

# Testing C++ GUI applications

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May 5, 2016

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## 1 Introduction

This is ‘Testing C++ GUI applications’, version 0.1, a tutorial about testing C++ GUI applications

## 2 Setting up a minimal project

Setting up a minimal project consists out of these steps:

- Create a minimal Qt application
- Write a test script

### 2.1 Creating a minimal Qt application

Create a new Qt Creator project, by clicking from the Qt Creator menu ‘File | New File or Project’.

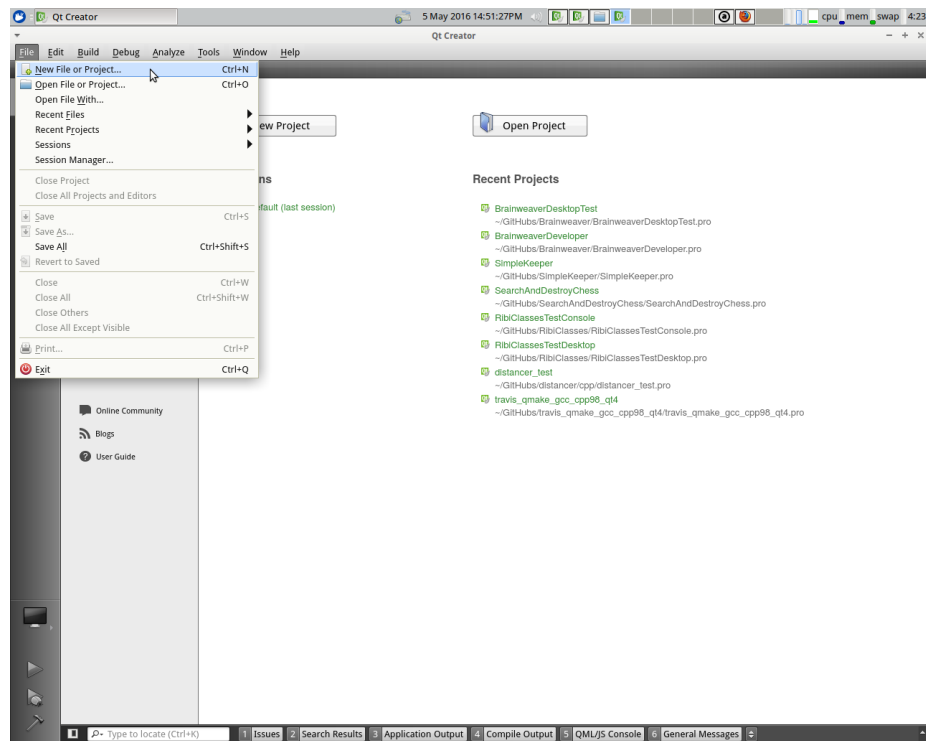


Figure 1: Create a new project

In the 'New' dialog, select 'Qt Widgets Application' and click 'Choose'.

