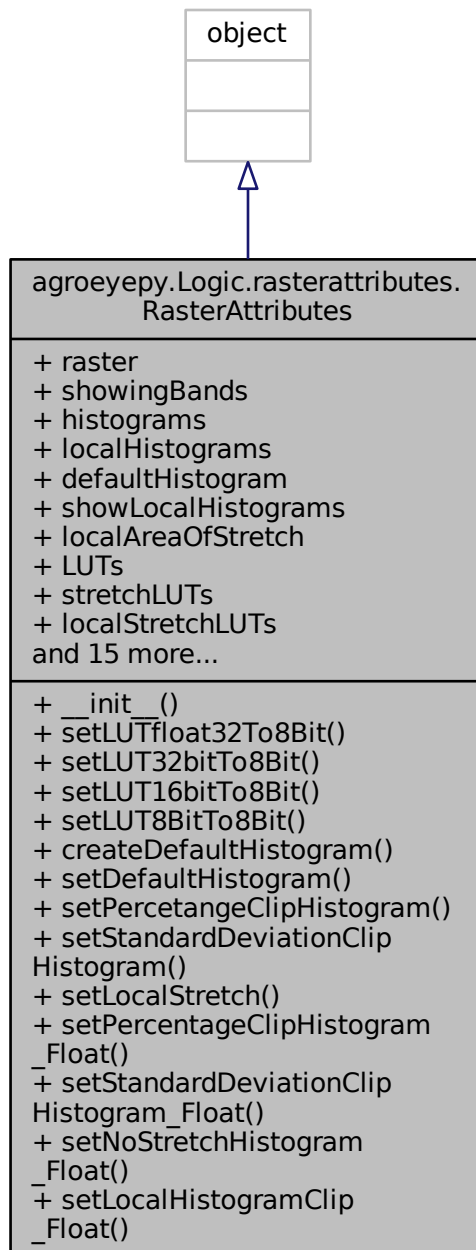


The documentation for this class was generated from the following files:

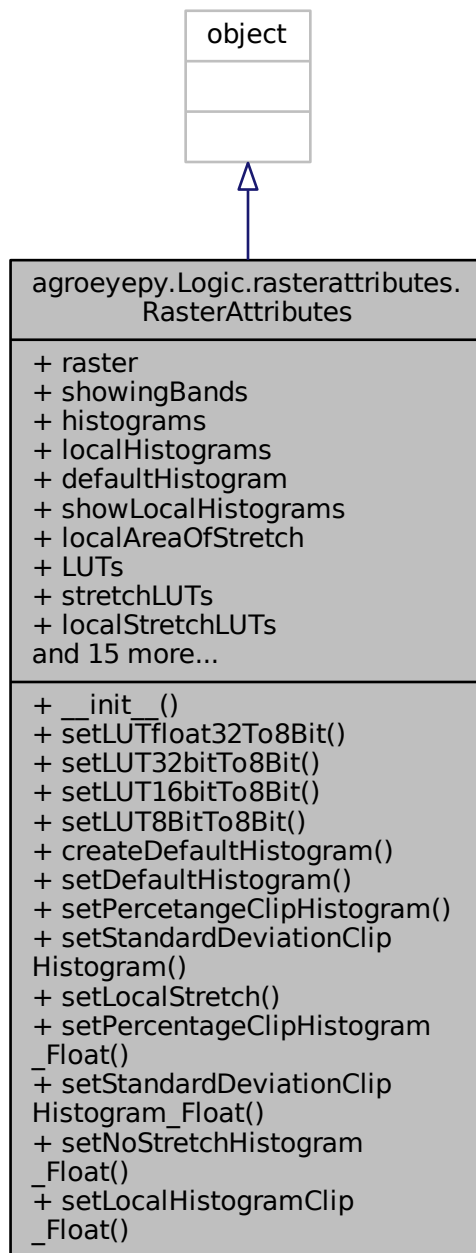
- `src/src/agroeye/handlers/Raster/Raster.h`
- `src/src/agroeye/handlers/Raster/Raster.cpp`

8.87 agroeyepy.Logic.rasterattributes.RasterAttributes Class Reference

Inheritance diagram for agroeyepy.Logic.rasterattributes.RasterAttributes:



Collaboration diagram for `agroeyepy.Logic.rasterattributes.RasterAttributes`:



Public Member Functions

- `def __init__(self, sourceRaster)`
- `def setLUTfloat32To8Bit(self, tempRaster=None)`
Applies different default LUT depending on range of float values.
- `def setLUT32bitTo8Bit(self, tempRaster=None)`
Applies to the raster LUT mask converting image from 32 bits into 8 bit.

- def [setLUT16bitTo8Bit](#) (self, tempRaster=None)
Applies to the raster LUT mask converting image from 16 bits into 8 bit.
- def [setLUT8BitTo8Bit](#) (self, tempRaster=None)
Applies to the raster LUT mask no-depth-conversion.
- def [createDefaultHistogram](#) (self, tempRaster=None)
- def [setDefaultHistogram](#) (self, tempRaster=None)
- def [setPercetangeClipHistogram](#) (self, tempRaster=None, [statistics](#)=None, float=False)
- def [setStandardDeviationClipHistogram](#) (self, tempRaster=None, [statistics](#)=None, float=False)
- def [setLocalStretch](#) (self, tempRaster, counter)
- def [setPercentageClipHistogram_Float](#) (self)
- def [setStandardDeviationClipHistogram_Float](#) (self)
- def [setNoStretchHistogram_Float](#) (self)
- def [setLocalHistogramClip_Float](#) (self, bandData, band, counter)

Public Attributes

- [raster](#)
- [showingBands](#)
- [histograms](#)
list containing calculated histograms
- [localHistograms](#)
list containing histogram of currently showed area,
- [defaultHistogram](#)
- [showLocalHistograms](#)
Determines whether histograms of current view extent are shown or not.
- [localAreaOfStretch](#)
Determines whether histogram stretch is based on current view or not.
- [LUTs](#)
currently applied mask to the raster
- [stretchLUTs](#)
stretching Look-Up Table for whole raster
- [localStretchLUTs](#)
stretching Look-Up Table for current view
- [dataTypeStored](#)
- [minMaxVals](#)
- [statistics](#)
- [bandName](#)
- [opacity](#)
- [channelColors](#)
- [lowTopBandValues](#)
- [floatToIntCoefs](#)
- [EPSG](#)
- [rasterAuxiliary](#)
- [redPalette](#)
- [greenPalette](#)
- [bluePalette](#)
- [palette](#)
- [paletteInverted](#)

8.87.1 Detailed Description

Class containing attributes of a single raster dataset:

- histograms
- current LUT (Look Up Table)

8.87.2 Constructor & Destructor Documentation

8.87.2.1 `__init__()`

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.__init__ (
    self,
    sourceRaster )
```

Parameters

<i>sourceRaster</i>	Initializing with reference to the calling raster

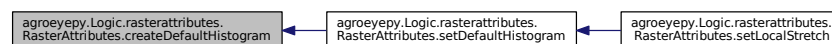
8.87.3 Member Function Documentation

8.87.3.1 `createDefaultHistogram()`

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.createDefaultHistogram (
    self,
    tempRaster = None )
```

@brief Computes Statistics, tries to use overviews to speed-up work

Here is the caller graph for this function:



8.87.3.2 `setDefaultHistogram()`

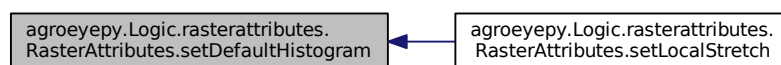
```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setDefaultHistogram (
    self,
    tempRaster = None )
```

@brief Set defaults histogram

Here is the call graph for this function:



Here is the caller graph for this function:



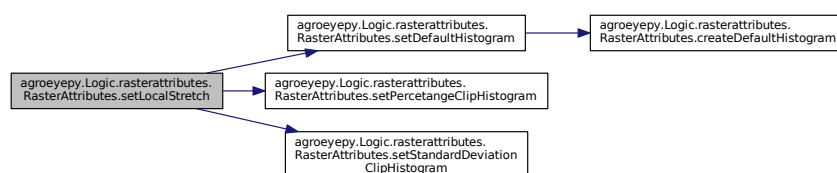
8.87.3.3 setLocalHistogramClip_Float()

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setLocalHistogramClip_Float (
    self,
    bandData,
    band,
    counter )
```

8.87.3.4 setLocalStretch()

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setLocalStretch (
    self,
    tempRaster,
    counter )
```

Here is the call graph for this function:



8.87.3.5 setLUT16bitTo8Bit()

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setLUT16bitTo8Bit (
    self,
    tempRaster = None )
```

Applies to the raster LUT mask converting image from 16 bits into 8 bit.

Lower bit depth is required in order to display raster on the screen.

8.87.3.6 setLUT32bitTo8Bit()

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setLUT32bitTo8Bit (
    self,
    tempRaster = None )
```

Applies to the raster LUT mask converting image from 32 bits into 8 bit.

Lower bit depth is required in order to display raster on the screen.

8.87.3.7 setLUT8BitTo8Bit()

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setLUT8BitTo8Bit (
    self,
    tempRaster = None )
```

Applies to the raster LUT mask no-depth-conversion.

8.87.3.8 setLUTfloat32To8Bit()

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setLUTfloat32To8Bit (
    self,
    tempRaster = None )
```

Applies different default LUT depending on range of float values.

8.87.3.9 setNoStretchHistogram_Float()

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setNoStretchHistogram_Float (
    self )
```

8.87.3.10 setPercentageClipHistogram_Float()

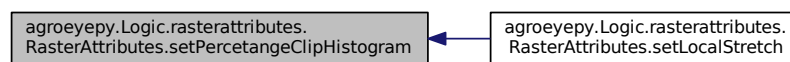
```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setPercentageClipHistogram_Float (
    self )
```


8.87.3.11 setPerctangeClipHistogram()

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setPerctangeClipHistogram (
    self,
    tempRaster = None,
    statistics = None,
    float = False )
```

@brief Clips histogram and stretches with given percentile and sets up new stretch LUTs.

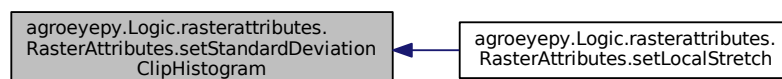
Here is the caller graph for this function:

**8.87.3.12 setStandardDeviationClipHistogram()**

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setStandardDeviationClipHistogram (
    self,
    tempRaster = None,
    statistics = None,
    float = False )
```

@brief Calculates histogram and stretches it for standard deviation and sets up new stretch LUTs.

Here is the caller graph for this function:

**8.87.3.13 setStandardDeviationClipHistogram_Float()**

```
def agroeyepy.Logic.rasterattributes.RasterAttributes.setStandardDeviationClipHistogram_Float
(
    self )
```

8.87.4 Member Data Documentation

8.87.4.1 bandName

`agroeyepy.Logic.rasterattributes.RasterAttributes.bandName`

8.87.4.2 bluePalette

`agroeyepy.Logic.rasterattributes.RasterAttributes.bluePalette`

8.87.4.3 channelColors

`agroeyepy.Logic.rasterattributes.RasterAttributes.channelColors`

8.87.4.4 dataTypeStored

`agroeyepy.Logic.rasterattributes.RasterAttributes.dataTypeStored`

8.87.4.5 defaultHistogram

`agroeyepy.Logic.rasterattributes.RasterAttributes.defaultHistogram`

8.87.4.6 EPSG

`agroeyepy.Logic.rasterattributes.RasterAttributes.EPSG`

8.87.4.7 floatToIntCoefs

`agroeyepy.Logic.rasterattributes.RasterAttributes.floatToIntCoefs`

8.87.4.8 greenPalette

`agroeyepy.Logic.rasterattributes.RasterAttributes.greenPalette`

8.87.4.9 histograms

`agroeyepy.Logic.rasterattributes.RasterAttributes.histograms`

list containing calculated histograms

8.87.4.10 localAreaOfStretch

`agroeyepy.Logic.rasterattributes.RasterAttributes.localAreaOfStretch`

Determines whether histogram stretch is based on current view or not.

8.87.4.11 localHistograms

`agroeyepy.Logic.rasterattributes.RasterAttributes.localHistograms`

list containing histogram of currently showed area,

8.87.4.12 localStretchLUTs

`agroeyepy.Logic.rasterattributes.RasterAttributes.localStretchLUTs`

stretching Look-Up Table for current view

8.87.4.13 lowTopBandValues

`agroeyepy.Logic.rasterattributes.RasterAttributes.lowTopBandValues`

8.87.4.14 LUTs

`agroeyepy.Logic.rasterattributes.RasterAttributes.LUTs`

currently applied mask to the raster

8.87.4.15 minMaxVals

`agroeyepy.Logic.rasterattributes.RasterAttributes.minMaxVals`

8.87.4.16 opacity

`agroeyepy.Logic.rasterattributes.RasterAttributes.opacity`

8.87.4.17 palette

`agroeyepy.Logic.rasterattributes.RasterAttributes.palette`

8.87.4.18 paletteInverted

`agroeyepy.Logic.rasterattributes.RasterAttributes.paletteInverted`

8.87.4.19 raster

`agroeyepy.Logic.rasterattributes.RasterAttributes.raster`

8.87.4.20 rasterAuxiliary

`agroeyepy.Logic.rasterattributes.RasterAttributes.rasterAuxiliary`

8.87.4.21 redPalette

`agroeyepy.Logic.rasterattributes.RasterAttributes.redPalette`

8.87.4.22 showingBands

`agroeyepy.Logic.rasterattributes.RasterAttributes.showingBands`

8.87.4.23 showLocalHistograms

`agroeyepy.Logic.rasterattributes.RasterAttributes.showLocalHistograms`

Determines whether histograms of current view extent are shown or not.

8.87.4.24 statistics

`agroeyepy.Logic.rasterattributes.RasterAttributes.statistics`

8.87.4.25 stretchLUTs

`agroeyepy.Logic.rasterattributes.RasterAttributes.stretchLUTs`

stretching Look-Up Table for whole raster

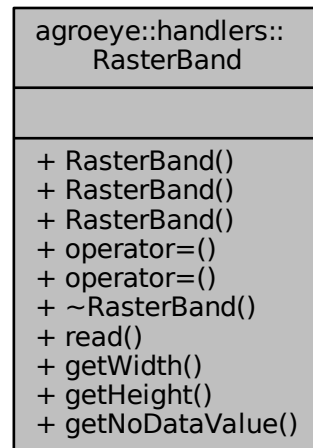
The documentation for this class was generated from the following file:

- `agroeyepy/Logic/rasterattributes.py`

8.88 agroeye::handlers::RasterBand Class Reference

```
#include <RasterBand.h>
```

Collaboration diagram for agroeye::handlers::RasterBand:



Public Member Functions

- [RasterBand](#) (GDALRasterBand *rawBand, CallbackFunction callbackFunc)
Opens raster band. The opening of raster is only created by [Raster](#).
- [RasterBand](#) (const [RasterBand](#) &other)
Copy constructor.
- [RasterBand](#) ([RasterBand](#) &&other)
Move constructor.
- [RasterBand](#) & [operator=](#) (const [RasterBand](#) &other)
Copy assignment operator.
- [RasterBand](#) & [operator=](#) ([RasterBand](#) &&other)
Move assignment operator.
- virtual [~RasterBand](#) ()
Does NOT free any resources.
- [RasterData read](#) (size_t x, size_t y, size_t width, size_t height)
Reads the given extent of raster band.
- int [getWidth](#) () const
- int [getHeight](#) () const
- double [getNoDataValue](#) () const

8.88.1 Constructor & Destructor Documentation

8.88.1.1 `RasterBand()` [1/3]

```
agroeye::handlers::RasterBand::RasterBand (
    GDALRasterBand * rawBand,
    CallbackFunction callbackFunc )
```

Opens raster band. The opening of raster is only created by [Raster](#).

8.88.1.2 `RasterBand()` [2/3]

```
agroeye::handlers::RasterBand::RasterBand (
    const RasterBand & other )
```

Copy constructor.

Parameters

<i>other</i>	The other Band to be copied

8.88.1.3 `RasterBand()` [3/3]

```
agroeye::handlers::RasterBand::RasterBand (
    RasterBand && other )
```

Move constructor.

Parameters

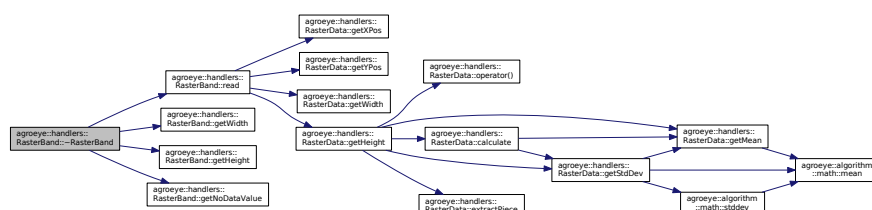
<i>other</i>	The other Band to be moved

8.88.1.4 `~RasterBand()`

```
virtual agroeye::handlers::RasterBand::~~RasterBand ( ) [inline], [virtual]
```

Does NOT free any resources.

Cleaning up after raster is preformed after deletion of [Raster](#) object Here is the call graph for this function:



8.88.2 Member Function Documentation

8.88.2.1 getHeight()

```
int agroeye::handlers::RasterBand::getHeight ( ) const
```

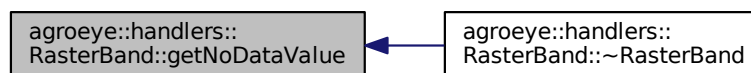
Gets height of the band Here is the caller graph for this function:



8.88.2.2 getNoDataValue()

```
double agroeye::handlers::RasterBand::getNoDataValue ( ) const
```

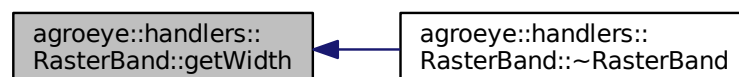
Gets value of no data pixels Here is the caller graph for this function:



8.88.2.3 getWidth()

```
int agroeye::handlers::RasterBand::getWidth ( ) const
```

Gets width of the band Here is the caller graph for this function:



8.88.2.4 operator=() [1/2]

```
RasterBand & agroeye::handlers::RasterBand::operator= (
    const RasterBand & other )
```

Copy assignment operator.

Parameters

<i>other</i>	The other Band to be copied

8.88.2.5 operator=() [2/2]

```
RasterBand & agroeye::handlers::RasterBand::operator= (
    RasterBand && other )
```

Move assignment operator.

Parameters

<i>other</i>	The other Band to be moved

8.88.2.6 read()

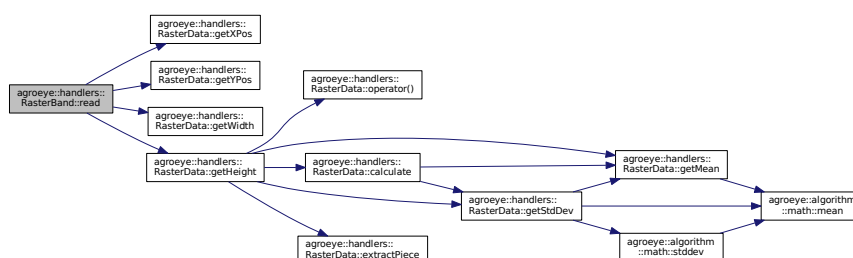
```
RasterData agroeye::handlers::RasterBand::read (
    size_t x,
    size_t y,
    size_t width,
    size_t height )
```

Reads the given extent of raster band.

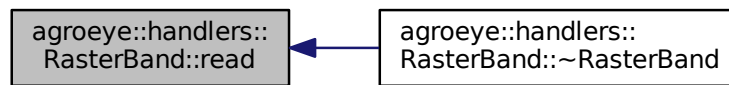
Parameters

<i>x</i>	Number of column (X) of top left corner
<i>y</i>	Number of row (Y) of top left corner
<i>width</i>	Number of columns to be read
<i>height</i>	Number of rows to be read

Here is the call graph for this function:



Here is the caller graph for this function:

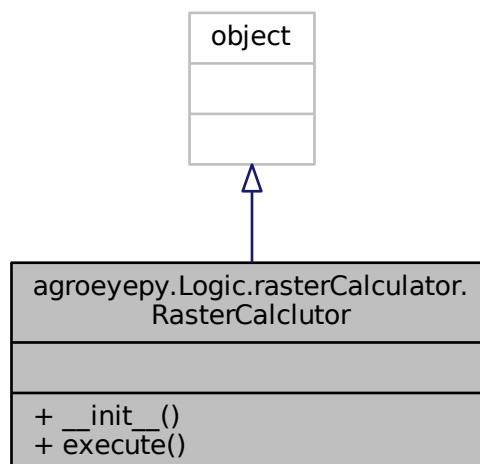


The documentation for this class was generated from the following files:

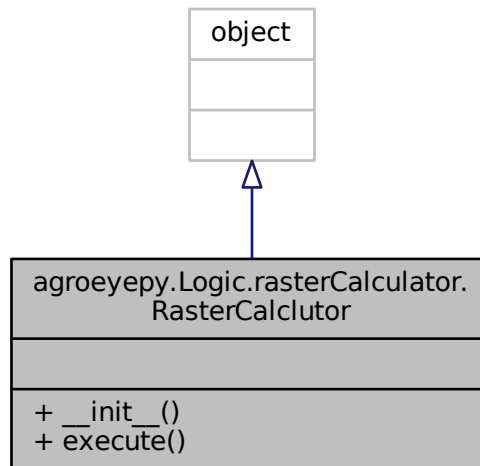
- [src/src/agroeyepy/Logic/rasterCalculator/RasterCalclutor.h](#)
- [src/src/agroeyepy/Logic/rasterCalculator/RasterCalclutor.cpp](#)

8.89 agroeyepy.Logic.rasterCalculator.RasterCalclutor Class Reference

Inheritance diagram for `agroeyepy.Logic.rasterCalculator.RasterCalclutor`:



Collaboration diagram for `agroeyepy.Logic.rasterCalculator.RasterCalclutor`:



Public Member Functions

- `def \_\_init\_\_ (self)`
- `def execute (self)`

8.89.1 Constructor & Destructor Documentation

8.89.1.1 `__init__()`

```
def agroeyepy.Logic.rasterCalculator.RasterCalclutor.__init__ (
    self )
```

8.89.2 Member Function Documentation

8.89.2.1 `execute()`

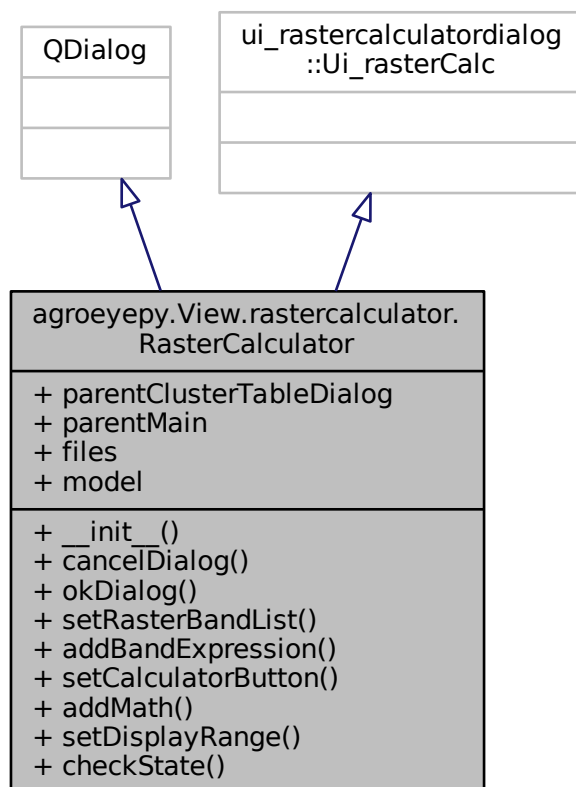
```
def agroeyepy.Logic.rasterCalculator.RasterCalclutor.execute (
    self )
```

The documentation for this class was generated from the following file:

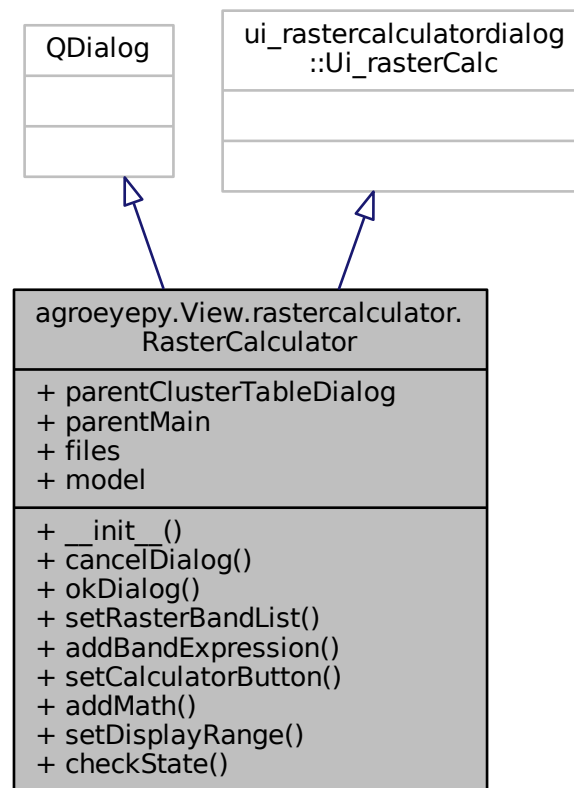
- `agroeyepy/Logic/rasterCalculator.py`

8.90 agroeyepy.View.rastercalculator.RasterCalculator Class Reference

Inheritance diagram for agroeyepy.View.rastercalculator.RasterCalculator:



Collaboration diagram for agroeyepy.View.rastercalculator.RasterCalculator:



Public Member Functions

- def `__init__` (self, parent=None, propertiesObj=None)
- def `cancelDialog` (self)
Cancel raster calculator window.
- def `okDialog` (self)
Accept raster calculator window.
- def `setRasterBandList` (self)
- def `addBandExpression` (self, signal)
- def `setCalculatorButton` (self)
- def `addMath` (self)
- def `setDisplayRange` (self)
- def `checkState` (self)

Public Attributes

- `parentClusterTableDialog`
- `parentMain`
- `files`
- `model`

8.90.1 Constructor & Destructor Documentation

8.90.1.1 `__init__()`

```
def agroeyepy.View.rastercalculator.RasterCalculator.__init__ (
    self,
    parent = None,
    propertiesObj = None )
```

8.90.2 Member Function Documentation

8.90.2.1 `addBandExpression()`

```
def agroeyepy.View.rastercalculator.RasterCalculator.addBandExpression (
    self,
    signal )
```

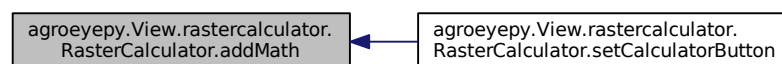
Here is the caller graph for this function:



8.90.2.2 `addMath()`

```
def agroeyepy.View.rastercalculator.RasterCalculator.addMath (
    self )
```

Here is the caller graph for this function:



8.90.2.3 `cancelDialog()`

```
def agroeyepy.View.rastercalculator.RasterCalculator.cancelDialog (
    self )
```

Cancel raster calculator window.

8.90.2.4 checkState()

```
def agroeyepy.View.rastercalculator.RasterCalculator.checkState (  
    self )
```

8.90.2.5 okDialog()

```
def agroeyepy.View.rastercalculator.RasterCalculator.okDialog (  
    self )
```

Accept raster calculator window.

8.90.2.6 setCalculatorButton()

```
def agroeyepy.View.rastercalculator.RasterCalculator.setCalculatorButton (  
    self )
```

Here is the call graph for this function:



8.90.2.7 setDisplayRange()

```
def agroeyepy.View.rastercalculator.RasterCalculator.setDisplayRange (  
    self )
```

8.90.2.8 setRasterBandList()

```
def agroeyepy.View.rastercalculator.RasterCalculator.setRasterBandList (  
    self )
```

Here is the call graph for this function:



8.90.3 Member Data Documentation

8.90.3.1 files

`agroeyepy.View.rastercalculator.RasterCalculator.files`

8.90.3.2 model

`agroeyepy.View.rastercalculator.RasterCalculator.model`

8.90.3.3 parentClusterTableDialog

`agroeyepy.View.rastercalculator.RasterCalculator.parentClusterTableDialog`

8.90.3.4 parentMain

`agroeyepy.View.rastercalculator.RasterCalculator.parentMain`

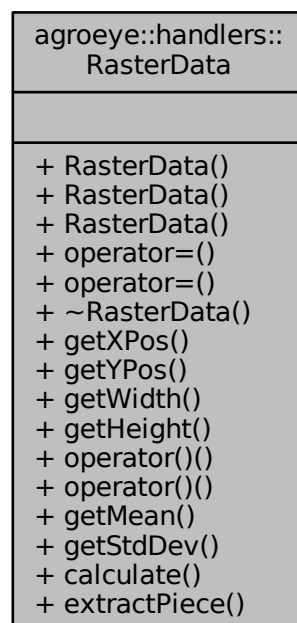
The documentation for this class was generated from the following file:

- `agroeyepy/View/rastercalculator.py`

8.91 agroeye::handlers::RasterData Class Reference

`#include <RasterData.h>`

Collaboration diagram for `agroeye::handlers::RasterData`:



Public Member Functions

- [RasterData](#) (const size_t width, const size_t height, const size_t x=0, const size_t y=0)

Constructor allocating memory.

- [RasterData](#) (const [RasterData](#) &other)

Copy constructor.

- [RasterData](#) ([RasterData](#) &&other)

Move constructor.

- [RasterData](#) & [operator=](#) (const [RasterData](#) &)

- [RasterData](#) & [operator=](#) ([RasterData](#) &&other)

- virtual [~RasterData](#) ()

- size_t [getXPos](#) () const

Column number of top left corner Position of first pixel in.

- size_t [getYPos](#) () const

- size_t [getWidth](#) () const

- size_t [getHeight](#) () const

- double & [operator\(\)](#) (size_t x, size_t y)

- const double & [operator\(\)](#) (size_t x, size_t y) const

- double [getMean](#) () const

- double [getStdDev](#) () const

- double [calculate](#) ([agroeye::operations::StatisticsTypes](#) types) const

Calculates the value of given statistic attribute.

Static Public Member Functions

- static [RasterData extractPiece](#) (const [RasterData](#) &rasterData, size_t x, size_t y, size_t width, size_t height)

Extracts fragment of raster data creating new one.

Friends

- class [RasterBand](#)

8.91.1 Constructor & Destructor Documentation

8.91.1.1 [RasterData\(\)](#) [1/3]

```
agroeye::handlers::RasterData::RasterData (
    const size_t width,
    const size_t height,
    const size_t x = 0,
    const size_t y = 0 )
```

Constructor allocating memory.

Constructor allocating memory of double type with size width * height

Parameters

<i>width</i>	Number of columns
<i>height</i>	Number of rows
<i>x</i>	Column of top left corner
<i>y</i>	Row of top left corner

8.91.1.2 RasterData() [2/3]

```
agroeye::handlers::RasterData::RasterData (
    const RasterData & other )
```

Copy constructor.

Copies the data from one object into another. No resources are shared after

Parameters

<i>other</i>	RasterData to be copied

8.91.1.3 RasterData() [3/3]

```
agroeye::handlers::RasterData::RasterData (
    RasterData && other )
```

Move constructor.

After that the source object is cleared and all resource are transferred to new object

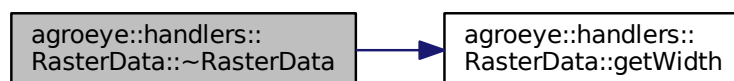
Parameters

<i>other</i>	Mooved object

8.91.1.4 ~RasterData()

```
agroeye::handlers::RasterData::~~RasterData ( ) [virtual]
```

Here is the call graph for this function:



8.91.2 Member Function Documentation

8.91.2.1 calculate()

```
double agroeye::handlers::RasterData::calculate (
    agroeye::operations::StatisticsTypes types ) const
```

Calculates the value of given statistic attribute.

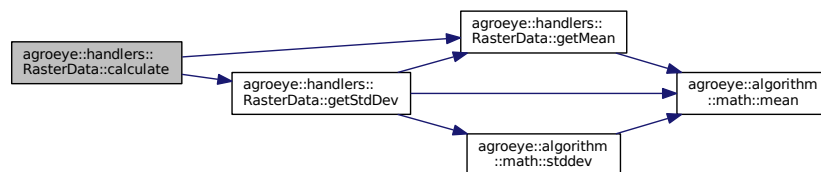
Parameters

<i>types</i>	Type of statistic feature

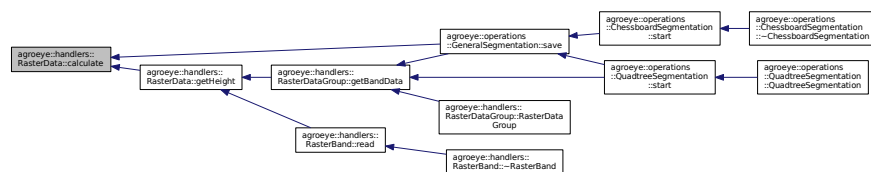
Returns

The computed value

Here is the call graph for this function:



Here is the caller graph for this function:



8.91.2.2 extractPiece()

```

RasterData agroeye::handlers::RasterData::extractPiece (
    const RasterData & rasterData,
    size_t x,
    size_t y,
    size_t width,
    size_t height ) [static]
  
```

Extracts fragment of raster data creating new one.

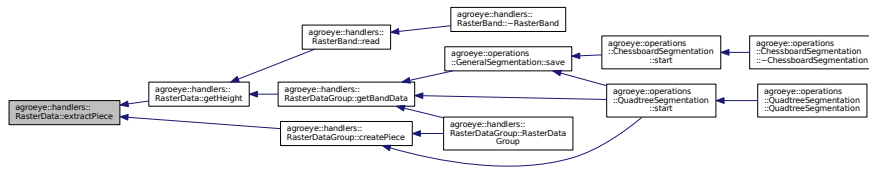
Parameters

<i>rasterData</i>	Original raster Data
<i>x</i>	X of top left corner relative to original data
<i>y</i>	Y of top left corner relative to original data
<i>width</i>	Width of new fragment
<i>height</i>	Height of new fragment

Returns

Newly extracted fragment

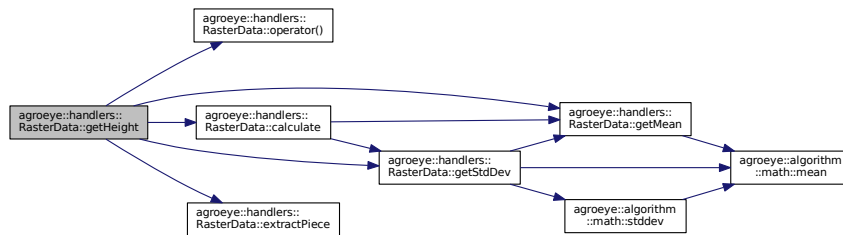
Here is the caller graph for this function:



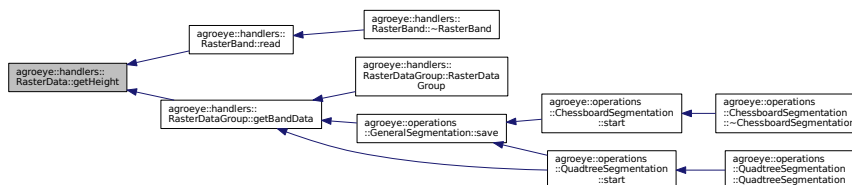
8.91.2.3 getHeight()

```
size_t agroeye::handlers::RasterData::getHeight ( ) const [inline]
```

Returns the width of read fragment Here is the call graph for this function:



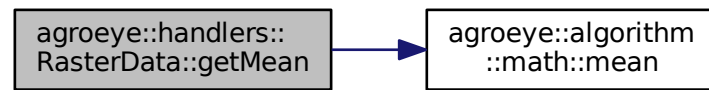
Here is the caller graph for this function:



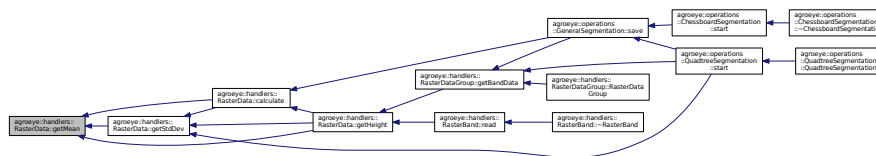
8.91.2.4 getMean()

```
double agroeye::handlers::RasterData::getMean ( ) const
```

Calculates the mean value of read data Here is the call graph for this function:



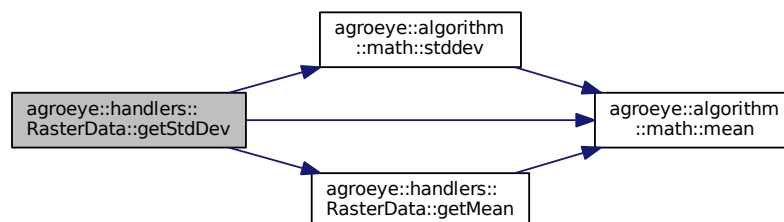
Here is the caller graph for this function:



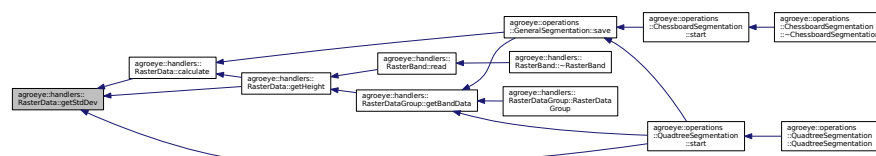
8.91.2.5 getStdDev()

```
double agroeye::handlers::RasterData::getStdDev ( ) const
```

Calculates the standard deviation value of read data Here is the call graph for this function:



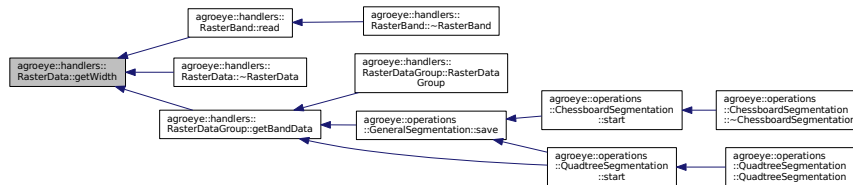
Here is the caller graph for this function:



8.91.2.6 getWidth()

```
size_t agroeye::handlers::RasterData::getWidth ( ) const [inline]
```

Returns the row value of top left corner in whole raster units Here is the caller graph for this function:

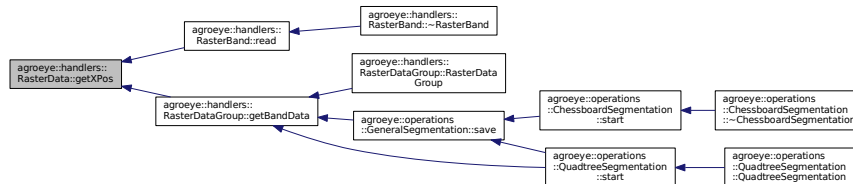


8.91.2.7 getXPos()

```
size_t agroeye::handlers::RasterData::getXPos ( ) const [inline]
```

Column number of top left corner Position of first pixel in.

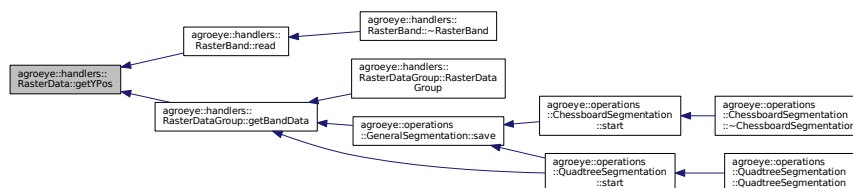
Here is the caller graph for this function:



8.91.2.8 getYPos()

```
size_t agroeye::handlers::RasterData::getYPos ( ) const [inline]
```

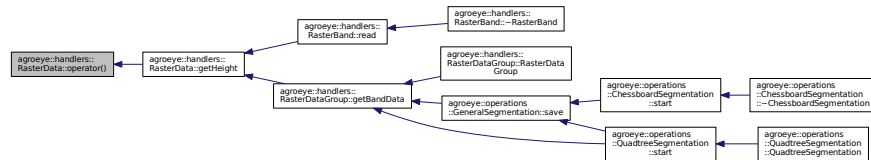
Returns the column value of top left corner in whole raster units Here is the caller graph for this function:



8.91.2.9 operator>() [1/2]

```
double & agroeye::handlers::RasterData::operator() (
    size_t x,
    size_t y )
```

Returns the height of read fragment Returns the reference to pixel of given coordnates Here is the caller graph for this function:



8.91.2.10 operator>() [2/2]

```
const double & agroeye::handlers::RasterData::operator() (
    size_t x,
    size_t y ) const
```

Returns the const reference to pixel of given coordnates

8.91.2.11 operator=() [1/2]

```
RasterData & agroeye::handlers::RasterData::operator= (
    const RasterData & other )
```

8.91.2.12 operator=() [2/2]

```
RasterData & agroeye::handlers::RasterData::operator= (
    RasterData && other )
```

8.91.3 Friends And Related Function Documentation

8.91.3.1 RasterBand

```
friend class RasterBand [friend]
```

The documentation for this class was generated from the following files:

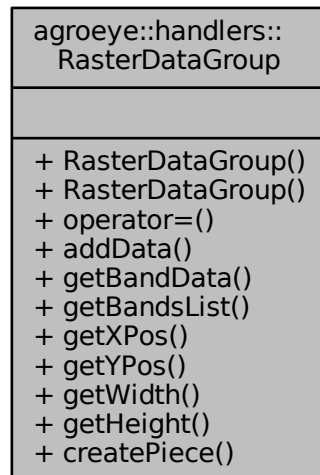
- [src/src/agroeye/handlers/Raster/RasterData.h](#)
- [src/src/agroeye/handlers/Raster/RasterData.cpp](#)

8.92 agroeye::handlers::RasterDataGroup Class Reference

Encapsulation of read data from a couple of bands from one [RasterDataGroup](#). Also provides convenient basic operations and guarantees the same parameters of raster data.

