

libglademm 2.4

2.6.7

Generated by Doxygen 1.9.5

1 Namespace Index	1
1.1 Namespace List	1
2 Hierarchical Index	3
2.1 Class Hierarchy	3
3 Class Index	5
3.1 Class List	5
4 File Index	7
4.1 File List	7
5 Namespace Documentation	9
5.1 Glib Namespace Reference	9
5.2 Gnome Namespace Reference	9
5.3 Gnome::Glade Namespace Reference	9
6 Class Documentation	11
6.1 Gnome::Glade::VariablesMap Class Reference	11
6.1.1 Detailed Description	12
6.1.2 Member Typedef Documentation	12
6.1.2.1 type_mapWidgetsToVariables	12
6.1.3 Constructor & Destructor Documentation	12
6.1.3.1 VariablesMap()	12
6.1.3.2 ~VariablesMap()	12
6.1.4 Member Function Documentation	12
6.1.4.1 connect_widget() [1/4]	13
6.1.4.2 connect_widget() [2/4]	13
6.1.4.3 connect_widget() [3/4]	13
6.1.4.4 connect_widget() [4/4]	13
6.1.4.5 transfer_one_widget()	13
6.1.4.6 transfer_variables_to_widgets()	14
6.1.4.7 transfer_widgets_to_variables()	14
6.1.4.8 validate_widgets()	14
6.1.5 Member Data Documentation	14
6.1.5.1 m_mapWidgetsToVariables	14
6.1.5.2 m_refGlade	14
6.2 Gnome::Glade::Xml Class Reference	14
6.3 Gnome::Glade::XmlError Class Reference	15
6.3.1 Constructor & Destructor Documentation	15
6.3.1.1 XmlError() [1/2]	15
6.3.1.2 ~XmlError()	15
6.3.1.3 XmlError() [2/2]	15
6.3.2 Member Function Documentation	15

6.3.2.1 operator=()	15
6.3.2.2 what()	15
7 File Documentation	17
7.1 init.h File Reference	17
7.2 variablesmap.h File Reference	17
7.3 xml.h File Reference	17
Index	19

Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Glib	9
Gnome	9
Gnome::Glade	9

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Glib::Exception	
Gnome::Glade::XmlError	15
Glib::Object	
Gnome::Glade::Xml	14
Gnome::Glade::VariablesMap	11

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Gnome::Glade::VariablesMap	
Associates named Glade widgets with member variables	11
Gnome::Glade::Xml	14
Gnome::Glade::XmlError	15

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

init.h	17
variablesmap.h	17
xml.h	17

Chapter 5

Namespace Documentation

5.1 Glib Namespace Reference

5.2 Gnome Namespace Reference

Namespaces

- namespace [Glade](#)

5.3 Gnome::Glade Namespace Reference

Classes

- class [VariablesMap](#)
Associates named [Glade](#) widgets with member variables.
- class [Xml](#)
- class [XmlError](#)

Chapter 6

Class Documentation

6.1 Gnome::Glade::VariablesMap Class Reference

Associates named [Glade](#) widgets with member variables.

```
#include <variablesmap.h>
```

Public Member Functions

- [VariablesMap](#) (const Glib::RefPtr< [Glade::Xml](#) > &glade)
- virtual [~VariablesMap](#) ()
- virtual void [connect_widget](#) (const Glib::ustring &widget_name, bool &variable)
For ToggleButton (CheckBox and RadioButton)
- virtual void [connect_widget](#) (const Glib::ustring &widget_name, Glib::ustring &variable)
For Entry, ComboBoxEntry and SpinBox.
- virtual void [connect_widget](#) (const Glib::ustring &widget_name, double &variable)
For Scale (HScale and VScale)
- virtual void [connect_widget](#) (const Glib::ustring &widget_name, Glib::Date &variable)
For Calendar.
- virtual void [transfer_widgets_to_variables](#) ()
Transfer data from the widget to the variable.
- virtual void [transfer_variables_to_widgets](#) ()
Transfer data from the variable to the widget.

