FramelessWindow

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Ui 9

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

QWidget
FramelessWindow 11

Chapter 3

Class Index

3.1 Class List

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

FramelessWindow
Unique Frameless window or Titlebar class built in Qt 6 with customization in mind. Inherits QWidget 11

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

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Namespace Documentation

5.1 Ui Namespace Reference

Chapter 6

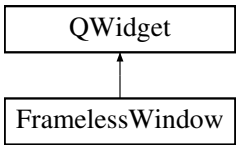
Class Documentation

6.1 FramelessWindow Class Reference

Unique Frameless window or Titlebar class built in Qt 6 with customization in mind. Inherits QWidget.

`#include <framelesswindow.h>`

Inheritance diagram for FramelessWindow:



Public Types

- enum TitleMode {
  CleanTitle , OnlyCloseButton , IconOff , MaxMinRollOff ,
  MaxMinOff , FullScreenMode , MaxOff , MinOff ,
  RollOff , FullTitle }

  Enum for various title bar modes.

Public Member Functions

- FramelessWindow (QWidget *parent=nullptr)

  FramelessWindow.
- void dropShadow (bool on=true)

  Enables drop shadow effect.
- int getGlobalState ()

  Helps in knowing whether window is maximized or in restored state.
- int getFullSCState ()

  Helps in knowing whether window is fullscreen or in restored state.
- int getRollState ()

  Helps in knowing whether window is rolled up or rolled down.

- void setTitle (QString title)

  Sets the titlebar text.
- void setTitleFont (QFont font)

  Sets the titlebar font to font.
- void setTitleStyle (QString stylesheet)

  Sets the titlebar text stylesheet to stylesheet.
- void setTitleBarMode (TitleMode flag)

  Sets the title bar mode from flag.
- void setAppIcon (QIcon appicon)

  Sets the app icon to appicon.
- void setMinIcon (QIcon minicon)

  Sets the minimize icon to minicon.
- void setMaxIcon (QString maxres=":/app_max.png", QString restres=":/app_rest.png")

  Sets the maximize and restore icons to maxres and restres, provided both are resources.
- void setRollIcon (QString rollup=":/rollup.png", QString rolldown=":/rolldown.png")

  Sets the roll up and roll down icons to rollup and rolldown, provided both are resources.
- void setCloseIcon (QIcon closeicon)

  Sets the close icon to closeIcon.
- void setMenuBar (QMenuBar *menuBar=nullptr, bool hidden=false)

  Sets the menubar of the frameless window from a given menu bar. Parameter "hidden" is set to false by default. If set to true, menubar will be hidden.
- void hideMenuBar (bool y=true)

  Hides the menu bar.
- void setCentralWidget (QWidget *centralWidget)

  Sets the central widget to centralWidget.

Protected Member Functions

- void handleEdgeHit ()

  Handles edge hit while moving or resizing window.
- void moveWindow (QMouseEvent *event)

  Function that deals with moving the window.

6.1.1 Detailed Description

Unique Frameless window or Titlebar class built in Qt 6 with customization in mind. Inherits QWidget.

6.1.2 Member Enumeration Documentation

6.1.2.1 TitleMode

```
enum FramelessWindow::TitleMode
```

Enum for various title bar modes.

Enumerator

CleanTitle	Hides everything except the title text
OnlyCloseButton	Hides everything except the close button and title text
IconOff	Hides only the app icon
MaxMinRollOff	Hides the maximize, minimize and roll button
MaxMinOff	Hides the maximize and minimize button
FullScreenMode	Window becomes fullscreen
MaxOff	Hides maximize button
MinOff	Hides minimize button
RollOff	Hides roll button
FullTitle	Nothing is hidden, default mode

6.1.3 Constructor & Destructor Documentation

6.1.3.1 FramelessWindow()

```
FramelessWindow::FramelessWindow (
            QWidget * parent = nullptr )  [explicit]
```

FramelessWindow.

Parameters

parent	a QWidget

6.1.4 Member Function Documentation

6.1.4.1 dropShadow()

```
void FramelessWindow::dropShadow (
            bool on = true )
```

Enables drop shadow effect.