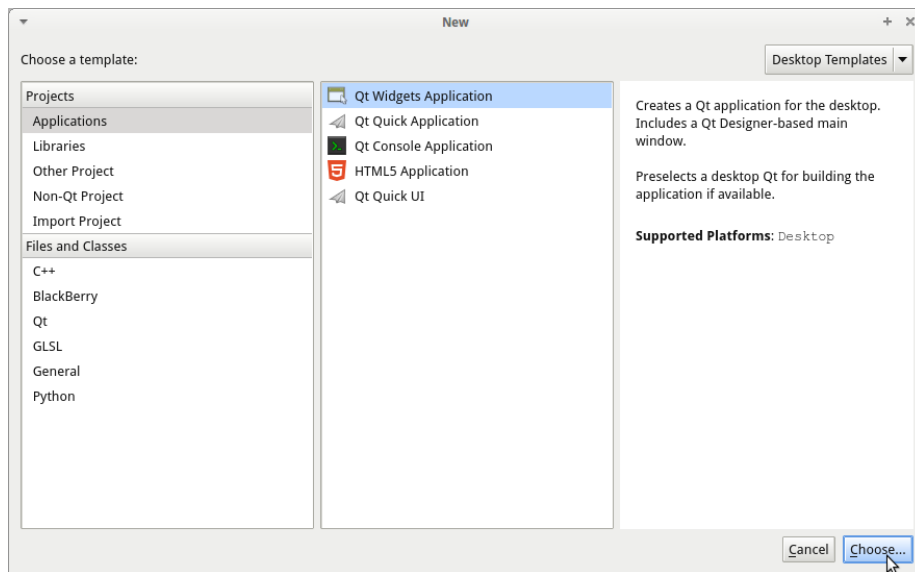


Figure 2: Create a new Qt Widgets application

In the 'Qt Widgets Application' dialog, pick a suitable location to put the files of your project.

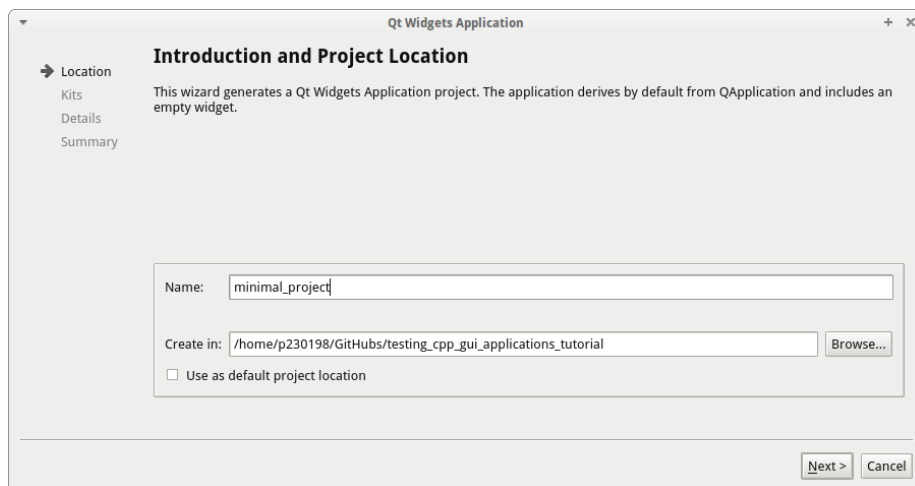


Figure 3: Give your new application a suitable location

In the next 'Qt Widgets Application' dialog, just use the default kits by clicking 'Next'.

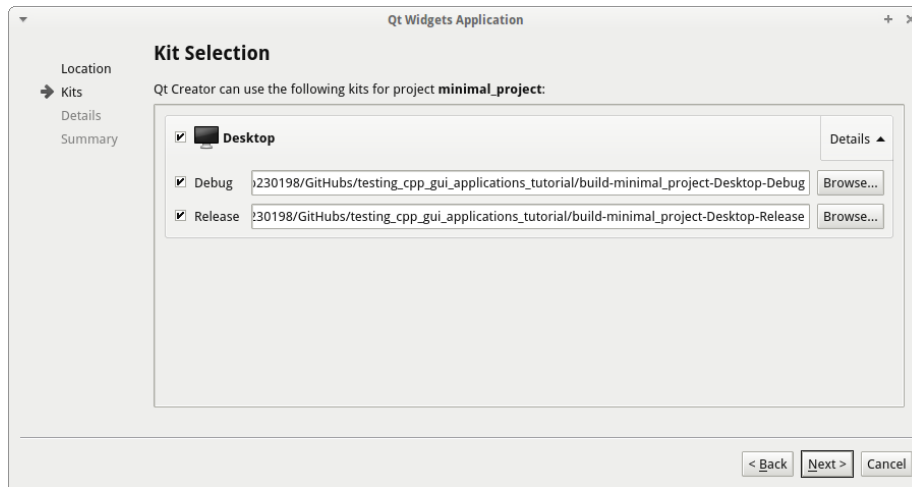


Figure 4: Use the default kits

In the next 'Qt Widgets Application' dialog, use 'QDialog' as the base class. Use all default names by clicking 'Next'.