Protected Types

- typedef std::map< Gtk::Widget *, void * > [type_mapWidgetsToVariables](#)

Protected Member Functions

- virtual bool [validate_widgets](#) ()
Override this to validate the data that the user enters into the widgets.
- virtual void [transfer_one_widget](#) (Gtk::Widget *pWidget, bool to_variable)

Protected Attributes

- `type_mapWidgetsToVariables m_mapWidgetsToVariables`
- `Glib::RefPtr< Glade::Xml > m_refGlade`

6.1.1 Detailed Description

Associates named `Glade` widgets with member variables.

Use `connect_widget()` to link the widgets with variables that will contain their data. Then use `transfer_widgets_to_variables()` and `transfer_variables_to_widgets()` to get or set all of the variables at once.

This is meant to be a bit like MFC's "Dialog Data Exchange and Validation".

The association of widget and member variables follow this mapping:

```
Gtk::Entry --> Glib::ustring Gtk::SpinBox --> Glib::ustring Gtk::ComboBoxEntry --> Glib::ustring Gtk::Scale -->
double Gtk::Calendar --> Glib::Date Gtk::CheckBox --> bool Gtk::RadioButton --> bool
```

6.1.2 Member Typedef Documentation

6.1.2.1 `type_mapWidgetsToVariables`

```
typedef std::map<Gtk::Widget*, void*> Gnome::Glade::VariablesMap::type_mapWidgetsToVariables
[protected]
```

6.1.3 Constructor & Destructor Documentation

6.1.3.1 `VariablesMap()`

```
Gnome::Glade::VariablesMap::VariablesMap (
    const Glib::RefPtr< Glade::Xml > & glade ) [explicit]
```

6.1.3.2 `~VariablesMap()`

```
virtual Gnome::Glade::VariablesMap::~VariablesMap ( ) [virtual]
```

6.1.4 Member Function Documentation

6.1.4.1 connect_widget() [1/4]

```
virtual void Gnome::Glade::VariablesMap::connect_widget (
    const Glib::ustring & widget_name,
    bool & variable ) [virtual]
```

For ToggleButton (CheckBox and RadioButton)

6.1.4.2 connect_widget() [2/4]

```
virtual void Gnome::Glade::VariablesMap::connect_widget (
    const Glib::ustring & widget_name,
    double & variable ) [virtual]
```

For Scale (HScale and VScale)

6.1.4.3 connect_widget() [3/4]

```
virtual void Gnome::Glade::VariablesMap::connect_widget (
    const Glib::ustring & widget_name,
    Glib::Date & variable ) [virtual]
```

For Calendar.

6.1.4.4 connect_widget() [4/4]

```
virtual void Gnome::Glade::VariablesMap::connect_widget (
    const Glib::ustring & widget_name,
    Glib::ustring & variable ) [virtual]
```

For Entry, ComboBoxEntry and SpinBox.

6.1.4.5 transfer_one_widget()

```
virtual void Gnome::Glade::VariablesMap::transfer_one_widget (
    Gtk::Widget * pWidget,
    bool to_variable ) [protected], [virtual]
```

6.1.4.6 transfer_variables_to_widgets()

```
virtual void Gnome::Glade::VariablesMap::transfer_variables_to_widgets ( ) [virtual]
```

Transfer data from the variable to the widget.

6.1.4.7 transfer_widgets_to_variables()

```
virtual void Gnome::Glade::VariablesMap::transfer_widgets_to_variables ( ) [virtual]
```

Transfer data from the widget to the variable.

6.1.4.8 validate_widgets()

```
virtual bool Gnome::Glade::VariablesMap::validate_widgets ( ) [protected], [virtual]
```

Override this to validate the data that the user enters into the widgets.

The return value indicates whether the widgets' data is valid.