```
#include <RasterDataGroup.h>
```

Collaboration diagram for agroeye::handlers::RasterDataGroup:



Public Member Functions

- [RasterDataGroup](#) ()
- [RasterDataGroup](#) ([RasterDataGroup](#) &&)=default
- [RasterDataGroup](#) & [operator=](#) ([RasterDataGroup](#) &&)=default
- void [addData](#) (const int bandNo, [RasterData](#) &&rasterData)
Adds data to the container.
- const [RasterData](#) & [getBandData](#) (const int bandNo) const
Provides access to raster data for given band.
- std::vector< int > [getBandsList](#) () const
Gets list of bands.
- size_t [getXPos](#) () const
- size_t [getYPos](#) () const
- size_t [getWidth](#) () const
- size_t [getHeight](#) () const

Static Public Member Functions

- static [RasterDataGroup](#) [createPiece](#) (const [RasterDataGroup](#) &rasterData, const size_t x, const size_t y, const size_t width, const size_t height)
Extracts piece from given data creating copy.

8.92.1 Detailed Description

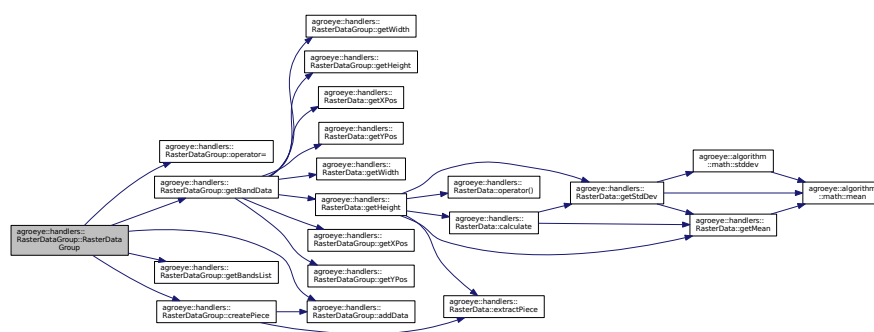
Encapsulation of read data from a couple of bands from one [RasterDataGroup](#) Also provides convinient basic operations and quarantees the same parameters of raster data.

8.92.2 Constructor & Destructor Documentation

8.92.2.1 RasterDataGroup() [1/2]

```
agroeye::handlers::RasterDataGroup::RasterDataGroup ( ) [inline]
```

Here is the call graph for this function:



8.92.2.2 RasterDataGroup() [2/2]

```
agroeye::handlers::RasterDataGroup::RasterDataGroup (
    RasterDataGroup && ) [default]
```

Dummy constructor Only move allowed by default

8.92.3 Member Function Documentation

8.92.3.1 addData()

```
void agroeye::handlers::RasterDataGroup::addData (
    const int bandNo,
    RasterData && rasterData )
```

Adds data to the container.

Parameters

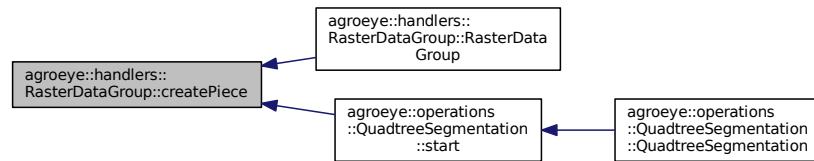
<i>bandNo</i>	Number of read band
<i>rasterData</i>	Raster data to data. Transfers ownership


```

graph TD
    A["agroye::operations  
::ChessboardSegmentation  
::getInitialSegment"] --> B["agroye::operations  
::ChessboardSegmentation  
::start"]
    A --> C["agroye::operations  
::ChessboardSegmentation  
::getNextSegment"]
    B --> D["agroye::operations  
::QuadtreeSegmentation  
::start"]
    C --> D
    C --> E["agroye::operations  
::QuadtreeSegmentation  
::getNextSegment"]
    D --> F["agroye::handlers  
::RasterDataGroup::createPiece"]
    E --> F
    F --> G["agroye::handlers  
::RasterDataGroup::addData"]
  
```

<i>rasterData</i>	Raster data pixels to be extracted

Here is the caller graph for this function:



8.92.3.3 getBandData()

```
const RasterData & agroeye::handlers::RasterDataGroup::getBandData (
    const int bandNo ) const
```

Provides access to raster data for given band.

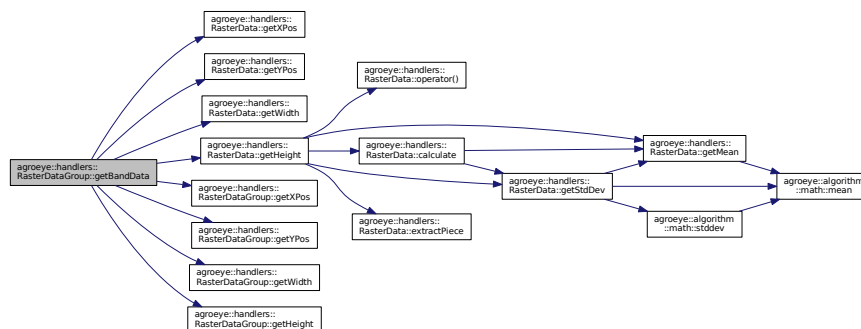
Parameters

<i>bandNo</i>	Band number

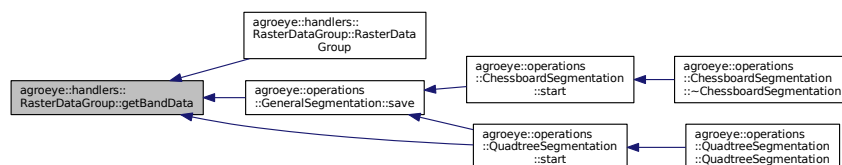
Returns

Const reference to raster data

Here is the call graph for this function:



Here is the caller graph for this function:



8.92.3.4 getBandsList()

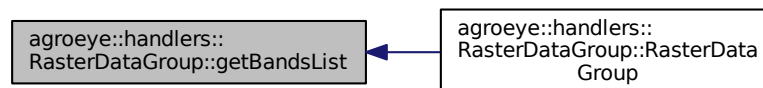
```
std::vector< int > agroeye::handlers::RasterDataGroup::getBandsList ( ) const
```

Gets list of bands.

Returns

List of bands

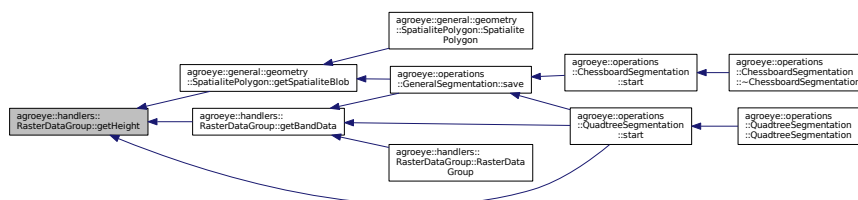
Here is the caller graph for this function:



8.92.3.5 getHeight()

```
size_t agroeye::handlers::RasterDataGroup::getHeight ( ) const [inline]
```

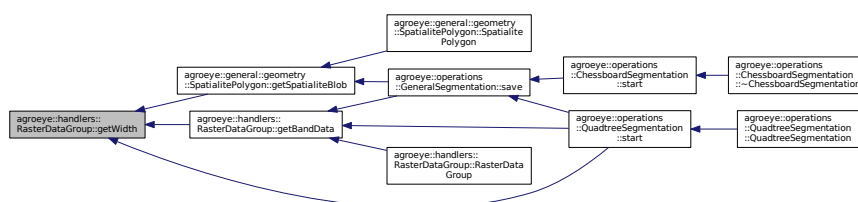
Here is the caller graph for this function:



8.92.3.6 getWidth()

```
size_t agroeye::handlers::RasterDataGroup::getWidth ( ) const [inline]
```

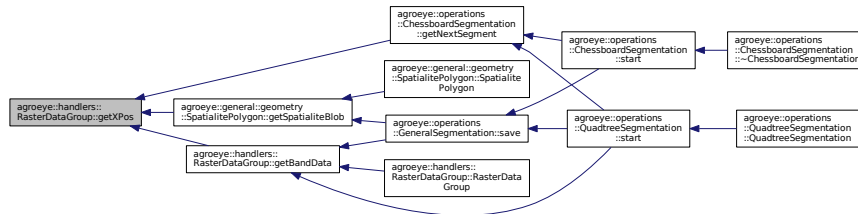
Here is the caller graph for this function:



8.92.3.7 getXPos()

```
size_t agroeye::handlers::RasterDataGroup::getXPos ( ) const [inline]
```

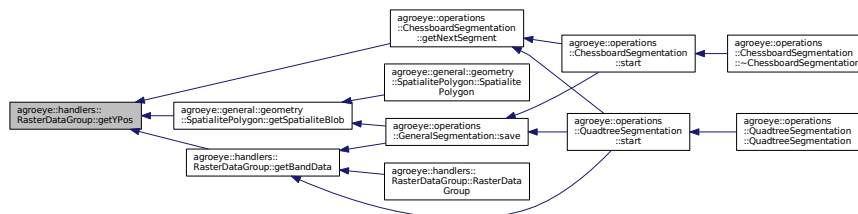
Here is the caller graph for this function:



8.92.3.8 getYPos()

```
size_t agroeye::handlers::RasterDataGroup::getYPos ( ) const [inline]
```

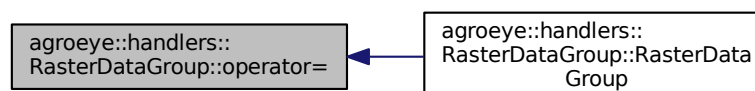
Here is the caller graph for this function:



8.92.3.9 operator=()

```
RasterDataGroup& agroeye::handlers::RasterDataGroup::operator= (
    RasterDataGroup && ) [default]
```

Only move allowed by default Here is the caller graph for this function:

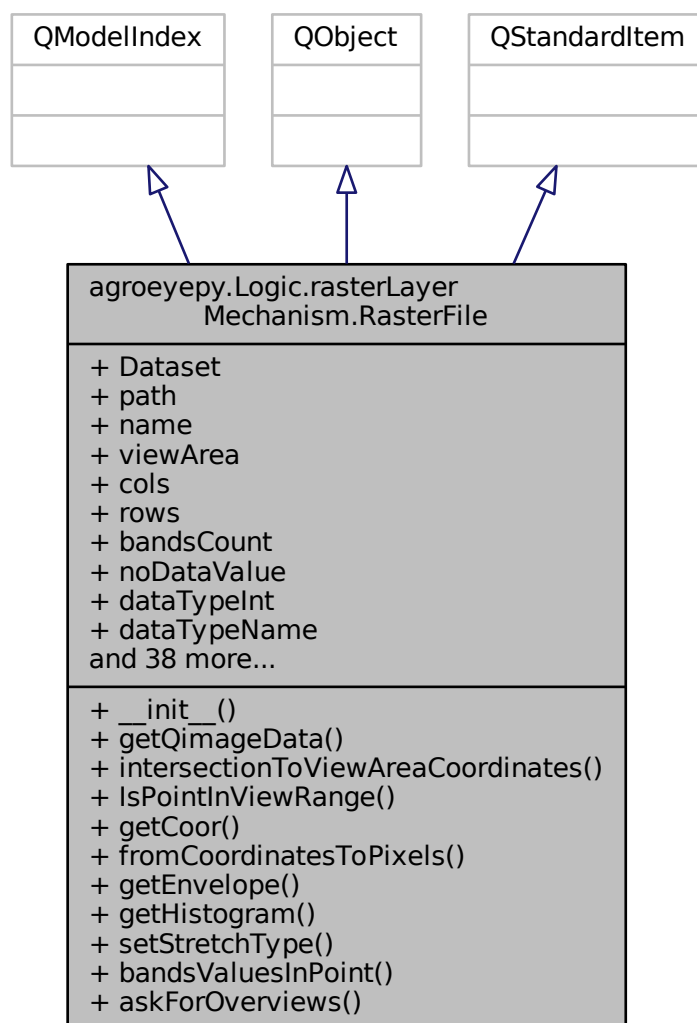


The documentation for this class was generated from the following files:

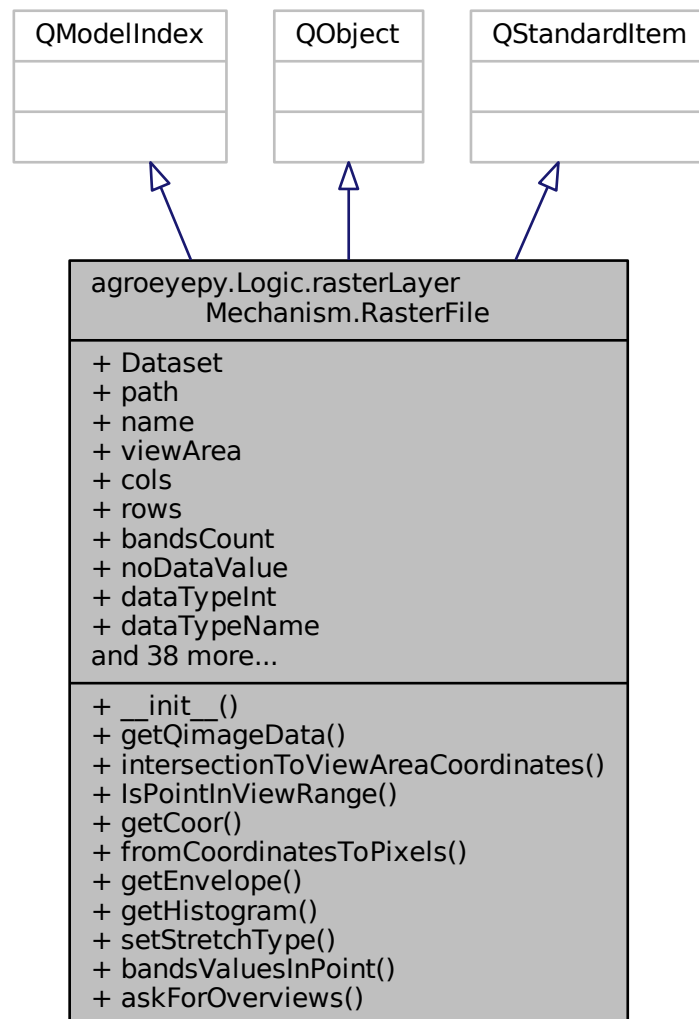
- [src/src/agroeye/handlers/Raster/RasterDataGroup.h](#)
- [src/src/agroeye/handlers/Raster/RasterDataGroup.cpp](#)

8.93 agroeyepy.Logic.rasterLayerMechanism.RasterFile Class Reference

Inheritance diagram for agroeyepy.Logic.rasterLayerMechanism.RasterFile:



Collaboration diagram for `agroeyepy.Logic.rasterLayerMechanism.RasterFile`:



Public Member Functions

- `def __init__(self, fname, viewArea)`
Open file and read basic information.
- `def getQimageData(self, viewSize, viewBoundary, pixSize, viewAreaProj4, viewAreaSpatialReference, viewAreaAsRaster)`
Returns image in of the desired parameters.
- `def intersectionToViewAreaCoordinates(self, bound, transformation)`
- `def IsPointInViewRange(self, inputPoint, viewBoundary)`
- `def getCoor(self, area)`
- `def fromCoordinatesToPixels(self, point)`
- `def getEnvelope(self, envelopePoints)`
- `def getHistogram(self)`

- def [setStretchType](#) (self, typeOfstretch)
- def [bandsValuesInPoint](#) (self, qPoint)
- def [askForOverviews](#) (self)

Public Attributes

- [Dataset](#)
- [path](#)
The path of file.
- [name](#)
Filename of the raster.
- [viewArea](#)
- [cols](#)
- [rows](#)
- [bandsCount](#)
- [noDataValue](#)
- [dataTypeInt](#)
- [dataTypeName](#)
- [fileFormat](#)
- [isInt](#)
- [dataTypeMinValue](#)
- [dataTypeMaxValue](#)
- [typeOfStretch](#)
- [stretchParameters](#)
- [bands](#)
Obtain pointers to each layer.
- [processedBands](#)
- [isVector](#)
- [nameStyleFullPath](#)
- [rasterAttributes](#)
- [dataRange](#)
- [dataTypeMaxUsed](#)
- [geoMatrix](#)
- [originX](#)
- [originY](#)
- [pixelSizeX](#)
- [pixelSizeY](#)
- [centerX](#)
- [centerY](#)
- [coefficientToQImage](#)
Something.
- [EPSG](#)
- [EPSGbase](#)
- [pathLayer](#)
- [visible](#)
By default visibility is set ON.
- [icon](#)
- [srs](#)
- [proj4](#)
- [rasterSpatialReference](#)
- [spatialReferencePrettyWkt](#)
- [ratio](#)
Conversion ratio from raster pixel to viewport pixel.

- [offsetX](#)
- [offsetY](#)
- [boundary](#)
- [minXY](#)

Returns image in of the desired parameters.

- [maxXY](#)
- [outColumns](#)
- [outRows](#)

8.93.1 Detailed Description

Docu for a class.

More details lower.

8.93.2 Constructor & Destructor Documentation

8.93.2.1 `__init__()`

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.__init__ (
    self,
    fname,
    viewArea )
```

Open file and read basic information.

Parameters

<i>fname</i>	is the input from Dialog Window

8.93.3 Member Function Documentation

8.93.3.1 `askForOverviews()`

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.askForOverviews (
    self )
```

8.93.3.2 `bandsValuesInPoint()`

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.bandsValuesInPoint (
    self,
    qPoint )
```

8.93.3.3 `fromCoordinatesToPixels()`

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.fromCoordinatesToPixels (
    self,
    point )
```


8.93.3.4 getCoor()

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.getCoor (
    self,
    area )
```

@brief From given polygon area gives the physical coordinations of each corner provided area
 @param area: Area which corners are desirable

8.93.3.5 getEnvelope()

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.getEnvelope (
    self,
    envelopePoints )
```

8.93.3.6 getHistogram()

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.getHistogram (
    self )
```

8.93.3.7 getQimageData()

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.getQimageData (
    self,
    viewSize,
    viewBoundary,
    pixSize,
    viewAreaProj4,
    viewAreaSpatialReference,
    viewAreaAsRaster )
```

Returns image in of the desired parameters.

Scale of the image, upper-left point and size of the view area must be provided. Using these parameters method returns an image fitting to the appropriate area.

Parameters

<i>ratio</i>	ratio to produce right size of the image with sides aspect ratio
<i>centralPoint</i>	Center of the view area
<i>viewSize</i>	Size of the area where QImage is about to be displayed.

8.93.3.8 intersectionToViewAreaCoordinates()

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.intersectionToViewAreaCoordinates (
    self,
```

```
bound,  
transformation )
```

8.93.3.9 IsPointInViewRange()

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.IsPointInViewRange (  
    self,  
    inputPoint,  
    viewBoundary )
```

8.93.3.10 setStretchType()

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.setStretchType (  
    self,  
    typeOfstretch )
```

8.93.4 Member Data Documentation

8.93.4.1 bands

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.bands
```

Obtain pointers to each layer.

8.93.4.2 bandsCount

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.bandsCount
```

8.93.4.3 boundary

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.boundary
```

8.93.4.4 centerX

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.centerX
```

8.93.4.5 centerY

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.centerY
```

8.93.4.6 coefficientToQImage

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.coefficientToQImage
```

Something.

8.93.4.7 cols

agroeyepy.Logic.rasterLayerMechanism.RasterFile.cols

8.93.4.8 dataRange

agroeyepy.Logic.rasterLayerMechanism.RasterFile.dataRange

8.93.4.9 Dataset

agroeyepy.Logic.rasterLayerMechanism.RasterFile.Dataset

8.93.4.10 dataTypeInt

agroeyepy.Logic.rasterLayerMechanism.RasterFile.dataTypeInt

8.93.4.11 dataTypeMaxUsed

agroeyepy.Logic.rasterLayerMechanism.RasterFile.dataTypeMaxUsed

8.93.4.12 dataTypeMaxValue

agroeyepy.Logic.rasterLayerMechanism.RasterFile.dataTypeMaxValue

8.93.4.13 dataTypeMinValue

agroeyepy.Logic.rasterLayerMechanism.RasterFile.dataTypeMinValue

8.93.4.14 dataTypeName

agroeyepy.Logic.rasterLayerMechanism.RasterFile.dataTypeName

8.93.4.15 EPSG

agroeyepy.Logic.rasterLayerMechanism.RasterFile.EPSG

8.93.4.16 EPSGbase

agroeyepy.Logic.rasterLayerMechanism.RasterFile.EPSGbase

8.93.4.17 fileFormat

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.fileFormat
```

8.93.4.18 geoMatrix

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.geoMatrix
```

8.93.4.19 icon

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.icon
```

8.93.4.20 isInt

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.isInt
```

8.93.4.21 isVector

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.isVector
```

8.93.4.22 maxXY

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.maxXY
```

8.93.4.23 minXY

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.minXY
```

Returns image in of the desired parameters.

Scale of the image, upper-left point and size of the view area must be provided. Using these parameters method returns an image fitting to the appropriate area.

Parameters

<i>ratio</i>	ratio to produce right size of the image with sides aspect ratio
<i>centralPoint</i>	Center of the view area
<i>viewSize</i>	Size of the area where QImage is about to be displayed.

8.93.4.24 name

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.name
```

Filename of the raster.

8.93.4.25 nameStyleFullPath

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.nameStyleFullPath
```

8.93.4.26 noDataValue

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.noDataValue
```

8.93.4.27 offsetX

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.offsetX
```

8.93.4.28 offsetY

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.offsetY
```

8.93.4.29 originX

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.originX
```

8.93.4.30 originY

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.originY
```

8.93.4.31 outColumns

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.outColumns
```

8.93.4.32 outRows

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.outRows
```

8.93.4.33 path

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.path
```

The path of file.

8.93.4.34 pathLayer

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.pathLayer
```

8.93.4.35 pixelSizeX

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.pixelSizeX
```

8.93.4.36 pixelSizeY

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.pixelSizeY
```

8.93.4.37 processedBands

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.processedBands
```

8.93.4.38 proj4

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.proj4
```

8.93.4.39 rasterAttributes

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.rasterAttributes
```

8.93.4.40 rasterSpatialReference

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.rasterSpatialReference
```

8.93.4.41 ratio

```
def agroeyepy.Logic.rasterLayerMechanism.RasterFile.ratio
```

Conversion ratio from raster pixel to viewport pixel.

8.93.4.42 rows

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.rows
```

8.93.4.43 spatialReferencePrettyWkt

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.spatialReferencePrettyWkt
```

8.93.4.44 srs

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.srs
```

8.93.4.45 stretchParameters

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.stretchParameters
```

8.93.4.46 typeOfStretch

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.typeOfStretch
```

8.93.4.47 viewArea

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.viewArea
```

8.93.4.48 visible

```
agroeyepy.Logic.rasterLayerMechanism.RasterFile.visible
```

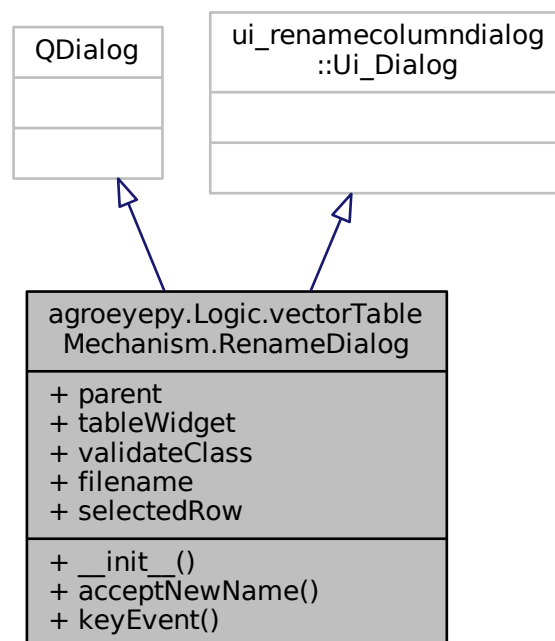
By default visibility is set ON.

The documentation for this class was generated from the following file:

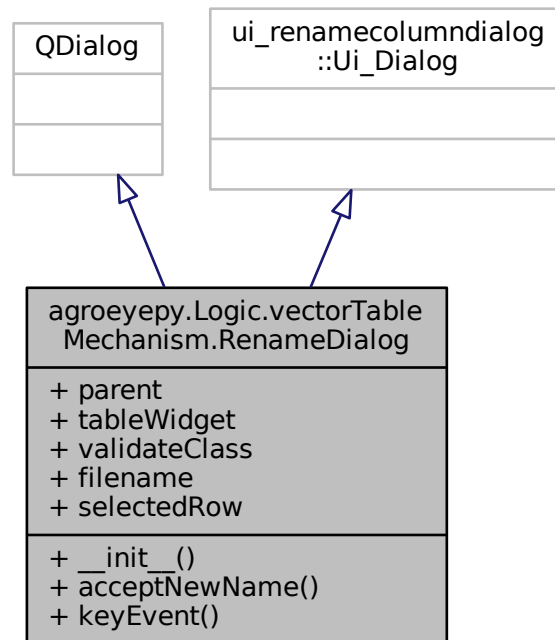
- [agroeyepy/Logic/rasterLayerMechanism.py](#)

8.94 agroeyepy.Logic.vectorTableMechanism.RenameDialog Class Reference

Inheritance diagram for agroeyepy.Logic.vectorTableMechanism.RenameDialog:



Collaboration diagram for `agroeyepy.Logic.vectorTableMechanism.RenameDialog`:



Public Member Functions

- `def __init__ (self, parent, tableWidget, filename, selectedRow)`
Open dialog to change name of column.
- `def acceptNewName (self)`
Action after clicked OK button.
- `def keyEvent (self, event)`
Event for CTRL+C and CTRL+V.

Public Attributes

- `parent`
- `tableWidget`
- `validateClass`
- `filename`
- `selectedRow`

8.94.1 Constructor & Destructor Documentation

8.94.1.1 `__init__()`

```
def agroeyepy.Logic.vectorTableMechanism.RenameDialog.__init__ (
    self,
    parent,
    tableWidget,
    filename,
    selectedRow )
```

Open dialog to change name of column.

8.94.2 Member Function Documentation

8.94.2.1 `acceptNewName()`

```
def agroeyepy.Logic.vectorTableMechanism.RenameDialog.acceptNewName (
    self )
```

Action after clicked OK button.

Change name of column.

8.94.2.2 `keyEvent()`

```
def agroeyepy.Logic.vectorTableMechanism.RenameDialog.keyEvent (
    self,
    event )
```

Event for CTRL+C and CTRL+V.

8.94.3 Member Data Documentation

8.94.3.1 `filename`

```
agroeyepy.Logic.vectorTableMechanism.RenameDialog.filename
```

8.94.3.2 `parent`

```
agroeyepy.Logic.vectorTableMechanism.RenameDialog.parent
```

8.94.3.3 `selectedRow`

```
agroeyepy.Logic.vectorTableMechanism.RenameDialog.selectedRow
```

8.94.3.4 tableWidget

`agroeyepy.Logic.vectorTableMechanism.RenameDialog.tableWidget`

8.94.3.5 validateClass

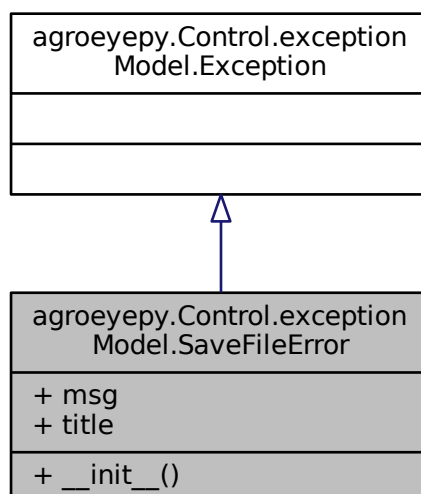
`agroeyepy.Logic.vectorTableMechanism.RenameDialog.validateClass`

The documentation for this class was generated from the following file:

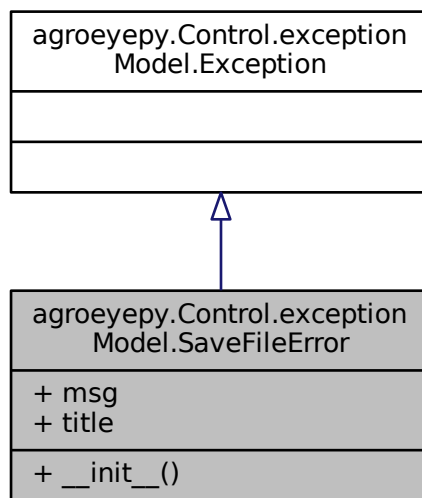
- `agroeyepy/Logic/vectorTableMechanism.py`

8.95 agroeyepy.Control.exceptionModel.SaveFileError Class Reference

Inheritance diagram for `agroeyepy.Control.exceptionModel.SaveFileError`:



Collaboration diagram for agroeyepy.Control.exceptionModel.SaveFileError:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- `msg`
- `title`

8.95.1 Constructor & Destructor Documentation

8.95.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.SaveFileError.__init__(  
    self )
```

8.95.2 Member Data Documentation

8.95.2.1 `msg`

```
agroeyepy.Control.exceptionModel.SaveFileError.msg
```

8.95.2.2 title

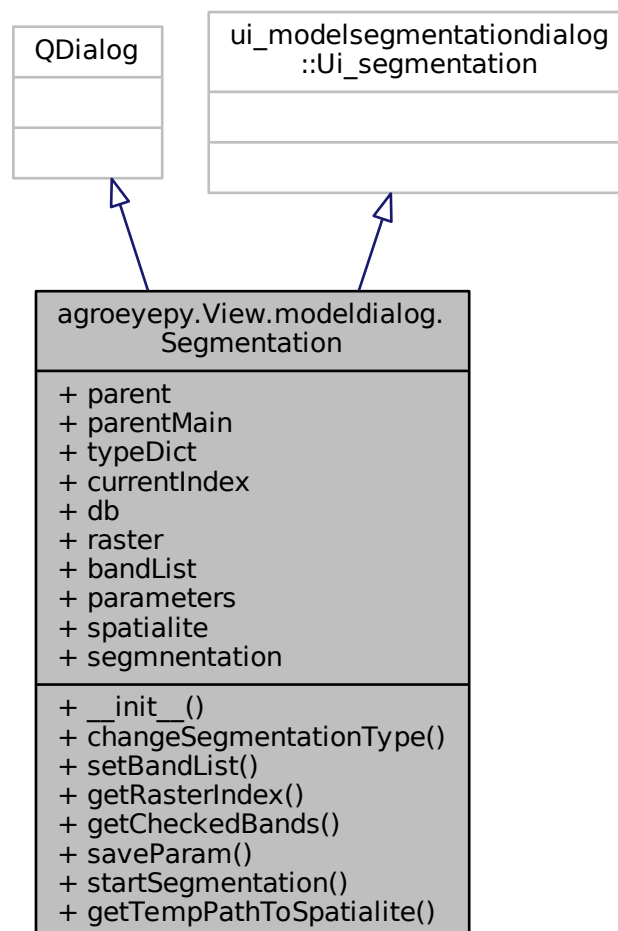
`agroeyepy.Control.exceptionModel.SaveFileError.title`

The documentation for this class was generated from the following file:

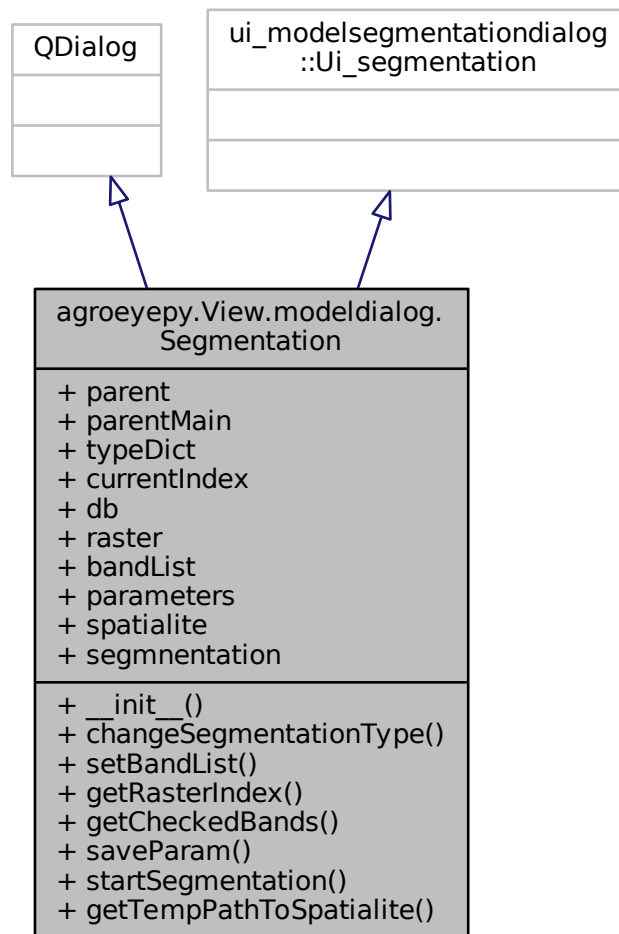
- `agroeyepy/Control/exceptionModel.py`

8.96 agroeyepy.View.modeldialog.Segmentation Class Reference

Inheritance diagram for `agroeyepy.View.modeldialog.Segmentation`:



Collaboration diagram for agroeyepy.View.modeldialog.Segmentation:



Public Member Functions

- `def \_\_init\_\_ (self, parent)`
- `def changeSegmentationType (self)`
- `def setBandList (self)`
- `def getRasterIndex (self)`
- `def getCheckedBands (self)`
- `def saveParam (self)`
- `def startSegmentation (self)`
- `def getTempPathToSpatialite (self, name, type)`

Create path to svg.

Public Attributes

- [parent](#)

- [parentMain](#)
- [typeDict](#)
- [currentIndex](#)
- [db](#)
- [raster](#)
- [bandList](#)
- [parameters](#)
- [spatialite](#)
- [segmentation](#)

8.96.1 Constructor & Destructor Documentation

8.96.1.1 `__init__()`

```
def agroeyepy.View.modeldialog.Segmentation.__init__ (
    self,
    parent )
```

8.96.2 Member Function Documentation

8.96.2.1 `changeSegmentationType()`

```
def agroeyepy.View.modeldialog.Segmentation.changeSegmentationType (
    self )
```

8.96.2.2 `getCheckedBands()`

```
def agroeyepy.View.modeldialog.Segmentation.getCheckedBands (
    self )
```

8.96.2.3 `getRasterIndex()`

```
def agroeyepy.View.modeldialog.Segmentation.getRasterIndex (
    self )
```

8.96.2.4 `getTempPathToSpatialite()`

```
def agroeyepy.View.modeldialog.Segmentation.getTempPathToSpatialite (
    self,
    name,
    type )
```

Create path to svg.

Returns the path to created svg file.

Parameters

<i>name</i>	The name of created svg file.

8.96.2.5 saveParam()

```
def agroeyepy.View.modeldialog.Segmentation.saveParam (  
    self )
```

Here is the call graph for this function:



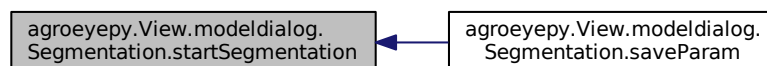
8.96.2.6 setBandList()

```
def agroeyepy.View.modeldialog.Segmentation.setBandList (  
    self )
```

8.96.2.7 startSegmentation()

```
def agroeyepy.View.modeldialog.Segmentation.startSegmentation (  
    self )
```

Here is the caller graph for this function:



8.96.3 Member Data Documentation

8.96.3.1 bandList

```
agroeyepy.View.modeldialog.Segmentation.bandList
```

8.96.3.2 `currentIndex`

`agroeyepy.View.modeldialog.Segmentation.currentIndex`

8.96.3.3 `db`

`agroeyepy.View.modeldialog.Segmentation.db`

8.96.3.4 `parameters`

`agroeyepy.View.modeldialog.Segmentation.parameters`

8.96.3.5 `parent`

`agroeyepy.View.modeldialog.Segmentation.parent`

8.96.3.6 `parentMain`

`agroeyepy.View.modeldialog.Segmentation.parentMain`

8.96.3.7 `raster`

`agroeyepy.View.modeldialog.Segmentation.raster`

8.96.3.8 `segmentation`

`agroeyepy.View.modeldialog.Segmentation.segmentation`

8.96.3.9 `spatialite`

`agroeyepy.View.modeldialog.Segmentation.spatialite`

8.96.3.10 `typeDict`

`agroeyepy.View.modeldialog.Segmentation.typeDict`

The documentation for this class was generated from the following file:

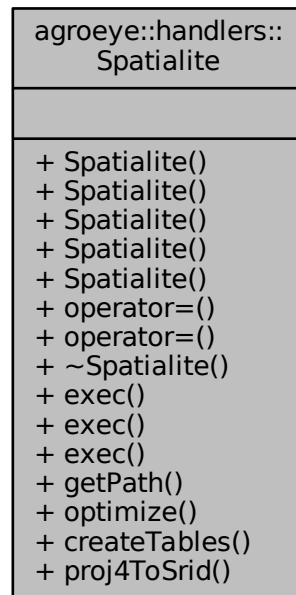
- `agroeyepy/View/modeldialog.py`

8.97 agroeye::handlers::Spatialite Class Reference

Encapsulation of [Spatialite](#) database.