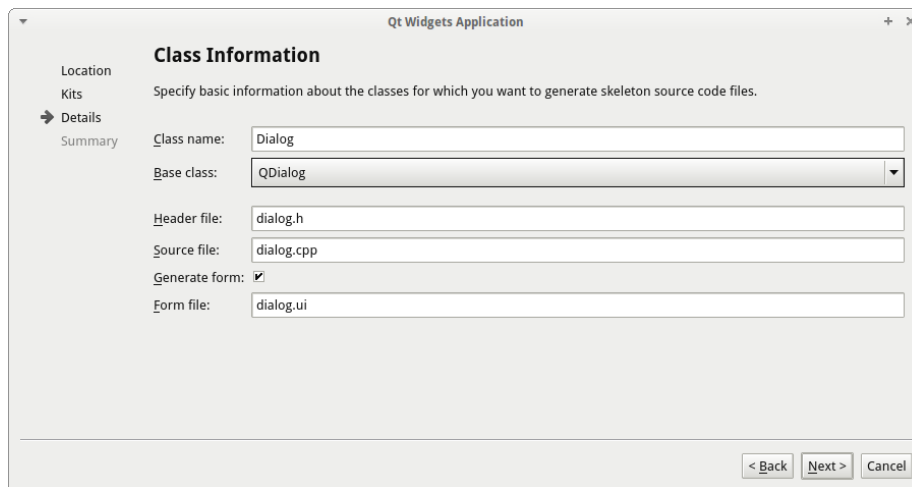


Figure 5: Set the base class of your application's main window to QDialog

In the next 'Qt Widgets Application' dialog, skip this way of using git to version control by clicking 'Finish'.

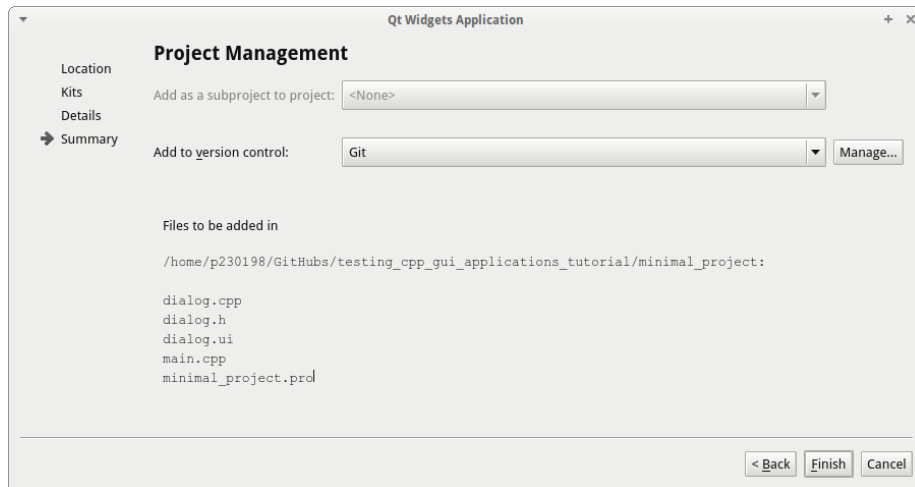


Figure 6: Skip using git via Qt Creator

Now, your minimal project is created.

