Macsur Adapter

Generated by Doxygen 1.8.3.1

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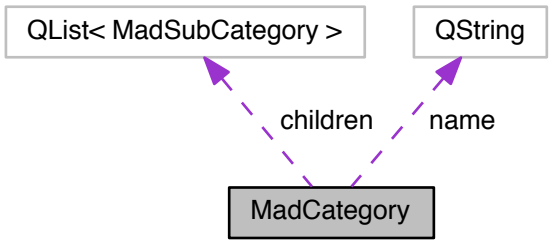
6.1 MadCategory Struct Reference

`#include <maddata.h>`

Collaboration diagram for MadCategory:



Public Attributes

- QString name
- QList< MadSubCategory > children

6.1.1 Detailed Description

Definition at line 55 of file maddata.h.

6.1.2 Member Data Documentation

6.1.2.1 QList<MadSubCategory> MadCategory::children

Definition at line 58 of file maddata.h.

6.1.2.2 QString MadCategory::name

Definition at line 57 of file maddata.h.

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

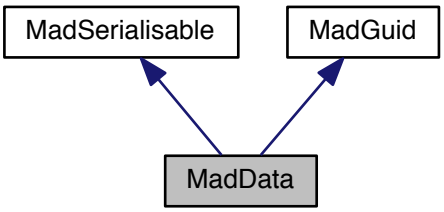
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/maddata.h

6.2 MadData Class Reference

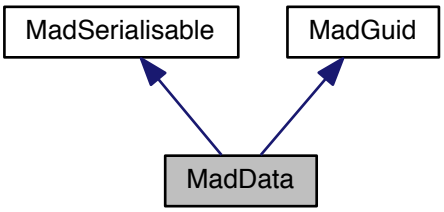
The MadData class.

`#include <maddata.h>`

Inheritance diagram for MadData:



Collaboration diagram for MadData:



Public Member Functions

- MadData ()
- MadData (const MadData &theData)
- MadData & operator= (const MadData &theData)
- QString name () const
- QString description () const
- QString imageFile () const

- void setName (QString theName)
- void setDescription (QString theDescription)
- void setImageFile (QString theImageFileName)
- QString toXml ()
- QString toText ()
- QString toHtml ()
- bool fromXml (const QString theXml)

6.2.1 Detailed Description

The MadData class.

Definition at line 66 of file maddata.h.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 MadData::MadData ( )

Definition at line 41 of file maddata.cpp.

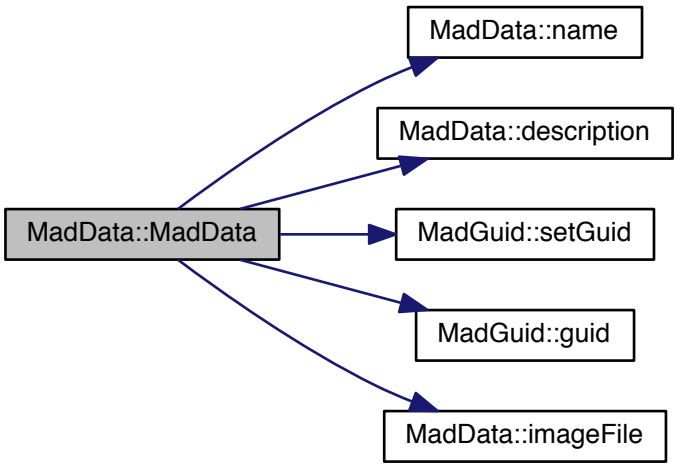
Here is the call graph for this function:

6.2.2.2 MadData::MadData (const MadData & *theData*)

copy constructor

Definition at line 54 of file maddata.cpp.

Here is the call graph for this function:



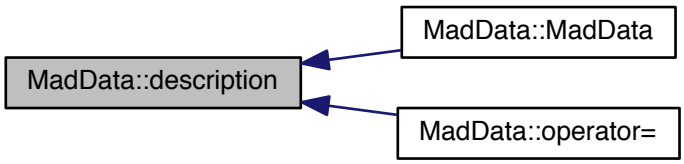
6.2.3 Member Function Documentation

6.2.3.1 QString MadData::description ( ) const

The description of this dataset

Definition at line 78 of file maddata.cpp.

Here is the caller graph for this function:



6.2.3.2 bool MadData::fromXml (const QString *theXml*) [virtual]

Read this object from xml and return result as true for success, false for failure.

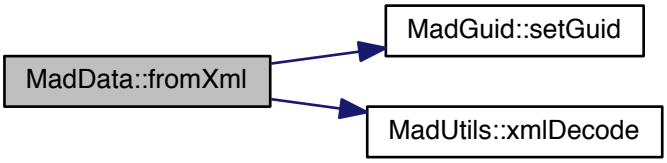
See Also

MadSerialisable this class inherits the serialisable interface so it MUST implement this

Implements MadSerialisable.

Definition at line 105 of file maddata.cpp.

Here is the call graph for this function:

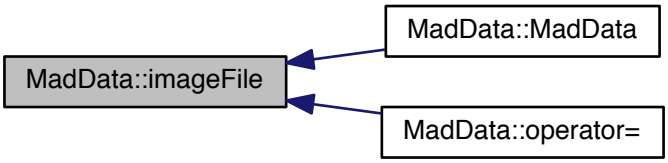


6.2.3.3 QString MadData::imageFile ( ) const

The cultivation vars of this dataset The image file associated with the dataset

Definition at line 83 of file maddata.cpp.

Here is the caller graph for this function:

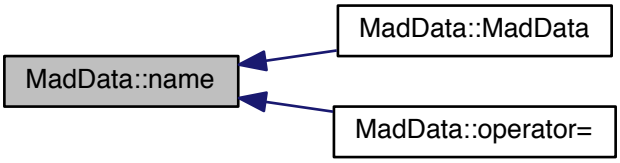


6.2.3.4 QString MadData::name ( ) const

The name of this dataset

Definition at line 73 of file maddata.cpp.

Here is the caller graph for this function:

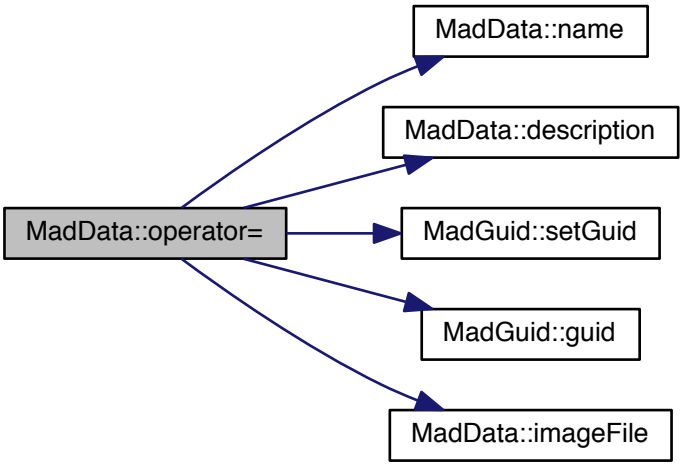


6.2.3.5 MadData & MadData::operator= (const MadData & *theData*)

Assignement operator

Definition at line 62 of file maddata.cpp.

Here is the call graph for this function:



6.2.3.6 void MadData::setDescription (QString *theDescription*)

Set the model description

See Also

description()

Definition at line 95 of file maddata.cpp.

6.2.3.7 void MadData::setImageFile (QString *theImageFileName*)

Set the image file

See Also

imageFile()

Definition at line 100 of file maddata.cpp.

6.2.3.8 void MadData::setName (QString *theName*)

Set the modelName

See Also

name()

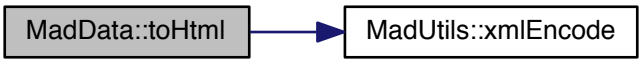
Definition at line 90 of file maddata.cpp.

6.2.3.9 QString MadData::toHtml ( )

Return a html text representation of this layer

Definition at line 155 of file maddata.cpp.

Here is the call graph for this function:

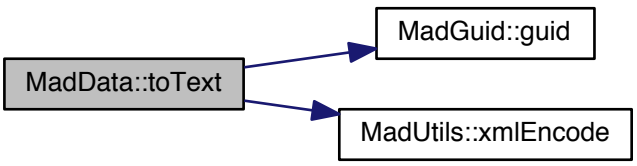


6.2.3.10 QString MadData::toText ( )

Return a plain text representation of this layer

Definition at line 146 of file maddata.cpp.

Here is the call graph for this function:



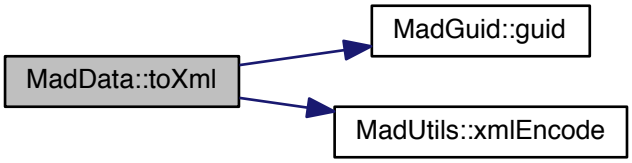
6.2.3.11 QString MadData::toXml ( ) [virtual]

Return an xml representation of this layer this class inherits the serialisable interface so it MUST implement this

Implements MadSerialisable.

Definition at line 124 of file maddata.cpp.