```
#include <DatabaseSpatialite.h>
```

Collaboration diagram for agroeye::handlers::Spatialite:



Public Member Functions

- [Spatialite](#) ()
- [Spatialite](#) (const char *path, bool create=false)
- [Spatialite](#) (const char *path, CallbackFunction callbackFunc, bool create=false)
- [Spatialite](#) (const [Spatialite](#) &other)
- [Spatialite](#) ([Spatialite](#) &&other)
- [Spatialite](#) & operator= (const [Spatialite](#) &other)
- [Spatialite](#) & operator= ([Spatialite](#) &&other)
- virtual ~[Spatialite](#) ()
- void [exec](#) (const char *query)
 - Performs query on database.*
- void [exec](#) (const char *query, bool silent)
 - Performs query on database Allows to disabling the check of correctness of query.*
- void [exec](#) (const char *query, [SqliteCallback](#) callback)
 - Performs query on database Allows to retrieve the information from database.*
- std::string [getPath](#) () const
- void [optimize](#) ()
- [PreparedStatement](#) [createTables](#) (std::string name, [Raster](#) raster, [Parameters](#) parameters)
 - Creates tables from given parameters.*
- std::string [proj4ToSrid](#) (std::string proj4)
 - Converts Proj4 spatial reference into SRID value_comp.*

8.97.1 Detailed Description

Encapsulation of [Spatialite](#) database.

8.97.2 Constructor & Destructor Documentation

8.97.2.1 [Spatialite\(\)](#) [1/5]

```
agroeye::handlers::Spatialite::Spatialite ( )
```

Default constructor initializing database in RAM memory

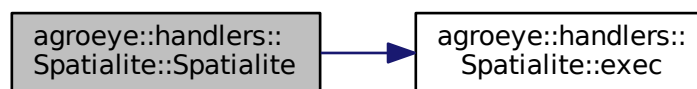
8.97.2.2 [Spatialite\(\)](#) [2/5]

```
agroeye::handlers::Spatialite::Spatialite (
    const char * path,
    bool create = false )
```

8.97.2.3 [Spatialite\(\)](#) [3/5]

```
agroeye::handlers::Spatialite::Spatialite (
    const char * path,
    CallbackFunction callbackFunc,
    bool create = false )
```

Here is the call graph for this function:



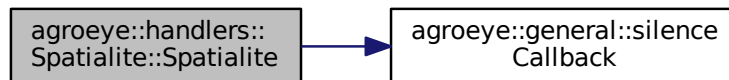
8.97.2.4 [Spatialite\(\)](#) [4/5]

```
agroeye::handlers::Spatialite::Spatialite (
    const Spatialite & other )
```

8.97.2.5 Spatialite() [5/5]

```
agroeye::handlers::Spatialite::Spatialite (
    Spatialite && other )
```

Here is the call graph for this function:



8.97.2.6 ~Spatialite()

```
agroeye::handlers::Spatialite::~~Spatialite ( ) [virtual]
```

8.97.3 Member Function Documentation

8.97.3.1 createTables()

```
PreparedStatement agroeye::handlers::Spatialite::createTables (
    std::string name,
    Raster raster,
    Parameters parameters )
```

Creates tables from given parameters.

Prepares database for saving the results of segmenting image

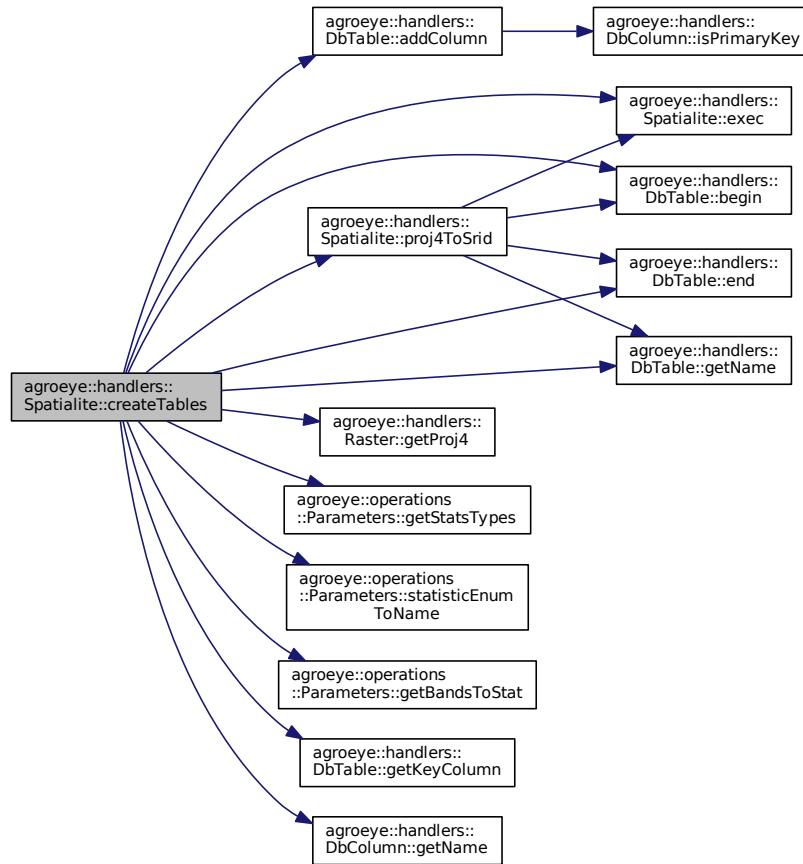
Parameters

<i>name</i>	Name of the segmentation
<i>raster</i>	Segmented Raster
<i>parameters</i>	Segmentation parameters

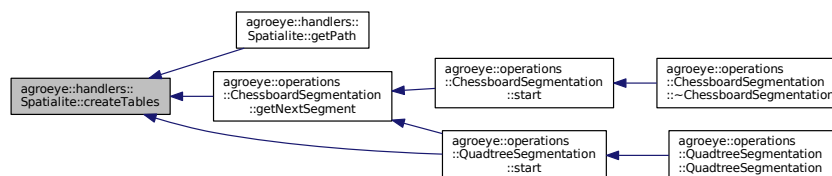
Returns

Statement ready for insertions

Here is the call graph for this function:



Here is the caller graph for this function:



8.97.3.2 `exec()` [1/3]

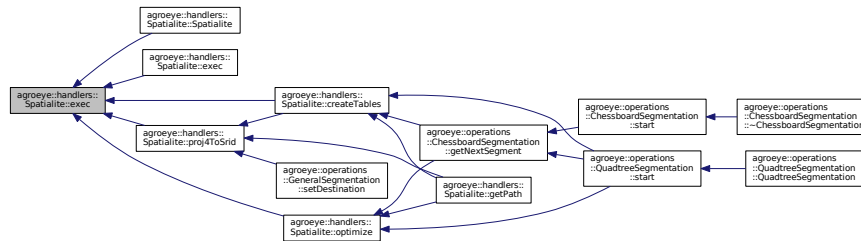
```
void agroeye::handlers::Spatiallite::exec (
    const char * query )
```

Performs query on database.

Parameters

<i>query</i>	The SQL query

Here is the caller graph for this function:



8.97.3.3 `exec()` [2/3]

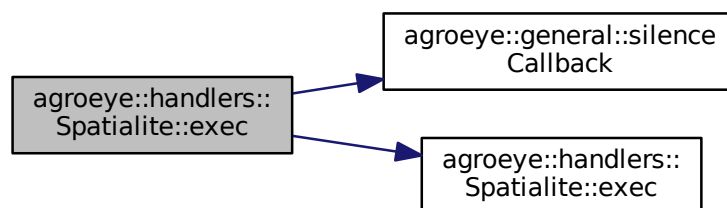
```
void agroeye::handlers::Spatialite::exec (
    const char * query,
    bool silent )
```

Performs query on database Allows to disabling the check of correctness of query.

Parameters

<i>query</i>	The SQL query
<i>silent</i>	If TRUE, results are not checked

Here is the call graph for this function:



8.97.3.4 exec() [3/3]

```
void agroeye::handlers::Spatialite::exec (
    const char * query,
    SqliteCallback callback )
```

Performs query on database Allows to retrieve the information from database.

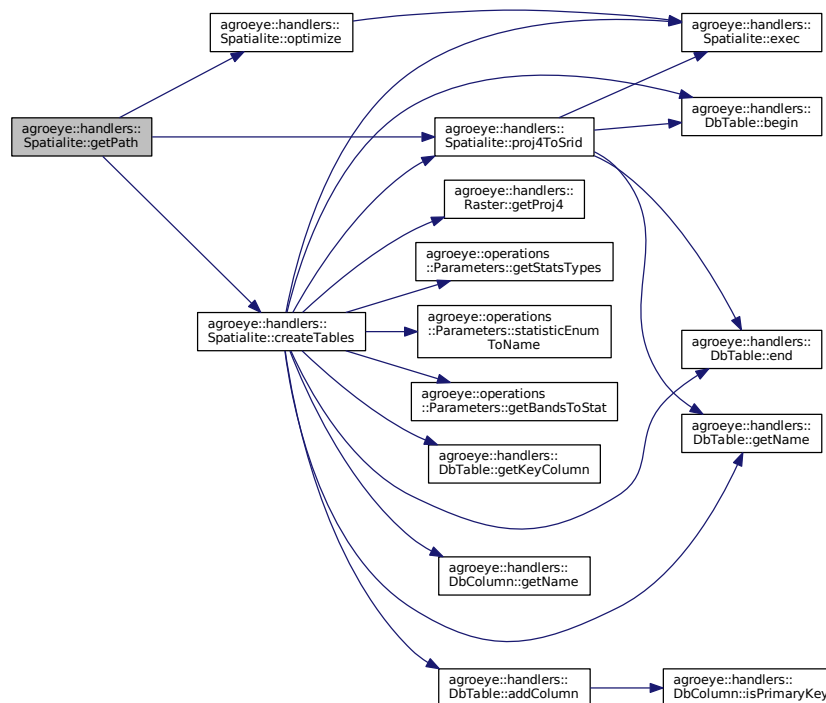
Parameters

<i>query</i>	The SQL query
<i>callback</i>	Callback function retrieving data

8.97.3.5 `getPath()`

```
std::string agroeye::handlers::Spatiallite::getPath ( ) const [inline]
```

Here is the call graph for this function:



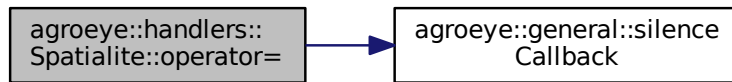
8.97.3.6 `operator=()` [1/2]

```
Spatiallite & agroeye::handlers::Spatiallite::operator= (
    const Spatiallite & other )
```

8.97.3.7 `operator=()` [2/2]

```
Spatiallite & agroeye::handlers::Spatiallite::operator= (
    Spatiallite && other )
```

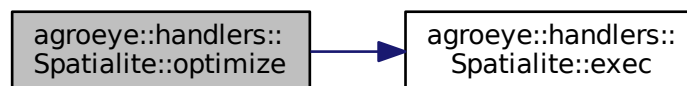
Here is the call graph for this function:



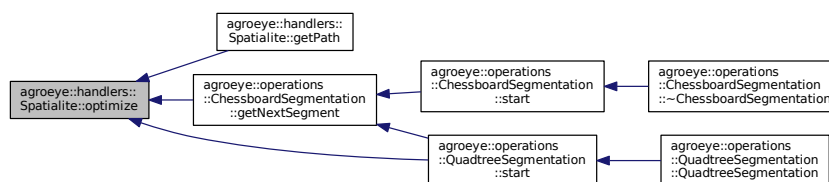
8.97.3.8 optimize()

```
void agroeye::handlers::Spatialite::optimize ( )
```

Returns path to the database Sets on database optimizations for fast inserting Here is the call graph for this function:



Here is the caller graph for this function:



8.97.3.9 proj4ToSrid()

```
std::string agroeye::handlers::Spatialite::proj4ToSrid (
    std::string proj4 )
```

Converts Proj4 spial reference into SRID value_comp.

Tries to find matchin SRID number. If it failes return -1 value.

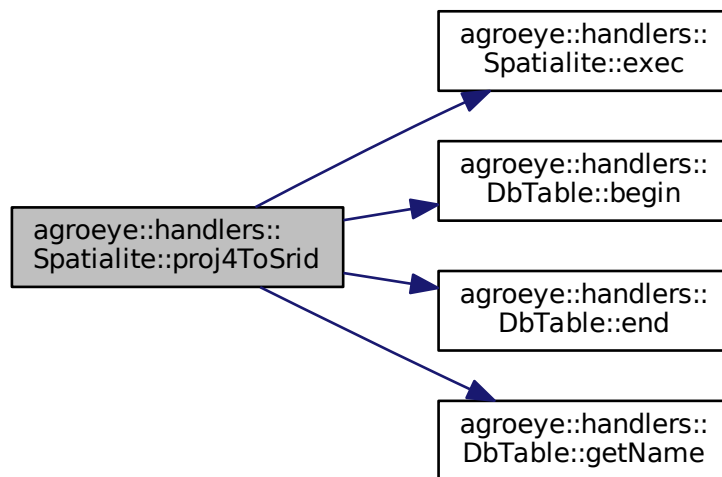
Parameters

<i>proj4</i>	String with Proj4 definition

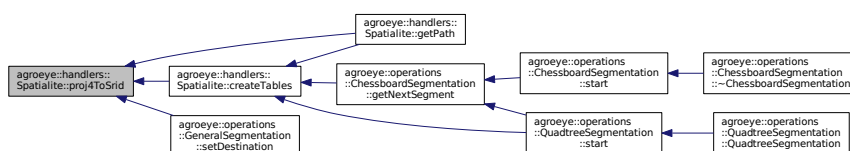
Returns

SRID value

Here is the call graph for this function:



Here is the caller graph for this function:



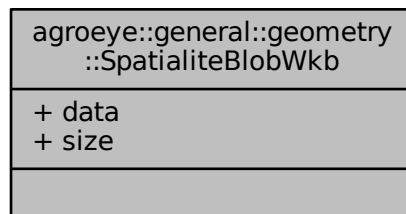
The documentation for this class was generated from the following files:

- [src/src/agroeye/handlers/Database/DatabaseSpatialite.h](#)
- [src/src/agroeye/handlers/Database/DatabaseSpatialite.cpp](#)

8.98 agroeye::general::geometry::SpatialiteBlobWkb Struct Reference

```
#include <SpatialiteBlob.h>
```

Collaboration diagram for agroeye::general::geometry::SpatialiteBlobWkb:



Public Types

- using [SpatialiteData](#) = std::unique_ptr< unsigned char, std::function< void(unsigned char *)>>>

Public Attributes

- [SpatialiteData](#) [data](#) {nullptr, [] (unsigned char* ptr) {free(ptr);}}
- int [size](#) {0}

8.98.1 Member Typedef Documentation

8.98.1.1 SpatialiteData

```
using agroeye::general::geometry::SpatialiteBlobWkb::SpatialiteData = std::unique_ptr<unsigned
char, std::function<void(unsigned char*)>>>
```

Self-cleaning smart pointer of binary data

8.98.2 Member Data Documentation

8.98.2.1 data

```
SpatialiteData agroeye::general::geometry::SpatialiteBlobWkb::data {nullptr, [] (unsigned
char* ptr) {free(ptr);}}
```

Pointer to memory with binary data

8.98.2.2 size

```
int agroeye::general::geometry::SpatialiteBlobWkb::size {0}
```

Size of binary data

The documentation for this struct was generated from the following file:

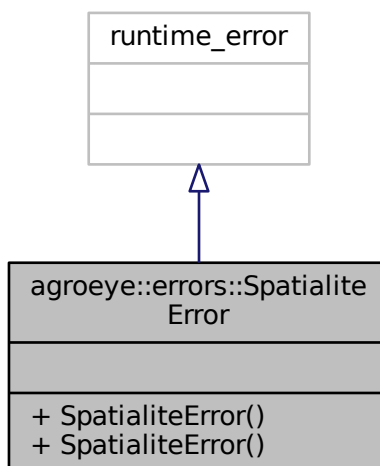
- [src/src/agroeye/general/SpatialiteBlob.h](#)

8.99 agroeye::errors::SpatialiteError Class Reference

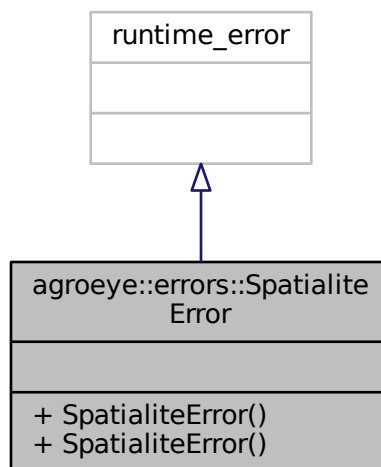
Exceptions associated with [agroeye::handlers::Spatialite](#).

```
#include <DatabaseErrors.h>
```

Inheritance diagram for agroeye::errors::SpatialiteError:



Collaboration diagram for agroeye::errors::SpatialiteError:



Public Member Functions

- [SpatialiteError](#) (std::string msg)
Exception with custom information.
- [SpatialiteError](#) ()
Exception with default information.

8.99.1 Detailed Description

Exceptions associated with [agroeye::handlers::Spatialite](#).

8.99.2 Constructor & Destructor Documentation

8.99.2.1 SpatialiteError() [1/2]

```
agroeye::errors::SpatialiteError::SpatialiteError (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.99.2.2 SpatialiteError() [2/2]

```
agroeye::errors::SpatialiteError::SpatialiteError ( ) [inline]
```

Exception with default information.

The documentation for this class was generated from the following file:

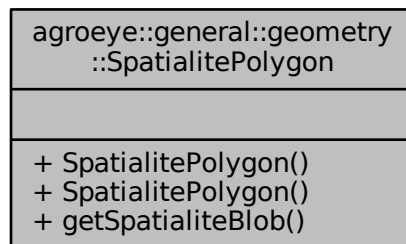
- [src/src/agroeye/errors/DatabaseErrors.h](#)

8.100 agroeye::general::geometry::SpatialitePolygon Class Reference

Class converting raster information into Spatialite Polygon.

```
#include <Geometries.h>
```

Collaboration diagram for agroeye::general::geometry::SpatialitePolygon:



Public Member Functions

- [SpatialitePolygon](#) ()
Simple constructor Exists only to allow creation classes with [SpatialitePolygon](#) as member.
- [SpatialitePolygon](#) ([Raster](#) &raster, int srid)
Constructor preparing object for transformation.
- [SpatialiteBlobWkb](#) [getSpatialiteBlob](#) (const [RasterDataGroup](#) &rasterData) const
Converts given RasterData into Spatialite BLOB WKB object.

8.100.1 Detailed Description

Class converting raster information into Spatialite Polygon.

Class converts fragment of raster image ([agroeye::handlers::RasterData](#))

See also

[agroeye::handlers::Raster](#)

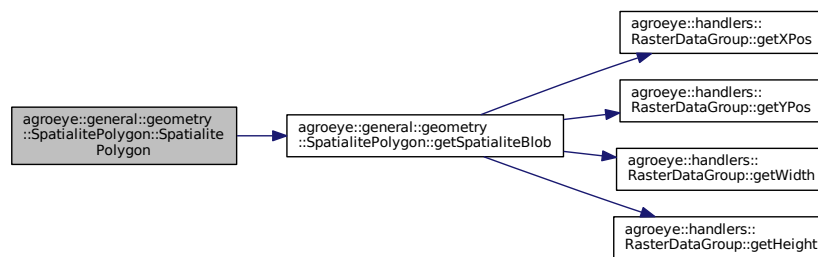
8.100.2 Constructor & Destructor Documentation

8.100.2.1 SpatialitePolygon() [1/2]

```
agroeye::general::geometry::SpatialitePolygon::SpatialitePolygon ( ) [inline]
```

Simple constructor Exists only to allow creation classes with [SpatialitePolygon](#) as member.

Here is the call graph for this function:



8.100.2.2 SpatialitePolygon() [2/2]

```
agroeye::general::geometry::SpatialitePolygon::SpatialitePolygon (
    Raster & raster,
    int srid )
```

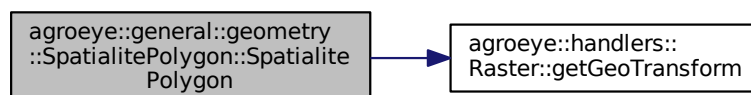
Constructor preparing object for tranformation.

Intializes object with values required for transformation from pixel information into spatialite polygon object

Parameters

<i>Raster</i>	Reference to raster
<i>srid</i>	SRID value of raster

Here is the call graph for this function:



8.100.3 Member Function Documentation

8.100.3.1 `getSpatialiteBlob()`

```
SpatialiteBlobWkb agroeye::general::geometry::SpatialitePolygon::getSpatialiteBlob (
    const RasterDataGroup & rasterData ) const
```

Converts given RasterData into Spatialite BLOB WKB object.

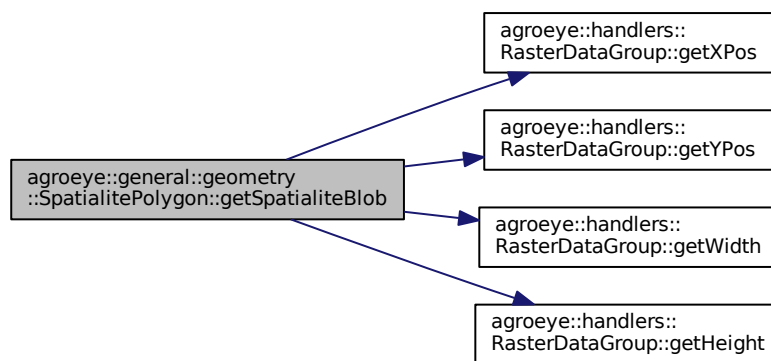
Parameters

<i>rasterData</i>	RasterData which will be translated into Spatialite Binary Object

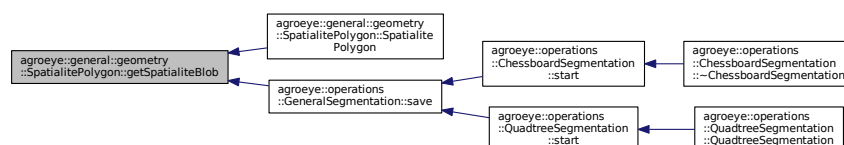
Returns

Object with binary data and binary data size

Here is the call graph for this function:



Here is the caller graph for this function:

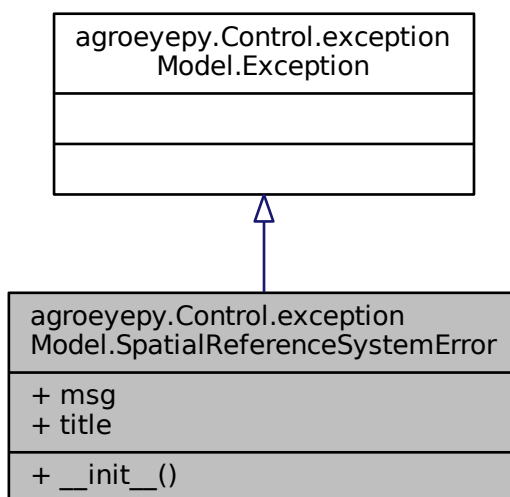


The documentation for this class was generated from the following files:

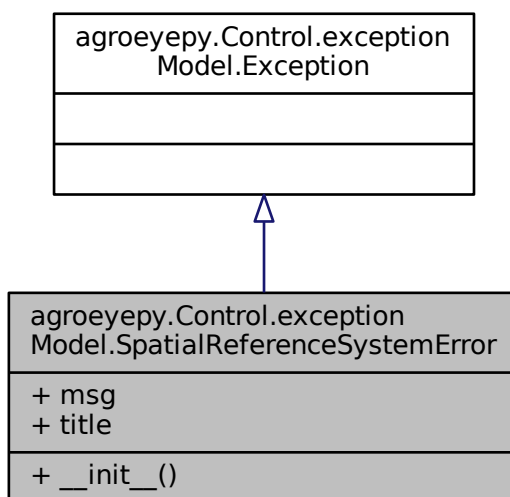
- `src/src/agroeye/general/Geometries.h`
- `src/src/agroeye/general/Geometries.cpp`

8.101 agroeyepy.Control.exceptionModel.SpatialReferenceSystemError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.SpatialReferenceSystemError:



Collaboration diagram for agroeyepy.Control.exceptionModel.SpatialReferenceSystemError:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- [msg](#)
- [title](#)

8.101.1 Constructor & Destructor Documentation

8.101.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.SpatialReferenceSystemError.__init__ (
    self )
```

8.101.2 Member Data Documentation

8.101.2.1 `msg`

```
agroeyepy.Control.exceptionModel.SpatialReferenceSystemError.msg
```

8.101.2.2 `title`

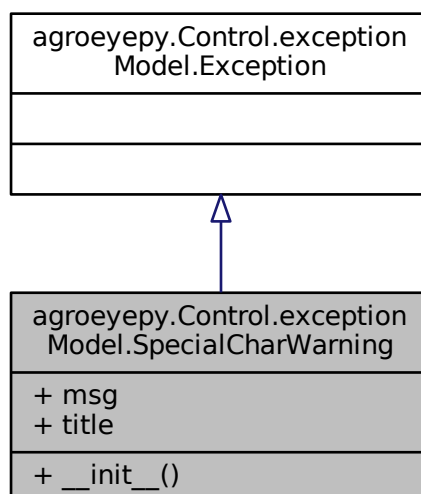
```
agroeyepy.Control.exceptionModel.SpatialReferenceSystemError.title
```

The documentation for this class was generated from the following file:

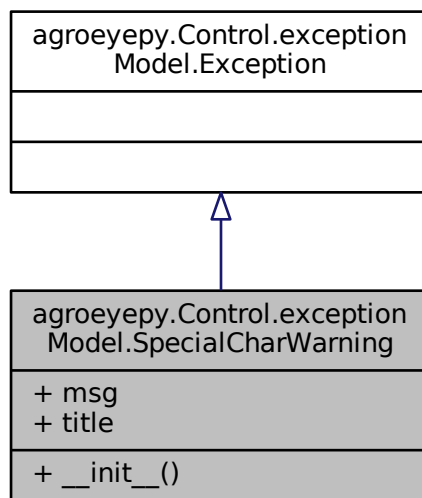
- [agroeyepy/Control/exceptionModel.py](#)

8.102 `agroeyepy.Control.exceptionModel.SpecialCharWarning` Class Reference

Inheritance diagram for `agroeyepy.Control.exceptionModel.SpecialCharWarning`:



Collaboration diagram for agroeyepy.Control.exceptionModel.SpecialCharWarning:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- `msg`
- `title`

8.102.1 Constructor & Destructor Documentation

8.102.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.SpecialCharWarning.__init__(  
    self )
```

8.102.2 Member Data Documentation

8.102.2.1 `msg`

```
agroeyepy.Control.exceptionModel.SpecialCharWarning.msg
```

8.102.2.2 title

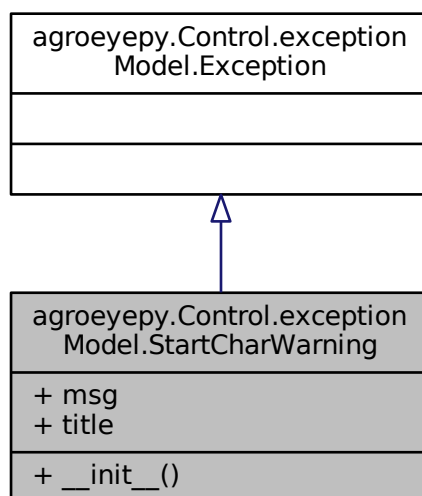
`agroeyepy.Control.exceptionModel.SpecialCharWarning.title`

The documentation for this class was generated from the following file:

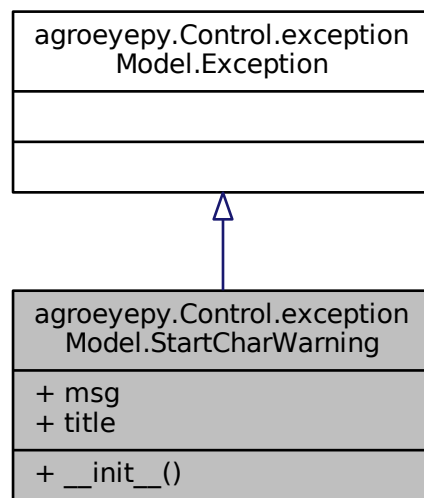
- `agroeyepy/Control/exceptionModel.py`

8.103 agroeyepy.Control.exceptionModel.StartCharWarning Class Reference

Inheritance diagram for `agroeyepy.Control.exceptionModel.StartCharWarning`:



Collaboration diagram for agroeyepy.Control.exceptionModel.StartCharWarning:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- `msg`
- `title`

8.103.1 Constructor & Destructor Documentation

8.103.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.StartCharWarning.__init__ (
    self )
```

8.103.2 Member Data Documentation

8.103.2.1 `msg`

```
agroeyepy.Control.exceptionModel.StartCharWarning.msg
```

8.103.2.2 title

```
agroeyepy.Control.exceptionModel.StartCharWarning.title
```

The documentation for this class was generated from the following file:

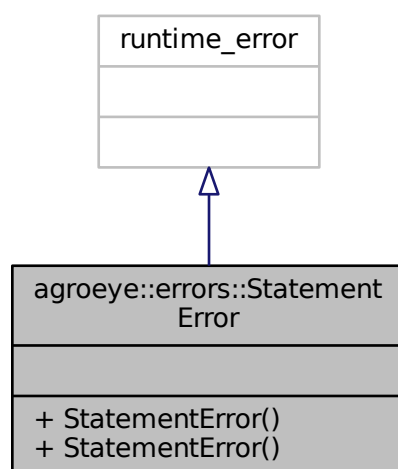
- [agroeyepy/Control/exceptionModel.py](#)

8.104 agroeye::errors::StatementError Class Reference

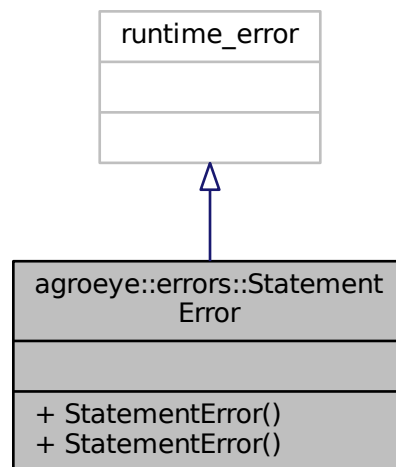
Exceptions associated with Statements.

```
#include <DatabaseErrors.h>
```

Inheritance diagram for agroeye::errors::StatementError:



Collaboration diagram for agroeye::errors::StatementError:



Public Member Functions

- [StatementError](#) (std::string msg)
Exception with custom information.
- [StatementError](#) ()
Exception with custom information.

8.104.1 Detailed Description

Exceptions associated with Statements.

See also

[agroeye::handlers::GeneralStatement](#)
[agroeye::handlers::GeometryStatement](#)
[agroeye::handlers::StatisticStatement](#)
[agroeye::handlers::PreparedStatement](#)

8.104.2 Constructor & Destructor Documentation

8.104.2.1 StatementError() [1/2]

```
agroeye::errors::StatementError::StatementError (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.104.2.2 StatementError() [2/2]

```
agroeye::errors::StatementError::StatementError ( ) [inline]
```

Exception with custom information.

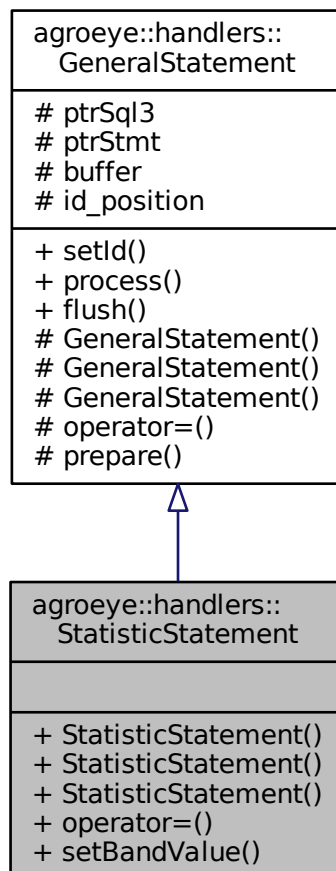
The documentation for this class was generated from the following file:

- [src/src/agroeye/errors/DatabaseErrors.h](#)

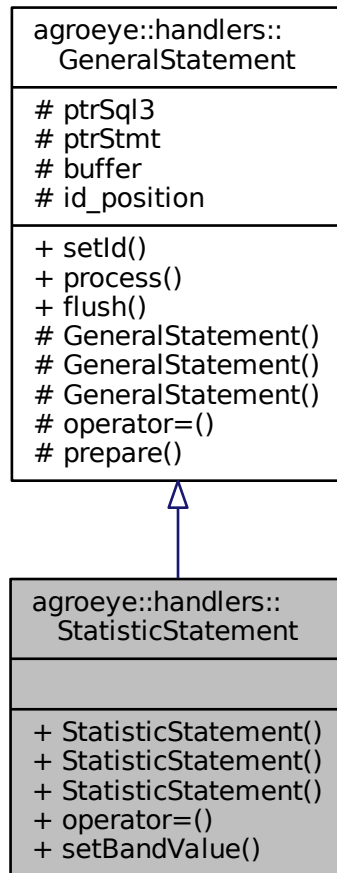
8.105 agroeye::handlers::StatisticStatement Class Reference

```
#include <DatabaseStatements.h>
```

Inheritance diagram for agroeye::handlers::StatisticStatement:



Collaboration diagram for agroeye::handlers::StatisticStatement:



Public Member Functions

- [StatisticStatement](#) ()
- [StatisticStatement](#) (std::shared_ptr< sqlite3 > aPtrSql3, const [DbTable](#) &table)
Creates statistic statement.
- [StatisticStatement](#) ([StatisticStatement](#) &&)=default
- [StatisticStatement](#) & [operator=](#) ([StatisticStatement](#) &&)=default
- void [setBandValue](#) (const int &band, const double &value)
Set value to the appropriate band.

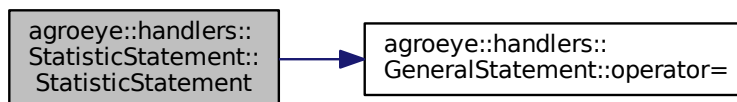
Additional Inherited Members

8.105.1 Constructor & Destructor Documentation

8.105.1.1 `StatisticStatement()` [1/3]

```
agroeye::handlers::StatisticStatement::StatisticStatement ( ) [inline]
```

Here is the call graph for this function:



8.105.1.2 `StatisticStatement()` [2/3]

```
agroeye::handlers::StatisticStatement::StatisticStatement (
    std::shared_ptr< sqlite3 > aPtrSql3,
    const DbTable & table )
```

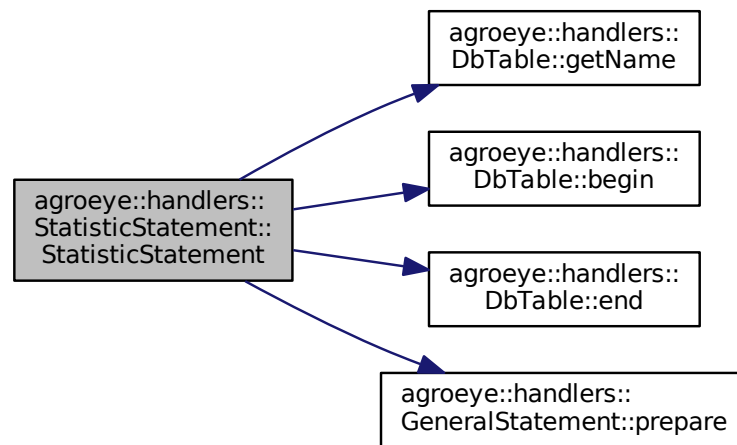
Creates statistic statement.

Created statistics statement is according to the table schema.

Parameters

<i>ptrSql3</i>	Smart pointer to the sqlite3 database
<i>table</i>	Table with columns to be created

Here is the call graph for this function:



8.105.1.3 StatisticStatement() [3/3]

```
agroeye::handlers::StatisticStatement::StatisticStatement (
    StatisticStatement && ) [default]
```

8.105.2 Member Function Documentation

8.105.2.1 operator=()

```
StatisticStatement& agroeye::handlers::StatisticStatement::operator= (
    StatisticStatement && ) [default]
```

8.105.2.2 setBandValue()

```
void agroeye::handlers::StatisticStatement::setBandValue (
    const int & band,
    const double & value )
```

Set value to the appropriate band.

Parameters

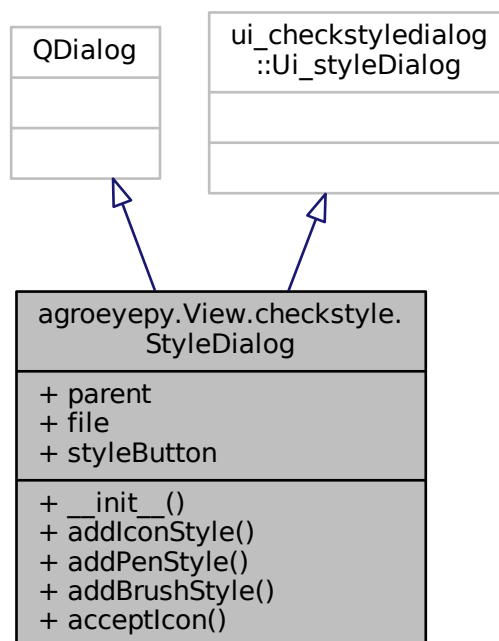
<i>band</i>	Relevant band
<i>value</i>	Value to be added

The documentation for this class was generated from the following files:

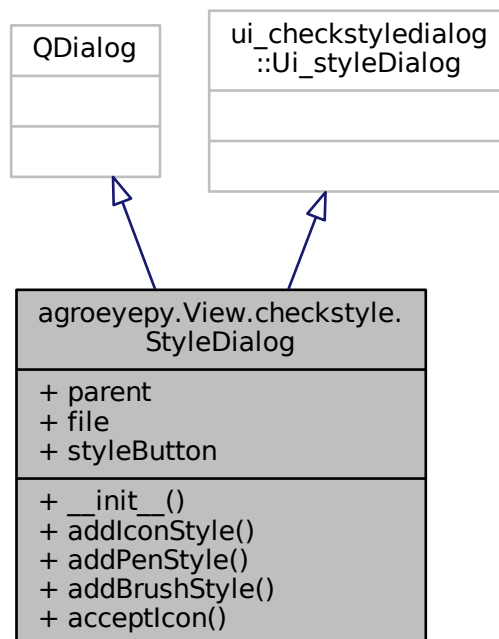
- [src/src/agroeye/handlers/Database/DatabaseStatements.h](#)
- [src/src/agroeye/handlers/Database/DatabaseStatements.cpp](#)

8.106 agroeyepy.View.checkstyle.StyleDialog Class Reference

Inheritance diagram for agroeyepy.View.checkstyle.StyleDialog:



Collaboration diagram for agroeyepy.View.checkstyle.StyleDialog:



Public Member Functions

- `def __init__(self, parent, file, styleButton)`
- `def addIconStyle(self)`
- `def addPenStyle(self)`
- `def addBrushStyle(self)`
- `def acceptIcon(self)`

Public Attributes

- `parent`
- `file`
- `styleButton`

8.106.1 Constructor & Destructor Documentation

8.106.1.1 __init__()

```

def agroeyepy.View.checkstyle.StyleDialog.__init__(
    self,
    parent,
    file,
    styleButton )
  
```

8.106.2 Member Function Documentation

8.106.2.1 acceptIcon()

```
def agroeyepy.View.checkstyle.StyleDialog.acceptIcon (
    self )
```

8.106.2.2 addBrushStyle()

```
def agroeyepy.View.checkstyle.StyleDialog.addBrushStyle (
    self )
```

8.106.2.3 addIconStyle()

```
def agroeyepy.View.checkstyle.StyleDialog.addIconStyle (
    self )
```

8.106.2.4 addPenStyle()

```
def agroeyepy.View.checkstyle.StyleDialog.addPenStyle (
    self )
```

8.106.3 Member Data Documentation

8.106.3.1 file

```
agroeyepy.View.checkstyle.StyleDialog.file
```

8.106.3.2 parent

```
agroeyepy.View.checkstyle.StyleDialog.parent
```

8.106.3.3 styleButton

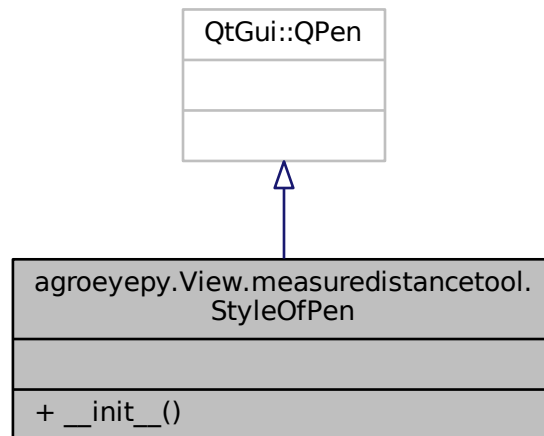
```
agroeyepy.View.checkstyle.StyleDialog.styleButton
```

The documentation for this class was generated from the following file:

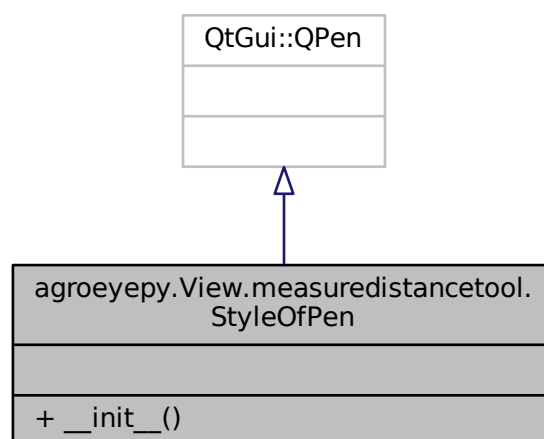
- [agroeyepy/View/checkstyle.py](#)

8.107 agroeyepy.View.measuredistancetool.StyleOfPen Class Reference

Inheritance diagram for agroeyepy.View.measuredistancetool.StyleOfPen:



Collaboration diagram for agroeyepy.View.measuredistancetool.StyleOfPen:



Public Member Functions

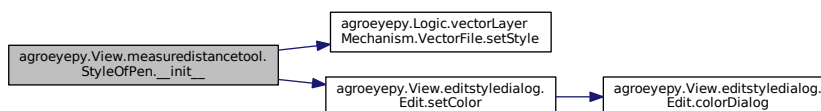
- `def \_\_init\_\_(self)`

8.107.1 Constructor & Destructor Documentation

8.107.1.1 `__init__()`

```
def agroeyepy.View.measuredistancetool.StyleOfPen.__init__ (
    self )
```

Here is the call graph for this function:

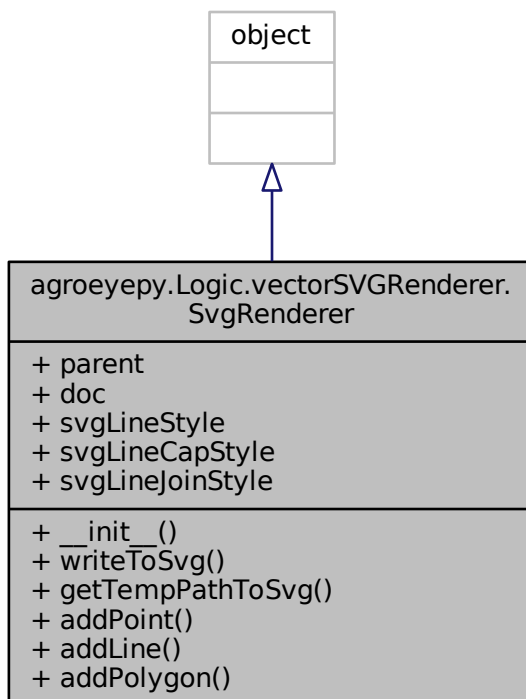


The documentation for this class was generated from the following file:

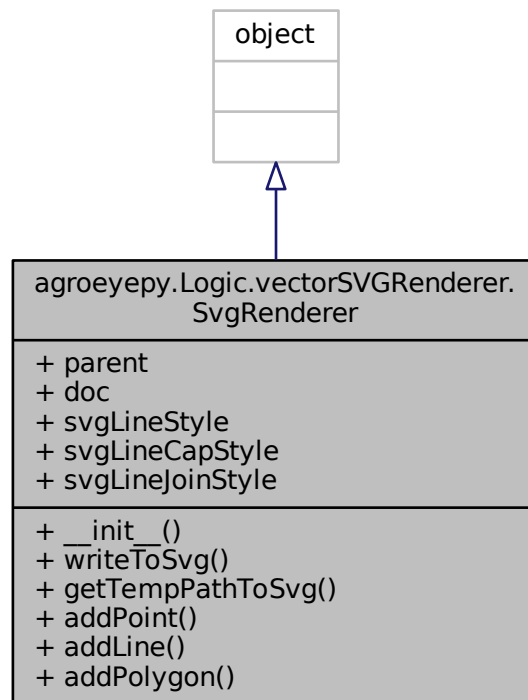
- `agroeyepy/View/measuredistancetool.py`

8.108 `agroeyepy.Logic.vectorSVGRenderer.SvgRenderer` Class Reference

Inheritance diagram for `agroeyepy.Logic.vectorSVGRenderer.SvgRenderer`:



Collaboration diagram for agroeyepy.Logic.vectorSVGRenderer.SvgRenderer:



Public Member Functions

- def `__init__` (self, [parent](#), column, row)
Open file and read basic information.
- def `writeToSvg` (self, vertex, pixSize, extent)
Create file and write basic parameters.
- def `getTempPathToSvg` (self, name)
Create path to svg.
- def `addPoint` (self, vertex, pixSize, extent)
Add points to svg graphics.
- def `addLine` (self, vertex, pixSize, extent)
Add lines to svg graphics.
- def `addPolygon` (self, vertex, pixSize, extent)
Add polygons to svg graphics.

Public Attributes

- [parent](#)
- [doc](#)
- [svgLineStyle](#)
- [svgLineCapStyle](#)
- [svgLineJoinStyle](#)

8.108.1 Constructor & Destructor Documentation

8.108.1.1 `__init__()`

```
def agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.__init__ (
    self,
    parent,
    column,
    row )
```

Open file and read basic information.

Parameters

<i>column</i>	Size of column.
<i>row</i>	Size of row.