Parameters

on	a boolean

6.1.4.2 getFullSCState()

```
void FramelessWindow::getFullSCState ( )  [inline]
```

Helps in knowing whether window is fullscreen or in restored state.

Returns

6.1.4.3 getGlobalState()

```
int FramelessWindow::getGlobalState ( )  [inline]
```

Helps in knowing whether window is maximized or in restored state.

Returns

an integer

6.1.4.4 getRollState()

```
int FramelessWindow::getRollState ( )  [inline]
```

Helps in knowing whether window is rolled up or rolled down.

Returns

an integer

6.1.4.5 handleEdgeHit()

```
void FramelessWindow::handleEdgeHit ( )  [protected]
```

Handles edge hit while moving or resizing window.

6.1.4.6 hideMenuBar()

```
void FramelessWindow::hideMenuBar (
            bool y = true )
```

Hides the menu bar.

Parameters

y	a boolean

6.1.4.7 moveWindow()

```
void FramelessWindow::moveWindow (
            QMouseEvent * event )  [protected]
```

Function that deals with moving the window.

Parameters

event	a QMouseEvent*

6.1.4.8 setAppIcon()

```
void FramelessWindow::setAppIcon (
            QIcon appicon )
```

Sets the app icon to appicon.

Parameters

appicon	a QIcon

6.1.4.9 setCentralWidget()

```
void FramelessWindow::setCentralWidget (
            QWidget * centralWidget )
```

Sets the central widget to centralWidget.

Parameters

centralWidget	a *QWidget

6.1.4.10 setCloseIcon()

```
void FramelessWindow::setCloseIcon (
            QIcon closeIcon )
```

Sets the close icon to closeIcon.

Parameters

closeicon	a QIcon

6.1.4.11 setMaxIcon()

```
void FramelessWindow::setMaxIcon (
            QString maxres = ":/app_max.png",
            QString restres = ":/app_rest.png" )
```

Sets the maximize and restore icons to maxres and restres, provided both are resources.

Parameters

maxres	a QString
restres	a QString

6.1.4.12 setMenuBar()

```
void FramelessWindow::setMenuBar (
            QMenuBar * menuBar = nullptr,
            bool hidden = false )
```

Sets the menubar of the frameless window from a given menu bar. Parameter "hidden" is set to false by default. If set to true, menubar will be hidden.

Parameters

menuBar	a QMenuBar*
hidden	a boolean

6.1.4.13 setMinIcon()

```
void FramelessWindow::setMinIcon (
            QIcon minicon )
```

Sets the minimize icon to minicon.

Parameters

minicon	a QIcon

6.1.4.14 setRollIcon()

```
void FramelessWindow::setRollIcon (
            QString rollup = ":/rollup.png",
            QString rolldown = ":/rolldown.png" )
```

Sets the roll up and roll down icons to rollup and rolldown, provided both are resources.

Parameters

rollup	a QString
rolldown	a QString

6.1.4.15 setTitle()

```
void FramelessWindow::setTitle (
            QString title )
```

Sets the titlebar text.

Parameters

title	a QString

6.1.4.16 setTitleBarMode()

```
void FramelessWindow::setTitleBarMode (
            TitleMode flag )
```

Sets the title bar mode from flag.

Parameters

flag	a TitleMode

6.1.4.17 setTitleFont()

```
void FramelessWindow::setTitleFont (
            QFont font )
```

Sets the titlebar font to font.

Parameters

font	a QFont

6.1.4.18 setTitleStyle()

```
void FramelessWindow::setTitleStyle (
            QString stylesheet )
```

Sets the titlebar text stylesheet to stylesheet.