Here is the call graph for this function:



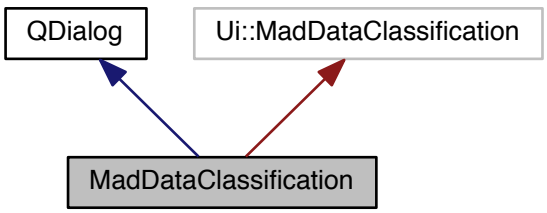
The documentation for this class was generated from the following files:

- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/maddata.h
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/maddata.cpp

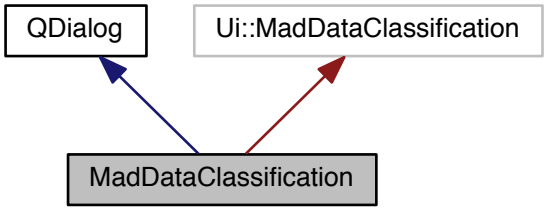
6.3 MadDataClassification Class Reference

`#include <maddataclassification.h>`

Inheritance diagram for MadDataClassification:



Collaboration diagram for MadDataClassification:



Public Member Functions

- MadDataClassification (QWidget ∗parent=0)

Protected Member Functions

- void changeEvent (QEvent ∗e)

6.3.1 Detailed Description

Definition at line 27 of file maddataclassification.h.

6.3.2 Constructor & Destructor Documentation

6.3.2.1 MadDataClassification::MadDataClassification (QWidget ∗ *parent* = 0) [explicit]

Definition at line 29 of file maddataclassification.cpp.

6.3.3 Member Function Documentation

6.3.3.1 void MadDataClassification::changeEvent (QEvent ∗ *e*) [protected]

Definition at line 39 of file maddataclassification.cpp.

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

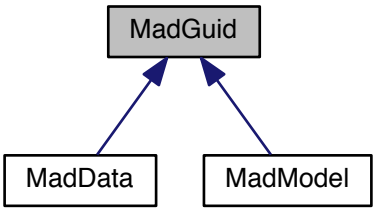
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/maddataclassification.h
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/maddataclassification.cpp

6.4 MadGuid Class Reference

The MadGuid class An abstract base class that has a Globally Unique Identifier (GUID) to represent a unique instance.

`#include <madguid.h>`

Inheritance diagram for MadGuid:



Public Member Functions

- MadGuid ()
- QString guid () const

  MadGuid::guid.
- void setGuid (QString theGuid="")

  MadGuid::setGuid.

6.4.1 Detailed Description

The MadGuid class An abstract base class that has a Globally Unique Identifier (GUID) to represent a unique instance.

Definition at line 32 of file madguid.h.

6.4.2 Constructor & Destructor Documentation

6.4.2.1 MadGuid::MadGuid ( )

Constructor

Definition at line 28 of file madguid.cpp.

6.4.3 Member Function Documentation

6.4.3.1 QString MadGuid::guid ( ) const

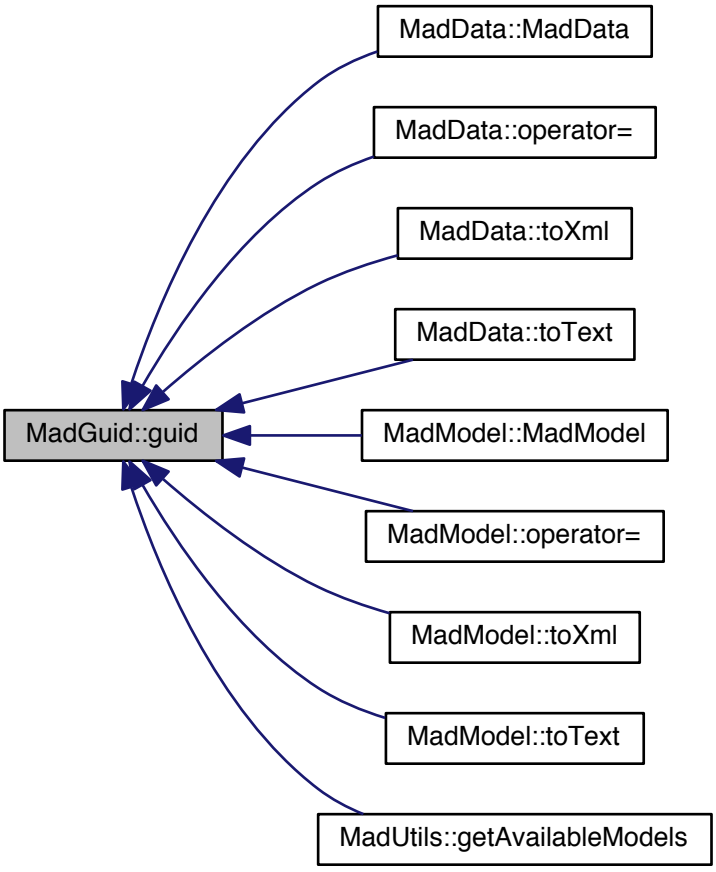
MadGuid::guid.

Destructor Retrieve the GUID

Returns

Definition at line 40 of file madguid.cpp.

Here is the caller graph for this function:



6.4.3.2 void MadGuid::setGuid (QString *theGuid* = " ")

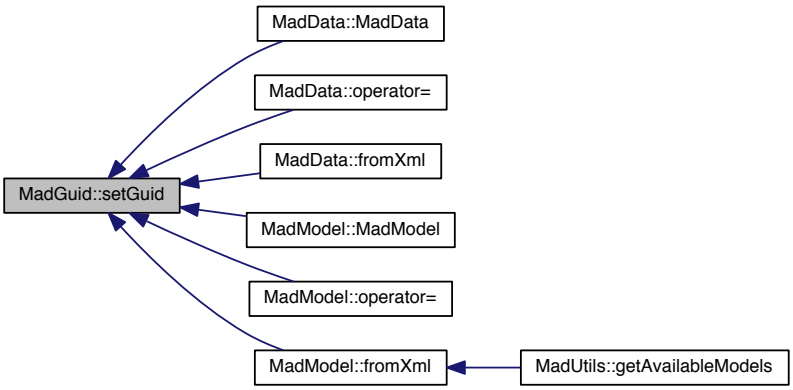
MadGuid::setGuid.

Parameters

theGuid	

Definition at line 49 of file madguid.cpp.

Here is the caller graph for this function:



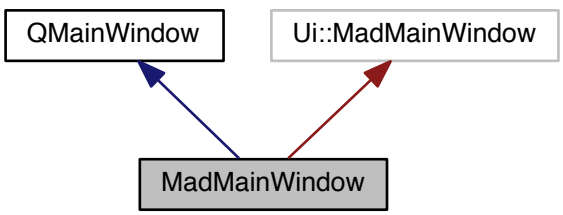
The documentation for this class was generated from the following files:

- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madguid.h
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madguid.cpp

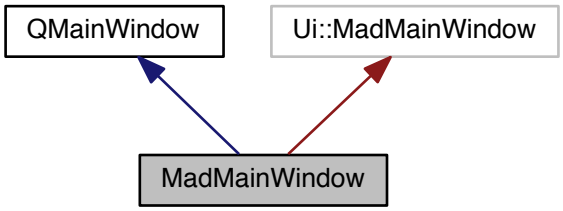
6.5 MadMainWindow Class Reference

`#include <madmainwindow.h>`

Inheritance diagram for MadMainWindow:



Collaboration diagram for MadMainWindow:



Public Member Functions

- MadMainWindow (QWidget ∗parent=0)
- QString modelText () const
- void setModelText (QString theModelText)

Protected Member Functions

- void changeEvent (QEvent ∗e)

  changeEvent for translations in the future

6.5.1 Detailed Description

This is the main GUI class

Author

Jason Jorgenson

Definition at line 44 of file madmainwindow.h.

6.5.2 Constructor & Destructor Documentation

6.5.2.1 MadMainWindow::MadMainWindow (QWidget ∗ *parent* = 0) [explicit]

This is the main form GUI of MAD (Macsur ADapter) It sets up the required slot connections and initialises the GUI

Parameters

parent	

Definition at line 34 of file madmainwindow.cpp.

6.5.3 Member Function Documentation

6.5.3.1 void MadMainWindow::changeEvent (QEvent * *e*) [protected]

changeEvent for translations in the future

Parameters

e	

Definition at line 53 of file madmainwindow.cpp.

6.5.3.2 QString MadMainWindow::modelText ( ) const

Definition at line 43 of file madmainwindow.cpp.

6.5.3.3 void MadMainWindow::setModelText (QString *theModelText*)

Definition at line 48 of file madmainwindow.cpp.

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

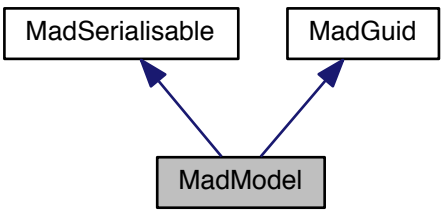
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/madmainwindow.h
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/madmainwindow.cpp

6.6 MadModel Class Reference

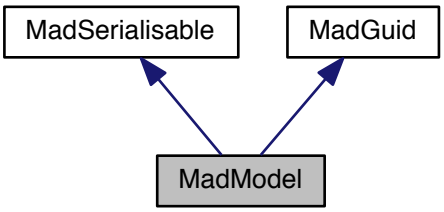
The MadModel class, to represent a ModelTheme.

`#include <madmodel.h>`

Inheritance diagram for MadModel:



Collaboration diagram for MadModel:



Public Member Functions

- MadModel ()
- MadModel (const MadModel &theModel)
- MadModel & operator= (const MadModel &theModel)
- QString name () const
- QString description () const
- QString imageFile () const
- void setName (QString theName)
- void setDescription (QString theDescription)
- void setImageFile (QString theImageFileName)
- QString toXml ()
- QString toText ()
- QString toHtml ()
- bool fromXml (const QString theXml)

6.6.1 Detailed Description

The MadModel class, to represent a ModelTheme.

Definition at line 56 of file madmodel.h.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 MadModel::MadModel ( )

Constructor .

Definition at line 33 of file madmodel.cpp.