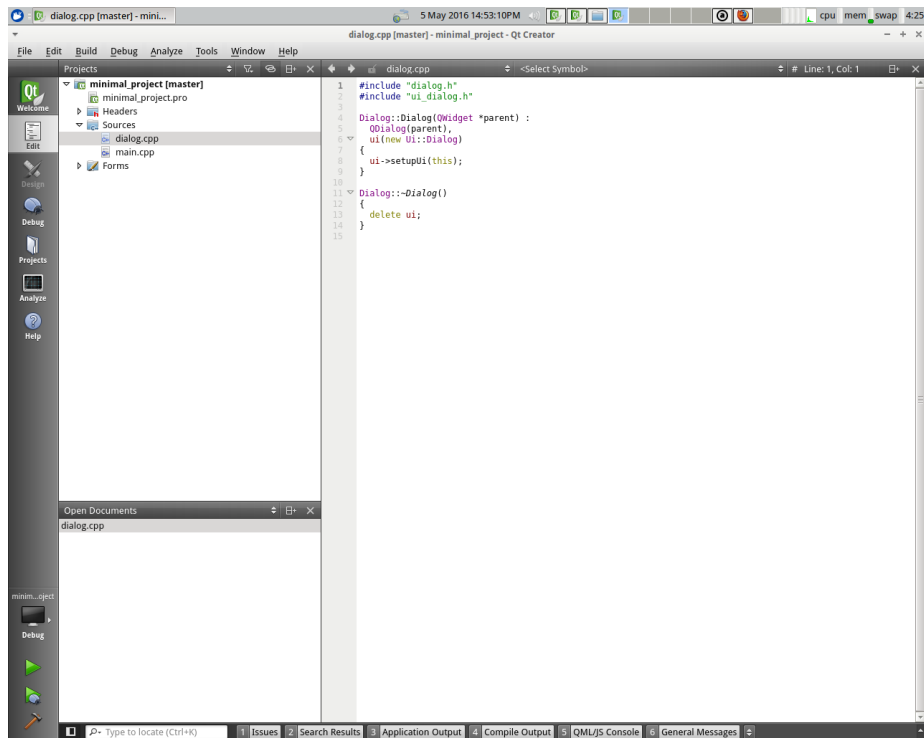


Figure 7: Part of the code of your first minimal project

Now run the application, by either pressing `CTRL+R`, selecting 'Build | Run' from the Qt Creator menu, or click the green arrow on the left.

Your first application looks like an empty dialog.

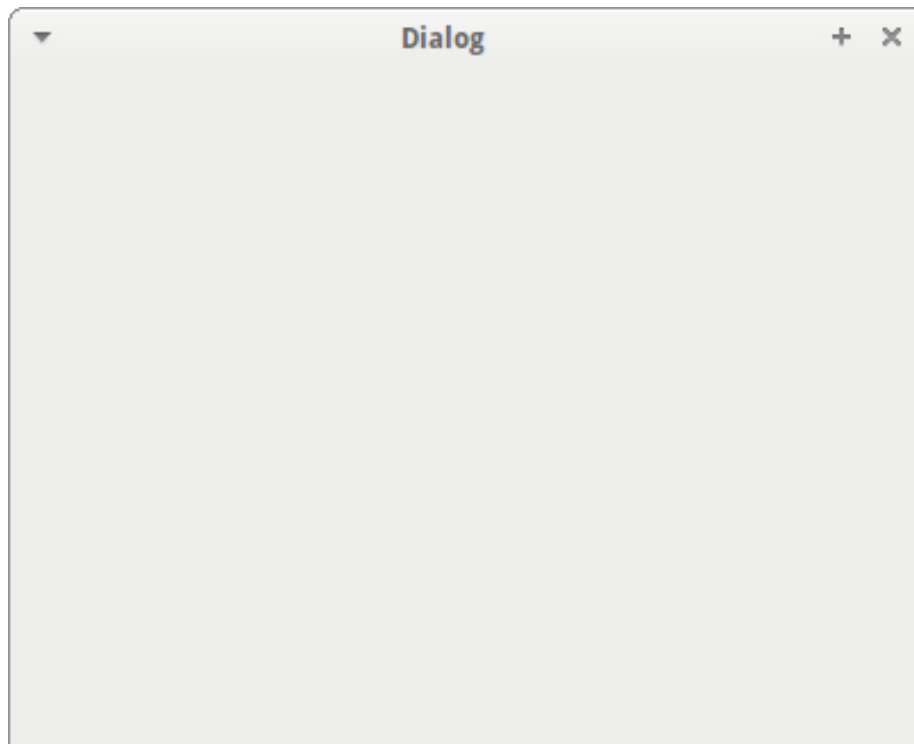


Figure 8: gi8

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## References