8.108.2 Member Function Documentation

8.108.2.1 `addLine()`

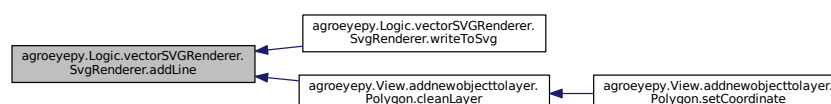
```
def agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.addLine (
    self,
    vertex,
    pixSize,
    extent )
```

Add lines to svg graphics.

Parameters

<i>vertex</i>	Vertex object.
<i>pixSize</i>	Size of pixel.
<i>extent</i>	Extent of vector.

Here is the caller graph for this function:



8.108.2.2 `addPoint()`

```
def agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.addPoint (
    self,
```



```

    vertex,
    pixSize,
    extent )

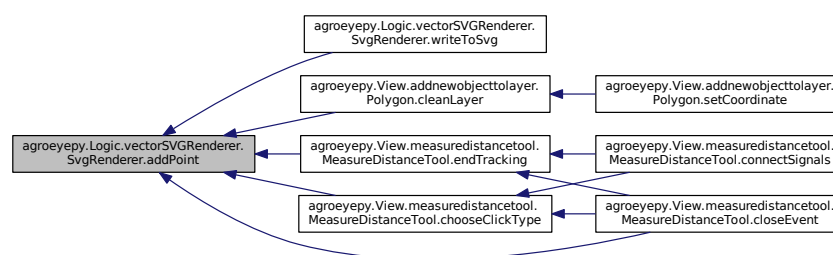
```

Add points to svg graphics.

Parameters

<i>vertex</i>	Vertex object.
<i>pixSize</i>	Size of pixel.
<i>extent</i>	Extent of vector.

Here is the caller graph for this function:



8.108.2.3 addPolygon()

```

def agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.addPolygon (
    self,
    vertex,
    pixSize,
    extent )

```

Add polygons to svg graphics.

Parameters

<i>vertex</i>	Vertex object.
<i>pixSize</i>	Size of pixel.
<i>extent</i>	Extent of vector.

Here is the caller graph for this function:



8.108.2.4 getTempPathToSvg()

```
def agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.getTempPathToSvg (
    self,
    name )
```

Create path to svg.

Returns the path to created svg file.

Parameters

<i>name</i>	The name of created svg file.

Here is the caller graph for this function:



8.108.2.5 writeToSvg()

```
def agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.writeToSvg (
    self,
    vertex,
    pixSize,
    extent )
```

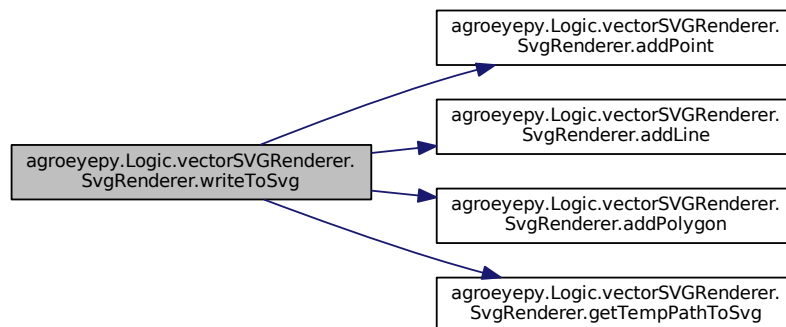
Create file and write basic parameters.

Returns name of created svg file.

Parameters

<i>vertex</i>	Vertex object.
<i>pixSize</i>	Size of pixel.
<i>extent</i>	Extent of vector.

Here is the call graph for this function:



8.108.3 Member Data Documentation

8.108.3.1 doc

`agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.doc`

8.108.3.2 parent

`agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.parent`

8.108.3.3 svgLineCapStyle

`agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.svgLineCapStyle`

8.108.3.4 svgLineJoinStyle

`agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.svgLineJoinStyle`

8.108.3.5 svgLineStyle

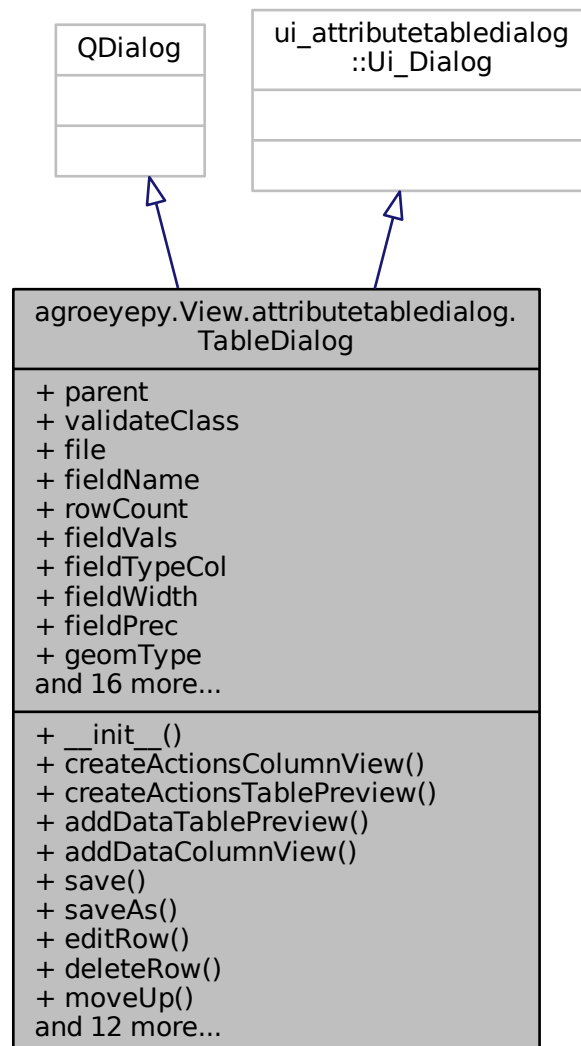
`agroeyepy.Logic.vectorSVGRenderer.SvgRenderer.svgLineStyle`

The documentation for this class was generated from the following file:

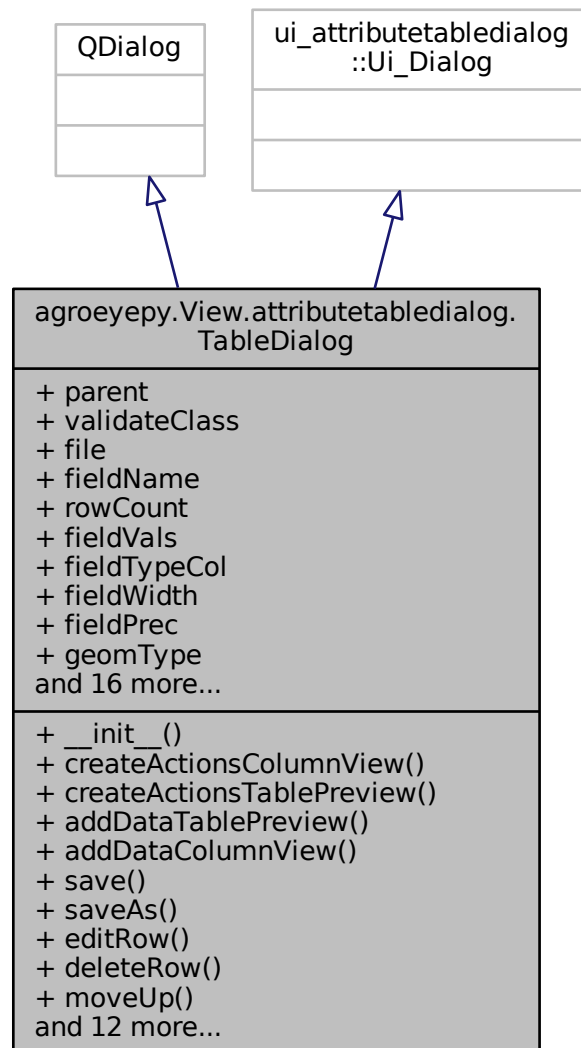
- `agroeyepy/Logic/vectorSVGRenderer.py`

8.109 agroeyepy.View.attributetabledialog.TableDialog Class Reference

Inheritance diagram for agroeyepy.View.attributetabledialog.TableDialog:



Collaboration diagram for agroeyepy.View.attributetabledialog.TableDialog:



Public Member Functions

- `def __init__(self, parent, rowSelected)`
Open attribute table.
- `def createActionsColumnView(self)`
Create action for QToolButton on Toolbar in Table Preview.
- `def createActionsTablePreview(self)`
Create action for QToolButton on Toolbar in Table Preview.
- `def addDataTablePreview(self)`
Create attribute table.
- `def addDataColumnView(self)`
Create preview of column.

- def [save](#) (self)
Save the all changes to vector file.
- def [saveAs](#) (self)
Open dialog to save vector to new shapefile.
- def [editRow](#) (self)
turn on/off edit button for table preview
- def [deleteRow](#) (self)
Delete selected row.
- def [moveUp](#) (self)
Move up selected column.
- def [moveDown](#) (self)
Move down selected column.
- def [moveTop](#) (self)
Move selected column at the top of table.
- def [addColumn](#) (self)
Add one column at the end of table.
- def [deleteColumn](#) (self)
Delete one or more columns.
- def [renameColumn](#) (self)
Edit column name.
- def [changeRow](#) (self, item)
Action after edit rows.
- def [selectRow](#) (self, item)
Action after selected row.
- def [updateColumn](#) (self)
Update column after edit.
- def [updateRow](#) (self)
Updates rows after edit.
- def [refreshTablePreview](#) (self, index)
Action after switch tab.
- def [cancel](#) (self)
Action after select cancel.
- def [comboChanged](#) (self, index)
Action after changed field in typeComboBox.

Public Attributes

- [parent](#)
- [validateClass](#)
- [file](#)
- [fieldName](#)
- [rowCount](#)
- [fieldVals](#)
- [fieldTypeCol](#)
- [fieldWidth](#)
- [fieldPrec](#)
- [geomType](#)
- [geomData](#)
- [srs](#)
- [addColumn](#)
- [delColumn](#)

- [editColumn](#)
- [renameColumn](#)
- [delRow](#)
- [moveUpAction](#)
- [moveDownAction](#)
- [moveTopAction](#)
- [addColAction](#)
- [delColAction](#)
- [changeNameAction](#)
- [editAction](#)
- [delRowAction](#)
- [comboList](#)

8.109.1 Constructor & Destructor Documentation

8.109.1.1 `__init__()`

```
def agroeyepy.View.attributetabledialog.TableDialog.__init__ (
    self,
    parent,
    rowSelected )
```

Open attribute table.

Parameters

<i>rowSelected</i>	is the selected file

8.109.2 Member Function Documentation

8.109.2.1 `addColumn()`

```
def agroeyepy.View.attributetabledialog.TableDialog.addColumn (
    self )
```

Add one column at the end of table.

Shows new dialog to set name and type of new column. Returns new column.

8.109.2.2 `addDataColumnView()`

```
def agroeyepy.View.attributetabledialog.TableDialog.addDataColumnView (
    self )
```

Create preview of column.

8.109.2.3 addDataTablePreview()

```
def agroeyepy.View.attributetabledialog.TableDialog.addDataTablePreview (
    self )
```

Create attribute table.

Here is the caller graph for this function:



8.109.2.4 cancel()

```
def agroeyepy.View.attributetabledialog.TableDialog.cancel (
    self )
```

Action after select cancel.

8.109.2.5 changeRow()

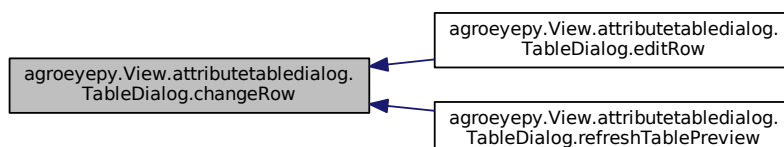
```
def agroeyepy.View.attributetabledialog.TableDialog.changeRow (
    self,
    item )
```

Action after edit rows.

Here is the call graph for this function:



Here is the caller graph for this function:



8.109.2.6 comboChanged()

```
def agroeyepy.View.attributetabledialog.TableDialog.comboChanged (
    self,
    index )
```

Action after changed field in typeComboBox.

Parameters

<i>index</i>	index of new selected row.

Here is the call graph for this function:

**8.109.2.7 createActionsColumnView()**

```
def agroeyepy.View.attributetabledialog.TableDialog.createActionsColumnView (
    self )
```

Create action for QPushButton on Toolbar in Table Preview.

8.109.2.8 createActionsTablePreview()

```
def agroeyepy.View.attributetabledialog.TableDialog.createActionsTablePreview (
    self )
```

Create action for QPushButton on Toolbar in Table Preview.

8.109.2.9 deleteColumn()

```
def agroeyepy.View.attributetabledialog.TableDialog.deleteColumn (
    self )
```

Delete one or more columns.

Shows new dialog to choose deleted column.

8.109.2.10 deleteRow()

```
def agroeyepy.View.attributetabledialog.TableDialog.deleteRow (
    self )
```

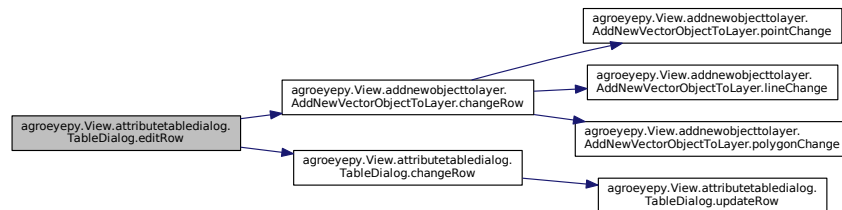
Delete selected row.

8.109.2.11 editRow()

```
def agroeyepy.View.attributetabledialog.TableDialog.editRow (
    self )
```

turn on/off edit button for table preview

Here is the call graph for this function:

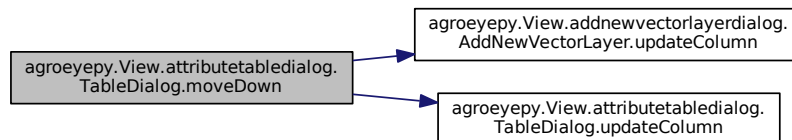


8.109.2.12 moveDown()

```
def agroeyepy.View.attributetabledialog.TableDialog.moveDown (
    self )
```

Move down selected column.

Here is the call graph for this function:

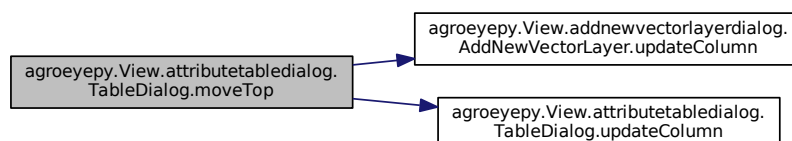


8.109.2.13 moveTop()

```
def agroeyepy.View.attributetabledialog.TableDialog.moveTop (
    self )
```

Move selected column at the top of table.

Here is the call graph for this function:

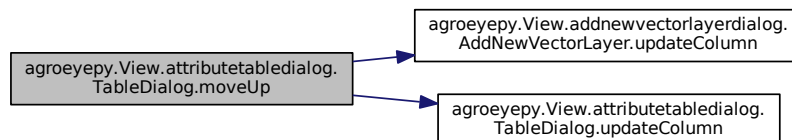


8.109.2.14 moveUp()

```
def agroeyepy.View.attributetabledialog.TableDialog.moveUp (
    self )
```

Move up selected column.

Here is the call graph for this function:



8.109.2.15 refreshTablePreview()

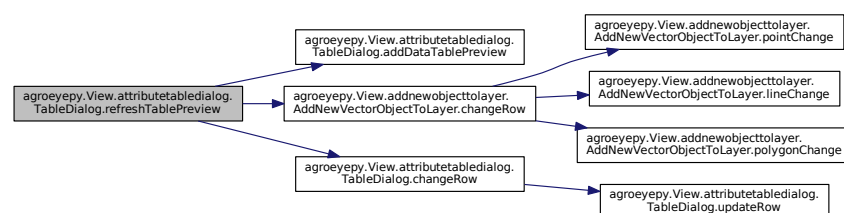
```
def agroeyepy.View.attributetabledialog.TableDialog.refreshTablePreview (
    self,
    index )
```

Action after switch tab.

Parameters

<i>index</i>	index of switched table.

Here is the call graph for this function:



8.109.2.16 renameColumn()

```
def agroeyepy.View.attributetabledialog.TableDialog.renameColumn (
    self )
```

Edit column name.

8.109.2.17 save()

```
def agroeyepy.View.attributetabledialog.TableDialog.save (  
    self )
```

Save the all changes to vector file.

Edits opened file, not create new.

8.109.2.18 saveAs()

```
def agroeyepy.View.attributetabledialog.TableDialog.saveAs (  
    self )
```

Open dialog to save vector to new shapefile.

User choose new name.

8.109.2.19 selectRow()

```
def agroeyepy.View.attributetabledialog.TableDialog.selectRow (  
    self,  
    item )
```

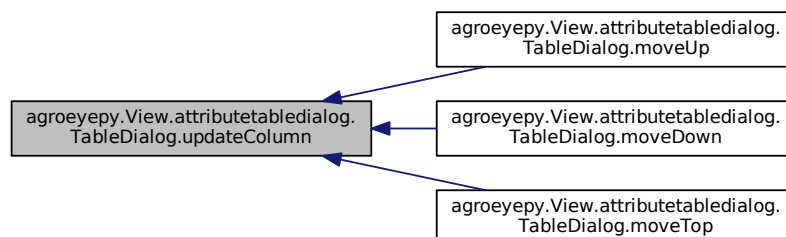
Action after selected row.

8.109.2.20 updateColumn()

```
def agroeyepy.View.attributetabledialog.TableDialog.updateColumn (  
    self )
```

Update column after edit.

Here is the caller graph for this function:

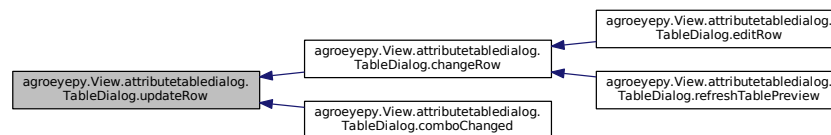


8.109.2.21 updateRow()

```
def agroeyepy.View.attributetabledialog.TableDialog.updateRow (
    self )
```

Updates rows after edit.

Here is the caller graph for this function:

**8.109.3 Member Data Documentation****8.109.3.1 addColAction**

```
agroeyepy.View.attributetabledialog.TableDialog.addColAction
```

8.109.3.2 addColumn

```
agroeyepy.View.attributetabledialog.TableDialog.addColumn
```

8.109.3.3 changeNameAction

```
agroeyepy.View.attributetabledialog.TableDialog.changeNameAction
```

8.109.3.4 comboList

```
agroeyepy.View.attributetabledialog.TableDialog.comboList
```

8.109.3.5 delColAction

```
agroeyepy.View.attributetabledialog.TableDialog.delColAction
```

8.109.3.6 delColumn

```
agroeyepy.View.attributetabledialog.TableDialog.delColumn
```

8.109.3.7 delRow

`agroeyepy.View.attributetabledialog.TableDialog.delRow`

8.109.3.8 delRowAction

`agroeyepy.View.attributetabledialog.TableDialog.delRowAction`

8.109.3.9 editAction

`agroeyepy.View.attributetabledialog.TableDialog.editAction`

8.109.3.10 editColumn

`agroeyepy.View.attributetabledialog.TableDialog.editColumn`

8.109.3.11 fieldName

`agroeyepy.View.attributetabledialog.TableDialog.fieldName`

8.109.3.12 fieldPrec

`agroeyepy.View.attributetabledialog.TableDialog.fieldPrec`

8.109.3.13 fieldTypeCol

`agroeyepy.View.attributetabledialog.TableDialog.fieldTypeCol`

8.109.3.14 fieldVals

`agroeyepy.View.attributetabledialog.TableDialog.fieldVals`

8.109.3.15 fieldWidth

`agroeyepy.View.attributetabledialog.TableDialog.fieldWidth`

8.109.3.16 file

`agroeyepy.View.attributetabledialog.TableDialog.file`

8.109.3.17 geomData

agroeyepy.View.attributetabledialog.TableDialog.geomData

8.109.3.18 geomType

agroeyepy.View.attributetabledialog.TableDialog.geomType

8.109.3.19 moveDownAction

agroeyepy.View.attributetabledialog.TableDialog.moveDownAction

8.109.3.20 moveTopAction

agroeyepy.View.attributetabledialog.TableDialog.moveTopAction

8.109.3.21 moveUpAction

agroeyepy.View.attributetabledialog.TableDialog.moveUpAction

8.109.3.22 parent

agroeyepy.View.attributetabledialog.TableDialog.parent

8.109.3.23 renameColumn

agroeyepy.View.attributetabledialog.TableDialog.renameColumn

8.109.3.24 rowCount

agroeyepy.View.attributetabledialog.TableDialog.rowCount

8.109.3.25 srs

agroeyepy.View.attributetabledialog.TableDialog.srs

8.109.3.26 validateClass

agroeyepy.View.attributetabledialog.TableDialog.validateClass

The documentation for this class was generated from the following file:

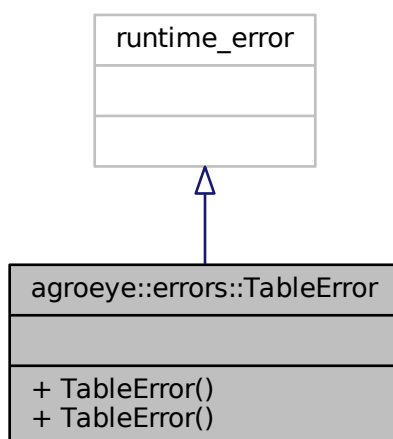
- agroeyepy/View/[attributetabledialog.py](#)

8.110 agroeye::errors::TableError Class Reference

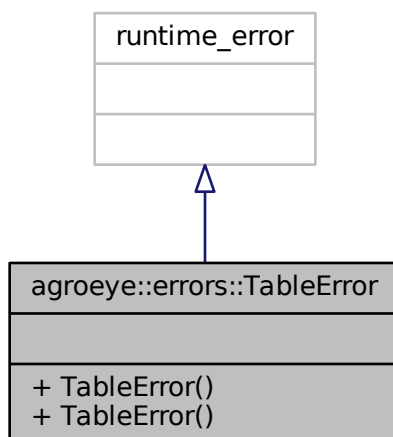
Exceptions associated with [agroeye::handlers::DbTable](#).

```
#include <DatabaseErrors.h>
```

Inheritance diagram for agroeye::errors::TableError:



Collaboration diagram for agroeye::errors::TableError:



Public Member Functions

- [TableError](#) (std::string msg)
Exception with custom information.
- [TableError](#) ()
Exception with default information.

8.110.1 Detailed Description

Exceptions associated with [agroeye::handlers::DbTable](#).

8.110.2 Constructor & Destructor Documentation

8.110.2.1 TableError() [1/2]

```
agroeye::errors::TableError::TableError (
    std::string msg ) [inline]
```

Exception with custom information.

Parameters

<i>msg</i>	Message error

8.110.2.2 TableError() [2/2]

```
agroeye::errors::TableError::TableError ( ) [inline]
```

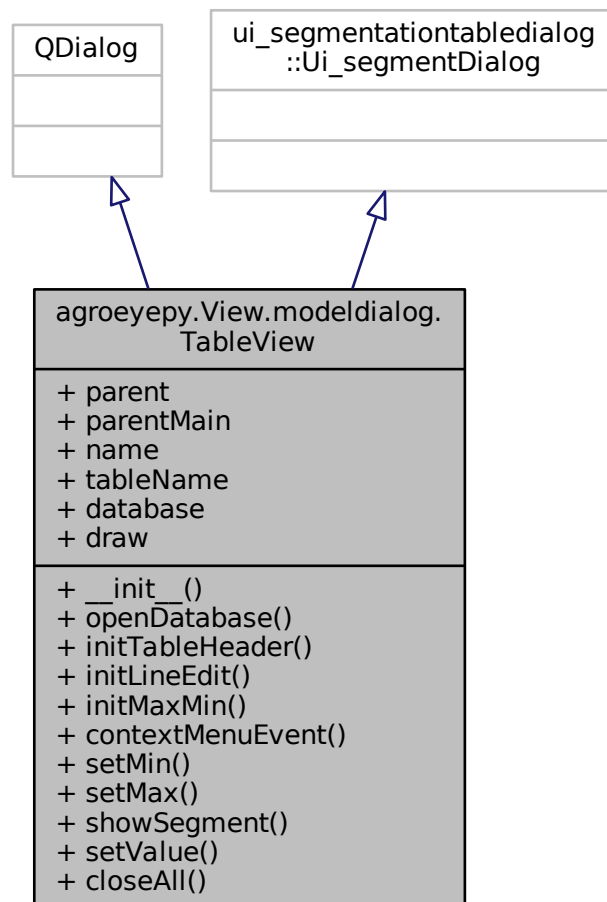
Exception with default information.

The documentation for this class was generated from the following file:

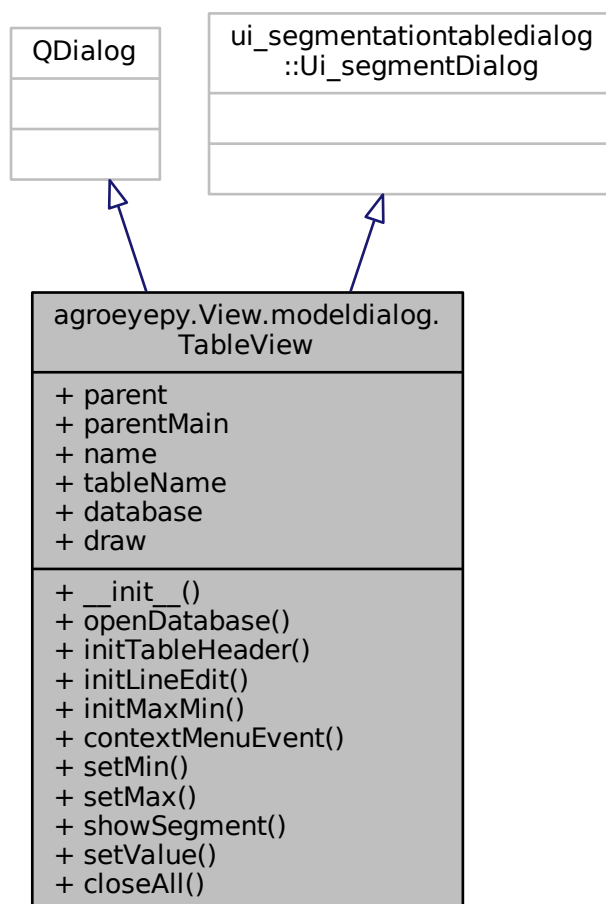
- [src/src/agroeye/errors/DatabaseErrors.h](#)

8.111 agroeyepy.View.modeldialog.tableView Class Reference

Inheritance diagram for agroeyepy.View.modeldialog.tableView:



Collaboration diagram for agroeyepy.View.modeldialog(tableView:



Public Member Functions

- `def __init__ (self, parent)`
- `def openDatabase (self)`
- `def initTableHeader (self)`
- `def initLineEdit (self)`
- `def initMaxMin (self, type)`
- `def contextMenuEvent (self, QContextMenuEvent)`
- `def setMin (self)`
- `def setMax (self)`
- `def showSegment (self)`
- `def setValue (self)`
- `def closeAll (self)`

Public Attributes

- [parent](#)
- [parentMain](#)
- [name](#)
- [tableName](#)
- [database](#)
- [draw](#)

8.111.1 Constructor & Destructor Documentation

8.111.1.1 `__init__()`

```
def agroeyepy.View.modeldialog.TableView.__init__ (
    self,
    parent )
```

8.111.2 Member Function Documentation

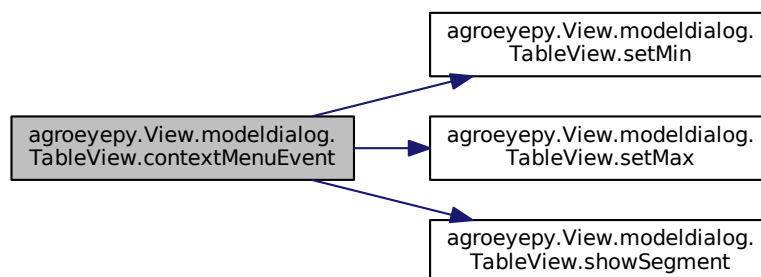
8.111.2.1 `closeAll()`

```
def agroeyepy.View.modeldialog.TableView.closeAll (
    self )
```

8.111.2.2 `contextMenuEvent()`

```
def agroeyepy.View.modeldialog.TableView.contextMenuEvent (
    self,
    QContextMenuEvent )
```

Here is the call graph for this function:



8.111.2.3 initLineEdit()

```
def agroeyepy.View.modeldialog TableView.initLineEdit (
    self )
```

Here is the call graph for this function:



8.111.2.4 initMaxMin()

```
def agroeyepy.View.modeldialog TableView.initMaxMin (
    self,
    type )
```

Here is the caller graph for this function:



8.111.2.5 initTableHeader()

```
def agroeyepy.View.modeldialog TableView.initTableHeader (
    self )
```

8.111.2.6 openDatabase()

```
def agroeyepy.View.modeldialog TableView.openDatabase (
    self )
```

8.111.2.7 setMax()

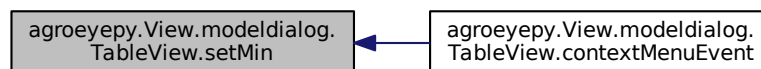
```
def agroeyepy.View.modeldialog.TableView.setMax (  
    self )
```

Here is the caller graph for this function:

**8.111.2.8 setMin()**

```
def agroeyepy.View.modeldialog.TableView.setMin (  
    self )
```

Here is the caller graph for this function:

**8.111.2.9 setValue()**

```
def agroeyepy.View.modeldialog.TableView.setValue (  
    self )
```

8.111.2.10 showSegment()

```
def agroeyepy.View.modeldialog.TableView.showSegment (  
    self )
```

Here is the caller graph for this function:



8.111.3 Member Data Documentation

8.111.3.1 database

`agroeyepy.View.modeldialog.tableView.database`

8.111.3.2 draw

`agroeyepy.View.modeldialog.tableView.draw`

8.111.3.3 name

`agroeyepy.View.modeldialog.tableView.name`

8.111.3.4 parent

`agroeyepy.View.modeldialog.tableView.parent`

8.111.3.5 parentMain

`agroeyepy.View.modeldialog.tableView.parentMain`

8.111.3.6 tableName

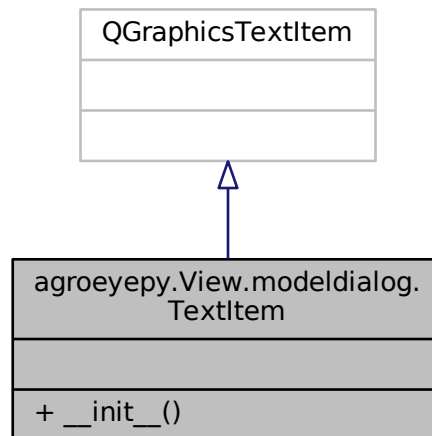
`agroeyepy.View.modeldialog.tableView.tableName`

The documentation for this class was generated from the following file:

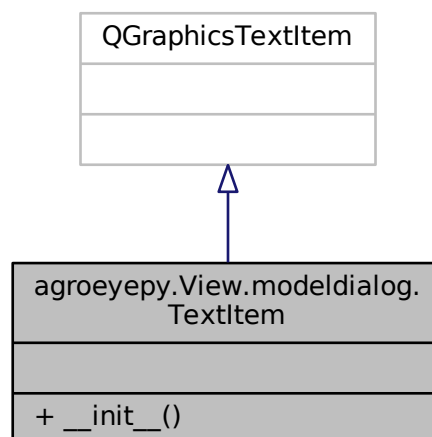
- `agroeyepy/View/modeldialog.py`

8.112 agroeyepy.View.modeldialog.TextItem Class Reference

Inheritance diagram for agroeyepy.View.modeldialog.TextItem:



Collaboration diagram for agroeyepy.View.modeldialog.TextItem:



Public Member Functions

- `def \_\_init\_\_(self, name)`

8.112.1 Constructor & Destructor Documentation

8.112.1.1 __init__()

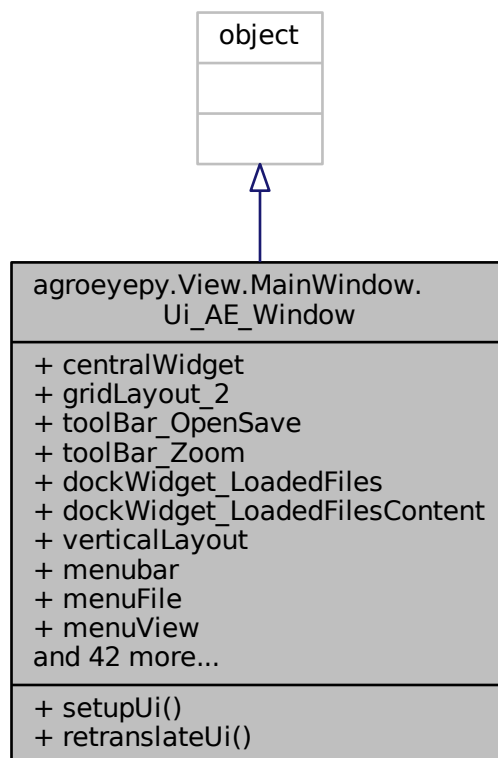
```
def agroeyepy.View.modeldialog.TextItem.__init__ (
    self,
    name )
```

The documentation for this class was generated from the following file:

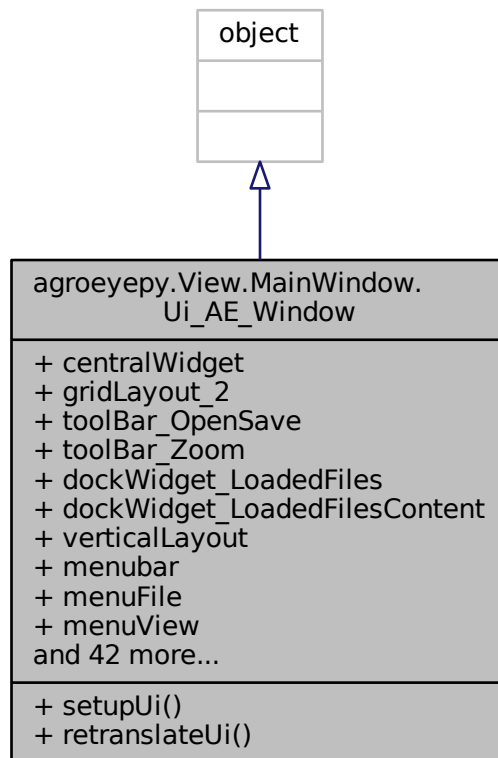
- agroeyepy/View/[modeldialog.py](#)

8.113 agroeyepy.View.MainWindow.Ui_AE_Window Class Reference

Inheritance diagram for agroeyepy.View.MainWindow.Ui_AE_Window:



Collaboration diagram for `agroeyepy.View.MainWindow.Ui_AE_Window`:



Public Member Functions

- `def setupUi (self, AE\_Window)`
- `def retranslateUi (self, AE\_Window)`

Public Attributes

- [centralWidget](#)
- [gridLayout_2](#)
- [toolBar_OpenSave](#)
- [toolBar_Zoom](#)
- [dockWidget_LoadedFiles](#)
- [dockWidget_LoadedFilesContent](#)
- [verticalLayout](#)
- [menubar](#)
- [menuFile](#)
- [menuView](#)
- [menuZoom](#)
- [menuHelp](#)
- [menuAbout_Extensions](#)

- [menuEdit](#)
- [menuTools](#)
- [menuGAEC](#)
- [toolBar](#)
- [dockWidget_Coordinates](#)
- [dockWidgetContents](#)
- [gridLayout](#)
- [gridLayout_3](#)
- [coordinatesLabel](#)
- [label](#)
- [zoomLabel](#)
- [coordinateSystemComboBox](#)
- [zoomComboBox](#)
- [coordinatesLineEdit](#)
- [actionOpenProject_toolbar](#)
- [actionSaveProject](#)
- [actionSaveProjectAs](#)
- [actionQuit](#)
- [actionZoomIn](#)
- [actionZoomOut](#)
- [actionNormalSize](#)
- [actionFitToWindow](#)
- [actionAbout_application](#)
- [actionAbout_extencions](#)
- [actionPreferences](#)
- [actionShow_Layers](#)
- [actionToolBarShow_Layers](#)
- [actionToolBarShow_Coordinates](#)
- [actionShow_Coordinates](#)
- [actionDopiero_cos_bedzie](#)
- [actionMeasureDistance](#)
- [actionOpen_file](#)
- [actionVbxc](#)
- [actionMeasure_area](#)
- [actionPan_Action](#)
- [actionOpenProject](#)
- [actionCreate_Shapefile](#)
- [actionModelGAEC](#)
- [actionRaster_Calculator](#)

8.113.1 Member Function Documentation

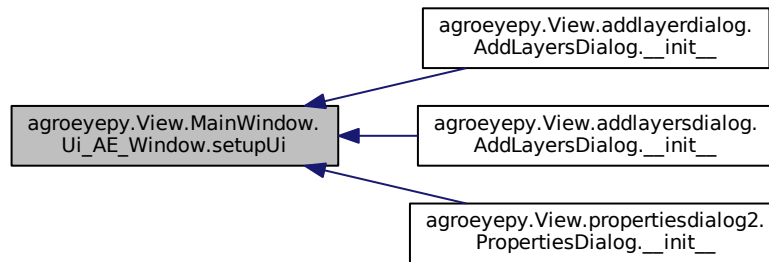
8.113.1.1 `retranslateUi()`

```
def agroeyepy.View.MainWindow.Ui_AE_Window.retranslateUi (  
    self,  
    AE_Window )
```

8.113.1.2 setupUi()

```
def agroeyepy.View.MainWindow.Ui_AE_Window.setupUi (
    self,
    AE_Window )
```

Here is the caller graph for this function:



8.113.2 Member Data Documentation

8.113.2.1 actionAbout_application

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionAbout_application
```

8.113.2.2 actionAbout_extencions

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionAbout_extencions
```

8.113.2.3 actionCreate_Shapefile

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionCreate_Shapefile
```

8.113.2.4 actionDopiero_cos_bedzie

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionDopiero_cos_bedzie
```

8.113.2.5 actionFitToWindow

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionFitToWindow
```

8.113.2.6 actionMeasure_area

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionMeasure_area
```

8.113.2.7 actionMeasureDistance

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionMeasureDistance
```

8.113.2.8 actionModelGAEC

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionModelGAEC
```

8.113.2.9 actionNormalSize

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionNormalSize
```

8.113.2.10 actionOpen_file

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionOpen_file
```

8.113.2.11 actionOpenProject

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionOpenProject
```

8.113.2.12 actionOpenProject_toolbar

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionOpenProject_toolbar
```

8.113.2.13 actionPan_Action

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionPan_Action
```

8.113.2.14 actionPreferences

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionPreferences
```

8.113.2.15 actionQuit

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionQuit
```

8.113.2.16 actionRaster_Calculator

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionRaster_Calculator
```

8.113.2.17 actionSaveProject

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionSaveProject
```

8.113.2.18 actionSaveProjectAs

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionSaveProjectAs
```

8.113.2.19 actionShow_Coordinates

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionShow_Coordinates
```

8.113.2.20 actionShow_Layers

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionShow_Layers
```

8.113.2.21 actionToolBarShow_Coordinates

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionToolBarShow_Coordinates
```

8.113.2.22 actionToolBarShow_Layers

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionToolBarShow_Layers
```

8.113.2.23 actionVbxc

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionVbxc
```

8.113.2.24 actionZoomIn

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionZoomIn
```

8.113.2.25 actionZoomOut

```
agroeyepy.View.MainWindow.Ui_AE_Window.actionZoomOut
```

8.113.2.26 centralWidget

```
agroeyepy.View.MainWindow.Ui_AE_Window.centralWidget
```

8.113.2.27 coordinatesLabel

```
agroeyepy.View.MainWindow.Ui_AE_Window.coordinatesLabel
```

8.113.2.28 coordinatesLineEdit

```
agroeyepy.View.MainWindow.Ui_AE_Window.coordinatesLineEdit
```

8.113.2.29 coordinateSystemComboBox

```
agroeyepy.View.MainWindow.Ui_AE_Window.coordinateSystemComboBox
```

8.113.2.30 dockWidget_Coordinates

```
agroeyepy.View.MainWindow.Ui_AE_Window.dockWidget_Coordinates
```

8.113.2.31 dockWidget_LoadedFiles

```
agroeyepy.View.MainWindow.Ui_AE_Window.dockWidget_LoadedFiles
```

8.113.2.32 dockWidget_LoadedFilesContent

```
agroeyepy.View.MainWindow.Ui_AE_Window.dockWidget_LoadedFilesContent
```

8.113.2.33 dockWidgetContents

```
agroeyepy.View.MainWindow.Ui_AE_Window.dockWidgetContents
```

8.113.2.34 gridLayout

```
agroeyepy.View.MainWindow.Ui_AE_Window.gridLayout
```

8.113.2.35 gridLayout_2

```
agroeyepy.View.MainWindow.Ui_AE_Window.gridLayout_2
```

8.113.2.36 gridLayout_3

```
agroeyepy.View.MainWindow.Ui_AE_Window.gridLayout_3
```

8.113.2.37 label

```
agroeyepy.View.MainWindow.Ui_AE_Window.label
```

8.113.2.38 menuAbout_Extensions

```
agroeyepy.View.MainWindow.Ui_AE_Window.menuAbout_Extensions
```