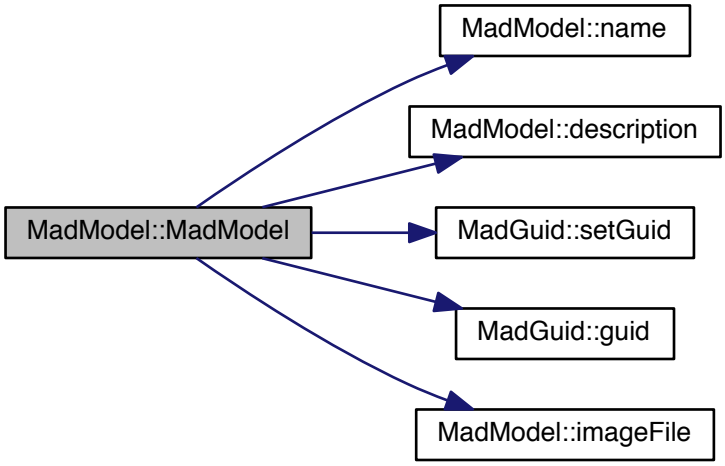
Here is the call graph for this function:

6.6.2.2 MadModel::MadModel (const MadModel & *theModel*)

Destructor . copy constructor

Definition at line 46 of file madmodel.cpp.

Here is the call graph for this function:



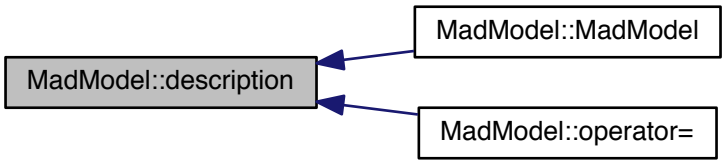
6.6.3 Member Function Documentation

6.6.3.1 QString MadModel::description ( ) const

The description of this model

Definition at line 70 of file madmodel.cpp.

Here is the caller graph for this function:



6.6.3.2 bool MadModel::fromXml (const QString *theXml*) [virtual]

Read this object from xml and return result as true for success, false for failure.

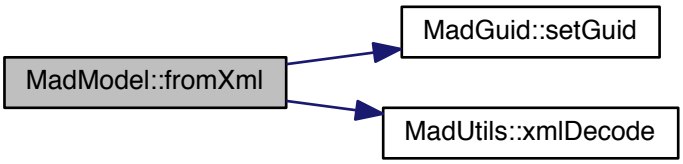
See Also

MadSerialisable this class inherits the serialisable interface so it MUST implement this

Implements MadSerialisable.

Definition at line 97 of file madmodel.cpp.

Here is the call graph for this function:



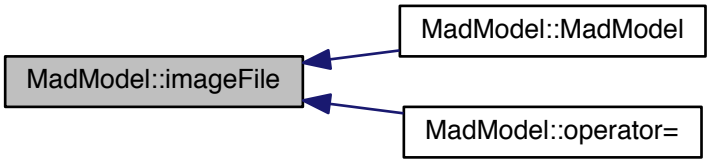
Here is the caller graph for this function:

6.6.3.3 QString MadModel::imageFile ( ) const

The image file associated with the model

Definition at line 75 of file madmodel.cpp.

Here is the caller graph for this function:

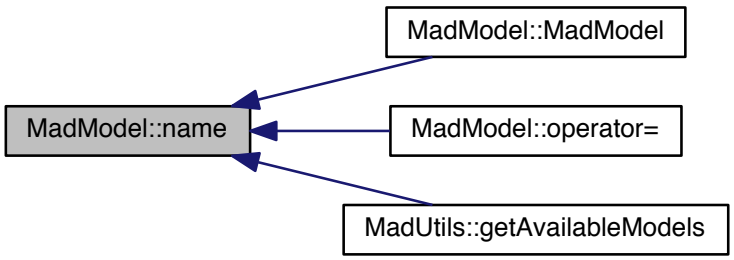


6.6.3.4 QString MadModel::name ( ) const

The name of this model

Definition at line 65 of file madmodel.cpp.

Here is the caller graph for this function:

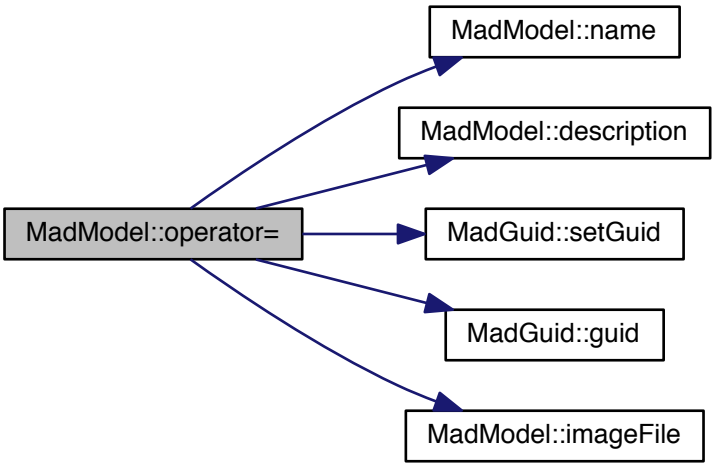


6.6.3.5 MadModel & MadModel::operator= (const MadModel & *theModel*)

Assignement operator

Definition at line 54 of file madmodel.cpp.

Here is the call graph for this function:



6.6.3.6 void MadModel::setDescription (QString *theDescription*)

Set the model description

See Also

description()

Definition at line 87 of file madmodel.cpp.

6.6.3.7 void MadModel::setImageFile (QString *theImageFileName*)

Set the image file

See Also

imageFile()

Definition at line 92 of file madmodel.cpp.

6.6.3.8 void MadModel::setName (QString *theName*)

Set the modelName

See Also

name()

Definition at line 82 of file madmodel.cpp.

6.6.3.9 QString MadModel::toHtml ( )

Return a html text representation of this layer

Definition at line 147 of file madmodel.cpp.

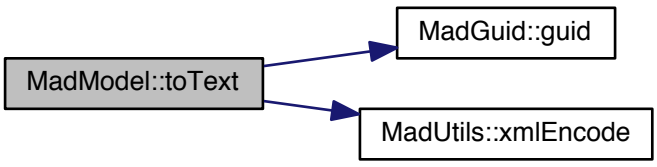
Here is the call graph for this function:

6.6.3.10 QString MadModel::toText ( )

Return a plain text representation of this layer

Definition at line 138 of file madmodel.cpp.

Here is the call graph for this function:



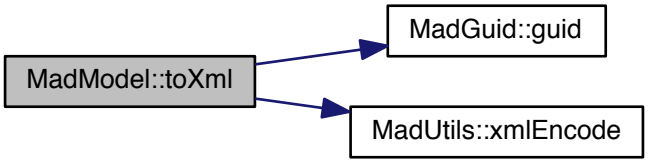
6.6.3.11 QString MadModel::toXml ( ) [virtual]

Return an xml representation of this layer this class inherits the serialisable interface so it MUST implement this

Implements MadSerialisable.

Definition at line 116 of file madmodel.cpp.

Here is the call graph for this function:



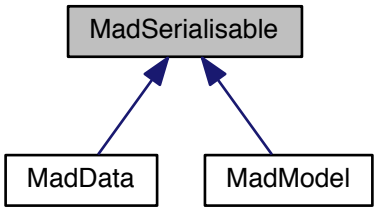
The documentation for this class was generated from the following files:

- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madmodel.h
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madmodel.cpp

6.7 MadSerialisable Class Reference

`#include <madserialisable.h>`

Inheritance diagram for MadSerialisable:



Public Member Functions

- MadSerialisable ()

  MadSerialisable Constructor.
- virtual QString toXml ()=0

  toXml Write this object to xml and return result as qstring (virtual)
- virtual bool toXmlFile (const QString theFileName)

  toXmlFile writes object to xml and return result (virtual qstring) We provide a basic default implementation where given a file name, we will write the serialised xml to that file. Internally it uses toXml() method so that must be properly implemented.
- virtual bool fromXml (const QString theXml)=0

  fromXml Read this object from xml
- virtual bool fromXmlFile (const QString theFileName)

  fromXmlFile Read this object from xml in a file

6.7.1 Detailed Description

An abstract base class for any class that is serialiseable to xml

Author

Tim Sutton, Jason Jorgenson

Definition at line 50 of file madserialisable.h.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 MadSerialisable::MadSerialisable ( )

MadSerialisable Constructor.

Definition at line 49 of file madserialisable.cpp.

6.7.3 Member Function Documentation

6.7.3.1 virtual bool MadSerialisable::fromXml (const QString *theXml*) [pure virtual]

fromXml Read this object from xml

Parameters

theXml	

Returns

result as true for success, false for failure (virtual)

Implemented in MadData, and MadModel.

Here is the caller graph for this function:

6.7.3.2 bool MadSerialisable::fromXmlFile (const QString *theFileName*) [virtual]

fromXmlFile Read this object from xml in a file

See Also

fromXmlFile() Internally it uses fromXml(QString) so that must be properly implemented

Parameters

theFileName	

Returns

result as true for success, false for failure.

Definition at line 76 of file madserialisable.cpp.

Here is the call graph for this function:

6.7.3.3 virtual QString MadSerialisable::toXml ( ) [pure virtual]

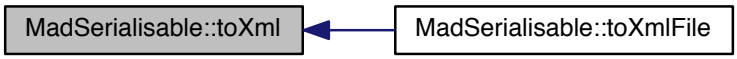
toXml Write this object to xml and return result as qstring (virtual)

Desctructor .

Returns

Implemented in MadData, and MadModel.

