

Calculator

Generated by Doxygen 1.9.3

1 Hierarchical Index	1
1.1 Class Hierarchy	1
2 Class Index	3
2.1 Class List	3
3 File Index	5
3.1 File List	5
4 Class Documentation	7
4.1 Calculator Class Reference	7
4.1.1 Detailed Description	8
4.1.2 Constructor & Destructor Documentation	8
4.1.2.1 Calculator()	8
4.1.3 Member Function Documentation	8
4.1.3.1 ChangeNumberSign	8
4.1.3.2 ClearButtonPressed	9
4.1.3.3 EqualButtonPressed	9
4.1.3.4 MathButtonPressed	9
4.1.3.5 NumberPressed	9
4.1.3.6 on_ButtonDecimalPoint_released	9
5 File Documentation	11
5.1 calculator.h	11
Index	13

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

QMainWindow	
Calculator	7

Chapter 2

Class Index

2.1 Class List

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

Calculator	
The Calculator class	7

Chapter 3

File Index

3.1 File List

Here is a list of all documented files with brief descriptions:

calculator.h	??
------------------------------	-------	----

Chapter 4

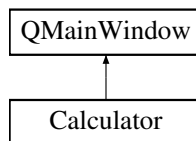
Class Documentation

4.1 Calculator Class Reference

The [Calculator](#) class.

```
#include <calculator.h>
```

Inheritance diagram for Calculator:



Public Member Functions

- [Calculator](#) (QWidget *parent=0)
[Calculator.](#)
- [~Calculator](#) ()
[Calculator::~~Calculator.](#)

Private Slots

- void [NumberPressed](#) ()
[NumberPressed.](#)
- void [MathButtonPressed](#) ()
[MathButtonPressed.](#)
- void [EqualButtonPressed](#) ()
[EqualButtonPressed.](#)
- void [ChangeNumberSign](#) ()
[ChangeNumberSign.](#)
- void [on_ButtonDecimalPoint_released](#) ()
[on_ButtonDecimalPoint_released](#)
- void [ClearButtonPressed](#) ()
[ClearButtonPressed.](#)

Private Attributes

- `Ui::Calculator * ui`
ui

4.1.1 Detailed Description

The [Calculator](#) class.

The [Calculator](#) class

4.1.2 Constructor & Destructor Documentation

4.1.2.1 Calculator()

```
Calculator::Calculator (
    QWidget * parent = 0 )
```

[Calculator](#).

Parameters

<i>parent</i>	
---------------	--

buttonName

4.1.3 Member Function Documentation

4.1.3.1 ChangeNumberSign

```
void Calculator::ChangeNumberSign ( ) [private], [slot]
```

ChangeNumberSign.

[Calculator::ChangeNumberSign](#). displayValue

dblDisplayValue

dblDisplayValueSign

4.1.3.2 ClearButtonPressed

```
void Calculator::ClearButtonPressed ( ) [private], [slot]
```

ClearButtonPressed.

[Calculator::ClearButtonPressed](#).

4.1.3.3 EqualButtonPressed

```
void Calculator::EqualButtonPressed ( ) [private], [slot]
```

EqualButtonPressed.

[Calculator::EqualButtonPressed](#). solution

displayValue

dblDisplayValue

4.1.3.4 MathButtonPressed

```
void Calculator::MathButtonPressed ( ) [private], [slot]
```

MathButtonPressed.

[Calculator::MathButtonPressed](#). displayVal

button

butValue

4.1.3.5 NumberPressed

```
void Calculator::NumberPressed ( ) [private], [slot]
```

NumberPressed.

[Calculator::NumberPressed](#). button

butValue

displayValue

newVal

dblNewVal

4.1.3.6 on_ButtonDecimalPoint_released

```
void Calculator::on_ButtonDecimalPoint_released ( ) [private], [slot]
```

on_ButtonDecimalPoint_released

[Calculator::on_ButtonDecimalPoint_released](#).

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

- calculator.h
- calculator.cpp

Chapter 5

File Documentation

5.1 calculator.h

```
1 #ifndef CALCULATOR_H
2 #define CALCULATOR_H
3
4 #include <QMainWindow>
5
6 QT_BEGIN_NAMESPACE
7
8 namespace Ui
9 {
10     class Calculator;
11 }
12
16 QT_END_NAMESPACE
17
18
22 class Calculator : public QMainWindow
23 {
24     /*The base class is declared as a QObject
25     For all the Qt objects
26     Events are handled by QObject*/
27     Q_OBJECT
28
29
34 public:
35
36     /*A constructor is by passed 0
37     Does not have a parent*/
38     Calculator(QWidget *parent = 0);
39     ~Calculator();
40
41
45 private:
46     Ui::Calculator *ui;
47
48
49     /*These are executed when a signal is
50     Submitted (Ex. Number button is clicked)*/
51 private slots:
55     void NumberPressed();
59     void MathButtonPressed();
63     void EqualButtonPressed();
67     void ChangeNumberSign();
71     void on_ButtonDecimalPoint_released();
75     void ClearButtonPressed();
76 };
77
78 #endif
```


Index

- Calculator, [7](#)
 - Calculator, [8](#)
 - ChangeNumberSign, [8](#)
 - ClearButtonPressed, [8](#)
 - EqualButtonPressed, [9](#)
 - MathButtonPressed, [9](#)
 - NumberPressed, [9](#)
 - on_ButtonDecimalPoint_released, [9](#)
- ChangeNumberSign
 - Calculator, [8](#)
- ClearButtonPressed
 - Calculator, [8](#)
- EqualButtonPressed
 - Calculator, [9](#)
- MathButtonPressed
 - Calculator, [9](#)
- NumberPressed
 - Calculator, [9](#)
- on_ButtonDecimalPoint_released
 - Calculator, [9](#)