8.113.2.39 menubar

```
agroeyepy.View.MainWindow.Ui_AE_Window.menubar
```

8.113.2.40 menuEdit

```
agroeyepy.View.MainWindow.Ui_AE_Window.menuEdit
```

8.113.2.41 menuFile

```
agroeyepy.View.MainWindow.Ui_AE_Window.menuFile
```

8.113.2.42 menuGAEC

```
agroeyepy.View.MainWindow.Ui_AE_Window.menuGAEC
```

8.113.2.43 menuHelp

```
agroeyepy.View.MainWindow.Ui_AE_Window.menuHelp
```

8.113.2.44 menuTools

```
agroeyepy.View.MainWindow.Ui_AE_Window.menuTools
```

8.113.2.45 menuView

```
agroeyepy.View.MainWindow.Ui_AE_Window.menuView
```


8.113.2.46 menuZoom

```
agroeyepy.View.MainWindow.Ui_AE_Window.menuZoom
```

8.113.2.47 toolBar

```
agroeyepy.View.MainWindow.Ui_AE_Window.toolBar
```

8.113.2.48 toolBar_OpenSave

```
agroeyepy.View.MainWindow.Ui_AE_Window.toolBar_OpenSave
```

8.113.2.49 toolBar_Zoom

```
agroeyepy.View.MainWindow.Ui_AE_Window.toolBar_Zoom
```

8.113.2.50 verticalLayout

```
agroeyepy.View.MainWindow.Ui_AE_Window.verticalLayout
```

8.113.2.51 zoomComboBox

```
agroeyepy.View.MainWindow.Ui_AE_Window.zoomComboBox
```

8.113.2.52 zoomLabel

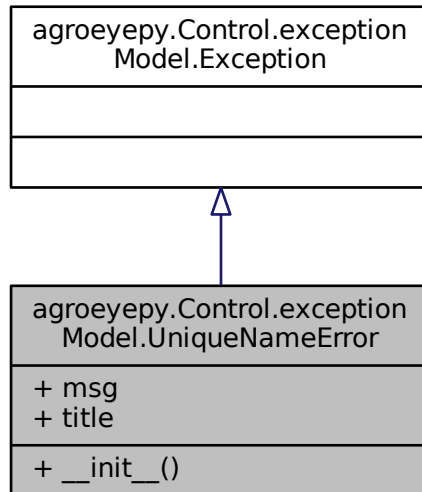
```
agroeyepy.View.MainWindow.Ui_AE_Window.zoomLabel
```

The documentation for this class was generated from the following file:

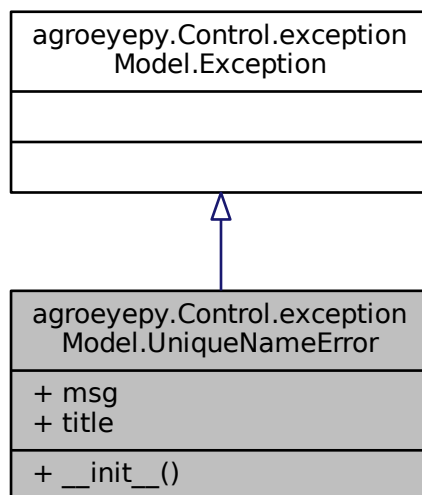
- agroeyepy/View/[MainWindow.py](#)

8.114 agroeyepy.Control.exceptionModel.UniqueNameError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.UniqueNameError:



Collaboration diagram for agroeyepy.Control.exceptionModel.UniqueNameError:



Public Member Functions

- `def \_\_init\_\_(self)`

Public Attributes

- [msg](#)
- [title](#)

8.114.1 Constructor & Destructor Documentation

8.114.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.UniqueNameError.__init__ (
    self )
```

8.114.2 Member Data Documentation

8.114.2.1 `msg`

```
agroeyepy.Control.exceptionModel.UniqueNameError.msg
```

8.114.2.2 `title`

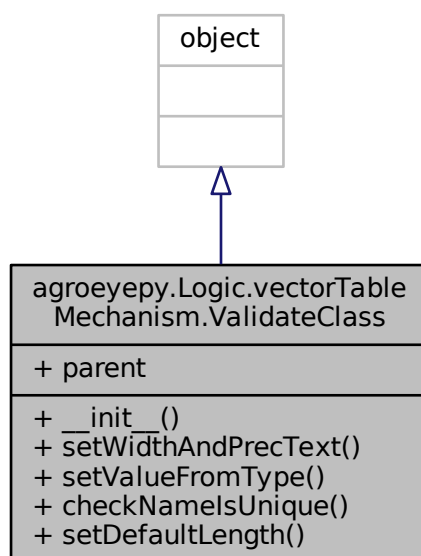
```
agroeyepy.Control.exceptionModel.UniqueNameError.title
```

The documentation for this class was generated from the following file:

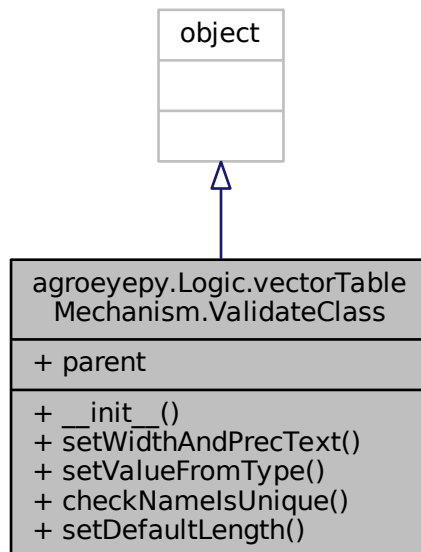
- [agroeyepy/Control/exceptionModel.py](#)

8.115 agroeyepy.Logic.vectorTableMechanism.ValidateClass Class Reference

Inheritance diagram for agroeyepy.Logic.vectorTableMechanism.ValidateClass:



Collaboration diagram for `agroeyepy.Logic.vectorTableMechanism.ValidateClass`:



Public Member Functions

- `def __init__ (self, parent)`
class for validate text.
- `def setWidthAndPrecText (self, type, n)`
Set text for column view.
- `def setValueFromType (self, type, value)`
Returns the value, from string value.
- `def checkNamelsUnique (self, newName, index=-1)`
Checks the name of field is unique.
- `def setDefaultLength (self, type)`
Returns default length of field, if users set null.

Public Attributes

- `parent`

8.115.1 Constructor & Destructor Documentation

8.115.1.1 __init__()

```
def agroeyepy.Logic.vectorTableMechanism.ValidateClass.__init__ (
    self,
    parent )
```

class for validate text.

8.115.2 Member Function Documentation

8.115.2.1 checkNamelsUnique()

```
def agroeyepy.Logic.vectorTableMechanism.ValidateClass.checkNameIsUnique (
    self,
    newName,
    index = -1 )
```

Checks the name of field is unique.

Parameters

<i>newName</i>	Name of field.
<i>index</i>	Index of new field.

8.115.2.2 setDefaultLength()

```
def agroeyepy.Logic.vectorTableMechanism.ValidateClass.setDefaultLength (
    self,
    type )
```

Returns default length of field, if users set null.

Parameters

<i>type</i>	type of field

8.115.2.3 setValueFromType()

```
def agroeyepy.Logic.vectorTableMechanism.ValidateClass.setValueFromType (
    self,
    type,
    value )
```

Returns the value, from string value.

Parameters

<i>type</i>	Type of value.
<i>value</i>	Value.

8.115.2.4 setWidthAndPrecText()

```
def agroeyepy.Logic.vectorTableMechanism.ValidateClass.setWidthAndPrecText (
    self,
```

```

    type,
    n )

```

Set text for column view.

Parameters

<i>type</i>	Type of column.
<i>n</i>	Index of row.

8.115.3 Member Data Documentation

8.115.3.1 parent

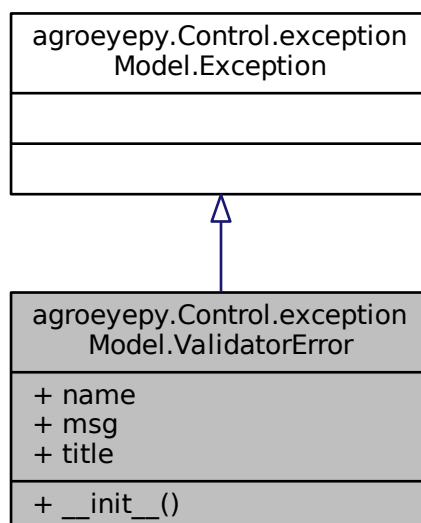
```
agroeyepy.Logic.vectorTableMechanism.ValidateClass.parent
```

The documentation for this class was generated from the following file:

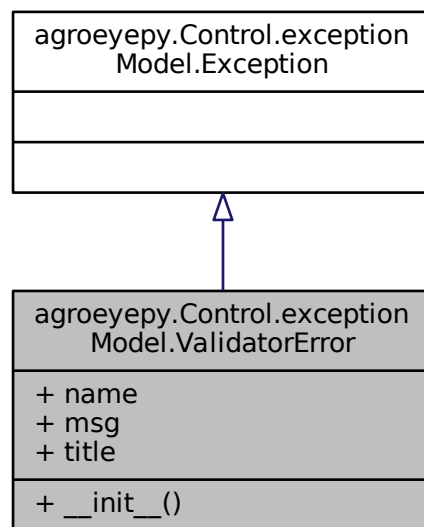
- [agroeyepy/Logic/vectorTableMechanism.py](#)

8.116 agroeyepy.Control.exceptionModel.ValidatorError Class Reference

Inheritance diagram for agroeyepy.Control.exceptionModel.ValidatorError:



Collaboration diagram for agroeyepy.Control.exceptionModel.ValidatorError:



Public Member Functions

- `def __init__(self, name)`

Public Attributes

- `name`
- `msg`
- `title`

8.116.1 Constructor & Destructor Documentation

8.116.1.1 `__init__()`

```
def agroeyepy.Control.exceptionModel.ValidatorError.__init__(
    self,
    name )
```

8.116.2 Member Data Documentation

8.116.2.1 `msg`

```
agroeyepy.Control.exceptionModel.ValidatorError.msg
```

8.116.2.2 name

`agroeyepy.Control.exceptionModel.ValidatorError.name`

8.116.2.3 title

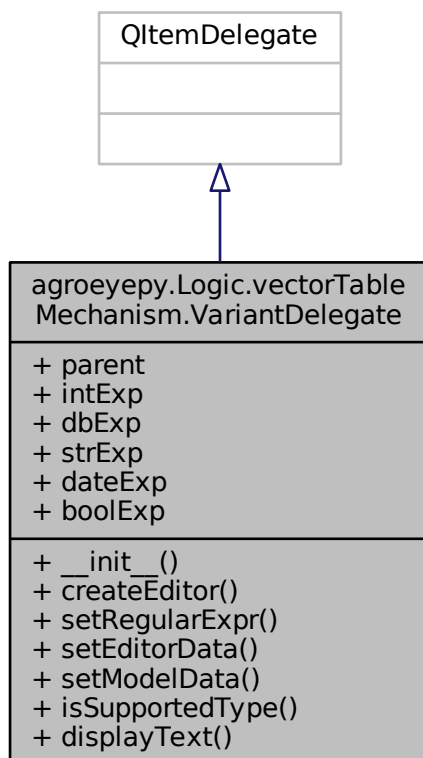
`agroeyepy.Control.exceptionModel.ValidatorError.title`

The documentation for this class was generated from the following file:

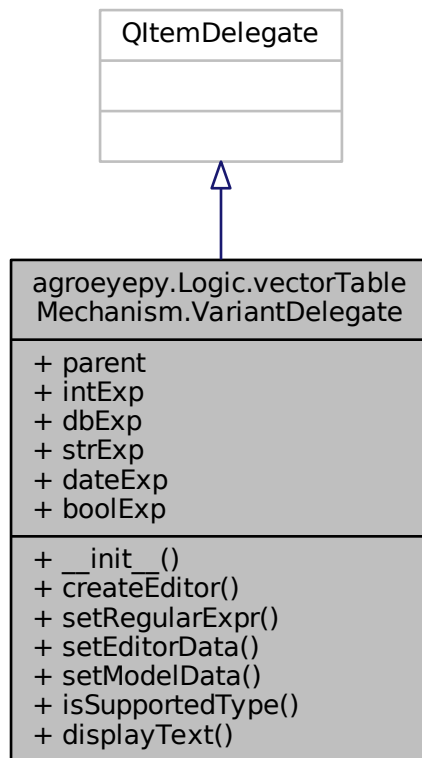
- `agroeyepy/Control/exceptionModel.py`

8.117 agroeyepy.Logic.vectorTableMechanism.VariantDelegate Class Reference

Inheritance diagram for `agroeyepy.Logic.vectorTableMechanism.VariantDelegate`:



Collaboration diagram for agroeyepy.Logic.vectorTableMechanism.VariantDelegate:



Public Member Functions

- `def __init__ (self, parent=None)`
Delegate for edit cell.
- `def createEditor (self, parent, option, index)`
Create editor.
- `def setRegularExpr (self, type, length, prec)`
Sets regular expression for edit column.
- `def setEditorData (self, editor, index)`
Sets data after accept.
- `def setModelData (self, editor, model, index)`
Sets model of data.

Static Public Member Functions

- `def isSupportedType (value)`
Checks the type is supported.
- `def displayText (value)`
Displays texts.

Public Attributes

- [parent](#)
- [intExp](#)
The regex expression for integer values.
- [dbExp](#)
The regex expression for double values.
- [strExp](#)
The regex expression for text.
- [dateExp](#)
The regex expression for date.
- [boolExp](#)
The regex expression for bool values.

8.117.1 Constructor & Destructor Documentation

8.117.1.1 `__init__()`

```
def agroeyepy.Logic.vectorTableMechanism.VariantDelegate.__init__ (
    self,
    parent = None )
```

Delegate for edit cell.

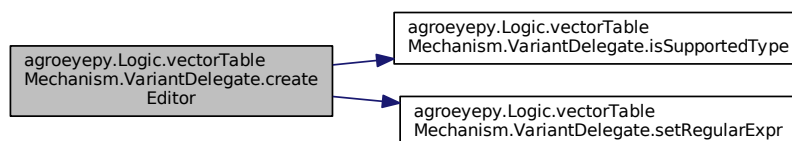
8.117.2 Member Function Documentation

8.117.2.1 `createEditor()`

```
def agroeyepy.Logic.vectorTableMechanism.VariantDelegate.createEditor (
    self,
    parent,
    option,
    index )
```

Create editor.

Here is the call graph for this function:



8.117.2.2 displayText()

```
def agroeyepy.Logic.vectorTableMechanism.VariantDelegate.displayText (
    value ) [static]
```

Displays texts.

Here is the caller graph for this function:



8.117.2.3 isSupportedType()

```
def agroeyepy.Logic.vectorTableMechanism.VariantDelegate.isSupportedType (
    value ) [static]
```

Checks the type is supported.

Here is the caller graph for this function:



8.117.2.4 setEditorData()

```
def agroeyepy.Logic.vectorTableMechanism.VariantDelegate.setEditorData (
    self,
    editor,
    index )
```

Sets data after accept.

Here is the call graph for this function:



8.117.2.5 setModelData()

```
def agroeyepy.Logic.vectorTableMechanism.VariantDelegate.setModelData (
    self,
    editor,
    model,
    index )
```

Sets model of data.

8.117.2.6 setRegularExpr()

```
def agroeyepy.Logic.vectorTableMechanism.VariantDelegate.setRegularExpr (
    self,
    type,
    length,
    prec )
```

Sets regular expression for edit column.

Parameters

<i>type</i>	Type of field.
<i>length</i>	Length of field.
<i>prec</i>	Precision of field

Here is the caller graph for this function:



8.117.3 Member Data Documentation

8.117.3.1 boolExp

```
agroeyepy.Logic.vectorTableMechanism.VariantDelegate.boolExp
```

The regex expression for bool values.

8.117.3.2 dateExp

```
agroeyepy.Logic.vectorTableMechanism.VariantDelegate.dateExp
```

The regex expression for date.

8.117.3.3 dbExp

```
agroeyepy.Logic.vectorTableMechanism.VariantDelegate.dbExp
```

The regex expression for double values.

8.117.3.4 intExp

```
agroeyepy.Logic.vectorTableMechanism.VariantDelegate.intExp
```

The regex expression for integer values.

8.117.3.5 parent

```
agroeyepy.Logic.vectorTableMechanism.VariantDelegate.parent
```

8.117.3.6 strExp

```
agroeyepy.Logic.vectorTableMechanism.VariantDelegate.strExp
```

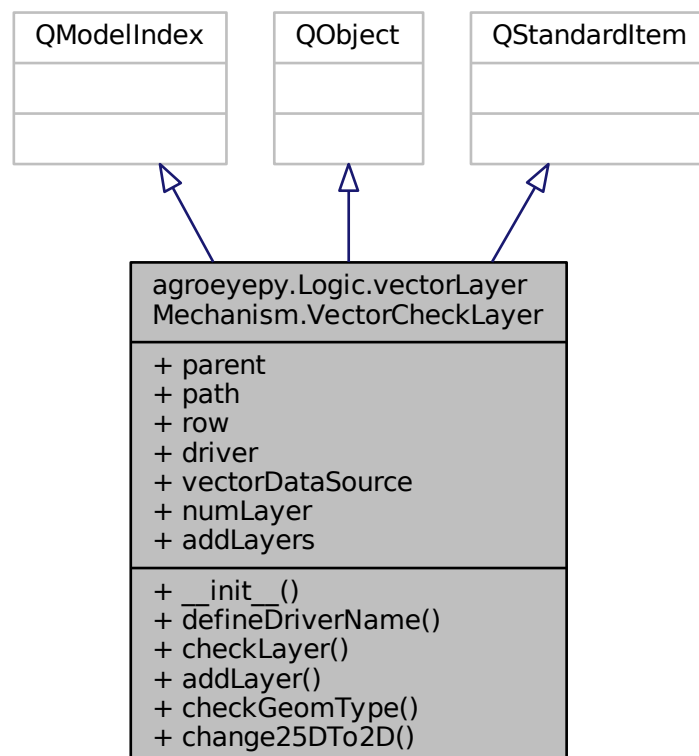
The regex expression for text.

The documentation for this class was generated from the following file:

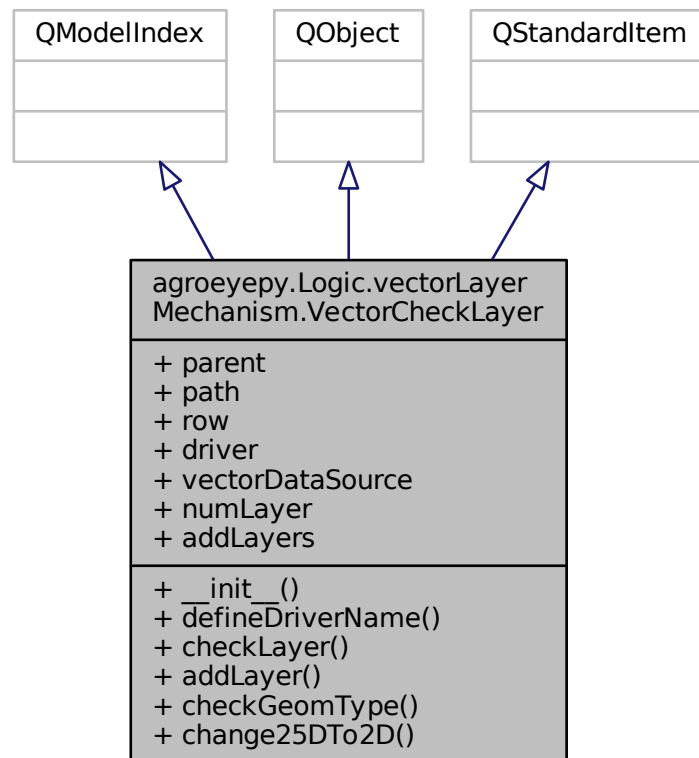
- [agroeyepy/Logic/vectorTableMechanism.py](#)

8.118 agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer Class Reference

Inheritance diagram for agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer:



Collaboration diagram for agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer:



Public Member Functions

- `def __init__(self, parent, fname=None)`
Open file and check the file is valid and number of layers.
- `def defineDriverName(self, ext)`
Define driver name, to open vector file.
- `def checkLayer(self, path)`
Check number of layer.
- `def addLayer(self)`
Save selected layer.
- `def checkGeomType(self, vectorLayer, isOtherSHP=None)`
Check geometry type of loaded vector.
- `def change25DTo2D(self, geomType)`
Check the geometry type is 2.5D and change to 2D.

Public Attributes

- `parent`
- `path`

- [row](#)
- [driver](#)
- [vectorDataSource](#)
- [numLayer](#)
- [addLayers](#)

8.118.1 Constructor & Destructor Documentation

8.118.1.1 `__init__()`

```
def agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.__init__ (
    self,
    parent,
    fname = None )
```

Open file and check the file is valid and number of layers.

Parameters

<i>fname</i>	is the input from Dialog Window.

8.118.2 Member Function Documentation

8.118.2.1 `addLayer()`

```
def agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.addLayer (
    self )
```

Save selected layer.

8.118.2.2 `change25DTo2D()`

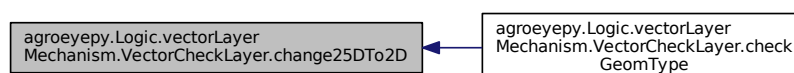
```
def agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.change25DTo2D (
    self,
    geomType )
```

Check the geometry type is 2.5D and change to 2D.

Returns

Returns geometry type converted to 2D.

Here is the caller graph for this function:



8.118.2.3 checkGeomType()

```
def agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.checkGeomType (
    self,
    vectorLayer,
    isOtherSHP = None )
```

Check geometry type of loaded vector.

Returns

Returns geometry type as Integer (1 - POINT, 2 - LINESTRING, 3 - POLYGON, 5 - MULTIPOINT, 6 - MULTILINE, 7 - MULTIPOLYGON, -2147483647 - POINT25D, -2147483646 - LINESTRING25D, -2147483645 - POLYGON25D, -2147483644 - MULTIPOINT25D).

Here is the call graph for this function:



8.118.2.4 checkLayer()

```
def agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.checkLayer (
    self,
    path )
```

Check number of layer.

If is more than one, users have possibility to choose layers to load.

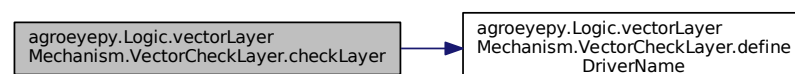
Parameters

<i>path</i>	path of loaded files.

Returns

Returns the list of selected layer.

Here is the call graph for this function:



8.118.2.5 defineDriverName()

```
def agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.defineDriverName (
    self,
    ext )
```

Define driver name, to open vector file.

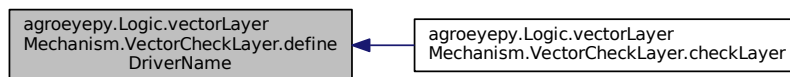
Parameters

<code>ext</code>	is the extension of loaded file.

Returns

Returns driver name and the access permissions to file (0- read, 1 - read/write).

Here is the caller graph for this function:



8.118.3 Member Data Documentation

8.118.3.1 addLayers

```
agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.addLayers
```

8.118.3.2 driver

```
agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.driver
```

8.118.3.3 numLayer

```
agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.numLayer
```

8.118.3.4 parent

```
agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.parent
```

8.118.3.5 path

```
agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.path
```

8.118.3.6 row

```
agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.row
```

8.118.3.7 vectorDataSource

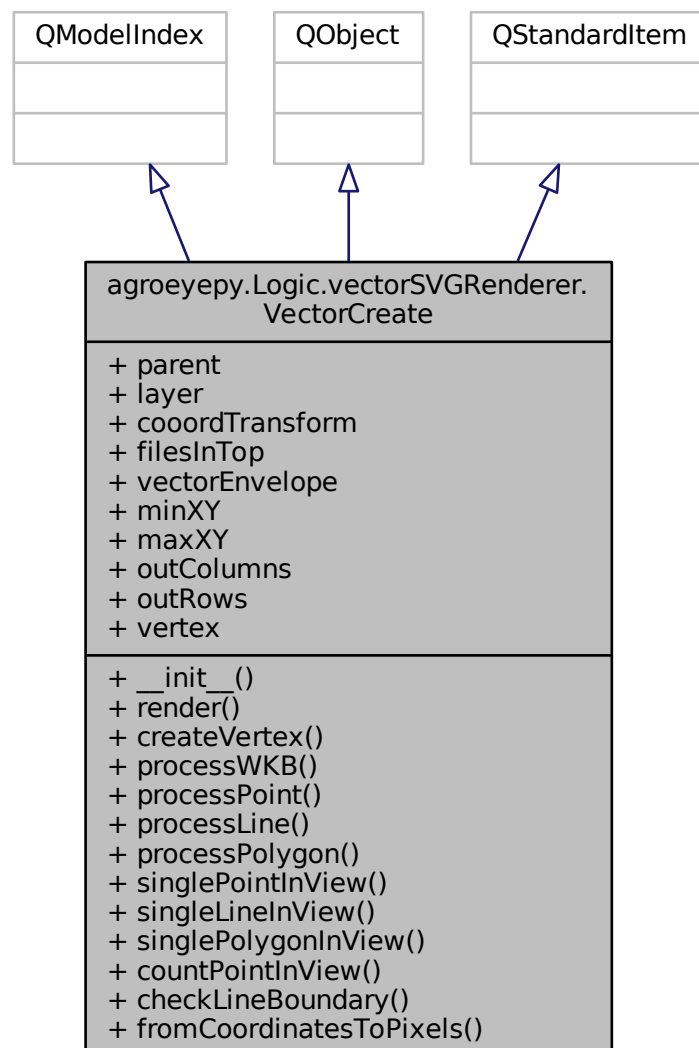
```
agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer.vectorDataSource
```

The documentation for this class was generated from the following file:

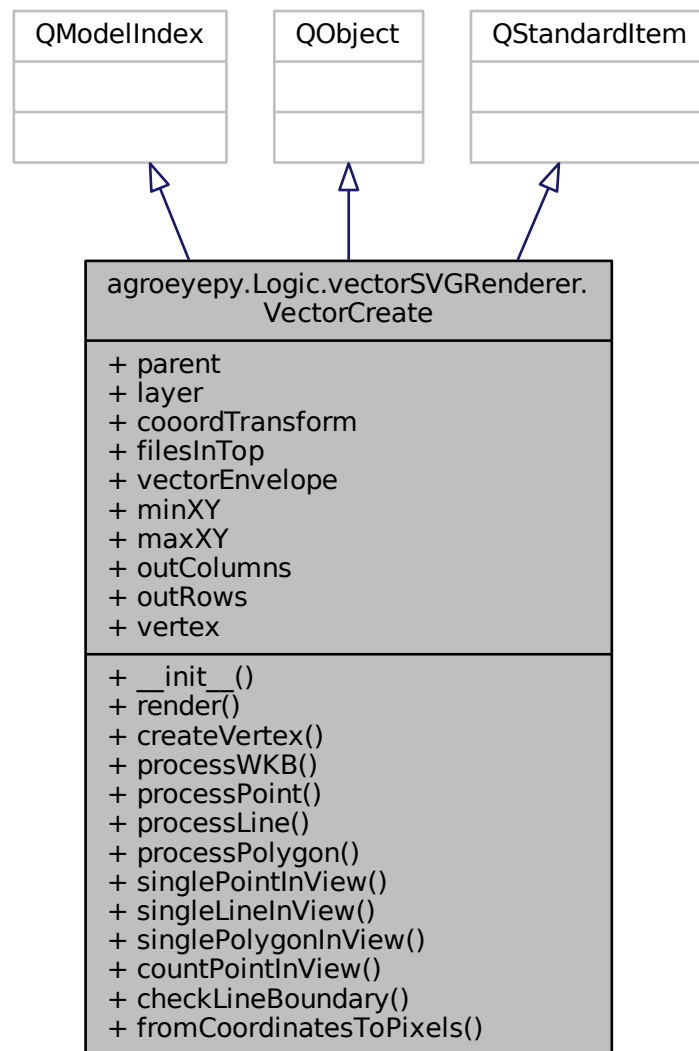
- [agroeyepy/Logic/vectorLayerMechanism.py](#)

8.119 agroeyepy.Logic.vectorSVGRenderer.VectorCreate Class Reference

Inheritance diagram for agroeyepy.Logic.vectorSVGRenderer.VectorCreate:



Collaboration diagram for `agroeyepy.Logic.vectorSVGRenderer.VectorCreate`:



Public Member Functions

- `def __init__(self, parent=None)`
Create SVG for display vector.
- `def render(self, vectorLayer, viewBoundary, viewAreaSpatialReference, vectorPixSize, viewPixSize, type←Geom, extent, vectorBoundary, filesInTop, coordTransform, pointStyle, lineStyle, fillStyle)`
Returns name of created svg file.
- `def createVertex(self, vector, extent, typeGeom, name, pointStyle, lineStyle, fillStyle)`
- `def processWKB(self, vertex, wkb)`
- `def processPoint(self, wkb)`
- `def processLine(self, wkb)`
- `def processPolygon(self, wkb)`

- def [singlePointInView](#) (self, point, points)
- def [singleLineInView](#) (self, point1, point2, points)
- def [singlePolygonInView](#) (self, polygon)
- def [countPointInView](#) (self, count, vectorBoundary)
- def [checkLineBoundary](#) (self, file, line)
Test if line intersects the raster.
- def [fromCoordinatesToPixels](#) (self, point, pixSize, extent)

Public Attributes

- [parent](#)
- [layer](#)
- [coordTransform](#)
- [filesInTop](#)
- [vectorEnvelope](#)
- [minXY](#)
- [maxXY](#)
- [outColumns](#)
- [outRows](#)
- [vertex](#)

8.119.1 Constructor & Destructor Documentation

8.119.1.1 `__init__()`

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.__init__ (
    self,
    parent = None )
```

Create SVG for display vector.

8.119.2 Member Function Documentation

8.119.2.1 `checkLineBoundary()`

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.checkLineBoundary (
    self,
    file,
    line )
```

Test if line intersects the raster.

Parameters

<i>file</i>	Raster file.
<i>line</i>	Verified line. Returns points of intersection (left, right, up, top).

Here is the caller graph for this function:



8.119.2.2 countPointInView()

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.countPointInView (
    self,
    count,
    vectorBoundary )
```

@brief Count number of points which crosses with view.
 @param polygon: Verified polygon.

8.119.2.3 createVertex()

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.createVertex (
    self,
    vector,
    extent,
    typeGeom,
    name,
    pointStyle,
    lineStyle,
    fillStyle )
```

@brief Returns vertex object.
 @param vector: Coordinates array.
 @param extent: Extent of vector.
 @param typeGeom: Geometry type.
 @param name: Name of vector.
 @param pointStyle: Style of point.
 @param lineStyle: Style of line.
 @param fillStyle: Style of filling.

8.119.2.4 fromCoordinatesToPixels()

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.fromCoordinatesToPixels (
    self,
    point,
    pixSize,
    extent )
```

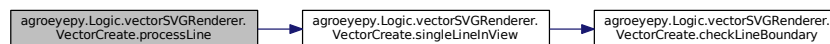
@brief Convert coordinates to pixel.
 @param point: Coordinates of point.
 @param pixSize: Size of pixel.
 @param extent: Extent of vector.

8.119.2.5 processLine()

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.processLine (
    self,
    wkb )
```

@brief Returns coordinates of lines.
@param wkb: Well-known binary.

Here is the call graph for this function:



Here is the caller graph for this function:



8.119.2.6 processPoint()

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.processPoint (
    self,
    wkb )
```

@brief Returns coordinates of points.
@param wkb: Well-known binary.

Here is the call graph for this function:



Here is the caller graph for this function:



8.119.2.7 processPolygon()

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.processPolygon (
    self,
    wkb )
```

@brief Returns coordinates of polygons.
 @param wkb: Well-known binary.

Here is the call graph for this function:



Here is the caller graph for this function:

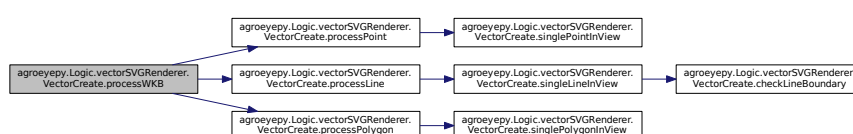


8.119.2.8 processWKB()

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.processWKB (
    self,
    vertex,
    wkb )
```

@brief Returns vector coordinates.
 @param vertex: Vertex object.
 @param wkb: Well-known binary.

Here is the call graph for this function:



8.119.2.9 render()

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.render (
    self,
    vectorLayer,
    viewBoundary,
    viewAreaSpatialReference,
    vectorPixSize,
    viewPixSize,
    typeGeom,
    extent,
    vectorBoundary,
    filesInTop,
    coordTransform,
    pointStyle,
    lineStyle,
    fillStyle )
```

Returns name of created svg file.

Parameters

<i>vectorLayer</i>	Layer of vector.
<i>viewBoundary</i>	Boundary of view.
<i>viewAreaSpatialReference</i>	Spatial Reference system for view area.
<i>vectorPixSize</i>	Pixel size of vector.
<i>viewPixSize</i>	Pixel size of view area.
<i>typeGeom</i>	Geometry type of vector.
<i>extent</i>	Extent of vector.
<i>vectorBoundary</i>	Boundary of vector file
<i>filesInTop</i>	List of files which are before displayed vector.
<i>coordTransform</i>	Transform coordinates.
<i>pointStyle</i>	Style of point.
<i>lineStyle</i>	Style of line.
<i>fillStyle</i>	Style of filling.
<i>Returns</i>	lists of name of created *svg file.

8.119.2.10 singleLineInView()

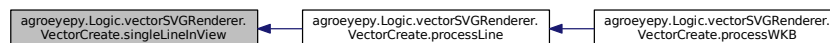
```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.singleLineInView (
    self,
    point1,
    point2,
    points )
```

```
@brief Check if line is in view.
@param point1: First point of verified line.
@param point2: Second point of verified line.
@param points: All visible lines.
```

Here is the call graph for this function:



Here is the caller graph for this function:

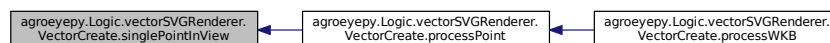


8.119.2.11 `singlePointInView()`

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.singlePointInView (
    self,
    point,
    points )
```

@brief Check if point is in view.
 @param point: Verified point.
 @param points: All visible points.

Here is the caller graph for this function:

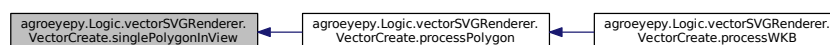


8.119.2.12 `singlePolygonInView()`

```
def agroeyepy.Logic.vectorSVGRenderer.VectorCreate.singlePolygonInView (
    self,
    polygon )
```

@brief Check if polygon is in view.
 @param polygon: Verified polygon.

Here is the caller graph for this function:



8.119.3 Member Data Documentation

8.119.3.1 coordTransform

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.coordTransform

8.119.3.2 filesInTop

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.filesInTop

8.119.3.3 layer

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.layer

8.119.3.4 maxXY

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.maxXY

8.119.3.5 minXY

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.minXY

8.119.3.6 outColumns

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.outColumns

8.119.3.7 outRows

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.outRows

8.119.3.8 parent

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.parent

8.119.3.9 vectorEnvelope

agroeyepy.Logic.vectorSVGRenderer.VectorCreate.vectorEnvelope

8.119.3.10 vertex

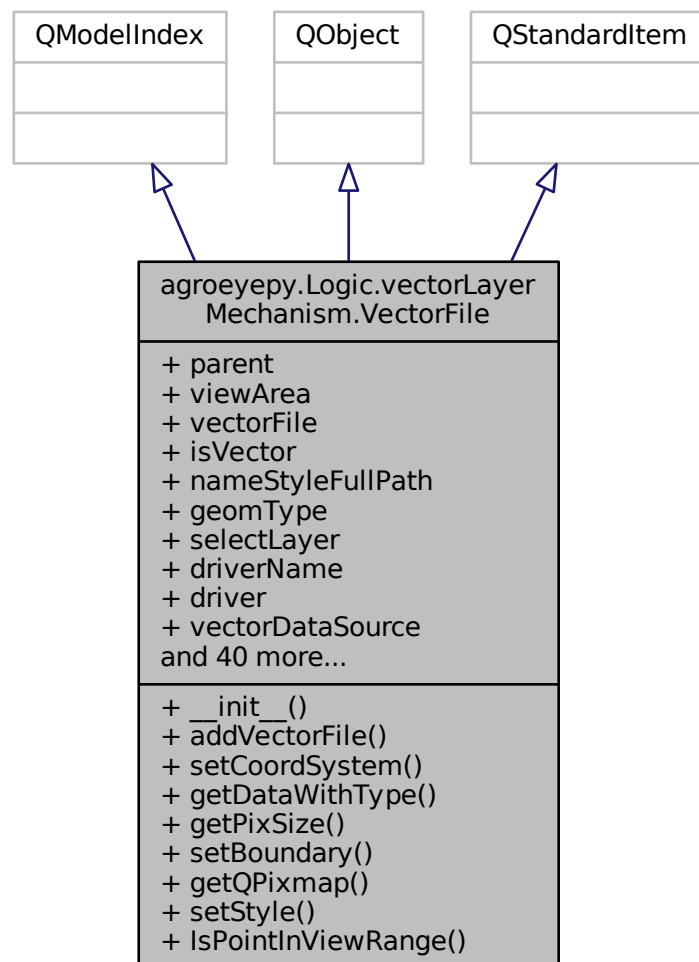
```
agroeyepy.Logic.vectorSVGRenderer.VectorCreate.vertex
```

The documentation for this class was generated from the following file:

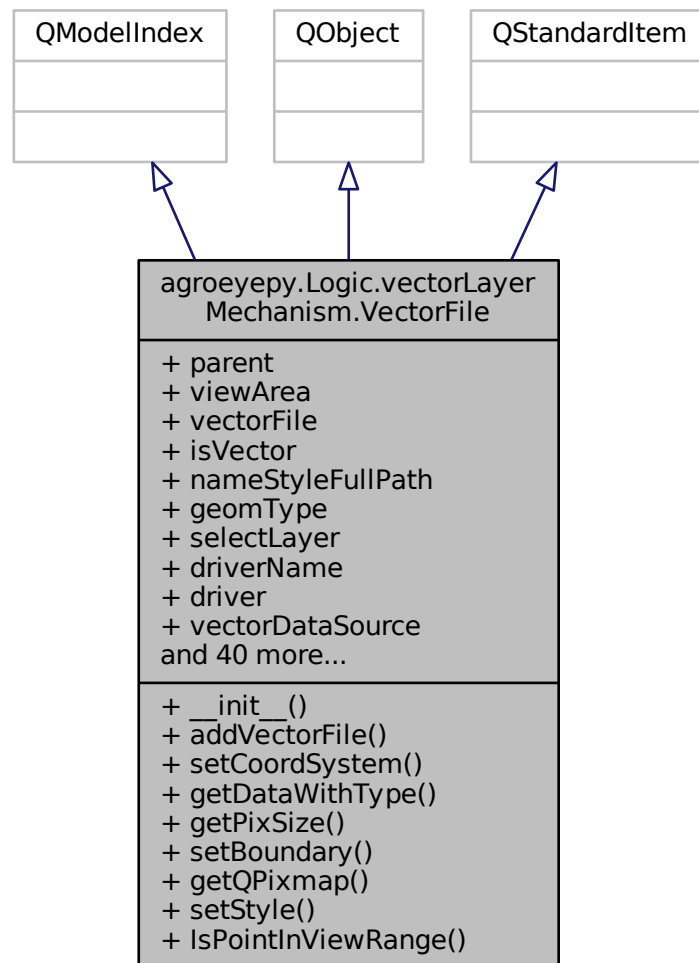
- [agroeyepy/Logic/vectorSVGRenderer.py](#)

8.120 agroeyepy.Logic.vectorLayerMechanism.VectorFile Class Reference

Inheritance diagram for agroeyepy.Logic.vectorLayerMechanism.VectorFile:



Collaboration diagram for agroeyepy.Logic.vectorLayerMechanism.VectorFile:



Public Member Functions

- def `__init__` (self, `parent`=None, `vectorFile`=None, `selectLayer`=0)
Open file and read basic information.
- def `addVectorFile` (self, layer)
Add vector to loadfiles model.
- def `setCoordSystem` (self)
Set spatial reference and Coordinates System.
- def `getDataWithType` (self, feature, typeName, pos)
Read data with appropriate type of loaded data.
- def `getPixSize` (self, oldUnit, newUnit)
Returns new value of pixel size.
- def `setBoundary` (self)
Returns polygon which is the boundary of vector.

- def [getQPixmap](#) (self, viewBoundary, filesInTop, viewAreaProj4, viewAreaSpatialReference, pixSize)
*Returns name of created *svg files.*
- def [setStyle](#) (self)
Create icon for vector.
- def [IsPointInViewRange](#) (self, inputPoint, viewBoundary)
Check if point intersects view range.

Public Attributes

- [parent](#)
- [viewArea](#)
- [vectorFile](#)
- [isVector](#)
- [nameStyleFullPath](#)
- [geomType](#)
Type of vector geometry.
- [selectLayer](#)
- [driverName](#)
The name of vector driver.
- [driver](#)
Vector driver.
- [vectorDataSource](#)
- [fileFormat](#)
The format of vector file.
- [numLayer](#)
The number of layers.
- [pathLayer](#)
The absolute path of the shapefile.
- [vectorLayer](#)
Object of layer.
- [name](#)
- [layerDefinition](#)
- [fieldName](#)
Name of columns in attribute table.
- [fieldWidth](#)
List of width of column.
- [fieldPrec](#)
precision of float field
- [fieldTypeCol](#)
Type of columns in attribute table.
- [columnCount](#)
The number of columns in attribute table.
- [fieldVals](#)
List of value of each field.
- [rowCount](#)
The number of features (rows in table)
- [icon](#)
Icon of file.
- [visible](#)
By default visibility is set ON.
- [srs](#)

Spatial reference system.

- [boundary](#)

Boundary of vector.