Here is the caller graph for this function:



6.7.3.4 bool MadSerialisable::toXmlFile (const QString *theFileName*) [virtual]

toXmlFile writes object to xml and return result (virtual qstring) We provide a basic default implementation where given a file name, we will write the serialised xml to that file. Internally it uses toXml() method so that must be properly implemented.

See Also

toXml()

Parameters

theFileName	

Returns

QString (virtual)

Definition at line 57 of file madserialisable.cpp.

Here is the call graph for this function:

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

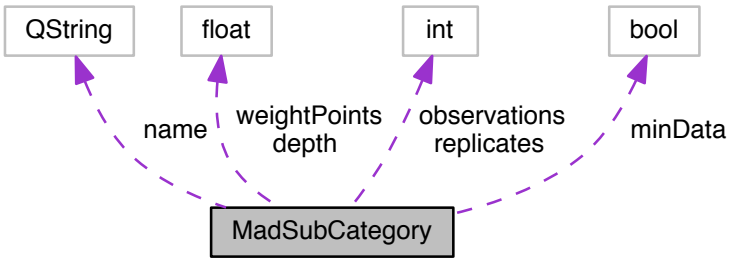
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madserialisable.h
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madserialisable.cpp

6.8 MadSubCategory Struct Reference

The MadSubCategory struct.

`#include <maddata.h>`

Collaboration diagram for MadSubCategory:



Public Attributes

- QString name
- bool minData
- float depth
- int observations
- float weightPoints
- int replicates

6.8.1 Detailed Description

The MadSubCategory struct.

Definition at line 46 of file maddata.h.

6.8.2 Member Data Documentation

6.8.2.1 float MadSubCategory::depth

Definition at line 50 of file maddata.h.

6.8.2.2 bool MadSubCategory::minData

Definition at line 49 of file maddata.h.

6.8.2.3 QString MadSubCategory::name

Definition at line 48 of file maddata.h.

6.8.2.4 int MadSubCategory::observations

Definition at line 51 of file maddata.h.

6.8.2.5 int MadSubCategory::replicates

Definition at line 53 of file maddata.h.

6.8.2.6 float MadSubCategory::weightPoints

Definition at line 52 of file maddata.h.

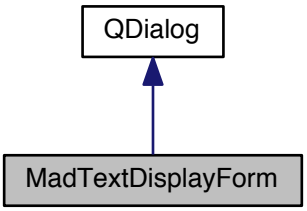
The documentation for this struct was generated from the following file:

- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/maddata.h

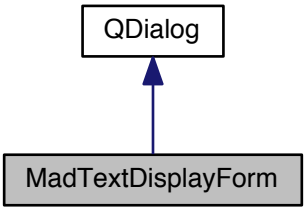
6.9 MadTextDisplayForm Class Reference

`#include <madtextdisplayform.h>`

Inheritance diagram for MadTextDisplayForm:



Collaboration diagram for MadTextDisplayForm:



Public Member Functions

- MadTextDisplayForm (QWidget ∗parent=0)
- ∼MadTextDisplayForm ()
- void setText (const QString &theText)

6.9.1 Detailed Description

Definition at line 33 of file madtextdisplayform.h.

6.9.2 Constructor & Destructor Documentation

6.9.2.1 MadTextDisplayForm::MadTextDisplayForm (QWidget ∗ *parent* = 0) [explicit]

Definition at line 25 of file madtextdisplayform.cpp.

6.9.2.2 MadTextDisplayForm::∼MadTextDisplayForm ( )

Definition at line 32 of file madtextdisplayform.cpp.

6.9.3 Member Function Documentation

6.9.3.1 void MadTextDisplayForm::setText (const QString & *theText*)

Definition at line 37 of file madtextdisplayform.cpp.

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

- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/madtextdisplayform.h
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/madtextdisplayform.cpp

6.10 MadUtils Class Reference

`#include <madutils.h>`

Public Types

- typedef QMap< QString, MadModel > ModelMap

  ModelMap (typedef) This typedef is used to refer to a collection of layersets. the key is the layerset name the value is the layerset itself.

Public Member Functions

- MadUtils ()
- QString openGraphicFile ()
- QString saveFile ()

Static Public Member Functions

- static const QString userSettingsDirPath ()

  userSettingsDirPath Find the place on the filesystem where user data is stored
- static const QString userModelProfilesDirPath ()

  uerModelProfilesDirPath Find the place on the filesystem where user defined model profiles are stored.
- static const QString userModelParametersDirPath ()

  userModelParametersDirPath Find the place on the filesystem where user defined model parameter profiles are stored.
- static const QString getModelOutputDir ()

  getModelOutputDir Get the place where model outputs are to be stored. By default this is in ~/.macsurAdapter/modelOutputs But if modelOutputsDir is specified in QSettings, it will override the default.
- static const QString userImagesDirPath ()

  userImagesDirPath Find the place on the filesystem where user images are stored.
- static MadUtils::ModelMap getAvailableModels ()

  getAvailableModels Get a QMap of the avaliable layersets in the users layersets directory
- static MadModel getModel (QString theGuid)

  getModel Get a MadModel given its GUID. If no matching model is found, a blank one is returned.
- static QStringList sortList (QStringList theList)

  sortList Sort a string list into descending alphabetic order and return the result.
- static QStringList uniqueList (QStringList theList)

  uniqueList Remove any duplucate entries from a sorted list
- static bool createTextFile (QString theFileName, QString theData)

  createTextFile A helper method to easily write a file to disk.

- static QString xmlEncode (QString theString)

  xmlEncode A helper method to xml encode any special chars in a string (< > & etc) will become (< > & etc)
- static QString xmlDecode (QString theString)

  xmlDecode A helper method to xml deencode any special chars in a string (< > & etc) will become (< > & etc)
- static QString getStandardCss ()

  getStandardCss Get the standard style sheet for reports. Typically this will be used like this: QString myStyle = getStandardCss(); textBrowserFoo->document()->setDefaultStylesheet(myStyle);
- static const QString userConversionTablesDirPath ()

6.10.1 Detailed Description

Definition at line 41 of file madutils.h.

6.10.2 Member Typedef Documentation

6.10.2.1 typedef QMap<QString,MadModel> MadUtils::ModelMap

ModelMap (typedef) This typedef is used to refer to a collection of layersets. the key is the layerset name the value is the layerset itself.

Definition at line 101 of file madutils.h.

6.10.3 Constructor & Destructor Documentation

6.10.3.1 MadUtils::MadUtils ( )

Definition at line 44 of file madutils.cpp.

6.10.4 Member Function Documentation

6.10.4.1 bool MadUtils::createTextFile (QString *theFileName*, QString *theData*) [static]

createTextFile A helper method to easily write a file to disk.

Parameters

theFileName	- the filename to be created or overwritten
theData	- the data that will be written into the file

Returns

bool - false if the file could not be written

Definition at line 126 of file madutils.cpp.

6.10.4.2 MadUtils::ModelMap MadUtils::getAvailableModels ( ) [static]

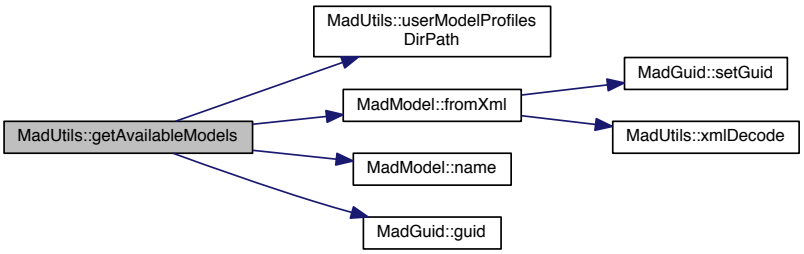
getAvailableModels Get a QMap of the avaliable layersets in the users layersets directory

Returns

a QMap<QString,OmgLayerSet> where the QString key is the layerset name

Definition at line 93 of file madutils.cpp.

Here is the call graph for this function:



6.10.4.3 static MadModel MadUtils::getModel (QString *theGuid*) [static]

getModel Get a MadModel given its GUID. If no matching model is found, a blank one is returned.

6.10.4.4 const QString MadUtils::getModelOutputDir ( ) [static]

getModelOutputDir Get the place where model outputs are to be stored. By default this is in ~/.macsur-Adapter/modelOutputs But if modelOutputsDir is specified in QSettings, it will override the default.

Definition at line 60 of file madutils.cpp.

Here is the call graph for this function:

6.10.4.5 QString MadUtils::getStandardCss ( ) [static]

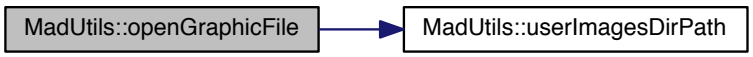
getStandardCss Get the standard style sheet for reports. Typically this will be used like this: QString myStyle = getStandardCss(); textBrowserFoo->document()->setDefaultStylesheet(myStyle);

Definition at line 159 of file madutils.cpp.

6.10.4.6 QString MadUtils::openGraphicFile ( )

Definition at line 180 of file madutils.cpp.

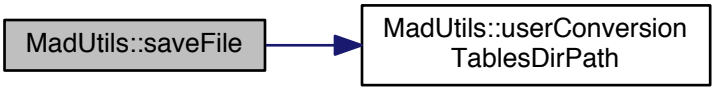
Here is the call graph for this function:



6.10.4.7 QString MadUtils::saveFile ( )

Definition at line 191 of file madutils.cpp.

Here is the call graph for this function:



6.10.4.8 static QStringList MadUtils::sortList (QStringList *theList*) [static]

sortList Sort a string list into descending alphabetic order and return the result.