Parameters

stylesheet	a QString

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

- framelesswindow.h
- framelesswindow.cpp

Chapter 7

File Documentation

7.1 framelesswindow.cpp File Reference

```
#include "framelesswindow.h"
#include "ui_FramelessWindow.h"
```

7.2 framelesswindow.h File Reference

```
#include <QWidget>
#include <QFile>
#include <QMouseEvent>
#include <QGraphicsDropShadowEffect>
#include <QMenuBar>
#include <QSizeGrip>
#include <QHoverEvent>
#include <QSysInfo>
#include <QRegularExpression>
```

Classes

- class FramelessWindow

  Unique Frameless window or Titlebar class built in Qt 6 with customization in mind. Inherits QWidget.

Namespaces

- namespace Ui

7.3 framelesswindow.h

Go to the documentation of this file.

```
1 #ifndef FRAMELESSWINDOW_H
2 #define FRAMELESSWINDOW_H
3
4 #include <QWidget>
5 #include <QFile>
6 #include <QMouseEvent>
7 #include <QGraphicsDropShadowEffect>
8 #include <QMenuBar>
9 #include <QSizeGrip>
10 #include <QHoverEvent>
11 #include <QSysInfo>
12 #include <QRegularExpression>
13
14 namespace Ui{
15     class FramelessWindow;
16 }
17
21 class FramelessWindow: public QWidget{
22     Q_OBJECT
23
24 public:
25
29     enum TitleMode {
30         CleanTitle,
31         OnlyCloseButton,
32         IconOff,
33         MaxMinRollOff,
34         MaxMinOff,
35         FullScreenMode,
36         MaxOff,
37         MinOff,
38         RollOff,
39         FullTitle  };
40
45     explicit FramelessWindow(QWidget *parent = nullptr);
46
52     void dropShadow(bool on = true);
53
59     int getGlobalState(){
60         return GLOBAL_STATE;
61     }
62
68     int getFullSCState(){
69         return FULLSC_STATE;
70     }
71
77     int getRollState(){
78         return ROLL_STATE;
79     }
80
86     void setTitle(QString title);
87
93     void setTitleFont(QFont font);
94
100     void setTitleStyle(QString stylesheet);
101
107     void setTitleBarMode(TitleMode flag);
108
114     void setAppIcon(QIcon appicon);
115
121     void setMinIcon(QIcon minicon);
122
129     void setMaxIcon(QString maxres = ":/app_max.png", QString restres = ":/app_rest.png");
130
137     void setRollIcon(QString rollup = ":/rollup.png", QString rolldown = ":/rolldown.png");
138
144     void setCloseIcon(QIcon closeicon);
145
152     void setMenuBar(QMenuBar *menuBar = nullptr, bool hidden = false);
153
159     void hideMenuBar(bool y = true);
160
166     void setCentralWidget(QWidget *centralWidget);
167
168 private:
169     Ui::FramelessWindow *ui = nullptr;
170
175     void setupFrWindow();
176
181     void setupTitleButtons();
182
187     void setupSizeRetain();
```

```
188
193     void setupSizeGrip();
194
195     void keyPressEvent(QKeyEvent *event);
196
197     void mousePressEvent(QMouseEvent *event);
198     void mouseMoveEvent(QMouseEvent *event);
199
200     void hoverMove(QHoverEvent *event);
201
202     bool event(QEvent *e);
203
204     int GLOBAL_STATE = 0;
205     int FULLSC_STATE = 0;
206     int ROLL_STATE = 0;
209     QPoint dragPos;
210     QPoint localPos;
212     int resizeLookout = 15;
214     QRect normalRect;
215     QSysInfo *sysinfo;
217     QFile file{":/framelesswindow.css"};
218     QString filedata;
220     QRegularExpression titleMaxExp = QRegularExpression("(titleMaxStyle.*{[\\s\\S]*?})");
221     QString titleMaxStyle;
223     QString m_maxres = ":/app_max.png";
224     QString m_restres = ":/app_rest.png";
226     QString m_rollup = ":/rollup.png";
227     QString m_rolldown = ":/rolldown.png";
229 private slots:
234     void maximize_restore();
235
240     void fullsc_restore();
241
246     void rollup_down();
247
248 protected:
249
254     void handleEdgeHit();
255
261     void moveWindow(QMouseEvent *event);
262 };
263
264 #endif // FRAMELESSWINDOW_H
```

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