- [proj4](#)
- [vectorSpatialReference](#)
- [vectorSpatialReferenceBase](#)
- [coordTransform](#)
- [spatialReferencePrettyWkt](#)
- [extent1](#)
- [extent2](#)
- [xSize](#)
- [ySize](#)
- [EPSG](#)
- [EPSGbase](#)
- [rate](#)
- [extent](#)
- [firstPoint](#)
- [cols](#)
- [rows](#)
- [centerX](#)
- [centerY](#)
- [coords](#)
- [vectorRender](#)
- [pointStyle](#)
- [lineStyle](#)
- [fillStyle](#)

8.120.1 Constructor & Destructor Documentation

8.120.1.1 `__init__()`

```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.__init__ (
    self,
    parent = None,
    vectorFile = None,
    selectLayer = 0 )
```

Open file and read basic information.

Parameters

<i>vectorFile</i>	is the Object of vectorCheckFile.
<i>selectLayer</i>	Number of selected layer.

8.120.2 Member Function Documentation

8.120.2.1 `addVectorFile()`

```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.addVectorFile (
    self,
    layer )
```

Add vector to loadfiles model.

Parameters

<i>layer</i>	the number of layer.

8.120.2.2 `getDataWithType()`

```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.getDataWithType (
    self,
    feature,
    typeName,
    pos )
```

Read data with appropriate type of loaded data.

Parameters

<i>feature</i>	The feature of vector.
<i>typeName</i>	The type of data.
<i>pos</i>	Number of field in feature.

Returns

Returns value from field.

8.120.2.3 `getPixSize()`

```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.getPixSize (
    self,
    oldUnit,
    newUnit )
```

Returns new value of pixel size.

Parameters

<i>oldUnit</i>	Old spatial unit.
<i>newUnit</i>	New spatial unit.

8.120.2.4 `getQPixmap()`

```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.getQPixmap (
    self,
    viewBoundary,
    filesInTop,
    viewAreaProj4,
```



```
viewAreaSpatialReference,
pixSize )
```

Returns name of created *svg files.

Parameters

<i>viewBoundary</i>	Boundary of view.
<i>filesInTop</i>	List of files which are before displayed vector.
<i>viewAreaProj4</i>	Proj4 for view area.
<i>viewAreaSpatialReference</i>	Spatial Reference system for view area.
<i>pixSize</i>	Pixel size of vector. Scale of the image, upper-left point and size of the view area must be provided.
<i>Returns</i>	lists of name of created *svg file.

8.120.2.5 IsPointInViewRange()

```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.IsPointInViewRange (
    self,
    inputPoint,
    viewBoundary )
```

Check if point intersects view range.

Parameters

<i>inputPoint</i>	Check point.
<i>viewBoundary</i>	Boundary of vector.

8.120.2.6 setBoundary()

```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.setBoundary (
    self )
```

Returns polygon which is the boundary of vector.

8.120.2.7 setCoordSystem()

```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.setCoordSystem (
    self )
```

Set spatial reference and Coordinates System.

8.120.2.8 setStyle()

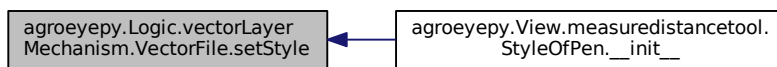
```
def agroeyepy.Logic.vectorLayerMechanism.VectorFile.setStyle (
    self )
```

Create icon for vector.

Returns

Returns QIcon

Here is the caller graph for this function:

**8.120.3 Member Data Documentation****8.120.3.1 boundary**

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.boundary
```

Boundary of vector.

8.120.3.2 centerX

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.centerX
```

8.120.3.3 centerY

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.centerY
```

8.120.3.4 cols

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.cols
```

8.120.3.5 columnCount

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.columnCount
```

The number of columns in attribute table.

8.120.3.6 coords

agroeyepy.Logic.vectorLayerMechanism.VectorFile.coords

8.120.3.7 coordTransform

agroeyepy.Logic.vectorLayerMechanism.VectorFile.coordTransform

8.120.3.8 driver

agroeyepy.Logic.vectorLayerMechanism.VectorFile.driver

Vector driver.

8.120.3.9 driverName

agroeyepy.Logic.vectorLayerMechanism.VectorFile.driverName

The name of vector driver.

8.120.3.10 EPSG

agroeyepy.Logic.vectorLayerMechanism.VectorFile.EPSG

8.120.3.11 EPSGbase

agroeyepy.Logic.vectorLayerMechanism.VectorFile.EPSGbase

8.120.3.12 extent

agroeyepy.Logic.vectorLayerMechanism.VectorFile.extent

8.120.3.13 extent1

agroeyepy.Logic.vectorLayerMechanism.VectorFile.extent1

8.120.3.14 extent2

agroeyepy.Logic.vectorLayerMechanism.VectorFile.extent2

8.120.3.15 fieldName

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.fieldName
```

Name of columns in attribute table.

List of column name.

8.120.3.16 fieldPrec

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.fieldPrec
```

precision of float field

List of precision of column.

8.120.3.17 fieldTypeCol

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.fieldTypeCol
```

Type of columns in attribute table.

List of type of column.

8.120.3.18 fieldVals

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.fieldVals
```

List of value of each field.

8.120.3.19 fieldWidth

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.fieldWidth
```

List of width of column.

8.120.3.20 fileFormat

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.fileFormat
```

The format of vector file.

8.120.3.21 fillStyle

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.fillStyle
```

8.120.3.22 firstPoint

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.firstPoint
```

8.120.3.23 geomType

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.geomType
```

Type of vector geometry.

8.120.3.24 icon

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.icon
```

Icon of file.

8.120.3.25 isVector

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.isVector
```

8.120.3.26 layerDefinition

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.layerDefinition
```

8.120.3.27 lineStyle

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.lineStyle
```

8.120.3.28 name

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.name
```

8.120.3.29 nameStyleFullPath

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.nameStyleFullPath
```

8.120.3.30 numLayer

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.numLayer
```

The number of layers.

8.120.3.31 parent

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.parent
```

8.120.3.32 pathLayer

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.pathLayer
```

The absolute path of the shapefile.

8.120.3.33 pointStyle

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.pointStyle
```

8.120.3.34 proj4

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.proj4
```

8.120.3.35 rate

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.rate
```

8.120.3.36 rowCount

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.rowCount
```

The number of features (rows in table)

8.120.3.37 rows

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.rows
```

8.120.3.38 selectLayer

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.selectLayer
```

8.120.3.39 spatialReferencePrettyWkt

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.spatialReferencePrettyWkt
```

8.120.3.40 srs

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.srs
```

Spatial reference system.

8.120.3.41 vectorDataSource

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.vectorDataSource
```

8.120.3.42 vectorFile

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.vectorFile
```

8.120.3.43 vectorLayer

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.vectorLayer
```

Object of layer.

Schema information for layer.

8.120.3.44 vectorRender

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.vectorRender
```

8.120.3.45 vectorSpatialReference

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.vectorSpatialReference
```

8.120.3.46 vectorSpatialReferenceBase

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.vectorSpatialReferenceBase
```

8.120.3.47 viewArea

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.viewArea
```

8.120.3.48 visible

```
agroeyepy.Logic.vectorLayerMechanism.VectorFile.visible
```

By default visibility is set ON.

8.120.3.49 xSize

`agroeyepy.Logic.vectorLayerMechanism.VectorFile.xSize`

8.120.3.50 ySize

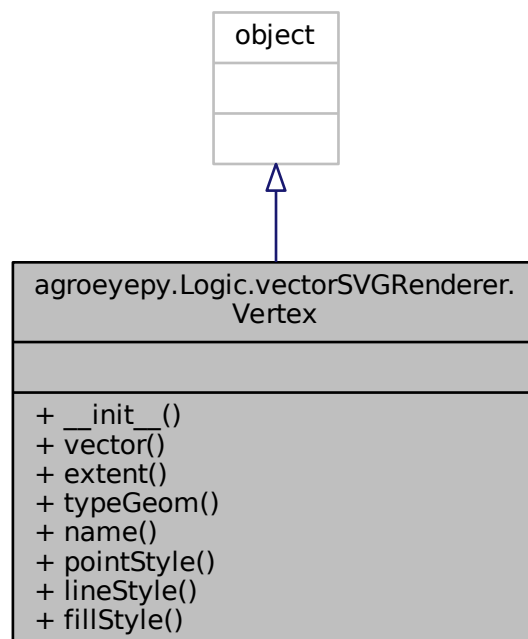
`agroeyepy.Logic.vectorLayerMechanism.VectorFile.ySize`

The documentation for this class was generated from the following file:

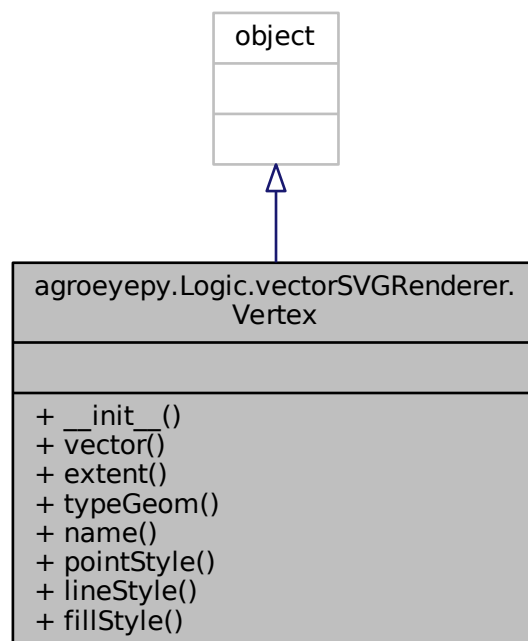
- `agroeyepy/Logic/vectorLayerMechanism.py`

8.121 agroeyepy.Logic.vectorSVGRenderer.Vertex Class Reference

Inheritance diagram for `agroeyepy.Logic.vectorSVGRenderer.Vertex`:



Collaboration diagram for agroeyepy.Logic.vectorSVGRenderer.Vertex:



Public Member Functions

- `def __init__ (self, vector, extent, typeGeom, name, pointStyle, lineStyle, fillStyle)`
- `def vector (self)`
- `def extent (self)`
- `def typeGeom (self)`
- `def name (self)`
- `def pointStyle (self)`
- `def lineStyle (self)`
- `def fillStyle (self)`

8.121.1 Constructor & Destructor Documentation

8.121.1.1 `__init__()`

```
def agroeyepy.Logic.vectorSVGRenderer.Vertex.__init__ (
    self,
    vector,
    extent,
    typeGeom,
    name,
    pointStyle,
    lineStyle,
    fillStyle )
```

8.121.2 Member Function Documentation

8.121.2.1 extent()

```
def agroeyepy.Logic.vectorSVGRenderer.Vertex.extent (  
    self )
```

8.121.2.2 fillStyle()

```
def agroeyepy.Logic.vectorSVGRenderer.Vertex.fillStyle (  
    self )
```

8.121.2.3 lineStyle()

```
def agroeyepy.Logic.vectorSVGRenderer.Vertex.lineStyle (  
    self )
```

8.121.2.4 name()

```
def agroeyepy.Logic.vectorSVGRenderer.Vertex.name (  
    self )
```

8.121.2.5 pointStyle()

```
def agroeyepy.Logic.vectorSVGRenderer.Vertex.pointStyle (  
    self )
```

8.121.2.6 typeGeom()

```
def agroeyepy.Logic.vectorSVGRenderer.Vertex.typeGeom (  
    self )
```

8.121.2.7 vector()

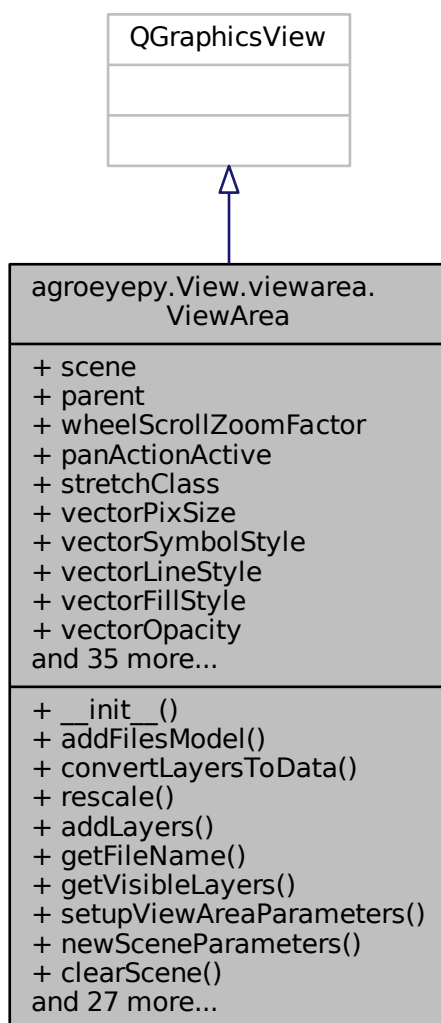
```
def agroeyepy.Logic.vectorSVGRenderer.Vertex.vector (  
    self )
```

The documentation for this class was generated from the following file:

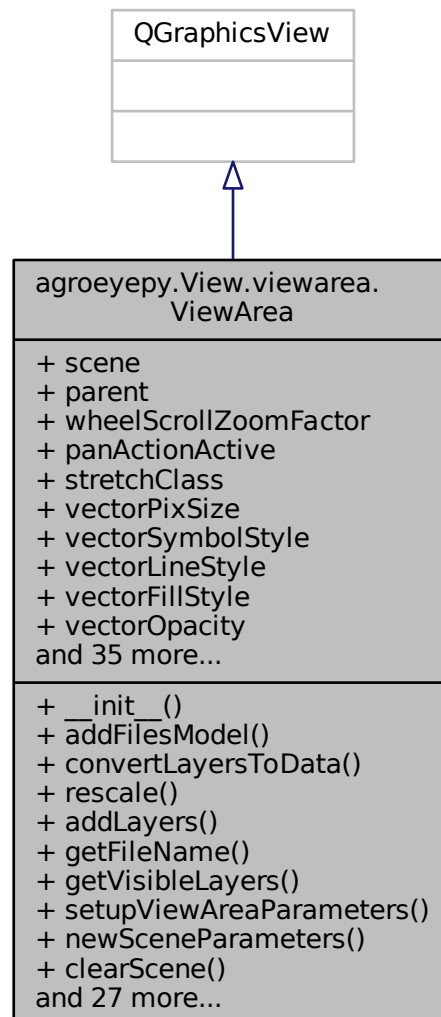
- agroeyepy/Logic/[vectorSVGRenderer.py](#)

8.122 agroeyepy.View.viewarea.ViewArea Class Reference

Inheritance diagram for agroeyepy.View.viewarea.ViewArea:



Collaboration diagram for `agroeyepy.View.viewarea.ViewArea`:



Public Member Functions

- `def __init__(self, parent=None)`
- `def addFilesModel(self, model)`
- `def convertLayersToData(self, fileListVisible, fileListAll)`
Set parameters of views, run thread for all loaded files.
- `def rescale(self, scale)`
- `def addLayers(self, params)`
Add loaded files to view as `QGraphicsPixmapItem`.
- `def getFileName(self, path)`
- `def getVisibleLayers(self)`
- `def setupViewAreaParameters(self, file=None, fullExtent=False)`
Setup `ViewArea` parameters such as: projection EPSG, size of `ViewScene`, coordinates of center.

- def [newSceneParameters](#) (self, event)
Calculates new width and height of [View](#) Scene.
- def [clearScene](#) (self)
Clears the scene in order to create space for new elements after for example resizing, zooming, adding new layer or removing it.
- def [buildUpBoundary](#) (self)
Builds new boundary in the currently displayed window.
- def [setZoomWheelScrollFactor](#) (self, valueIn)
Changes the strength of the zoom.
- def [wheelEvent](#) (self, event)
Examines what type of mouse wheel event has just occurred.
- def [contextMenuEvent](#) (self, event)
Creates context menu if right mouse button clicked inside the view area.
- def [mouseMoveEvent](#) (self, event)
Changes the coordinates in the main window if the mouse moves over the view area or moves layers if the middle button was pressed or proper tool was selected.
- def [mouseReleaseEvent](#) (self, event)
Finishes moving layers triggering shift.
- def [getMouseCoordinates](#) (self, qPoint)
Converts pixel coordinates into physical coordinates in the terrain.
- def [revertCoordinates](#) (self, xReal, yReal)
- def [mousePressEvent](#) (self, event)
- def [mouseDoubleClickEvent](#) (self, event)
- def [panActionToggled](#) (self, isToogled)
- def [resizeEvent](#) (self, event)
- def [properties](#) (self)
- def [zoomIn](#) (self, event=None, delta=120)
- def [zoomOut](#) (self, event=None, delta=-120)
- def [updateUI](#) (self)
- def [fromPixelsToCoordinates](#) (self, qPoint)
Re-Calculates point coordinates from pixel into Geo-Coordinates.
- def [setUpEPSG](#) (self, combobox, code)
- def [chooseEPSG](#) (self, newIndex, combobox, isTemp=False)
Choose EPSG code.
- def [epsgChanged](#) (self, newIndex, combobox=False, setupMain=False)
Set EPSG code to Raster.
- def [checkComboBoxValues](#) (self, args, kwargs)
Simply styling line with editing EPSG code.
- def [zoomTyped](#) (self, textTyped, combobox)
- def [changeZoom](#) (self, lineEdit=None, expression=None)
Does everything connected with change zoom.
- def [setZoomComboBoxValue](#) (self, [scaleNominator](#))
- def [setNoStyleZoomComboBox](#) (self, index)
- def [projectionFromFirst](#) (self)
- def [transformCoordinates](#) (self, oldProj4, xCoord, yCooord)

Public Attributes

- [scene](#)
Clears the scene in order to create space for new elements after for example resizing, zooming, adding new layer or removing it.
- [parent](#)
- [wheelScrollZoomFactor](#)
Changes the strength of the zoom.
- [panActionActive](#)
- [stretchClass](#)
- [vectorPixSize](#)
- [vectorSymbolStyle](#)
- [vectorLineStyle](#)
- [vectorFillStyle](#)
- [vectorOpacity](#)
- [vectorColorIn](#)
- [projectionFirst](#)
Set EPSG code to Raster.
- [centralPaintPoint](#)
- [paintSize](#)
Size of the displaying widget.
- [projectionEPSG](#)
EPGS of showed files.
- [viewAreaSpatialReference](#)
- [viewAreaProj4](#)
- [mem_drv](#)
- [viewAreaAsRaster](#)
Builds new boundary in the currently displayed window.
- [viewAreaGeoMatrix](#)
- [pixSize](#)
Does everything connected with change zoom.
- [scaleNominator](#)
- [ratio](#)
Coefficient to convert file pix size into graphics scene size.
- [ratioHeight](#)
- [ratioWidth](#)
- [movePressed](#)
Finishes moving layers triggering shift.
- [startPosition](#)
Changes the coordinates in the main window if the mouse moves over the view area or moves layers if the middle button was pressed or proper tool was selected.
- [offset](#)
Pixel coordinates indicate upper left corner whereas geographic coordinates indicates center position of center of pix.
- [viewBoundary](#)
- [sceneHeight](#)
- [sceneWidth](#)
Setup [ViewArea](#) parameters such as: projection EPSG, size of ViewScene, coordinates of center.
- [factor](#)
- [pressed](#)
- [comboIndexEpsg](#)
Dictionary with current used EPSG code, show in viewerApplication.coordinateSystemComboBox.
- [EPSG2Name](#)
Dictionary with all EPSG (by name)

- [EPSG2Proj4](#)

Dictionary with all EPSG (by Proj4)

- [getImageList](#)
- [thread](#)
- [zoomObject](#)
- [zoomThread](#)
- [files](#)

Set parameters of views, run thread for all loaded files.

- [filesAll](#)
- [getDataThread](#)
- [svgWidget](#)

Add loaded files to view as QGraphicsPixmapItem.

- [transformation](#)

8.122.1 Constructor & Destructor Documentation

8.122.1.1 __init__()

```
def agroeyepy.View.viewarea.ViewArea.__init__ (
    self,
    parent = None )
```

8.122.2 Member Function Documentation

8.122.2.1 addFilesModel()

```
def agroeyepy.View.viewarea.ViewArea.addFilesModel (
    self,
    model )
```

8.122.2.2 addLayers()

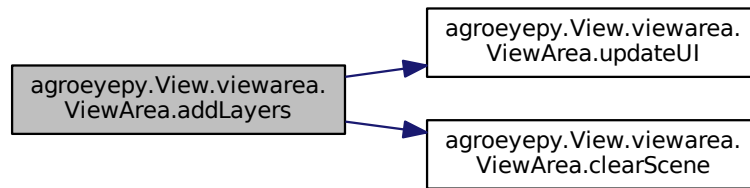
```
def agroeyepy.View.viewarea.ViewArea.addLayers (
    self,
    params )
```

Add loaded files to view as QGraphicsPixmapItem.

Parameters

<i>params</i>	0 - list of raster data; 1 - list of vector data;

Here is the call graph for this function:



8.122.2.3 buildUpBoundary()

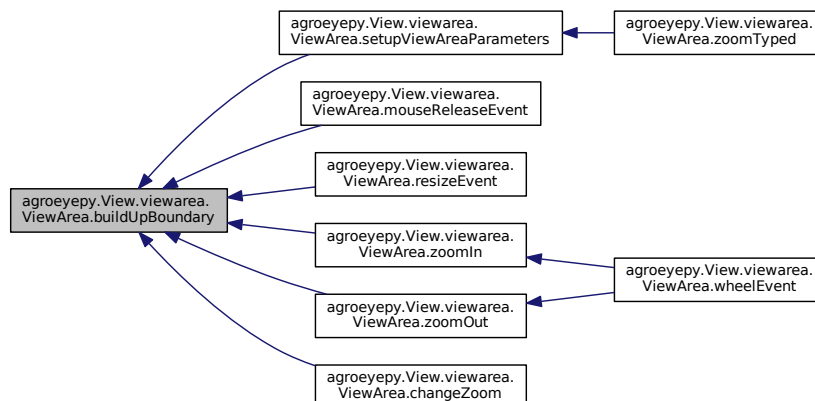
```
def agroeyepy.View.viewarea.ViewArea.buildUpBoundary (
    self )
```

Builds new boundary in the currently displayed window.

Here is the call graph for this function:



Here is the caller graph for this function:



8.122.2.4 changeZoom()

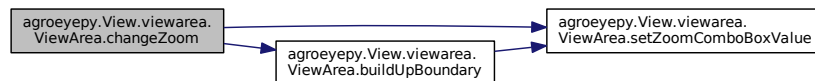
```
def agroeyepy.View.viewarea.ViewArea.changeZoom (
    self,
    lineEdit = None,
    expression = None )
```

Does everything connected with change zoom.

Parameters

<i>lineEdit</i>	Parameter send if rescale was caused by typing value on keyboard
<i>expression</i>	Parameter send if rescale was caused by selecting value from QComboBox

Here is the call graph for this function:



8.122.2.5 checkComboBoxValues()

```
def agroeyepy.View.viewarea.ViewArea.checkComboBoxValues (
    self,
    args,
    kwargs )
```

Simply styling line with editing EPSG code.

When background is yellow it means that more digits are required, When background is green the number of digits is satisfactory Red background never appears because right format of characters is imposed by Regular Expression Validator Here is the caller graph for this function:



8.122.2.6 chooseEPSG()

```
def agroeyepy.View.viewarea.ViewArea.chooseEPSG (
    self,
    newIndex,
    combobox,
    isTemp = False )
```

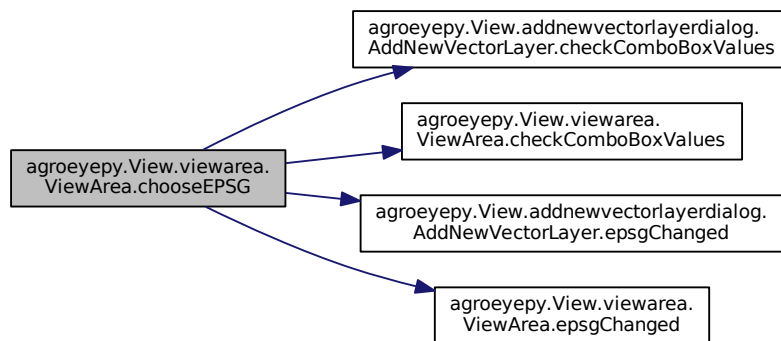
Choose EPSG code.

User can choose EPSG code from list or enter new EPSG Code. If user EPSG Code is valid, new code is add to list.

Parameters

<i>newIndex</i>	Index of EPSG code list
<i>combobox</i>	Given QComboBox widget as a instance of a QComboBox class from PyQt

Here is the call graph for this function:

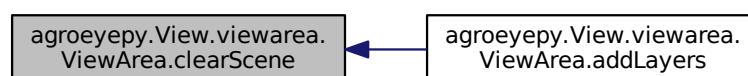


8.122.2.7 clearScene()

```
def agroeyepy.View.viewarea.ViewArea.clearScene (
    self )
```

Clears the scene in order to create space for new elements after for example resizing, zooming, adding new layer or removing it.

Here is the caller graph for this function:

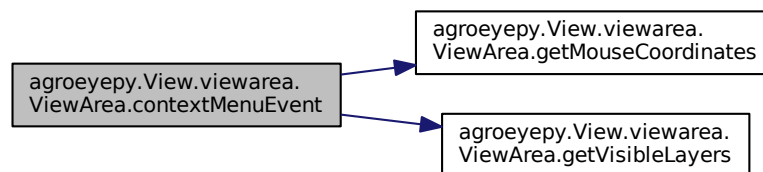


8.122.2.8 contextMenuEvent()

```
def agroeyepy.View.viewarea.ViewArea.contextMenuEvent (
    self,
    event )
```

Creates context menu if right mouse button clicked inside the view area.

Here is the call graph for this function:



8.122.2.9 convertLayersToData()

```
def agroeyepy.View.viewarea.ViewArea.convertLayersToData (
    self,
    fileListVisible,
    fileListAll )
```

Set parameters of views, run thread for all loaded files.

Returns nothing.

Parameters

<i>fileList</i>	List of all loaded files

8.122.2.10 epsgChanged()

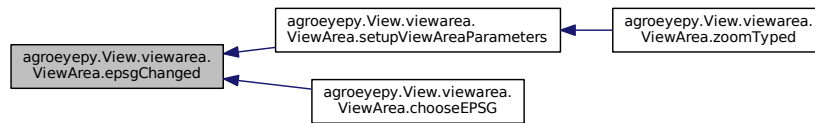
```
def agroeyepy.View.viewarea.ViewArea.epsgChanged (
    self,
    newIndex,
    combobox = False,
    setupMain = False )
```

Set EPSG code to Raster.

Parameters

<i>newIndex</i>	Index of chosen EPSG code
<i>combobox</i>	Given QComboBox widget as a instance of a QComboBox class from PyQt

Here is the caller graph for this function:



8.122.2.11 fromPixelsToCoordinates()

```
def agroeyepy.View.viewarea.ViewArea.fromPixelsToCoordinates (
    self,
    qPoint )
```

Re-Calculates point coordinates from pixel into Geo-Coordinates.

Parameters

<i>qPoint</i>	Given point as a instance of a QPoint class from PyQt

Returns

Returns a point with geo-coordinates, instance of ogr.Point Class

8.122.2.12 getFileName()

```
def agroeyepy.View.viewarea.ViewArea.getFileName (
    self,
    path )
```

8.122.2.13 getMouseCoordinates()

```
def agroeyepy.View.viewarea.ViewArea.getMouseCoordinates (
    self,
    qPoint )
```

Converts pixel coordinates into physical coordinates in the terrain.

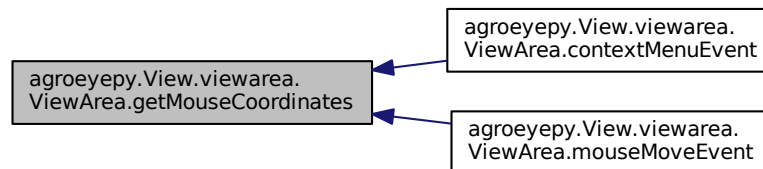
Parameters

<i>qPoint</i>	Pair of coordinates of pixel under current position of mouse

Returns

Emits signal with terrain coordinates of mouse

Here is the caller graph for this function:

**8.122.2.14 getVisibleLayers()**

```
def agroeyepy.View.viewarea.ViewArea.getVisibleLayers (
    self )
```

Here is the caller graph for this function:

**8.122.2.15 mouseDoubleClickEvent()**

```
def agroeyepy.View.viewarea.ViewArea.mouseDoubleClickEvent (
    self,
    event )
```

8.122.2.16 mouseMoveEvent()

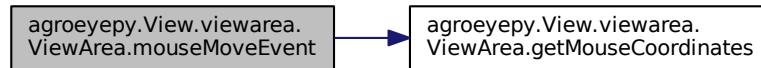
```
def agroeyepy.View.viewarea.ViewArea.mouseMoveEvent (
    self,
    event )
```

Changes the coordinates in the main window if the mouse moves over the view area or moves layers if the middle button was pressed or proper tool was selected.

Parameters

<i>event</i>	Mouse event

Here is the call graph for this function:



8.122.2.17 mousePressEvent()

```
def agroeyepy.View.viewarea.ViewArea.mousePressEvent (
    self,
    event )
```

8.122.2.18 mouseReleaseEvent()

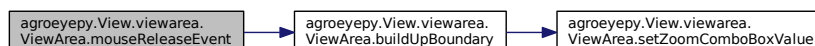
```
def agroeyepy.View.viewarea.ViewArea.mouseReleaseEvent (
    self,
    event )
```

Finishes moving layers triggering shift.

Parameters

<i>event</i>	Mouse event

Here is the call graph for this function:



8.122.2.19 newSceneParameters()

```
def agroeyepy.View.viewarea.ViewArea.newSceneParameters (
    self,
    event )
```

Calculates new width and height of [View](#) Scene.

Parameters

<i>event</i>	Event causes changes

8.122.2.20 panActionToggled()

```
def agroeyepy.View.viewarea.ViewArea.panActionToggled (
    self,
    isToogled )
```

8.122.2.21 projectionFromFirst()

```
def agroeyepy.View.viewarea.ViewArea.projectionFromFirst (
    self )
```

8.122.2.22 properties()

```
def agroeyepy.View.viewarea.ViewArea.properties (
    self )
```

8.122.2.23 rescale()

```
def agroeyepy.View.viewarea.ViewArea.rescale (
    self,
    scale )
```

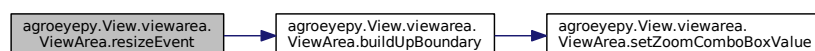
8.122.2.24 resizeEvent()

```
def agroeyepy.View.viewarea.ViewArea.resizeEvent (
    self,
    event )
```

Parameters

<i>event</i>	Sets new value of view area after every resizing

Here is the call graph for this function:



8.122.2.25 revertCoordinates()

```
def agroeyepy.View.viewarea.ViewArea.revertCoordinates (
    self,
    xReal,
    yReal )
```

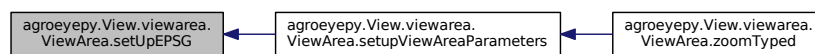
8.122.2.26 setNoStyleZoomComboBox()

```
def agroeyepy.View.viewarea.ViewArea.setNoStyleZoomComboBox (
    self,
    index )
```

8.122.2.27 setUpEPSG()

```
def agroeyepy.View.viewarea.ViewArea.setUpEPSG (
    self,
    combobox,
    code )
```

Here is the caller graph for this function:

**8.122.2.28 setupViewAreaParameters()**

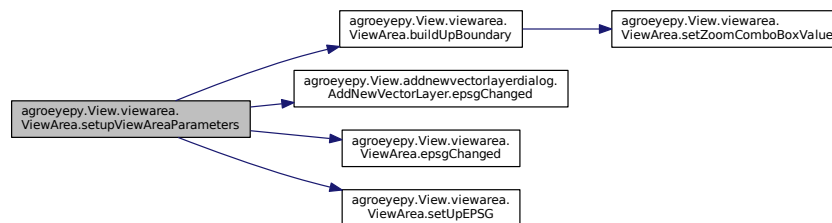
```
def agroeyepy.View.viewarea.ViewArea.setupViewAreaParameters (
    self,
    file = None,
    fullExtent = False )
```

Setup [ViewArea](#) parameters such as: projection EPSG, size of ViewScene, coordinates of center.

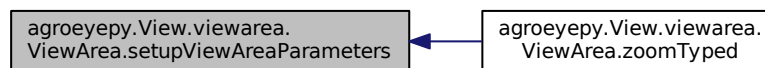
Parameters

<i>file</i>	Required parameters are set up from provided file, raster and vector are possible.

Here is the call graph for this function:



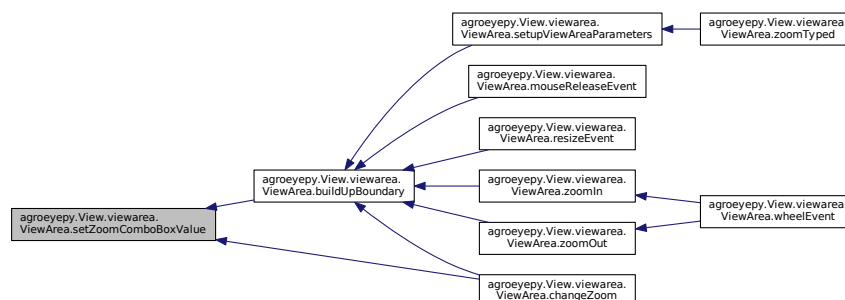
Here is the caller graph for this function:



8.122.2.29 setZoomComboBoxValue()

```
def agroeyepy.View.viewarea.ViewArea.setZoomComboBoxValue (
    self,
    scaleNominator )
```

Here is the caller graph for this function:



8.122.2.30 setZoomWheelScrollFactor()

```
def agroeyepy.View.viewarea.ViewArea.setZoomWheelScrollFactor (
    self,
    valueIn )
```

Changes the strength of the zoom.

Parameters

<i>value</i> ↔ <i>In</i>	Parameter for changes

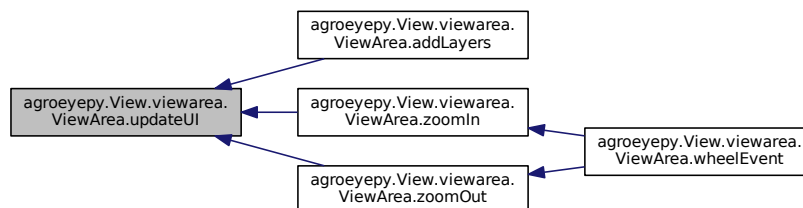
8.122.2.31 transformCoordinates()

```
def agroeyepy.View.viewarea.ViewArea.transformCoordinates (
    self,
    oldProj4,
    xCoord,
    yCooord )
```

8.122.2.32 updateUI()

```
def agroeyepy.View.viewarea.ViewArea.updateUI (
    self )
```

Here is the caller graph for this function:



8.122.2.33 wheelEvent()

```
def agroeyepy.View.viewarea.ViewArea.wheelEvent (
    self,
    event )
```

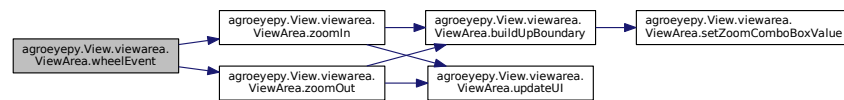
Examines what type of mouse wheel event has just occurred.

Overrides the default method.

Parameters

<i>event</i>	Scrolling the mouse wheel triggers this event

Here is the call graph for this function:



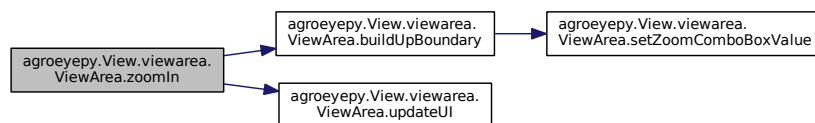
8.122.2.34 zoomIn()

```

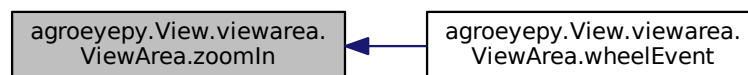
def agroeyepy.View.viewarea.ViewArea.zoomIn (
    self,
    event = None,
    delta = 120 )

if event is not None:
    mousePos = self.mapFromGlobal(event.globalPos())
    self.centralPaintPoint = self.fromPixelsToCoordinates(mousePos)
  
```

Here is the call graph for this function:



Here is the caller graph for this function:



8.122.2.35 zoomOut()

```

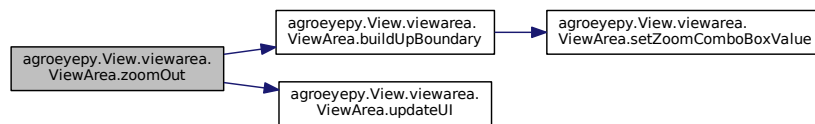
def agroeyepy.View.viewarea.ViewArea.zoomOut (
    self,
    event = None,
    delta = -120 )
  
```

```

if event is not None:
    mousePos = self.mapFromGlobal(event.globalPos())
    self.centralPaintPoint = self.fromPixelsToCoordinates(mousePos)

```

Here is the call graph for this function:



Here is the caller graph for this function:



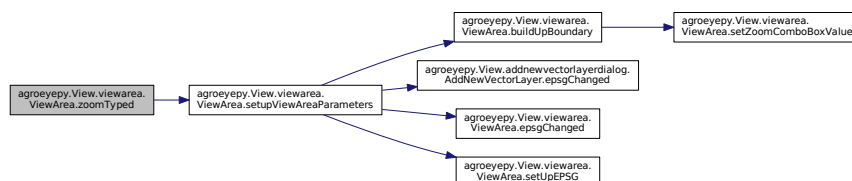
8.122.2.36 zoomTyped()

```

def agroeyepy.View.viewarea.ViewArea.zoomTyped (
    self,
    textTyped,
    combobox )

```

Here is the call graph for this function:



8.122.3 Member Data Documentation

8.122.3.1 centralPaintPoint

```

agroeyepy.View.viewarea.ViewArea.centralPaintPoint

```

8.122.3.2 comboIndexEpsg

```
def agroeyepy.View.viewarea.ViewArea.comboIndexEpsg
```

Dictionary with current used EPSG code, show in viewerApplication.coordinateSystemComboBox.

8.122.3.3 EPSG2Name

```
def agroeyepy.View.viewarea.ViewArea.EPSG2Name
```

Dictionary with all EPSG (by name)

8.122.3.4 EPSG2Proj4

```
def agroeyepy.View.viewarea.ViewArea.EPSG2Proj4
```

Dictionary with all EPSG (by Proj4)

8.122.3.5 factor

```
agroeyepy.View.viewarea.ViewArea.factor
```

```
if event is not None:
    mousePos = self.mapFromGlobal(event.globalPos())
    self.centralPaintPoint = self.fromPixelsToCoordinates(mousePos)
```

8.122.3.6 files

```
agroeyepy.View.viewarea.ViewArea.files
```

Set parameters of views, run thread for all loaded files.

Returns nothing.

Parameters

<i>fileList</i>	List of all loaded files

8.122.3.7 filesAll

```
agroeyepy.View.viewarea.ViewArea.filesAll
```

8.122.3.8 getDataThread

```
agroeyepy.View.viewarea.ViewArea.getDataThread
```

8.122.3.9 getImageList

```
agroeyepy.View.viewarea.ViewArea.getImageList
```

8.122.3.10 mem_drv

```
agroeyepy.View.viewarea.ViewArea.mem_drv
```

8.122.3.11 movePressed

```
def agroeyepy.View.viewarea.ViewArea.movePressed
```

Finishes moving layers triggering shift.

flag checking whether shifting button is pressed or not

Parameters

<i>event</i>	Mouse event

8.122.3.12 offset

```
def agroeyepy.View.viewarea.ViewArea.offset
```

Pixel coordinates indicate upper left corner whereas geographic coordinates indicates center position of center of pix.

8.122.3.13 paintSize

```
def agroeyepy.View.viewarea.ViewArea.paintSize
```

Size of the displaying widget.

Parameters

<i>event</i>	Sets new value of view area after every resizing

8.122.3.14 panActionActive

```
agroeyepy.View.viewarea.ViewArea.panActionActive
```

8.122.3.15 parent

```
agroeyepy.View.viewarea.ViewArea.parent
```

8.122.3.16 pixSize

```
def agroeyepy.View.viewarea.ViewArea.pixSize
```

Does everything connected with change zoom.

Current size of the graphics pix in meters.

Parameters

<i>lineEdit</i>	Parameter send if rescale was caused by typing value on keyboard
<i>expression</i>	Parameter send if rescale was caused by selecting value from QComboBox

8.122.3.17 pressed

```
agroeyepy.View.viewarea.ViewArea.pressed
```

8.122.3.18 projectionEPSG

```
def agroeyepy.View.viewarea.ViewArea.projectionEPSG
```

EPSG of showed files.

8.122.3.19 projectionFirst

```
agroeyepy.View.viewarea.ViewArea.projectionFirst
```

Set EPSG code to Raster.

Parameters

<i>newIndex</i>	Index of chosen EPSG code
<i>combobox</i>	Given QComboBox widget as a instance of a QComboBox class from PyQt

8.122.3.20 ratio

```
def agroeyepy.View.viewarea.ViewArea.ratio
```

Coefficient to convert file pix size into graphics scene size.

8.122.3.21 ratioHeight

```
agroeyepy.View.viewarea.ViewArea.ratioHeight
```

8.122.3.22 ratioWidth

```
agroeyepy.View.viewarea.ViewArea.ratioWidth
```

8.122.3.23 scaleNominator

```
agroeyepy.View.viewarea.ViewArea.scaleNominator
```

8.122.3.24 scene

```
agroeyepy.View.viewarea.ViewArea.scene
```

Clears the scene in order to create space for new elements after for example resizing, zooming, adding new layer or removing it.