Parameters

theList	- the QStringList to be sorted

Returns

QStringList - sorted in descending alphabetical order

6.10.4.9 static QStringList MadUtils::uniqueList (QStringList *theList*) [static]

uniqueList Remove any duplucate entries from a sorted list

Parameters

theList	- the QStringList to be sorted

Returns

QStringList - a list with no sequential duplicates

6.10.4.10 const QString MadUtils::userConversionTablesDirPath ( ) [static]

Find the place on the filesystem where user created conversion tables in csv format are stored

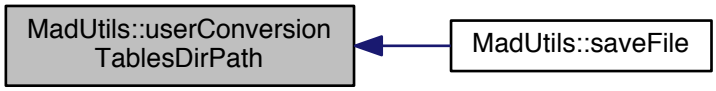
Typically this will be ~/.macsurAdapter/conversionTables

Returns

QString containing the relevant directory name

Definition at line 201 of file madutils.cpp.

Here is the caller graph for this function:



6.10.4.11 const QString MadUtils::userImagesDirPath ( ) [static]

userImagesDirPath Find the place on the filesystem where user images are stored.

Typically this will be ~/.macsurAdapter/images

Returns

QString containing the relevant directory name

Definition at line 85 of file madutils.cpp.

Here is the caller graph for this function:

6.10.4.12 const QString MadUtils::userModelParametersDirPath ( ) [static]

userModelParametersDirPath Find the place on the filesystem where user defined model parameter profiles are stored.

Typically this will be ~/.macsurAdapter/animalParameters

Returns

QString containing the relevant directory name

Definition at line 76 of file madutils.cpp.

6.10.4.13 const QString MadUtils::userModelProfilesDirPath ( ) [static]

uerModelProfilesDirPath Find the place on the filesystem where user defined model profiles are stored.

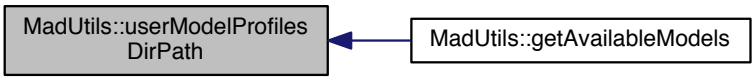
Typically this will be ∼/.macsurAdapter/modelProfiles

Returns

QString containing the relevant directory name

Definition at line 67 of file madutils.cpp.

Here is the caller graph for this function:



6.10.4.14 const QString MadUtils::userSettingsDirPath ( ) [static]

userSettingsDirPath Find the place on the filesystem where user data is stored

Typically, this will be ∼/.macsurAdapter

Returns

QString containing the relevant directory name

Returns the path to the settings directory in user's home dir

Definition at line 51 of file madutils.cpp.

Here is the caller graph for this function:

6.10.4.15 QString MadUtils::xmlDecode (QString *theString*) [static]

xmlDecode A helper method to xml deencode any special chars in a string (< > & etc) will become (< > & etc)

Parameters

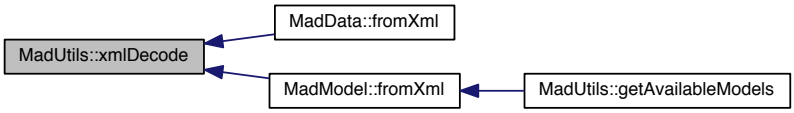
QString	- the string to be properly decoded

Returns

A QString with the encoded chars properly decoded

Definition at line 151 of file madutils.cpp.

Here is the caller graph for this function:



6.10.4.16 QString MadUtils::xmlEncode (QString *theString*) [static]

xmlEncode A helper method to xml encode any special chars in a string (< > & etc) will become (< > & etc)

Parameters

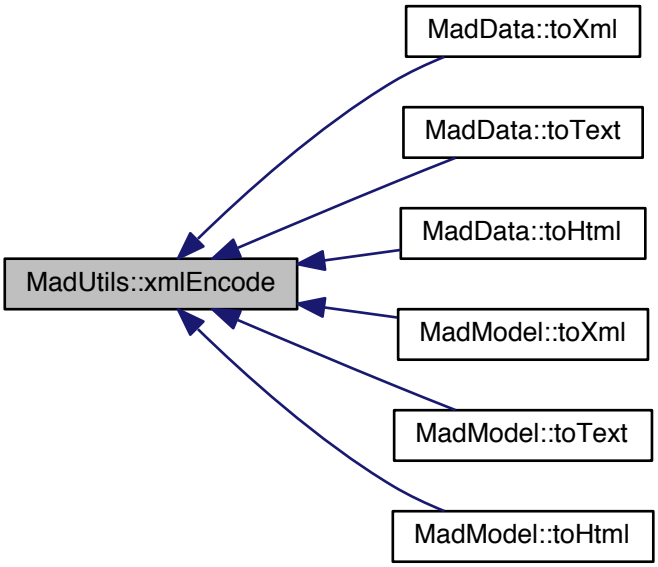
QString	- the string to be properly encoded

Returns

A QString with the special chars properly encoded

Definition at line 143 of file madutils.cpp.

Here is the caller graph for this function:

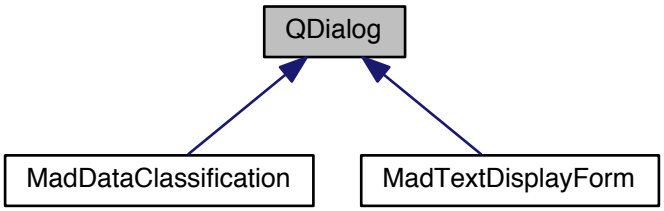


The documentation for this class was generated from the following files:

- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madutils.h
- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madutils.cpp

6.11 QDialog Class Reference

Inheritance diagram for QDialog:

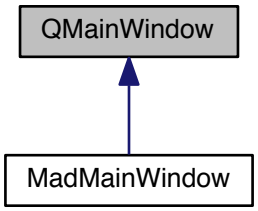


The documentation for this class was generated from the following file:

- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/madtextdisplayform.h

6.12 QMainWindow Class Reference

Inheritance diagram for QMainWindow:



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

- /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/madmainwindow.h

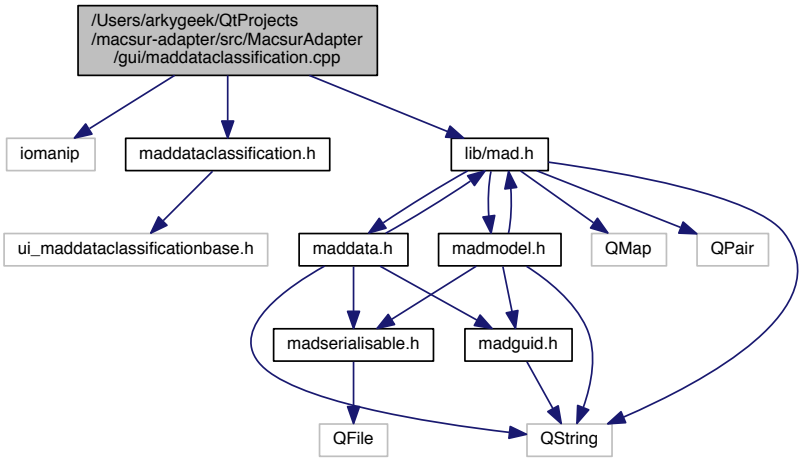
Chapter 7

File Documentation

7.1 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/maddataclassification.cpp File Reference

```
#include <iomanip>
#include "maddataclassification.h"
#include "lib/mad.h"
```

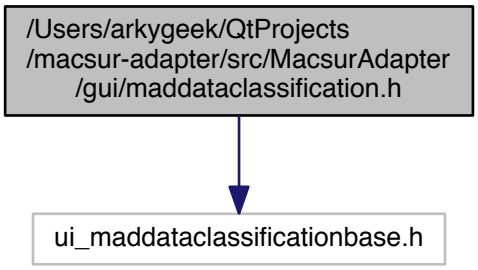
Include dependency graph for maddataclassification.cpp:



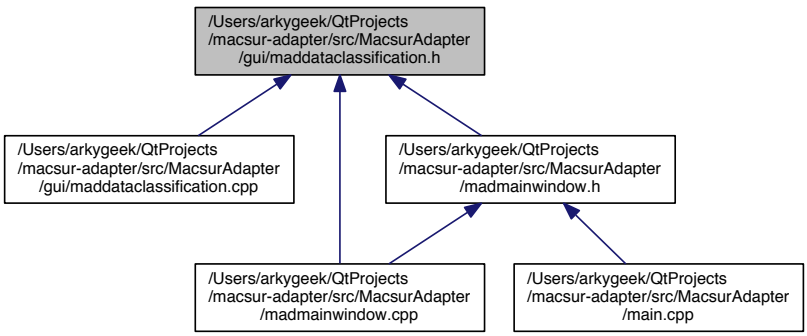
7.2 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/maddataclassification.h File Reference

```
#include "ui_maddataclassificationbase.h"
```

Include dependency graph for maddataclassification.h:



This graph shows which files directly or indirectly include this file:



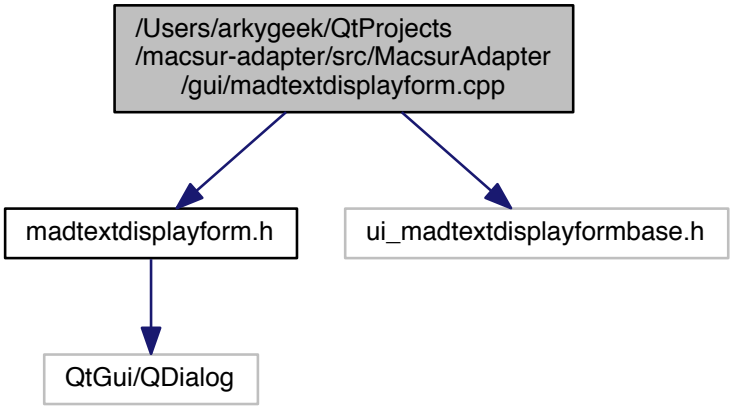
Classes

- class MadDataClassification

7.3 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/madtextdisplayform.cpp File Reference

```
#include "madtextdisplayform.h"
#include "ui_madtextdisplayformbase.h"
```

