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# Chapter 1

## Namespace Index

### 1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

<a href="#">Glib</a>	.....	9
<a href="#">Gnome</a>	.....	9
<a href="#">Gnome::Glade</a>	.....	9



## Chapter 2

# Hierarchical Index

### 2.1 Class Hierarchy

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

Glib::Exception	
Gnome::Glade::XmlError . . . . .	<a href="#">15</a>
Glib::Object	
Gnome::Glade::Xml . . . . .	<a href="#">14</a>
Gnome::Glade::VariablesMap . . . . .	<a href="#">11</a>





## Chapter 3

# Class Index

### 3.1 Class List

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

<a href="#">Gnome::Glade::VariablesMap</a>	
Associates named <a href="#">Glade</a> widgets with member variables	11
<a href="#">Gnome::Glade::Xml</a>	14
<a href="#">Gnome::Glade::XmlError</a>	15



## Chapter 4

# File Index

### 4.1 File List

Here is a list of all files with brief descriptions:

<a href="#">init.h</a>	17
<a href="#">variablesmap.h</a>	17
<a href="#">xml.h</a>	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](#)



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