8.122.3.25 sceneHeight

```
agroeyepy.View.viewarea.ViewArea.sceneHeight
```

8.122.3.26 sceneWidth

```
agroeyepy.View.viewarea.ViewArea.sceneWidth
```

Setup [ViewArea](#) parameters such as: projection EPSG, size of ViewScene, coordinates of center.

Parameters

<i>file</i>	Required parameters are set up from provided file, raster and vector are possible.

8.122.3.27 startPosition

```
def agroeyepy.View.viewarea.ViewArea.startPosition
```

Changes the coordinates in the main window if the mouse moves over the view area or moves layers if the middle button was pressed or proper tool was selected.

Coordinates of the position of the beginning of the movement.

Parameters

<i>event</i>	Mouse event

8.122.3.28 stretchClass

```
agroeyepy.View.viewarea.ViewArea.stretchClass
```

8.122.3.29 svgWidget

```
agroeyepy.View.viewarea.ViewArea.svgWidget
```

Add loaded files to view as QGraphicsPixmapItem.

Parameters

<i>params</i>	0 - list of raster data; 1 - list of vector data;

8.122.3.30 thread

```
agroeyepy.View.viewarea.ViewArea.thread
```

8.122.3.31 transformation

```
agroeyepy.View.viewarea.ViewArea.transformation
```

8.122.3.32 vectorColorIn

```
agroeyepy.View.viewarea.ViewArea.vectorColorIn
```

8.122.3.33 vectorFillStyle

```
agroeyepy.View.viewarea.ViewArea.vectorFillStyle
```

8.122.3.34 vectorLineStyle

```
agroeyepy.View.viewarea.ViewArea.vectorLineStyle
```

8.122.3.35 vectorOpacity

```
agroeyepy.View.viewarea.ViewArea.vectorOpacity
```

8.122.3.36 vectorPixSize

```
agroeyepy.View.viewarea.ViewArea.vectorPixSize
```

8.122.3.37 vectorSymbolStyle

```
agroeyepy.View.viewarea.ViewArea.vectorSymbolStyle
```

8.122.3.38 viewAreaAsRaster

```
agroeyepy.View.viewarea.ViewArea.viewAreaAsRaster
```

Builds new boundary in the currently displayed window.

8.122.3.39 viewAreaGeoMatrix

```
agroeyepy.View.viewarea.ViewArea.viewAreaGeoMatrix
```

8.122.3.40 viewAreaProj4

```
agroeyepy.View.viewarea.ViewArea.viewAreaProj4
```

8.122.3.41 viewAreaSpatialReference

```
agroeyepy.View.viewarea.ViewArea.viewAreaSpatialReference
```

8.122.3.42 viewBoundary

```
agroeyepy.View.viewarea.ViewArea.viewBoundary
```

8.122.3.43 wheelScrollZoomFactor

```
agroeyepy.View.viewarea.ViewArea.wheelScrollZoomFactor
```

Changes the strength of the zoom.

Parameters

<i>value</i> ↔ <i>In</i>	Parameter for changes

8.122.3.44 zoomObject

```
agroeyepy.View.viewarea.ViewArea.zoomObject
```

8.122.3.45 zoomThread

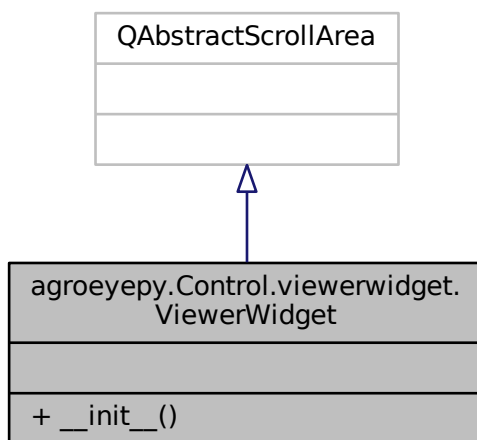
```
agroeyepy.View.viewarea.ViewArea.zoomThread
```

The documentation for this class was generated from the following file:

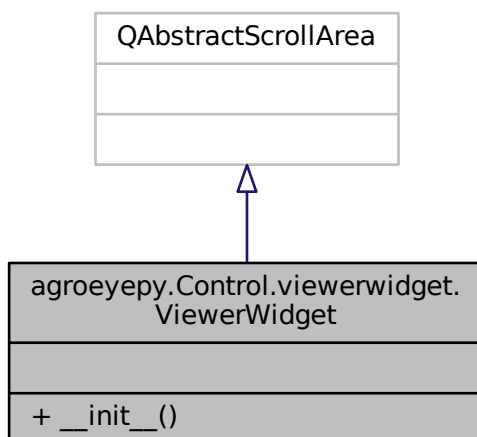
- `agroeyepy/View/viewarea.py`

8.123 agroeyepy.Control.viewerwidget.ViewerWidget Class Reference

Inheritance diagram for `agroeyepy.Control.viewerwidget.ViewerWidget`:



Collaboration diagram for `agroeyepy.Control.viewerwidget.ViewerWidget`:



Public Member Functions

- `def \_\_init\_\_ (self, parent)`

8.123.1 Detailed Description

Widget z wyświetlanym obrazem

8.123.2 Constructor & Destructor Documentation

8.123.2.1 `__init__()`

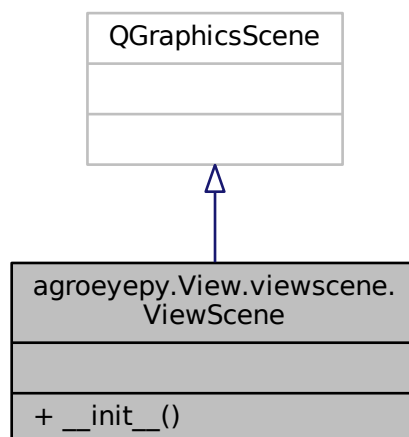
```
def agroeyepy.Control.viewerwidget.ViewerWidget.__init__ (  
    self,  
    parent )
```

The documentation for this class was generated from the following file:

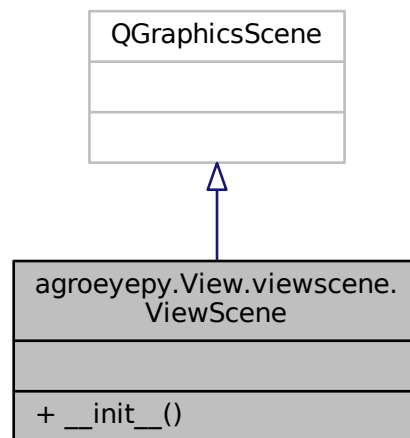
- `agroeyepy/Control/viewerwidget.py`

8.124 `agroeyepy.View.viewscene.ViewScene` Class Reference

Inheritance diagram for `agroeyepy.View.viewscene.ViewScene`:



Collaboration diagram for agroeyepy.View.viewscene.ViewScene:



Public Member Functions

- `def \_\_init\_\_ (self, parent=None)`

8.124.1 Constructor & Destructor Documentation

8.124.1.1 `__init__()`

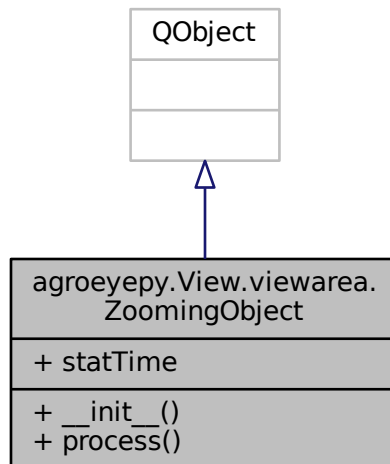
```
def agroeyepy.View.viewscene.ViewScene.__init__ (
    self,
    parent = None )
```

The documentation for this class was generated from the following file:

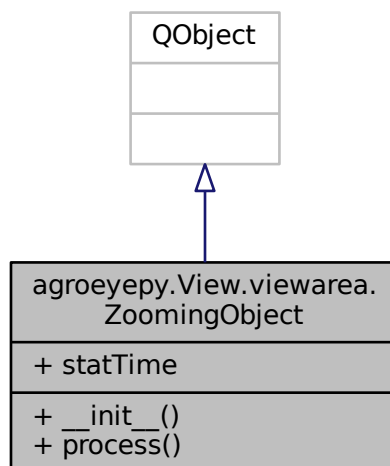
- `agroeyepy/View/viewscene.py`

8.125 agroeyepy.View.viewarea.ZoomingObject Class Reference

Inheritance diagram for agroeyepy.View.viewarea.ZoomingObject:



Collaboration diagram for agroeyepy.View.viewarea.ZoomingObject:



Public Member Functions

- `def \_\_init\_\_ (self, parent=None)`
- `def process (self)`

Public Attributes

- [statTime](#)

8.125.1 Constructor & Destructor Documentation

8.125.1.1 `__init__()`

```
def agroeyepy.View.viewarea.ZoomingObject.__init__ (
    self,
    parent = None )
```

8.125.2 Member Function Documentation

8.125.2.1 `process()`

```
def agroeyepy.View.viewarea.ZoomingObject.process (
    self )
```

8.125.3 Member Data Documentation

8.125.3.1 `statTime`

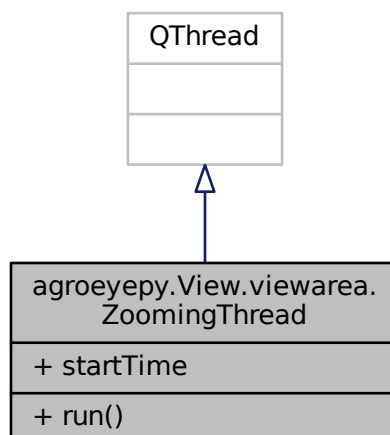
```
agroeyepy.View.viewarea.ZoomingObject.statTime
```

The documentation for this class was generated from the following file:

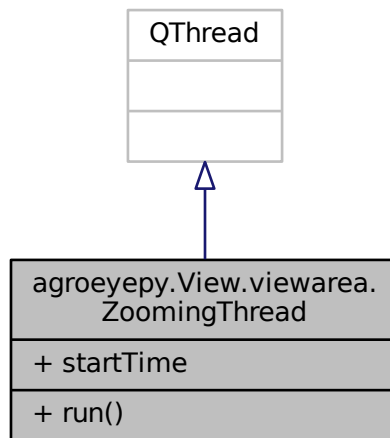
- `agroeyepy/View/viewarea.py`

8.126 agroeyepy.View.viewarea.ZoomingThread Class Reference

Inheritance diagram for `agroeyepy.View.viewarea.ZoomingThread`:



Collaboration diagram for `agroeyepy.View.viewarea.ZoomingThread`:



Public Member Functions

- `def run (self)`

Public Attributes

- `startTime`

8.126.1 Member Function Documentation

8.126.1.1 `run()`

```
def agroeyepy.View.viewarea.ZoomingThread.run (
    self )
```

8.126.2 Member Data Documentation

8.126.2.1 `startTime`

```
agroeyepy.View.viewarea.ZoomingThread.startTime
```

The documentation for this class was generated from the following file:

- `agroeyepy/View/viewarea.py`

Chapter 9

File Documentation

9.1 agroeyepy/Control/agroeye_modules.py File Reference

Namespaces

- [agroeyepy.Control.agroeye_modules](#)

9.2 agroeyepy/Control/db_connection.py File Reference

Classes

- class [agroeyepy.Control.db_connection.ConnectDatabase](#)
Opens database.

Namespaces

- [agroeyepy.Control.db_connection](#)

9.3 agroeyepy/Control/exceptionModel.py File Reference

Classes

- class [agroeyepy.Control.exceptionModel.Exception](#)
- class [agroeyepy.Control.exceptionModel.OpenFileError](#)
- class [agroeyepy.Control.exceptionModel.LayerError](#)
- class [agroeyepy.Control.exceptionModel.DriverError](#)
- class [agroeyepy.Control.exceptionModel.PathError](#)
- class [agroeyepy.Control.exceptionModel.GeometryTypeException](#)
- class [agroeyepy.Control.exceptionModel.SpatialReferenceSystemError](#)
- class [agroeyepy.Control.exceptionModel.FeatureError](#)
- class [agroeyepy.Control.exceptionModel.UniqueNameError](#)
- class [agroeyepy.Control.exceptionModel.PolygonInvalidError](#)
- class [agroeyepy.Control.exceptionModel.EPSGCodeError](#)
- class [agroeyepy.Control.exceptionModel.FileFormatError](#)
- class [agroeyepy.Control.exceptionModel.NumberCharWarning](#)
- class [agroeyepy.Control.exceptionModel.SpecialCharWarning](#)
- class [agroeyepy.Control.exceptionModel.StartCharWarning](#)
- class [agroeyepy.Control.exceptionModel.SaveFileError](#)
- class [agroeyepy.Control.exceptionModel.ValidatorError](#)
- class [agroeyepy.Control.exceptionModel.OverwriteFileError](#)

Namespaces

- [agroeyepy.Control.exceptionModel](#)

9.4 agroeyepy/Control/loadedfiles_model.py File Reference

Classes

- class [agroeyepy.Control.loadedfiles_model.LoadedFiles](#)
- class [agroeyepy.Control.loadedfiles_model.LoadedFiles_ListView](#)

Namespaces

- [agroeyepy.Control.loadedfiles_model](#)

9.5 agroeyepy/Control/viewerApplication.py File Reference

Classes

- class [agroeyepy.Control.viewerApplication.AgroEye](#)
Main Class Everything runs from this point.

Namespaces

- [agroeyepy.Control.viewerApplication](#)

Functions

- def [agroeyepy.Control.viewerApplication.removeAfterClose](#) ()
After close vector file, remove created svg file (in temp svg directory).

Variables

- [agroeyepy.Control.viewerApplication.app](#) = QtGui.QApplication(sys.argv)
- [agroeyepy.Control.viewerApplication.myapp](#) = AgroEye()

9.6 agroeyepy/Control/viewerwidget.py File Reference

Classes

- class [agroeyepy.Control.viewerwidget.ViewerWidget](#)

Namespaces

- [agroeyepy.Control.viewerwidget](#)

9.7 agroeyepy/Logic/conversions.py File Reference

Classes

- class [agroeyepy.Logic.conversions.GdalToNumpy](#)

Namespaces

- [agroeyepy.Logic.conversions](#)

9.8 agroeyepy/Logic/rasterattributes.py File Reference

Classes

- class [agroeyepy.Logic.rasterattributes.RasterAttributes](#)
- class [agroeyepy.Logic.rasterattributes.ChangedList](#)
- class [agroeyepy.Logic.rasterattributes.ChangedList.Dict2Change](#)

Namespaces

- [agroeyepy.Logic.rasterattributes](#)

9.9 agroeyepy/Logic/rasterCalculator.py File Reference

Classes

- class [agroeyepy.Logic.rasterCalculator.RasterCalcutor](#)

Namespaces

- [agroeyepy.Logic.rasterCalculator](#)

9.10 agroeyepy/View/rastercalculator.py File Reference

Classes

- class [agroeyepy.View.rastercalculator.RasterCalculator](#)

Namespaces

- [agroeyepy.View.rastercalculator](#)

9.11 agroeyepy/Logic/rasterLayerMechanism.py File Reference

Classes

- class [agroeyepy.Logic.rasterLayerMechanism.RasterFile](#)
- class [agroeyepy.Logic.rasterLayerMechanism.ProgressDialog](#)

Namespaces

- [agroeyepy.Logic.rasterLayerMechanism](#)

9.12 agroeyepy/Logic/saveVectorLayerMechanism.py File Reference

Classes

- class [agroeyepy.Logic.saveVectorLayerMechanism.NewVector](#)

Namespaces

- [agroeyepy.Logic.saveVectorLayerMechanism](#)

9.13 agroeyepy/Logic/vectorLayerMechanism.py File Reference

Classes

- class [agroeyepy.Logic.vectorLayerMechanism.VectorFile](#)
- class [agroeyepy.Logic.vectorLayerMechanism.VectorCheckLayer](#)
- class [agroeyepy.Logic.vectorLayerMechanism.PointStyle](#)
- class [agroeyepy.Logic.vectorLayerMechanism.FillStyle](#)
- class [agroeyepy.Logic.vectorLayerMechanism.LineStyle](#)

Namespaces

- [agroeyepy.Logic.vectorLayerMechanism](#)

9.14 agroeyepy/Logic/vectorSVGRenderer.py File Reference

Classes

- class [agroeyepy.Logic.vectorSVGRenderer.VectorCreate](#)
- class [agroeyepy.Logic.vectorSVGRenderer.Vertex](#)
- class [agroeyepy.Logic.vectorSVGRenderer.SvgRenderer](#)

Namespaces

- [agroeyepy.Logic.vectorSVGRenderer](#)

9.15 agroeyepy/Logic/vectorTableMechanism.py File Reference

Classes

- class [agroeyepy.Logic.vectorTableMechanism.ColumnAddDialog](#)
- class [agroeyepy.Logic.vectorTableMechanism.ColumnDelDialog](#)
- class [agroeyepy.Logic.vectorTableMechanism.RenameDialog](#)
- class [agroeyepy.Logic.vectorTableMechanism.VariantDelegate](#)
- class [agroeyepy.Logic.vectorTableMechanism.CoordinateDelegate](#)
- class [agroeyepy.Logic.vectorTableMechanism.ValidateClass](#)

Namespaces

- [agroeyepy.Logic.vectorTableMechanism](#)

9.16 agroeyepy/View/Additional/palette.py File Reference

Classes

- class [agroeyepy.View.Additional.palette.Palette](#)

Namespaces

- [agroeyepy.View.Additional.palette](#)

9.17 agroeyepy/View/addlayerdialog.py File Reference

Classes

- class [agroeyepy.View.addlayerdialog.AddLayersDialog](#)

Namespaces

- [agroeyepy.View.addlayerdialog](#)

9.18 agroeyepy/View/addlayersdialog.py File Reference

Classes

- class [agroeyepy.View.addlayersdialog.AddLayersDialog](#)

Namespaces

- [agroeyepy.View.addlayersdialog](#)

9.19 agroeyepy/View/addnewobjecttolayer.py File Reference

Classes

- class [agroeyepy.View.addnewobjecttolayer.AddNewVectorObjectToLayer](#)
- class [agroeyepy.View.addnewobjecttolayer.Point](#)
- class [agroeyepy.View.addnewobjecttolayer.Line](#)
- class [agroeyepy.View.addnewobjecttolayer.Polygon](#)
- class [agroeyepy.View.addnewobjecttolayer.Attribute](#)

Namespaces

- [agroeyepy.View.addnewobjecttolayer](#)

9.20 agroeyepy/View/addnewvectorlayerdialog.py File Reference

Classes

- class [agroeyepy.View.addnewvectorlayerdialog.AddNewVectorLayer](#)

Namespaces

- [agroeyepy.View.addnewvectorlayerdialog](#)

9.21 agroeyepy/View/attributetabledialog.py File Reference

Classes

- class [agroeyepy.View.attributetabledialog.TableDialog](#)

Namespaces

- [agroeyepy.View.attributetabledialog](#)

9.22 agroeyepy/View/checkstyle.py File Reference

Classes

- class [agroeyepy.View.checkstyle.StyleDialog](#)

Namespaces

- [agroeyepy.View.checkstyle](#)

9.23 agroeyepy/View/compositiondialog.py File Reference

Classes

- class [agroeyepy.View.compositiondialog.CompositionDialog](#)

Namespaces

- [agroeyepy.View.compositiondialog](#)

9.24 agroeyepy/View/editstyledialog.py File Reference

Classes

- class [agroeyepy.View.editstyledialog.Edit](#)
- class [agroeyepy.View.editstyledialog.EditPointDialog](#)
- class [agroeyepy.View.editstyledialog.EditLineDialog](#)
- class [agroeyepy.View.editstyledialog.EditPolygonDialog](#)

Namespaces

- [agroeyepy.View.editstyledialog](#)

9.25 agroeyepy/View/histogramdialog.py File Reference

Classes

- class [agroeyepy.View.histogramdialog.HistogramDialog](#)
- class [agroeyepy.View.histogramdialog.MplCanvasMetaclass](#)
: Metaclass for [MplCanvas](#).
- class [agroeyepy.View.histogramdialog.MplCanvas](#)
: Class used for plotting histograms and LUTs.
- class [agroeyepy.View.histogramdialog.CustomTabBar](#)
: Customized tab bar of plots.

Namespaces

- [agroeyepy.View.histogramdialog](#)

9.26 agroeyepy/View/identifydialog.py File Reference

Classes

- class [agroeyepy.View.identifydialog.IdentifyDialog](#)
- class [agroeyepy.View.identifydialog.IdentifyDialogModel](#)
- class [agroeyepy.View.identifydialog.PlotCanvas](#)

Namespaces

- [agroeyepy.View.identifydialog](#)

9.27 agroeyepy/View/loadedfilesdockwidget.py File Reference

Classes

- class [agroeyepy.View.loadedfilesdockwidget.LoadedFilesDockWidget](#)

Namespaces

- [agroeyepy.View.loadedfilesdockwidget](#)

9.28 agroeyepy/View/MainWindow.py File Reference

Classes

- class [agroeyepy.View.MainWindow.Ui_AE_Window](#)

Namespaces

- [agroeyepy.View.MainWindow](#)

Variables

- [agroeyepy.View.MainWindow.app](#) = QtGui.QApplication(sys.argv)
- [agroeyepy.View.MainWindow.AE_Window](#) = QtGui.QMainWindow()
- [agroeyepy.View.MainWindow.ui](#) = Ui_AE_Window()

9.29 agroeyepy/View/measureareatool.py File Reference

Classes

- class [agroeyepy.View.measureareatool.MeasureAreaTool](#)

Namespaces

- [agroeyepy.View.measureareatool](#)

9.30 agroeyepy/View/measuredistancetool.py File Reference

Classes

- class [agroeyepy.View.measuredistancetool.MeasureDistanceToolMetaclass](#)
- class [agroeyepy.View.measuredistancetool.MeasureDistanceTool](#)
- class [agroeyepy.View.measuredistancetool.StyleOfPen](#)

Namespaces

- [agroeyepy.View.measuredistancetool](#)

9.31 agroeyepy/View/modeldialog.py File Reference

Classes

- class [agroeyepy.View.modeldialog.ModelGAEC](#)
- class [agroeyepy.View.modeldialog.FilesBlock](#)
- class [agroeyepy.View.modeldialog.FunctionBlock](#)
- class [agroeyepy.View.modeldialog.ArrowItem](#)
- class [agroeyepy.View.modeldialog.TextItem](#)
- class [agroeyepy.View.modeldialog.InputFiles](#)
- class [agroeyepy.View.modeldialog.OutputFiles](#)
- class [agroeyepy.View.modeldialog.TableView](#)
- class [agroeyepy.View.modeldialog.Segmentation](#)
- class [agroeyepy.View.modeldialog.Draw](#)

Namespaces

- [agroeyepy.View.modeldialog](#)

9.32 agroeyepy/View/preferences.py File Reference

Classes

- class [agroeyepy.View.preferences.Preferences](#)

Namespaces

- [agroeyepy.View.preferences](#)

9.33 agroeyepy/View/progressdialog.py File Reference

Classes

- class [agroeyepy.View.progressdialog.AgroeyeCallback](#)
- class [agroeyepy.View.progressdialog.PyCallback](#)

Namespaces

- [agroeyepy.View.progressdialog](#)

9.34 agroeyepy/View/propertiesdialog2.py File Reference

Classes

- class [agroeyepy.View.propertiesdialog2.PropertiesDialog](#)
- class [agroeyepy.View.propertiesdialog2.PropertiesDialogModel](#)

Namespaces

- [agroeyepy.View.propertiesdialog2](#)

9.35 agroeyepy/View/temp.py File Reference

Namespaces

- [agroeyepy.View.temp](#)

Functions

- def [agroeyepy.View.temp.qInitResources](#) ()
- def [agroeyepy.View.temp.qCleanupResources](#) ()

Variables

- string [agroeyepy.View.temp.qt_resource_data](#)
- string [agroeyepy.View.temp.qt_resource_name](#)
- string [agroeyepy.View.temp.qt_resource_struct](#)

9.36 agroeyepy/View/viewarea.py File Reference

Classes

- class [agroeyepy.View.viewarea.ViewArea](#)
- class [agroeyepy.View.viewarea.GetDataImagesThread](#)
- class [agroeyepy.View.viewarea.ZoomingThread](#)
- class [agroeyepy.View.viewarea.ZoomingObject](#)
- class [agroeyepy.View.viewarea.DefaultRasterStretch](#)

Namespaces

- [agroeyepy.View.viewarea](#)

9.37 agroeyepy/View/viewscene.py File Reference

Classes

- class [agroeyepy.View.viewscene.ViewScene](#)

Namespaces

- [agroeyepy.View.viewscene](#)

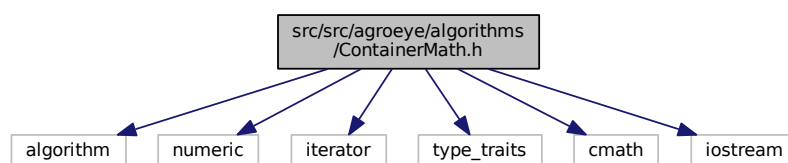
9.38 doc/download_page.dox File Reference

9.39 doc/mainpage.dox File Reference

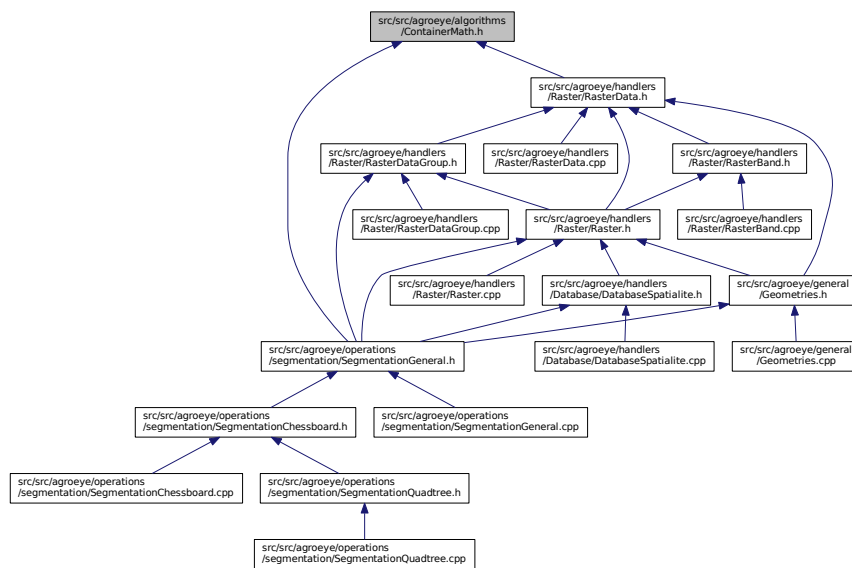
9.40 src/src/agroeye/algorithms/ContainerMath.h File Reference

```
#include <algorithm>
#include <numeric>
#include <iterator>
#include <type_traits>
#include <cmath>
#include <iostream>
```

Include dependency graph for ContainerMath.h:



This graph shows which files directly or indirectly include this file:



Namespaces

- [agroeye](#)
- [agroeye::algorithm](#)
- [agroeye::algorithm::math](#)

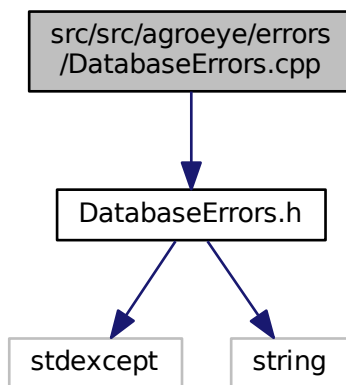
Functions

- `template<class Iterator >`
`double agroeye::algorithm::math::mean (Iterator first, Iterator last)`
Metafunction computing the mean value. This function calculates the mean value of elements in given container pointed by pair of iterators.
- `template<class Iterator >`
`double agroeye::algorithm::math::mean (Iterator first, Iterator last, typename Iterator::value_type ignoreValue)`
Metafunction computing the mean value. This function calculates the mean value of elements in given container pointed by pair of iterators. From computation of mean value all values having ignoreValue are excluded.
- `template<class Iterator >`
`double agroeye::algorithm::math::stddev (Iterator first, Iterator last)`
Metafunction computing the standard deviation value. This function calculates the standard deviation value of elements in given container pointed by pair of iterators.
- `template<class Iterator >`
`double agroeye::algorithm::math::stddev (Iterator first, Iterator last, typename Iterator::value_type ignoreValue)`
Metafunction computing the standard deviation value. This function calculates the standard deviation value of elements in given container pointed by pair of iterators. From computation of standard deviation value all values having ignoreValue are excluded.

9.41 src/src/agroeye/errors/DatabaseErrors.cpp File Reference

```
#include "DatabaseErrors.h"
```

Include dependency graph for DatabaseErrors.cpp:

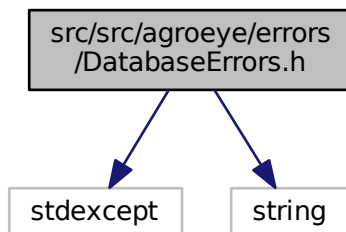


9.42 src/src/agroeye/errors/DatabaseErrors.h File Reference

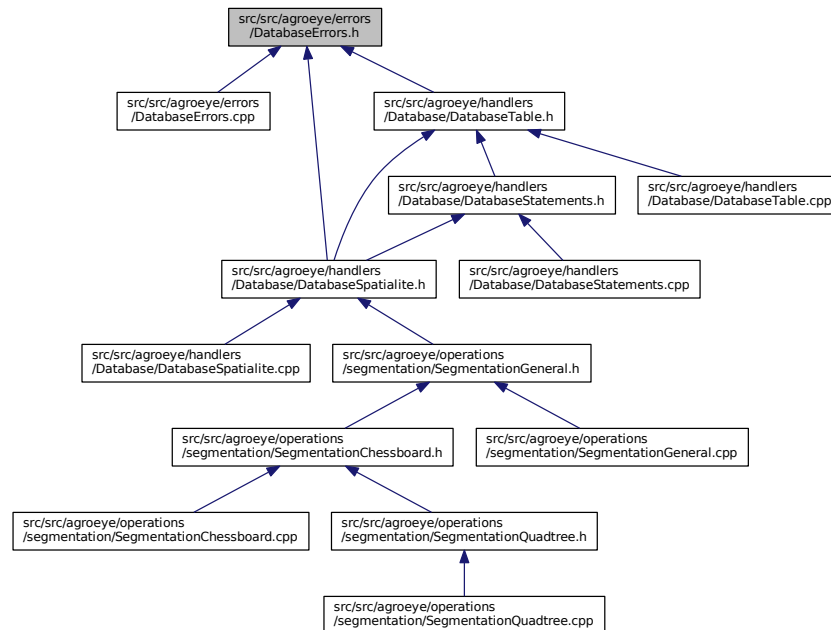
```
#include <stdexcept>
```

```
#include <string>
```

Include dependency graph for DatabaseErrors.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::errors::SpatialiteError](#)
Exceptions associated with [agroeye::handlers::Spatialite](#).
- class [agroeye::errors::TableError](#)
Exceptions associated with [agroeye::handlers::Db Table](#).
- class [agroeye::errors::StatementError](#)
Exceptions associated with [Statements](#).

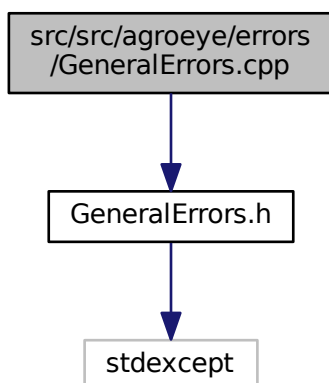
Namespaces

- [agroeye](#)
- [agroeye::errors](#)

9.43 src/src/agroeye/errors/GeneralErrors.cpp File Reference

```
#include "GeneralErrors.h"
```

Include dependency graph for GeneralErrors.cpp:



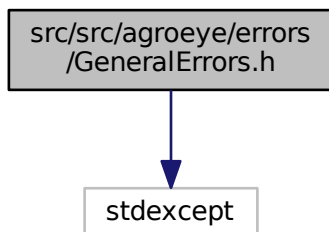
Namespaces

- [agroeye](#)
- [agroeye::errors](#)

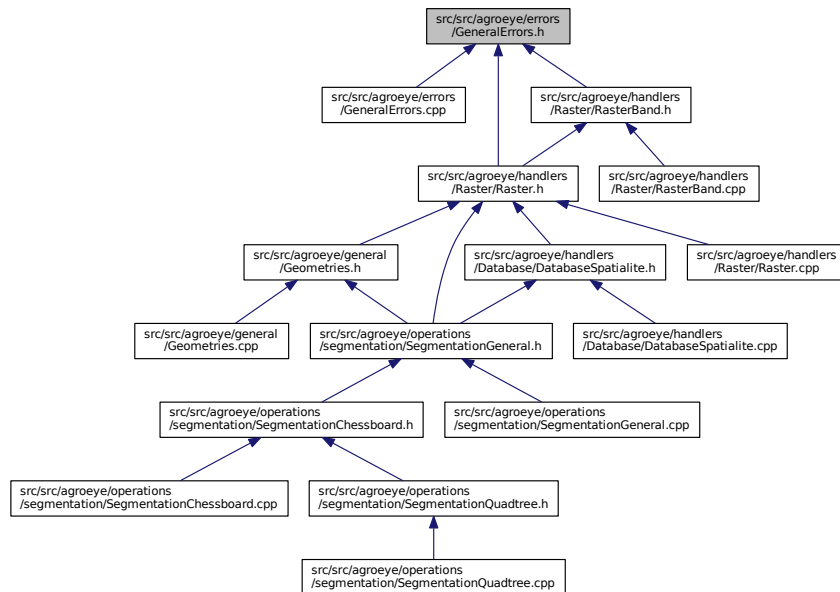
9.44 src/src/agroeye/errors/GeneralErrors.h File Reference

```
#include <stdexcept>
```

Include dependency graph for GeneralErrors.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::errors::EmptyList](#)
General exceptions describing empty container.
- class [agroeye::errors::IncorrectValue](#)
General exceptions describind the incorrectness of value.

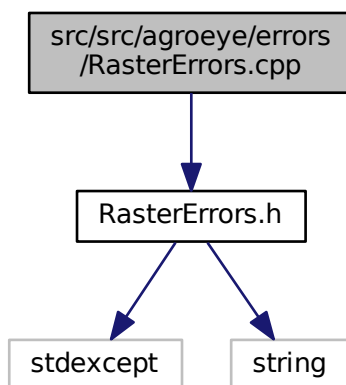
Namespaces

- [agroeye](#)
- [agroeye::errors](#)

9.45 src/src/agroeye/errors/RasterErrors.cpp File Reference

```
#include "RasterErrors.h"
```

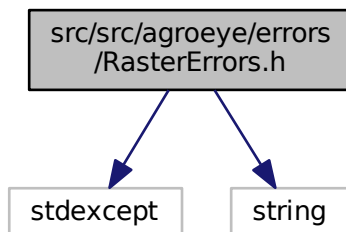

Include dependency graph for RasterErrors.cpp:



9.46 src/src/agroeye/errors/RasterErrors.h File Reference

```
#include <stdexcept>
#include <string>
```

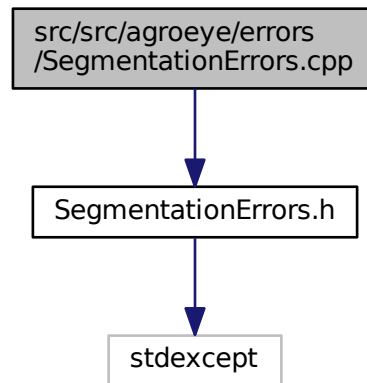
Include dependency graph for RasterErrors.h:



9.47 src/src/agroeye/errors/SegmentationErrors.cpp File Reference

```
#include "SegmentationErrors.h"
```

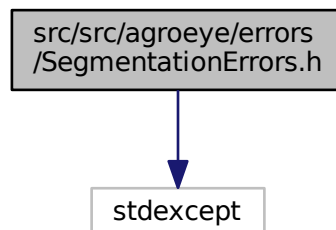
Include dependency graph for SegmentationErrors.cpp:



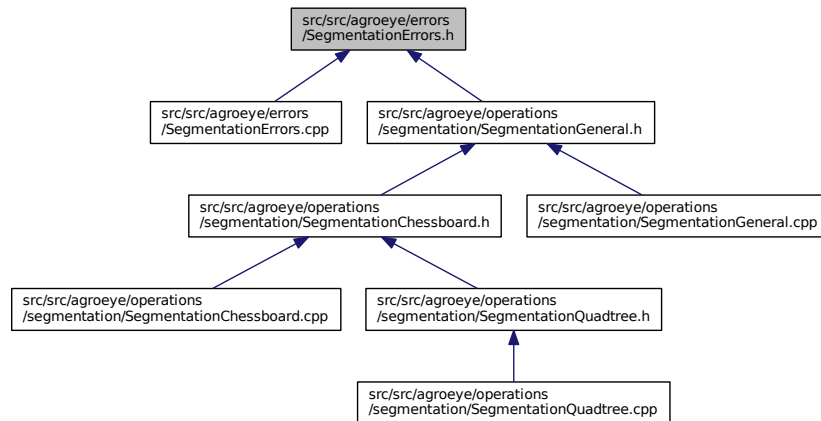
9.48 src/src/agroeye/errors/SegmentationErrors.h File Reference

```
#include <stdexcept>
```

Include dependency graph for SegmentationErrors.h:



This graph shows which files directly or indirectly include this file:



Classes

- class `agroeye::errors::IncorrectSideSize`
Exception associated with `agroeye::operations::ChessboardSegmentation`.
- class `agroeye::errors::InvalidThresholdValue`
Errors related to invalid value of threshold parameter in quadtree segmentation.

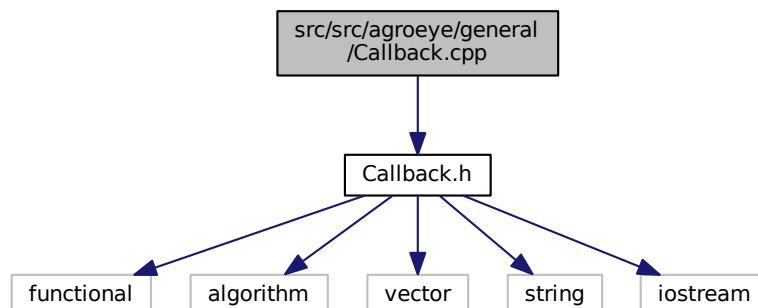
Namespaces

- `agroeye`
- `agroeye::errors`

9.49 src/src/agroeye/general/Callback.cpp File Reference

```
#include "Callback.h"
```

Include dependency graph for `Callback.cpp`:



Namespaces

- [agroeye](#)
- [agroeye::general](#)

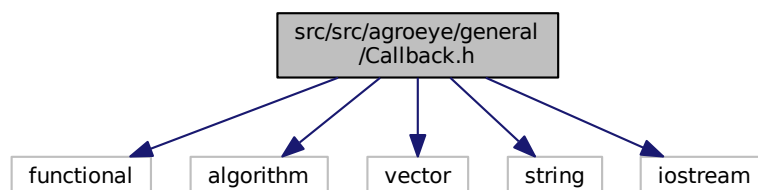
Functions

- void [agroeye::general::defaultCallback](#) (double progress, ListCallbackTypes listTypes, std::string message)
A default callback.
- void [agroeye::general::silenceCallback](#) (double progress, ListCallbackTypes listTypes, std::string message)
Silencing callback.

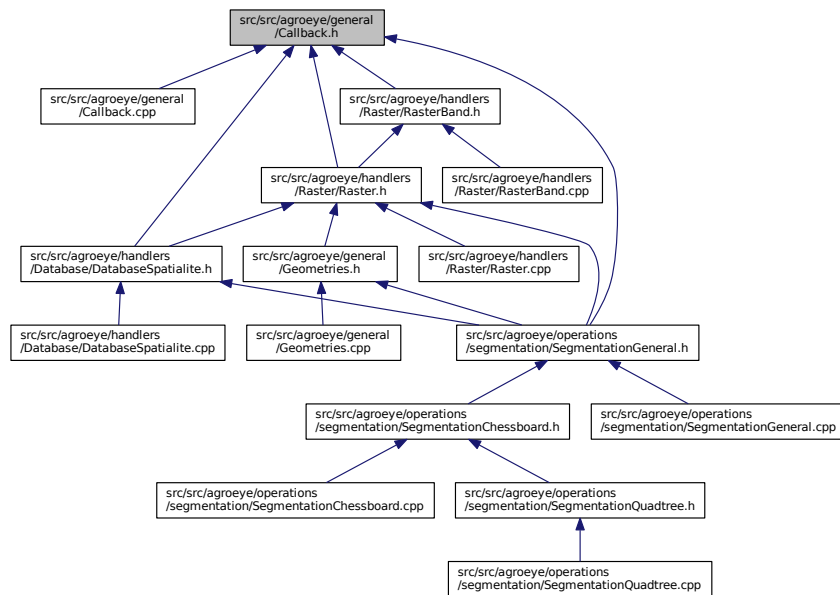
9.50 src/src/agroeye/general/Callback.h File Reference

```
#include <functional>
#include <algorithm>
#include <vector>
#include <string>
#include <iostream>
```

Include dependency graph for Callback.h:



This graph shows which files directly or indirectly include this file:



Namespaces

- [agroeye](#)
- [agroeye::general](#)

Typedefs

- using [agroeye::general::ListCallbackTypes](#) = `std::vector< CallbackTypes >`
- using [agroeye::general::CallbackFunction](#) = `std::function< void(double, ListCallbackTypes, std::string)>`

Enumerations

- enum [agroeye::general::CallbackTypes](#) { [agroeye::general::CallbackTypes::PROGRESS](#), [agroeye::general::CallbackTypes::INFO](#), [agroeye::general::CallbackTypes::DEBUG](#), [agroeye::general::CallbackTypes::ERROR](#) }

Type of callback that can be called function.