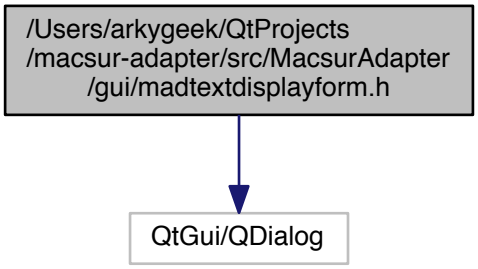
Include dependency graph for madtextdisplayform.cpp:



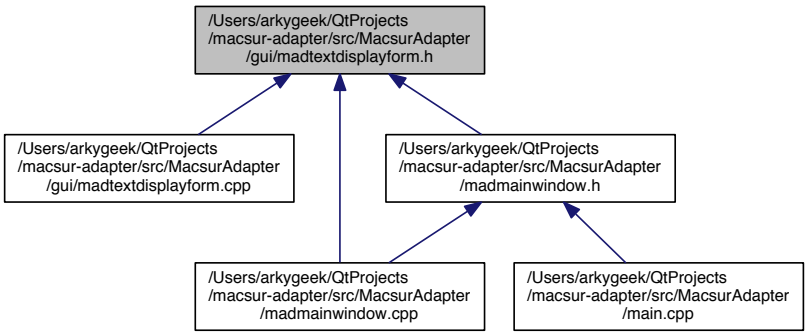
7.4 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/gui/madtextdisplayform.h File Reference

```
#include <QtGui/QDialog>
```

Include dependency graph for madtextdisplayform.h:



This graph shows which files directly or indirectly include this file:



Classes

- class MadTextDisplayForm

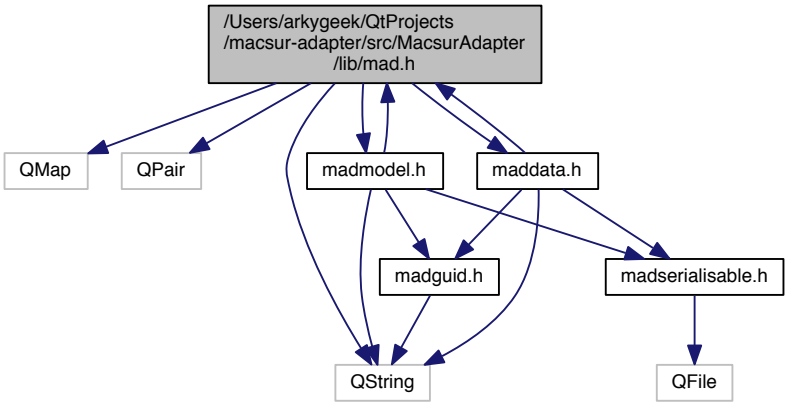
Namespaces

- namespace Ui

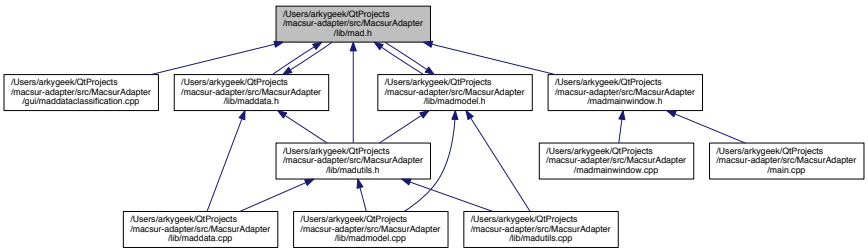
7.5 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/mad.h File Reference

```
#include <QMap>
#include <QPair>
#include <QString>
#include "madmodel.h"
#include "maddata.h"
```

Include dependency graph for mad.h:



This graph shows which files directly or indirectly include this file:



Typedefs

- typedef QMap< QString, QPair < bool, QString > > MadTripleMap

  MadTripleMap.
- typedef QPair< QPair< QString, QString >, QPair< QString, QString > > MadModelInfo

  MadModelInfo.

Enumerations

- enum ModelTheme { CropM, LiveM, TradeM }

  MadModelMap.
- enum Scale { Farm, Locality, Regional, National, International, Global }

  The Scale enum.
- enum Nuts { Nuts1, Nuts2, Nuts3 }

  The Nuts enum.
- enum AreaUnits { Dunum, Hectare, Acre, SquareKm, SquareMile }

  The AreaUnits enum.
- enum FileType { CSV, TAB, OtherDelimited, Binary }

  The FileType enum.
- enum EnergyType { KCalories, TDN }

  The EnergyType enum.
- enum DataClass { Platinum, Gold, Silver, Bronze }

  The DataClass enum.

7.5.1 Typedef Documentation

7.5.1.1 typedef QPair<QPair<QString,QString>, QPair<QString,QString> > MadModelInfo

MadModelInfo.

Definition at line 51 of file mad.h.

7.5.1.2 typedef QMap<QString,QPair<bool,QString> > MadTripleMap

MadTripleMap.

Definition at line 47 of file mad.h.

7.5.2 Enumeration Type Documentation

7.5.2.1 enum AreaUnits

The AreaUnits enum.

Enumerator

Dunum
Hectare
Acre
SquareKm
SquareMile

Definition at line 72 of file mad.h.

7.5.2.2 enum DataClass

The DataClass enum.

Enumerator

Platinum
Gold
Silver
Bronze

Definition at line 84 of file mad.h.

7.5.2.3 enum EnergyType

The EnergyType enum.

Enumerator

KCalories
TDN

Definition at line 80 of file mad.h.

7.5.2.4 enum FileType

The FileType enum.

Enumerator

CSV
TAB
OtherDelimited
Binary

Definition at line 76 of file mad.h.

7.5.2.5 enum ModelTheme

MadModelMap.

The ModelTheme enum

Enumerator

CropM

LiveM

TradeM

Definition at line 60 of file mad.h.

7.5.2.6 enum Nuts

The Nuts enum.

Enumerator

Nuts1

Nuts2

Nuts3

Definition at line 68 of file mad.h.

7.5.2.7 enum Scale

The Scale enum.

Enumerator

Farm

Locality

Regional

National

International

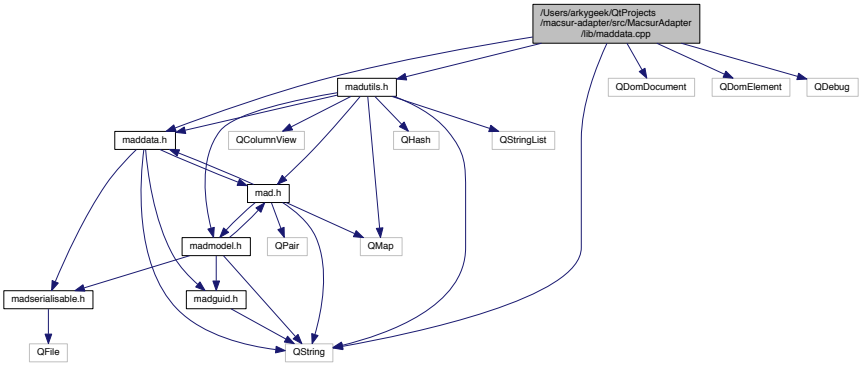
Global

Definition at line 64 of file mad.h.

7.6 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/maddata.cpp File Reference

```
#include "maddata.h"
#include "madutils.h"
#include <QString>
#include <QDomDocument>
#include <QDomElement>
#include <QDebug>
```

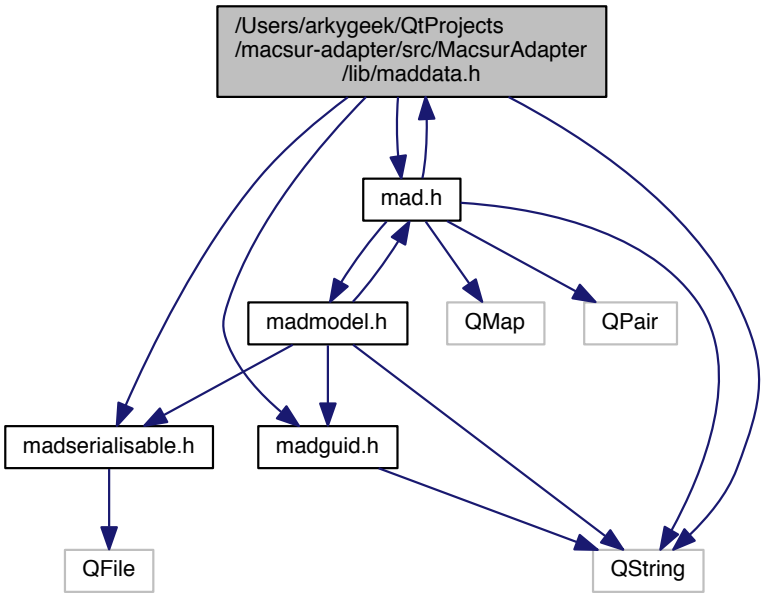
Include dependency graph for maddata.cpp:



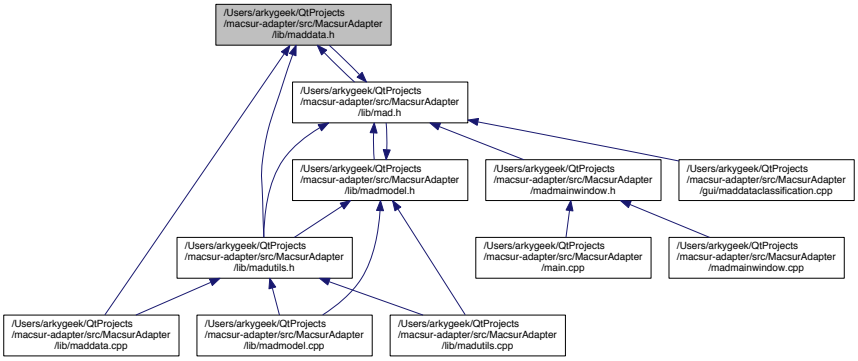
7.7 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/maddata.h File Reference

```
#include "madserialisable.h"
#include "madguid.h"
#include "mad.h"
#include <QString>
```

Include dependency graph for maddata.h:



This graph shows which files directly or indirectly include this file:



Classes

- struct MadSubCategory

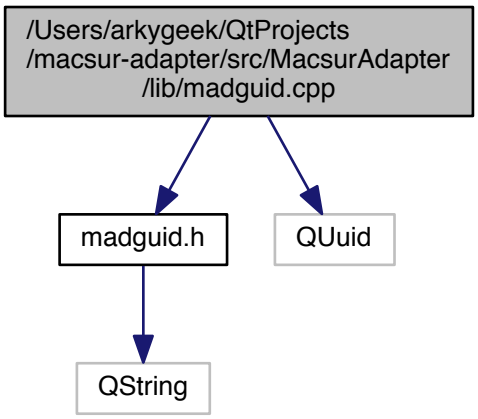
  The MadSubCategory struct.
- struct MadCategory
- class MadData

  The MadData class.

7.8 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madguid.cpp File Reference

```
#include "madguid.h"
#include <QUuid>
```

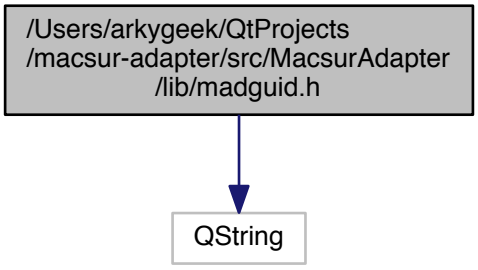
Include dependency graph for madguid.cpp:



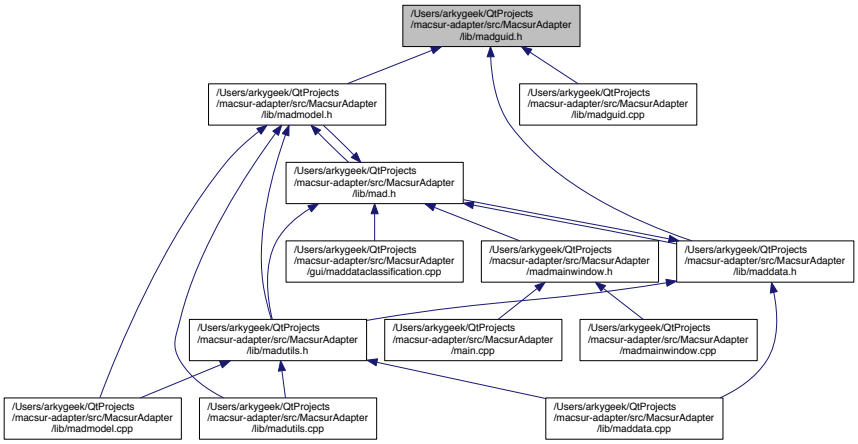
7.9 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madguid.h File Reference

```
#include <QString>
```

Include dependency graph for madguid.h:



This graph shows which files directly or indirectly include this file:



Classes

- class MadGuid

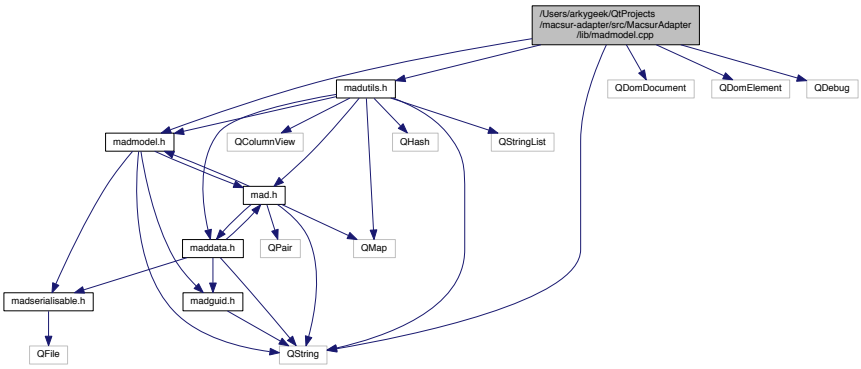
  The MadGuid class An abstract base class that has a Globally Unique Identifier (GUID) to represent a unique instance.

7.10 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madmodel.cpp File Reference

```
#include "madmodel.h"
```

```
#include "madutils.h"
#include <QString>
#include <QDomDocument>
#include <QDomElement>
#include <QDebug>
```

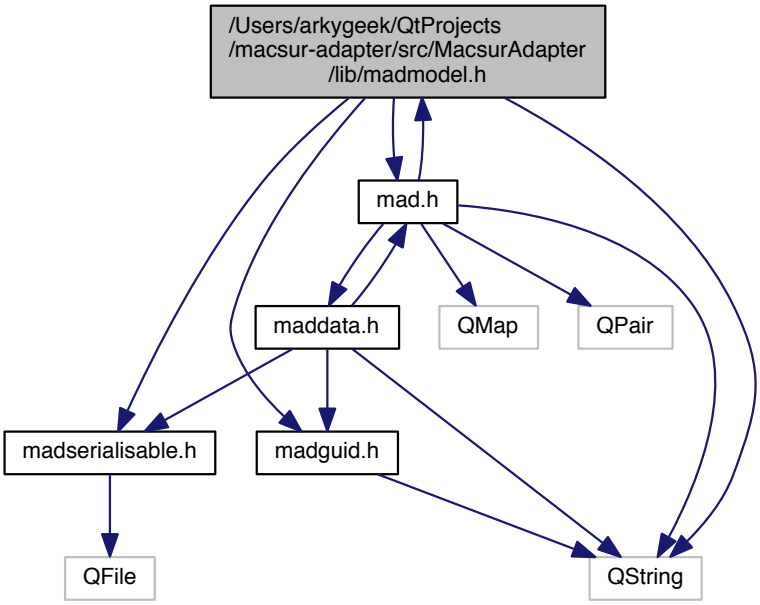
Include dependency graph for madmodel.cpp:



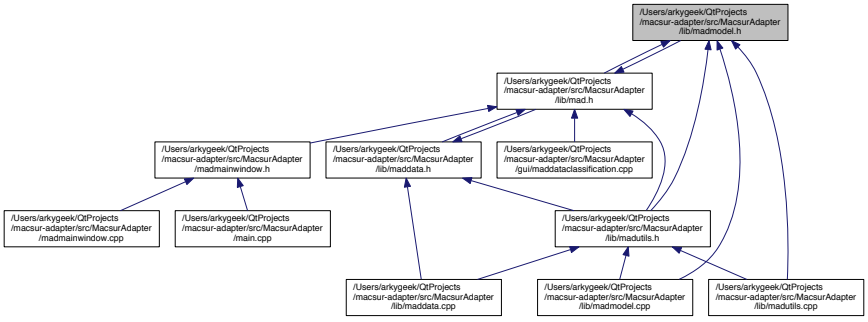
7.11 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madmodel.h File Reference

```
#include "madserialisable.h"
#include "madguid.h"
#include "mad.h"
#include <QString>
```

Include dependency graph for madmodel.h:



This graph shows which files directly or indirectly include this file:



Classes

- class MadModel

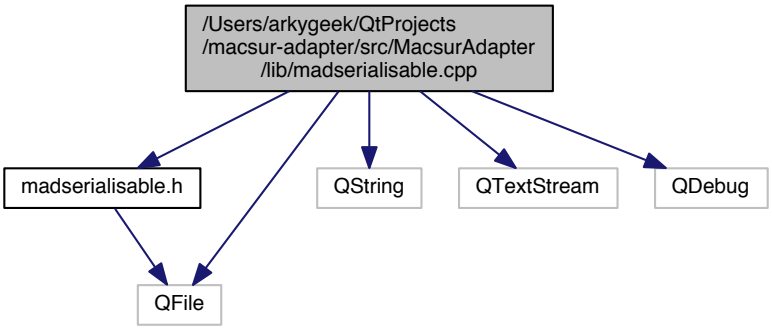
  The MadModel class, to represent a ModelTheme.

