My Project

Generated by Doxygen 1.8.13

Contents

Chapter 1

Doxygen生成pdf接口文档

1. 安装中文latex环境

```
sudo apt-get install doxygen graphviz texlive-full latex-cjk-chinese* cjk-latex
```

1. 生成配置文件

```
Doxygen -g
```

1. 打开Doxyfile，递归遍历当前目录的子目录，寻找被文档化的程序源文件，修改如下：

```
RECURSIVE              = YES
```

1. 文档生成

```
doxygen Doxyfile
```

5.进入到latex目录

```
cd latex
```

1. 修改前面doxygen Doxyfile生成的latex文件：refman.tex 将其中的:

```
\begin{document}
```

改为：

```
\usepackage{CJKutf8}
\begin{document}
\begin{CJK}{UTF8}{gbsn}
```

并将其中的:

```
\end{document}
```

改为：

```
\end{CJK}
\end{document}
```

1. 生成pdf文件

```
make -j
```

1. More

- ubuntu 下使用doxygen为C/C++工程生成pdf版的API
- linux下的doxygen的使用
- Doxygen快速入门

Code Coverage Test

1. 安装环境

```
sudo apt install gcovr
```

1. cmake添加编译参数，用来生成coverage文件 add –coverage in CMakeLists.txt

```
set(CMAKE_C_FLAGS "${CMAKE_C_FLAGS} --coverage")
set(CMAKE_CXX_FLAGS "${CMAKE_CXX_FLAGS} --coverage")
```

1. 一键生成代码行覆盖率可视化报告 use gcov、lcov to generate convert html report, make shure at the top level of the project

```
./code_coverage.sh
```

1. More

- C++语言的单元测试与代码覆盖率
- Gtest集成Lcov代码覆盖率测试

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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

Chapter 3

Class Index

3.1 Class List

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

Chapter 4

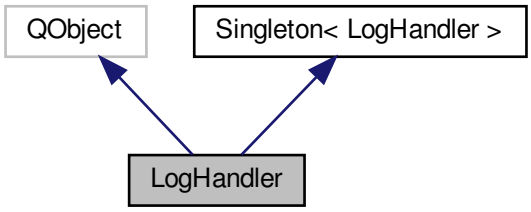
Class Documentation

4.1 LogHandler Class Reference

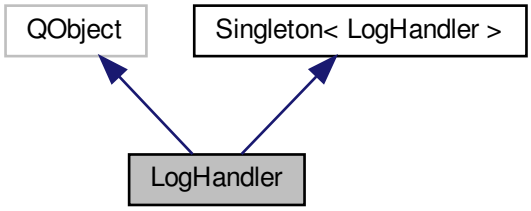
The LogHandler class.

`#include <log_handler.h>`

Inheritance diagram for LogHandler:



Collaboration diagram for LogHandler:



Public Member Functions

- LogHandler (QObject *parent=nullptr)
  Construct a new Log Handler object.
- ~LogHandler ()
  Destroy the Log Handler object.
- void installMessageHandler ()
  给*Qt*安装消息处理函数
- void uninstallMessageHandler ()
  取消安装消息处理函数并释放资源

Friends

- class Singleton< LogHandler >

Additional Inherited Members

4.1.1 Detailed Description

The LogHandler class.

声明 LogHandlerPrivate 类

4.1.2 Constructor & Destructor Documentation

4.1.2.1 LogHandler()

```
LogHandler::LogHandler (
            QObject * parent = nullptr )  [explicit]
```

Construct a new Log Handler object.

Parameters

parent	D指针

4.1.3 Friends And Related Function Documentation

4.1.3.1 Singleton< LogHandler >

```
friend class Singleton< LogHandler >  [friend]
```

友元类，可以访问私有成员

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

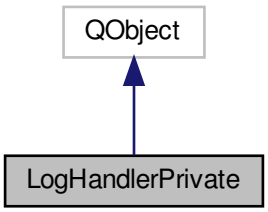
- log_handler.h
- log_handler.cpp

4.2 LogHandlerPrivate Class Reference

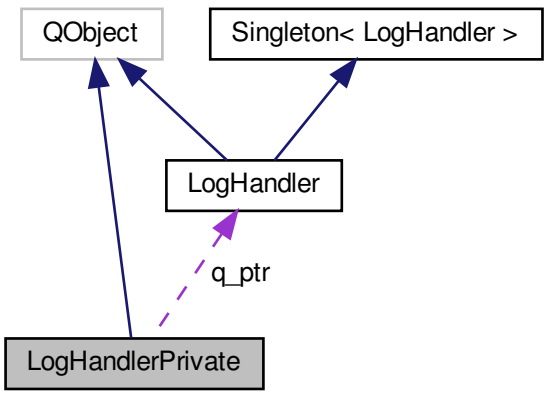
the LogHandlerPrivate class

`#include <log_handler_p.h>`

Inheritance diagram for LogHandlerPrivate:



Collaboration diagram for LogHandlerPrivate:



Public Member Functions

- LogHandlerPrivate (LogHandler *parent)
  Construct a new Log Handler Private object.
- ~LogHandlerPrivate ()
  Destroy the Log Handler Private object.
- Q_DECLARE_PUBLIC (LogHandler)

Public Attributes

- LogHandler *const q_ptr

4.2.1 Detailed Description

the LogHandlerPrivate class

4.2.2 Constructor & Destructor Documentation

4.2.2.1 LogHandlerPrivate()

```
LogHandlerPrivate::LogHandlerPrivate (
            LogHandler * parent )
```

Construct a new Log Handler Private object.

Parameters

parent	D指针

4.2.3 Member Function Documentation

4.2.3.1 Q_DECLARE_PUBLIC()

```
LogHandlerPrivate::Q_DECLARE_PUBLIC (
            LogHandler  )
```

声明LogHandler类

4.2.4 Member Data Documentation

4.2.4.1 q_ptr

```
LogHandler* const LogHandlerPrivate::q_ptr
```

D指针

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

- log_handler_p.h
- log_handler.cpp

4.3 Singleton< T > Class Template Reference

Singleton class.

```
#include <singleton.h>
```

Public Member Functions

- **Singleton** (T &&)=delete
- **Singleton** (const T &)=delete
- void **operator=** (const T &)=delete

Static Public Member Functions

- static T * **instance** ()

4.3.1 Detailed Description

template<typename T>
class Singleton< T >

Singleton class.

Template Parameters

T	Type of the singleton

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

- singleton.h

Index