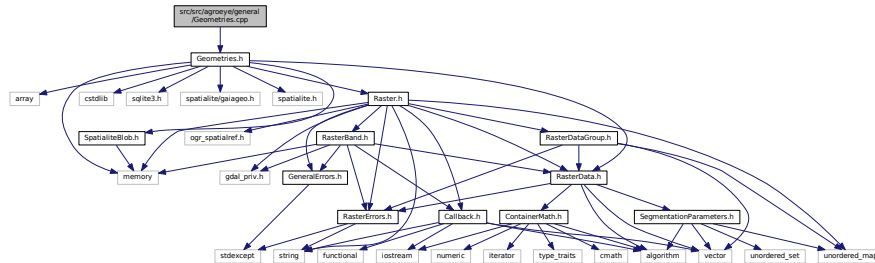
Functions

- void [agroeye::general::defaultCallback](#) (double progress, ListCallbackTypes listTypes, std::string message)
A default callback.
- void [agroeye::general::silenceCallback](#) (double progress, ListCallbackTypes listTypes, std::string message)
Silencing callback.

9.51 src/src/agroeye/general/Geometries.cpp File Reference

```
#include "Geometries.h"
```

Include dependency graph for Geometries.cpp:



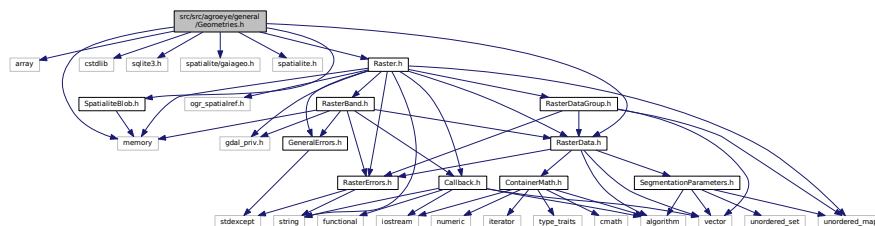
Namespaces

- [agroeye](#)
- [agroeye::general](#)
- [agroeye::general::geometry](#)

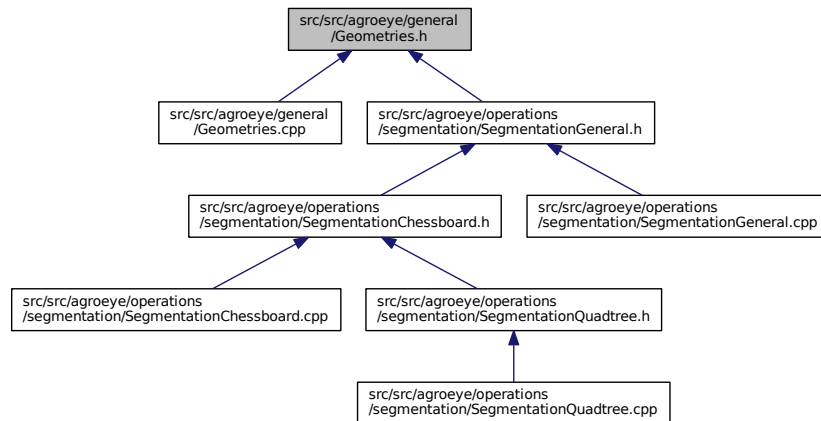
9.52 src/src/agroeye/general/Geometries.h File Reference

```
#include <array>
#include <memory>
#include <cstdlib>
#include <sqlite3.h>
#include <spatialite/gaiageo.h>
#include <spatialite.h>
#include "SpatialiteBlob.h"
#include "Raster.h"
#include "RasterData.h"
```

Include dependency graph for Geometries.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::general::geometry::SpatialitePolygon](#)
Class converting raster information into Spatialite Polygon.

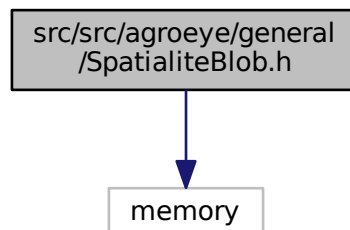
Namespaces

- [agroeye](#)
- [agroeye::general](#)
- [agroeye::general::geometry](#)

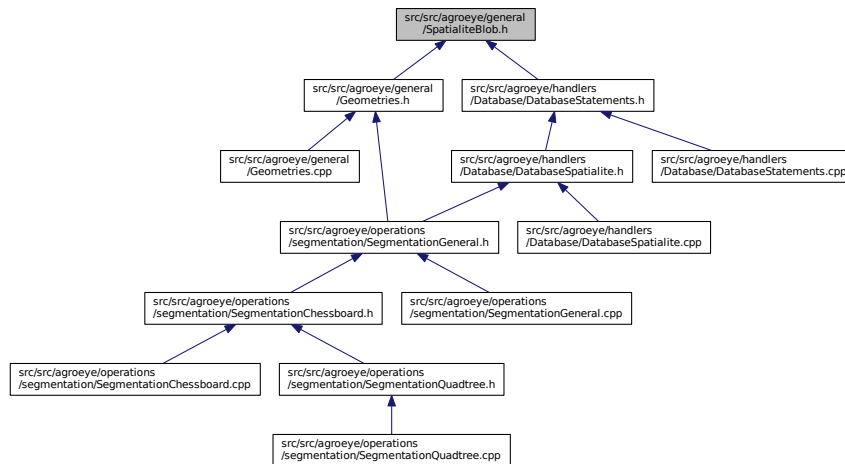
9.53 src/src/agroeye/general/SpatialiteBlob.h File Reference

```
#include <memory>
```

Include dependency graph for `SpatialiteBlob.h`:



This graph shows which files directly or indirectly include this file:



Classes

- struct [agroeye::general::geometry::SpatialiteBlobWkb](#)

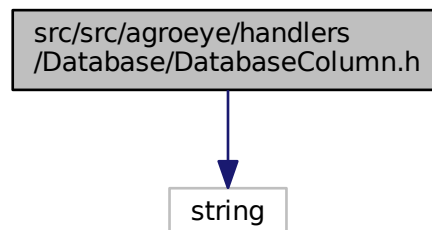
Namespaces

- [agroeye](#)
- [agroeye::general](#)
- [agroeye::general::geometry](#)

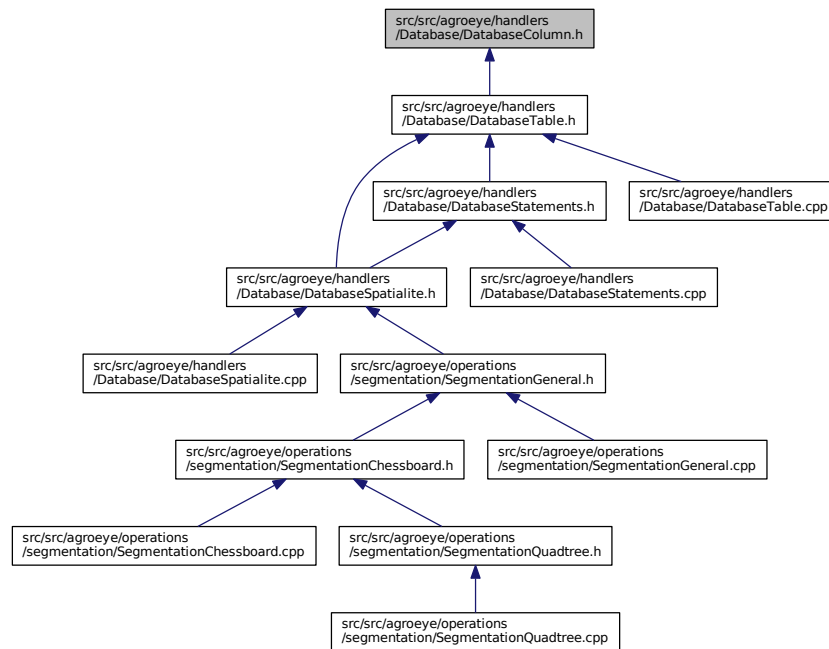
9.54 src/src/agroeye/handlers/Database/DatabaseColumn.h File Reference

```
#include <string>
```

Include dependency graph for DatabaseColumn.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::handlers::DbColumn](#)
Encapsulation of Sqlite3/Spatialite table.

Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

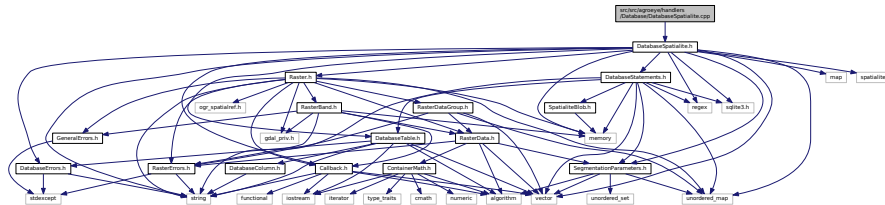
Enumerations

- enum [agroeye::handlers::ColumnType](#) {
[agroeye::handlers::ColumnType::NONE](#), [agroeye::handlers::ColumnType::INTEGER](#), [agroeye::handlers::ColumnType::REAL](#), [agroeye::handlers::ColumnType::TEXT](#),
[agroeye::handlers::ColumnType::BLOB](#), [agroeye::handlers::ColumnType::GEOMETRY](#) }
Type of data stored by column.

9.55 src/src/agroeye/handlers/Database/DatabaseSpatialite.cpp File Reference

```
#include "DatabaseSpatialite.h"
```

Include dependency graph for DatabaseSpatialite.cpp:



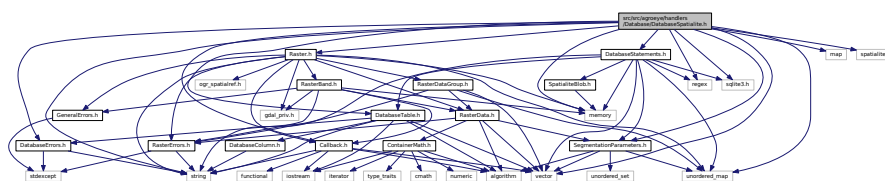
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

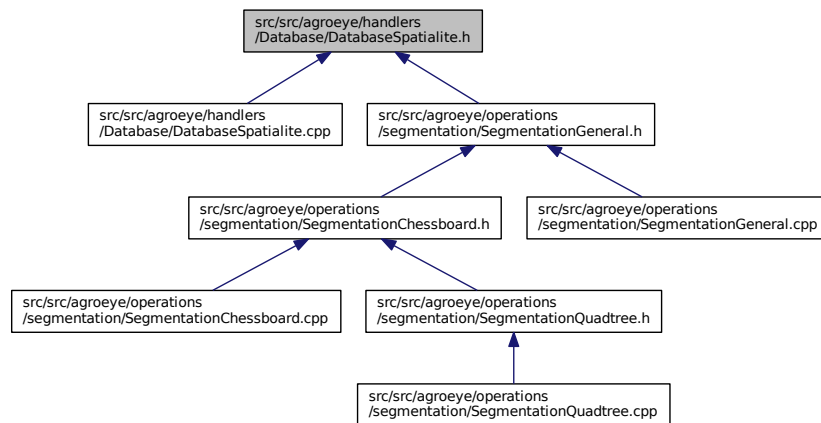
9.56 src/src/agroeye/handlers/Database/DatabaseSpatialite.h File Reference

```
#include <memory>
#include <vector>
#include <unordered_map>
#include <map>
#include <string>
#include <regex>
#include <sqlite3.h>
#include <spatialite.h>
#include "Callback.h"
#include "DatabaseErrors.h"
#include "Raster.h"
#include "DatabaseTable.h"
#include "DatabaseStatements.h"
#include "SegmentationParameters.h"
```

Include dependency graph for DatabaseSpatialite.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::handlers::Spatialite](#)
Encapsulation of [Spatialite](#) database.

Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

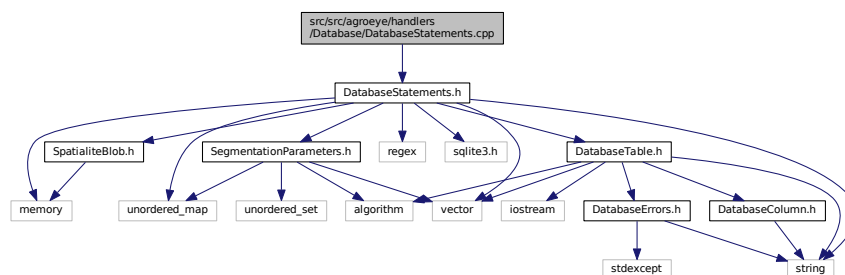
Typedefs

- using [agroeye::handlers::SqliteCallback](#) = `std::function< int(int, char **, char **)>`
Callack function collection data of SQL query For exect syntax of the function please see the [SQLite3](#) manual.

9.57 src/src/agroeye/handlers/Database/DatabaseStatements.cpp File Reference

```
#include "DatabaseStatements.h"
```

Include dependency graph for DatabaseStatements.cpp:



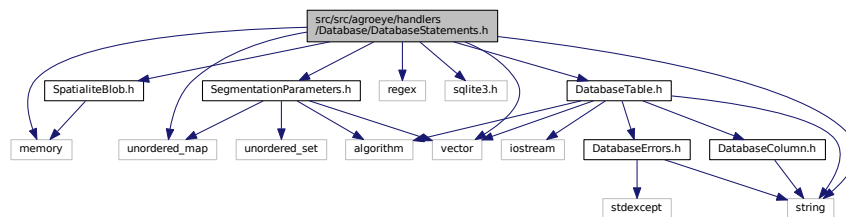
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

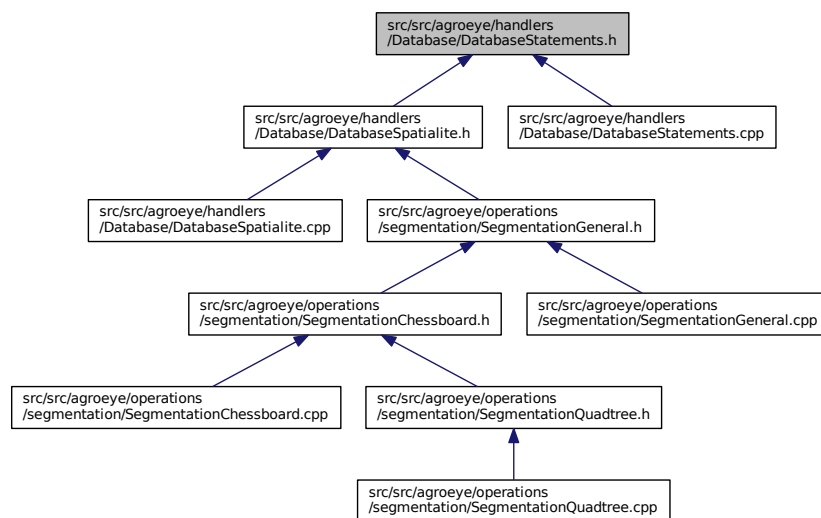
9.58 src/src/agroeye/handlers/Database/DatabaseStatements.h File Reference

```
#include <memory>
#include <vector>
#include <string>
#include <unordered_map>
#include <regex>
#include <sqlite3.h>
#include "SegmentationParameters.h"
#include "DatabaseTable.h"
#include "SpatialiteBlob.h"
```

Include dependency graph for DatabaseStatements.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::handlers::GeneralStatement](#)
Class encapsulating the general insert statement into database.
- class [agroeye::handlers::GeometryStatement](#)
- class [agroeye::handlers::StatisticStatement](#)
- class [agroeye::handlers::PreparedStatement](#)
Class encapsulating group of statements.

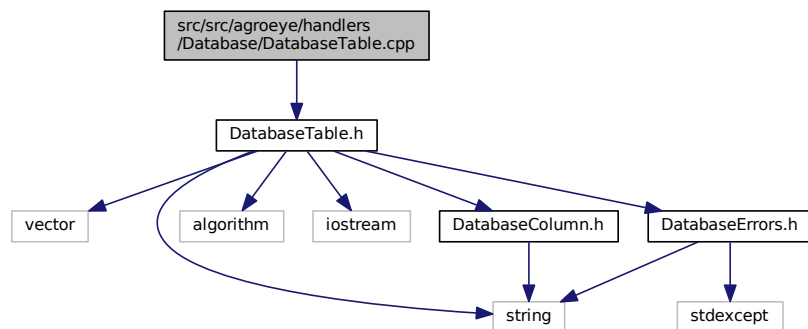
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

9.59 src/src/agroeye/handlers/Database/DatabaseTable.cpp File Reference

```
#include "DatabaseTable.h"
```

Include dependency graph for DatabaseTable.cpp:



Namespaces

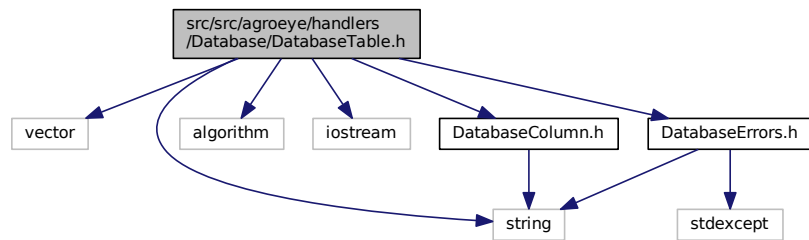
- [agroeye](#)
- [agroeye::handlers](#)

9.60 src/src/agroeye/handlers/Database/DatabaseTable.h File Reference

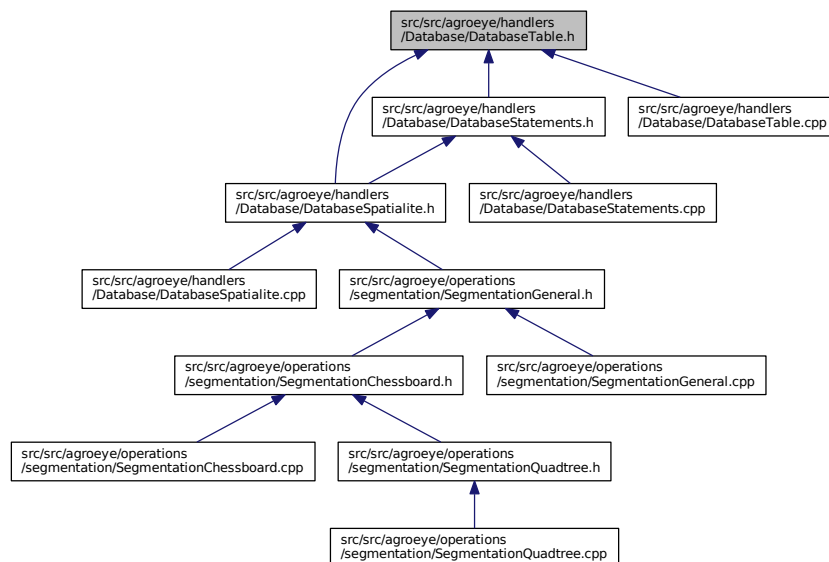
```
#include <vector>
#include <string>
#include <algorithm>
#include <iostream>
#include "DatabaseErrors.h"
```

```
#include "DatabaseColumn.h"
```

Include dependency graph for DatabaseTable.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::handlers::DbTable](#)
Encapsulation of table in database.

Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

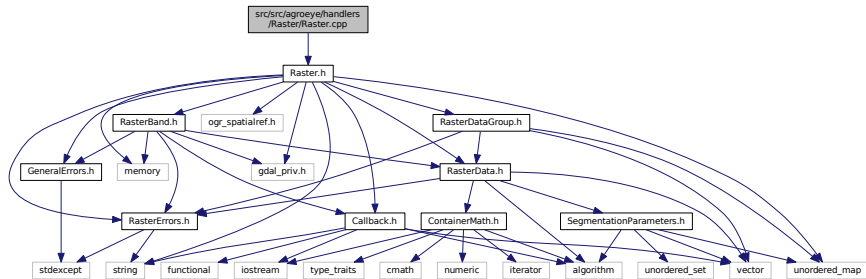
Typedefs

- using [agroeye::handlers::ColumnIteratorConst](#) = `std::vector< DbColumn >::const_iterator`

9.61 src/src/agroeye/handlers/Raster/Raster.cpp File Reference

```
#include "Raster.h"
```

Include dependency graph for Raster.cpp:



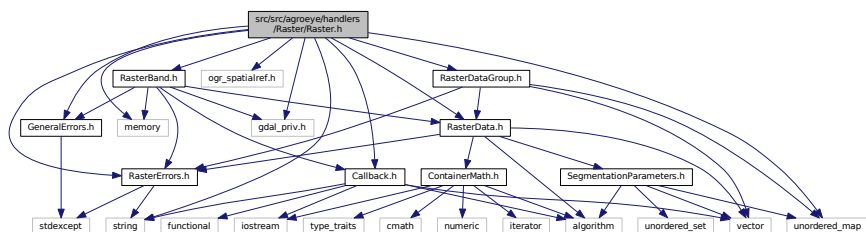
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

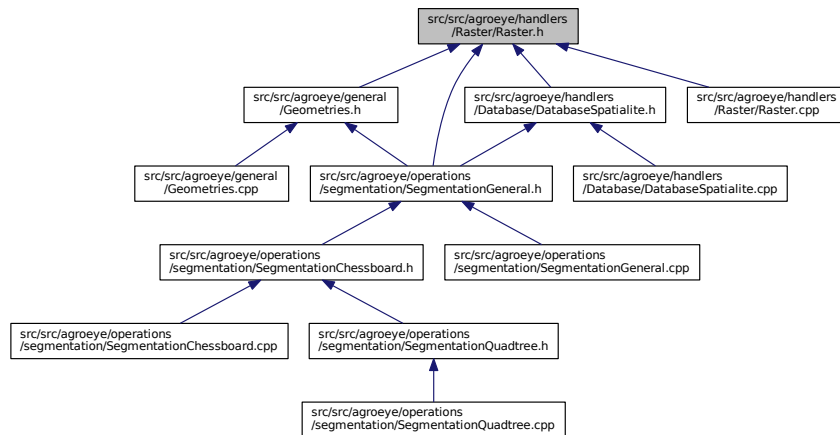
9.62 src/src/agroeye/handlers/Raster/Raster.h File Reference

```
#include <memory>
#include <string>
#include <unordered_map>
#include <gdal_priv.h>
#include <ogr_spatialref.h>
#include "GeneralErrors.h"
#include "RasterErrors.h"
#include "RasterData.h"
#include "RasterBand.h"
#include "RasterDataGroup.h"
#include "Callback.h"
```

Include dependency graph for Raster.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::handlers::Raster](#)
Class encapsulating [Raster](#) file object.

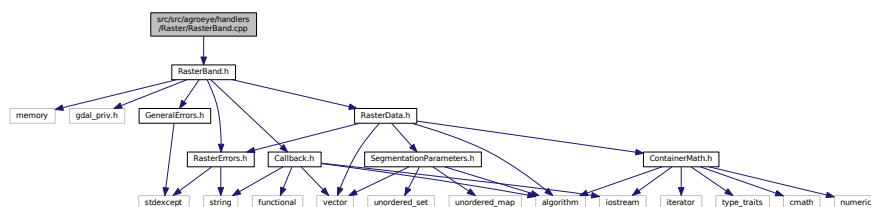
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

9.63 src/src/agroeye/handlers/Raster/RasterBand.cpp File Reference

```
#include "RasterBand.h"
```

Include dependency graph for RasterBand.cpp:

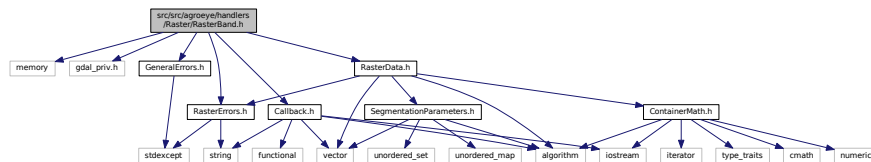


Namespaces

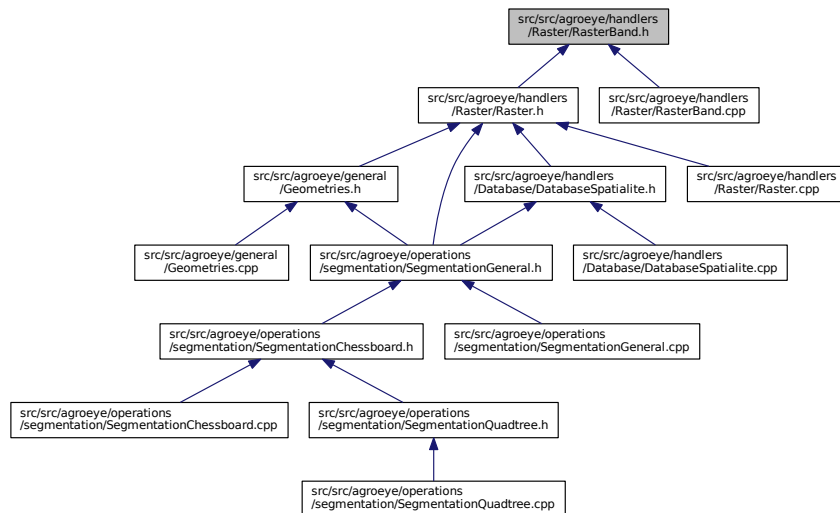
- [agroeye](#)
- [agroeye::handlers](#)

9.64 src/src/agroeye/handlers/Raster/RasterBand.h File Reference

```
#include <memory>
#include <gdal_priv.h>
#include "GeneralErrors.h"
#include "RasterErrors.h"
#include "RasterData.h"
#include "Callback.h"
Include dependency graph for RasterBand.h:
```



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::handlers::RasterBand](#)

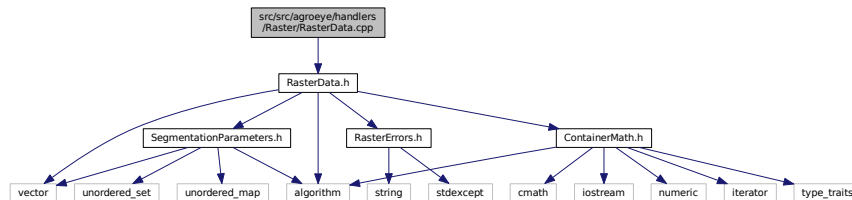
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

9.65 src/src/agroeye/handlers/Raster/RasterData.cpp File Reference

```
#include "RasterData.h"
```

Include dependency graph for RasterData.cpp:



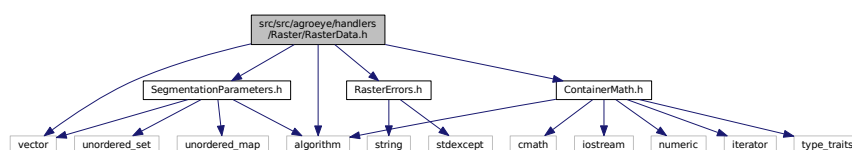
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

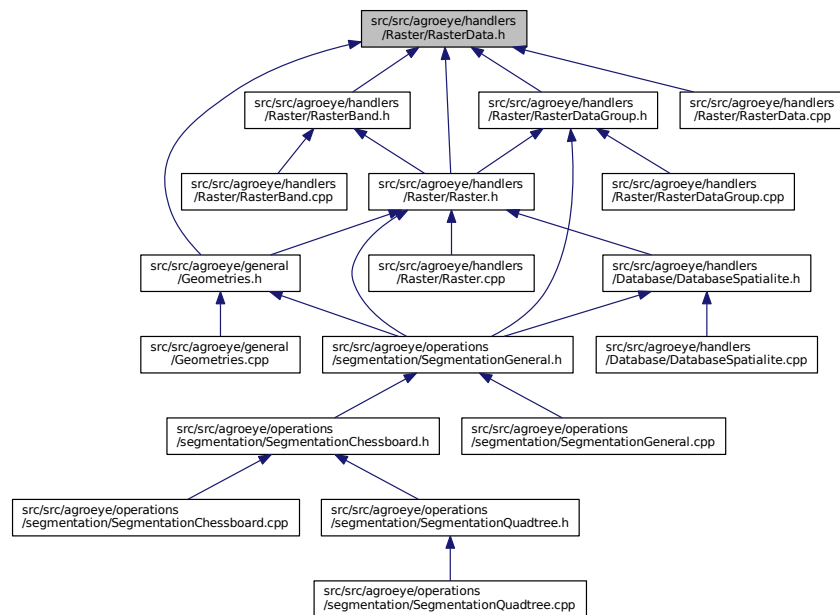
9.66 src/src/agroeye/handlers/Raster/RasterData.h File Reference

```
#include <vector>
#include <algorithm>
#include "SegmentationParameters.h"
#include "RasterErrors.h"
#include "ContainerMath.h"
```

Include dependency graph for RasterData.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::handlers::RasterData](#)

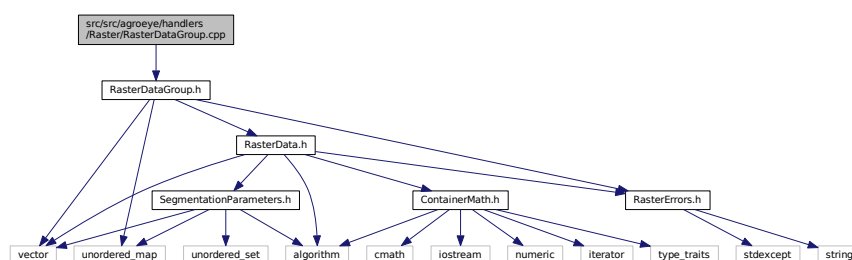
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

9.67 src/src/agroeye/handlers/Raster/RasterDataGroup.cpp File Reference

```
#include "RasterDataGroup.h"
```

Include dependency graph for RasterDataGroup.cpp:



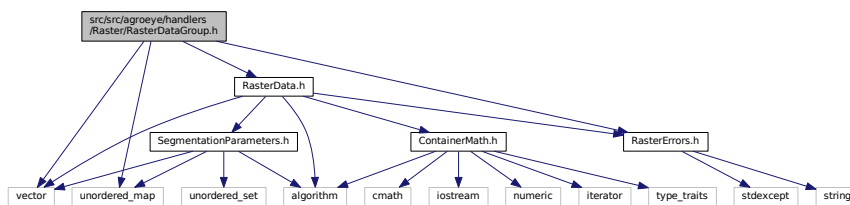
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

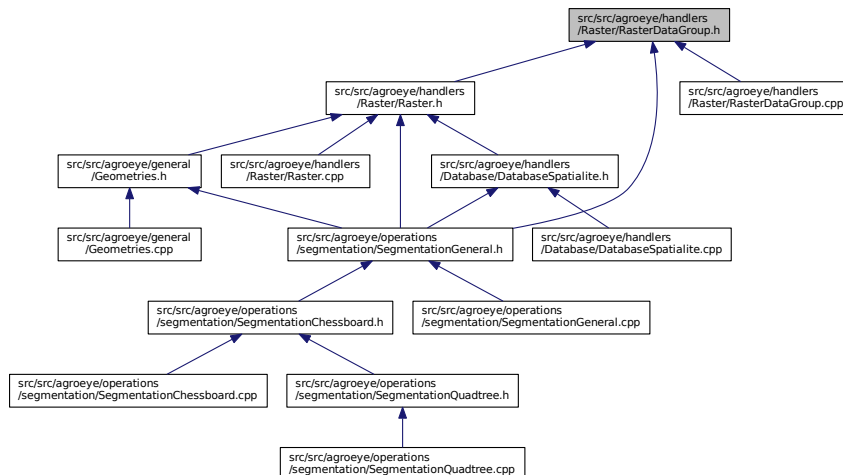
9.68 src/src/agroeye/handlers/Raster/RasterDataGroup.h File Reference

```
#include <vector>
#include <unordered_map>
#include "RasterData.h"
#include "RasterErrors.h"
```

Include dependency graph for RasterDataGroup.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::handlers::RasterDataGroup](#)

Encapsulation of read data from a couple of bands from one [RasterDataGroup](#). Also provides convenient basic operations and guarantees the same parameters of raster data.

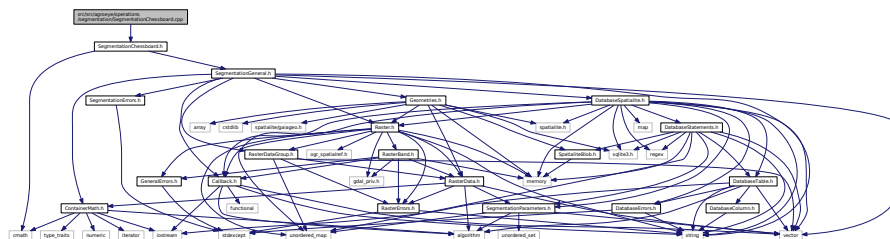
Namespaces

- [agroeye](#)
- [agroeye::handlers](#)

9.69 src/src/agroeye/operations/segmentation/SegmentationChessboard.cpp File Reference

```
#include "SegmentationChessboard.h"
```

Include dependency graph for SegmentationChessboard.cpp:



Namespaces

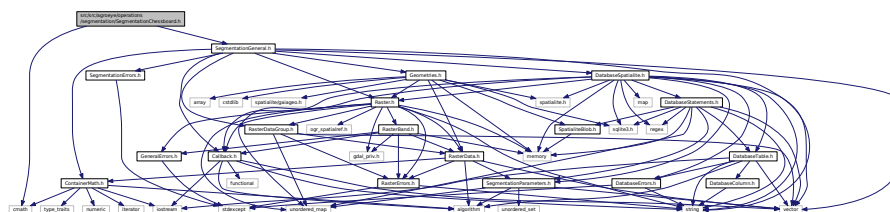
- [agroeye](#)
- [agroeye::operations](#)

9.70 src/src/agroeye/operations/segmentation/SegmentationChessboard.h File Reference

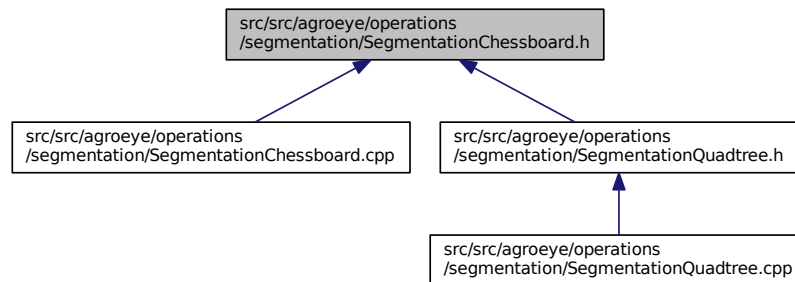
```
#include <cmath>
```

```
#include "SegmentationGeneral.h"
```

Include dependency graph for SegmentationChessboard.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::operations::ChessboardSegmentation](#)
Chessboard Segmentation.

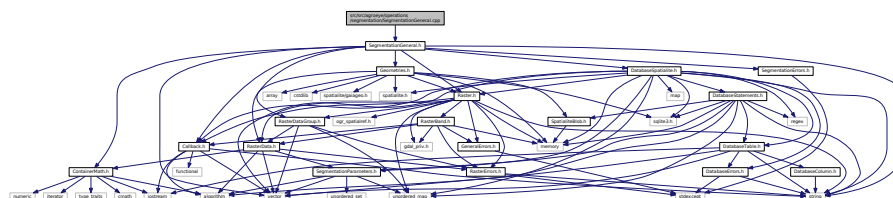
Namespaces

- [agroeye](#)
- [agroeye::operations](#)

9.71 src/src/agroeye/operations/segmentation/SegmentationGeneral.cpp File Reference

```
#include "SegmentationGeneral.h"
```

Include dependency graph for `SegmentationGeneral.cpp`:



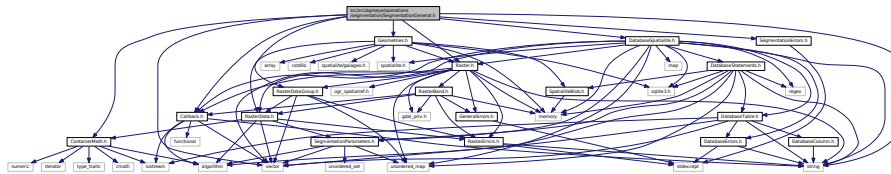
Namespaces

- [agroeye](#)
- [agroeye::operations](#)

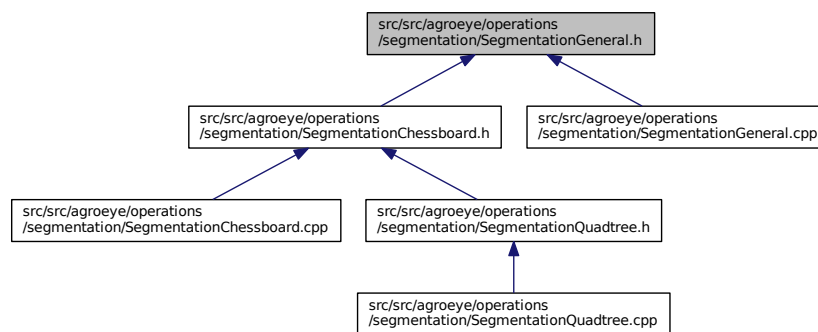
9.72 src/src/agroeye/operations/segmentation/SegmentationGeneral.h File Reference

```
#include <vector>
#include <string>
#include "Raster.h"
#include "RasterDataGroup.h"
#include "Callback.h"
#include "ContainerMath.h"
#include "Geometries.h"
#include "DatabaseSpatialite.h"
#include "SegmentationErrors.h"
```

Include dependency graph for SegmentationGeneral.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::operations::GeneralSegmentation](#)

Object encapsulating general segmentation.

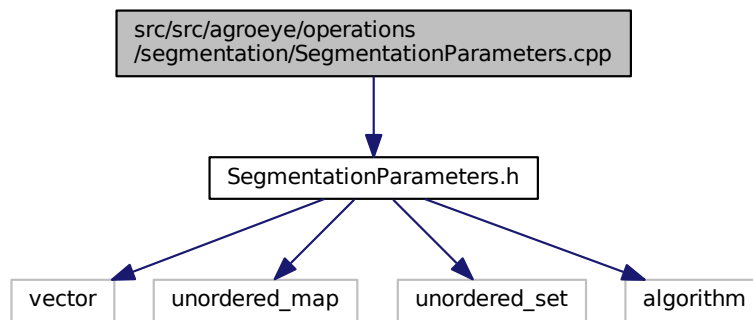
Namespaces

- [agroeye](#)
- [agroeye::operations](#)

9.73 src/src/agroeye/operations/segmentation/SegmentationParameters.cpp File Reference

```
#include "SegmentationParameters.h"
```

Include dependency graph for SegmentationParameters.cpp:



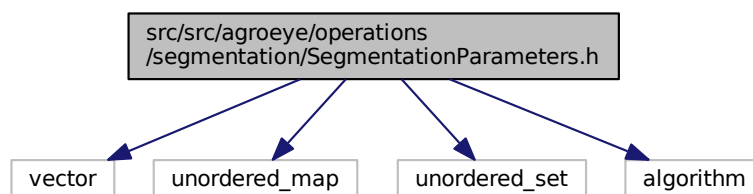
Namespaces

- [agroeye](#)
- [agroeye::operations](#)

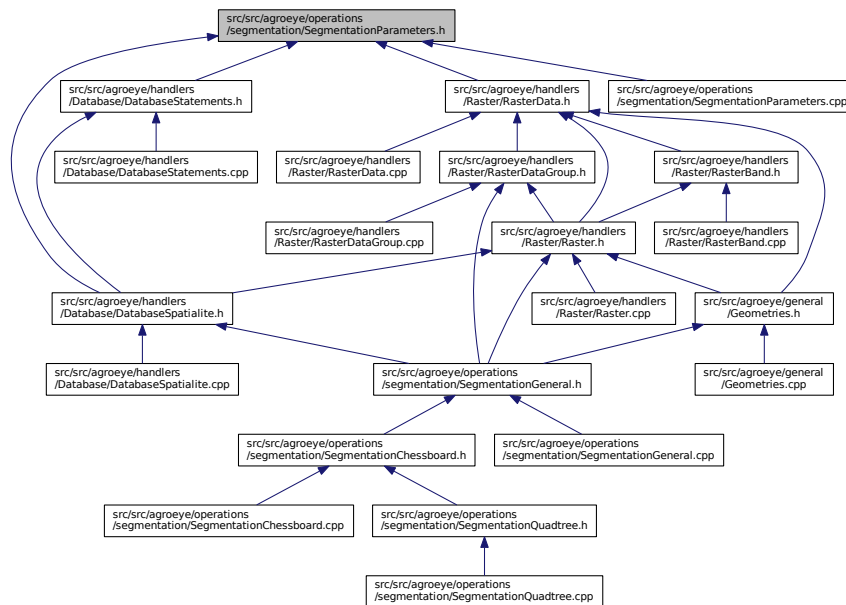
9.74 src/src/agroeye/operations/segmentation/SegmentationParameters.h File Reference

```
#include <vector>
#include <unordered_map>
#include <unordered_set>
#include <algorithm>
```

Include dependency graph for SegmentationParameters.h:



This graph shows which files directly or indirectly include this file:



Classes

- class [agroeye::operations::Parameters](#)
Class encapsulating different segmentation parameters.

Namespaces

- [agroeye](#)
- [agroeye::operations](#)

Typedefs

- using [agroeye::operations::BandsList](#) = `std::vector< size_t >`
- using [agroeye::operations::StatisticsList](#) = `std::vector< StatisticsTypes >`
- using [agroeye::operations::BandsToStatsMap](#) = `std::unordered_map< size_t, StatisticsList >`
- using [agroeye::operations::StatsToBandsMap](#) = `std::unordered_map< StatisticsTypes, BandsList >`

Enumerations

- enum [agroeye::operations::StatisticsTypes](#) { [agroeye::operations::StatisticsTypes::MEAN](#), [agroeye::operations::StatisticsTypes::STDDEV](#) }
Type of statistics that can be calculated.

Classes

- class [agroeye::operations::QuadtreeSegmentation](#)
Segmentation Quadtree.

Namespaces

- [agroeye](#)
- [agroeye::operations](#)

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