7.12 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madserialisable.cpp File Reference

```
#include "madserialisable.h"
```

```
#include <QFile>
#include <QString>
#include <QTextStream>
#include <QDebug>
```

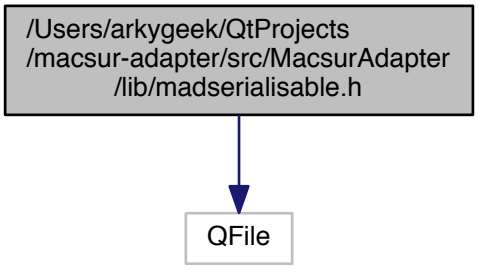
Include dependency graph for madserialisable.cpp:



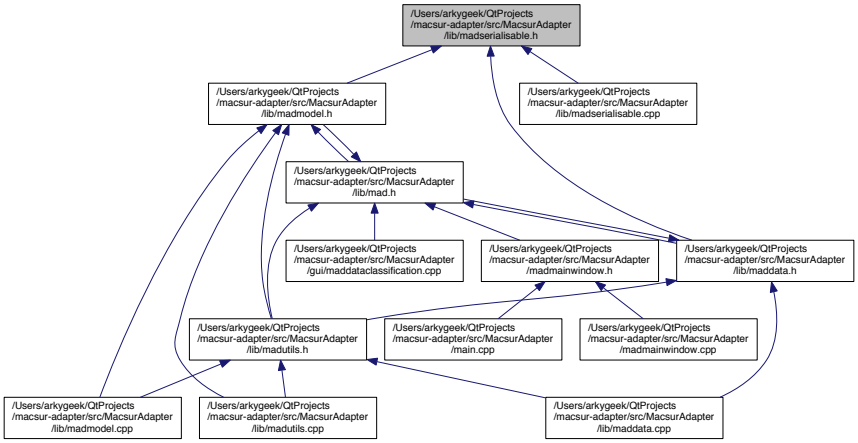
7.13 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madserialisable.h File Reference

```
#include <QFile>
```

Include dependency graph for madserialisable.h:



This graph shows which files directly or indirectly include this file:



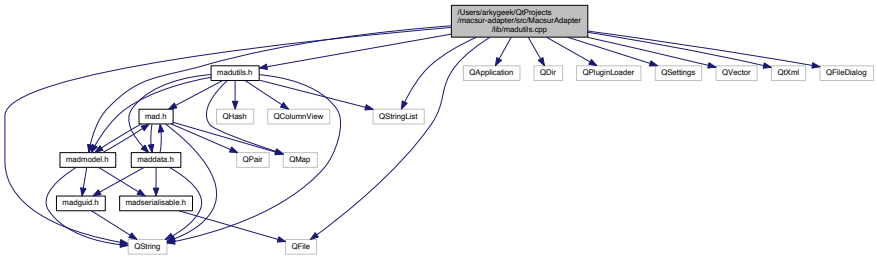
Classes

- class MadSerialisable

7.14 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madutils.cpp File Reference

```
#include "madutils.h"
#include "madmodel.h"
#include <QApplication>
#include <QDir>
#include <QFile>
#include <QPluginLoader>
#include <QSettings>
#include <QString>
#include <QStringList>
#include <QVector>
#include <QtXml>
#include <QFileDialog>
```

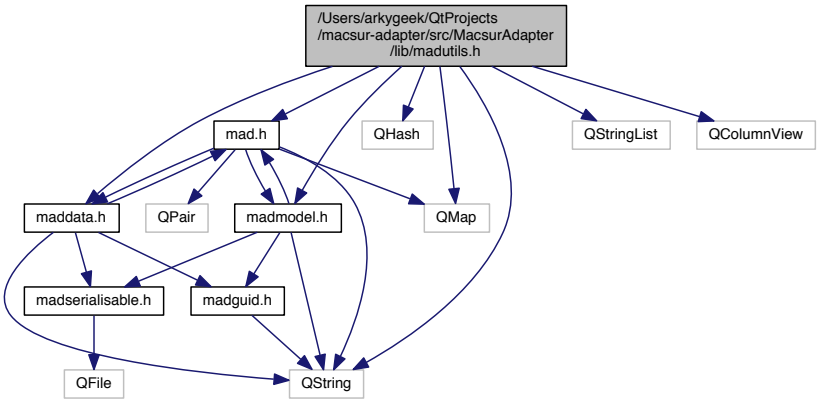
Include dependency graph for madutils.cpp:



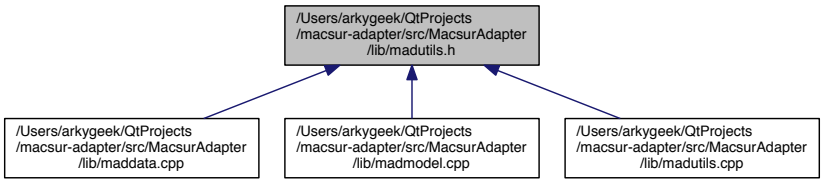
7.15 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madutils.h File Reference

```
#include "mad.h"
#include "madmodel.h"
#include "maddata.h"
#include <QHash>
#include <QMap>
#include <QString>
#include <QStringList>
#include <QColumnView>
```

Include dependency graph for madutils.h:



This graph shows which files directly or indirectly include this file:

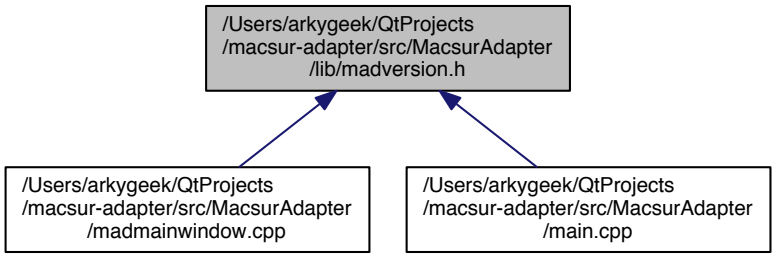


Classes

- class MadUtils

7.16 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/lib/madversion.h File Reference

This graph shows which files directly or indirectly include this file:



Macros

- #define VERSION "0.1"

7.16.1 Macro Definition Documentation

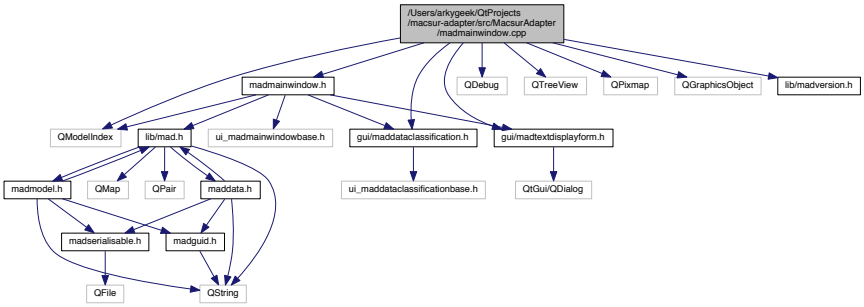
7.16.1.1 #define VERSION "0.1"

Definition at line 23 of file madversion.h.

7.17 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/madmainwindow.cpp File Reference

```
#include <QModelIndex>
#include <QDebug>
#include <QTreeView>
#include <QPixmap>
#include <QGraphicsObject>
#include "madmainwindow.h"
#include "lib/madversion.h"
#include "gui/maddataclassification.h"
#include "gui/madtextdisplayform.h"
```

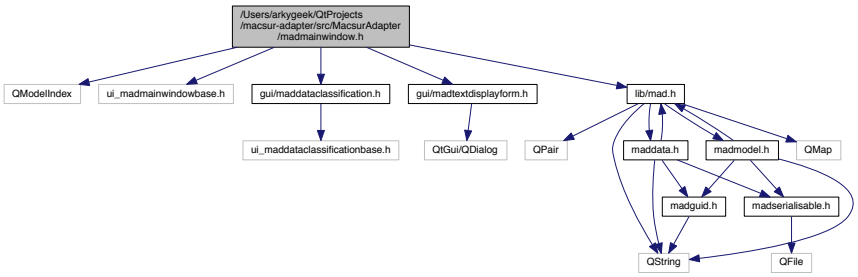
Include dependency graph for madmainwindow.cpp:



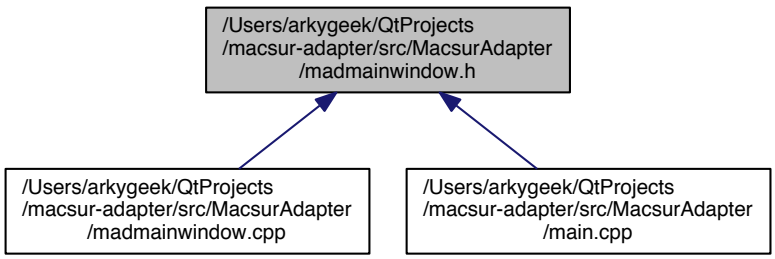
7.18 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/madmainwindow.h File Reference

```
#include <QModelIndex>
#include "ui_madmainwindowbase.h"
#include "gui/maddataclassification.h"
#include "gui/madtextdisplayform.h"
#include "lib/mad.h"
```

Include dependency graph for madmainwindow.h:



This graph shows which files directly or indirectly include this file:



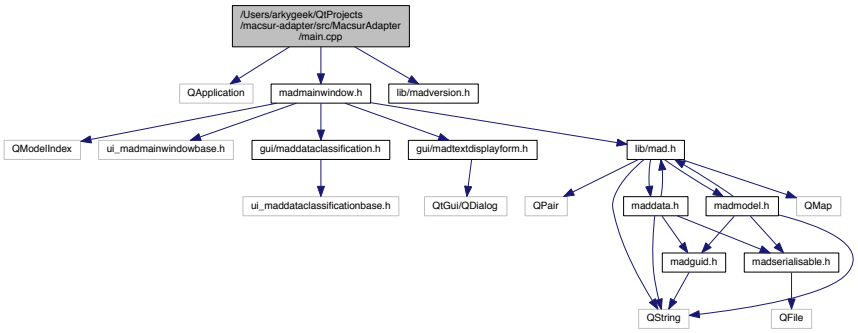
Classes

- class MadMainWindow

7.19 /Users/arkygeek/QtProjects/macsur-adapter/src/MacsurAdapter/main.cpp File Reference

```
#include <QApplication>
#include "madmainwindow.h"
#include "lib/madversion.h"
```

Include dependency graph for main.cpp:



Functions

- int main (int argc, char ∗argv[])

7.19.1 Function Documentation

7.19.1.1 int main (int *argc*, char ∗ *argv[]*)

Definition at line 35 of file main.cpp.

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