6.1.5 Member Data Documentation

6.1.5.1 m_mapWidgetsToVariables

```
type_mapWidgetsToVariables Gnome::Glade::VariablesMap::m_mapWidgetsToVariables [protected]
```

6.1.5.2 m_refGlade

```
Glib::RefPtr<Glade::Xml> Gnome::Glade::VariablesMap::m_refGlade [protected]
```

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

- [variablesmap.h](#)

6.2 Gnome::Glade::Xml Class Reference

```
#include <xml.h>
```

Inheritance diagram for Gnome::Glade::Xml:

6.3 Gnome::Glade::XmlError Class Reference

```
#include <xml.h>
```

Inheritance diagram for Gnome::Glade::XmlError:

Public Member Functions

- [XmlError](#) (const Glib::ustring &message)
- virtual [~XmlError](#) () throw ()
- [XmlError](#) (const [XmlError](#) &other)
- [XmlError](#) & [operator=](#) (const [XmlError](#) &other)
- virtual Glib::ustring [what](#) () const

6.3.1 Constructor & Destructor Documentation

6.3.1.1 XmlError() [1/2]

```
Gnome::Glade::XmlError::XmlError (
    const Glib::ustring & message ) [explicit]
```

6.3.1.2 ~XmlError()

```
virtual Gnome::Glade::XmlError::~~XmlError ( ) throw ( ) [virtual]
```

6.3.1.3 XmlError() [2/2]

```
Gnome::Glade::XmlError::XmlError (
    const XmlError & other )
```

6.3.2 Member Function Documentation

6.3.2.1 operator=()

```
XmlError & Gnome::Glade::XmlError::operator= (
    const XmlError & other )
```

6.3.2.2 what()

```
virtual Glib::ustring Gnome::Glade::XmlError::what ( ) const [virtual]
```

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

- [xml.h](#)

Chapter 7

File Documentation

7.1 init.h File Reference

Namespaces

- namespace [Gnome](#)
- namespace [Gnome::Glade](#)

7.2 variablesmap.h File Reference

Classes

- class [Gnome::Glade::VariablesMap](#)
Associates named [Glade](#) widgets with member variables.

Namespaces

- namespace [Gnome](#)
- namespace [Gnome::Glade](#)

7.3 xml.h File Reference

Classes

- class [Gnome::Glade::XmlError](#)
- class [Gnome::Glade::Xml](#)

Namespaces

- namespace [Gnome](#)
- namespace [Gnome::Glade](#)
- namespace [Glib](#)

Index

- ~VariablesMap
 - Gnome::Glade::VariablesMap, [12](#)
- ~XmlError
 - Gnome::Glade::XmlError, [15](#)
- connect_widget
 - Gnome::Glade::VariablesMap, [12](#), [13](#)
- Glib, [9](#)
- Gnome, [9](#)
- Gnome::Glade, [9](#)
- Gnome::Glade::VariablesMap, [11](#)
 - ~VariablesMap, [12](#)
 - connect_widget, [12](#), [13](#)
 - m_mapWidgetsToVariables, [14](#)
 - m_refGlade, [14](#)
 - transfer_one_widget, [13](#)
 - transfer_variables_to_widgets, [13](#)
 - transfer_widgets_to_variables, [14](#)
 - type_mapWidgetsToVariables, [12](#)
 - validate_widgets, [14](#)
 - VariablesMap, [12](#)
- Gnome::Glade::Xml, [14](#)
- Gnome::Glade::XmlError, [15](#)
 - ~XmlError, [15](#)
 - operator=, [15](#)
 - what, [15](#)
 - XmlError, [15](#)
- init.h, [17](#)
- m_mapWidgetsToVariables
 - Gnome::Glade::VariablesMap, [14](#)
- m_refGlade
 - Gnome::Glade::VariablesMap, [14](#)
- operator=
 - Gnome::Glade::XmlError, [15](#)
- transfer_one_widget
 - Gnome::Glade::VariablesMap, [13](#)
- transfer_variables_to_widgets
 - Gnome::Glade::VariablesMap, [13](#)
- transfer_widgets_to_variables
 - Gnome::Glade::VariablesMap, [14](#)
- type_mapWidgetsToVariables
 - Gnome::Glade::VariablesMap, [12](#)
- validate_widgets
 - Gnome::Glade::VariablesMap, [14](#)
- VariablesMap
 - Gnome::Glade::VariablesMap, [12](#)
- variablesmap.h, [17](#)
- what
 - Gnome::Glade::XmlError, [15](#)
- xml.h, [17](#)
- XmlError
 - Gnome::Glade::XmlError, [15](#)