

Checking Code Coverage

Coco is a complete code coverage tool chain for Tcl, QML, C# and C/C++ programs that runs on macOS, Linux, and Windows.

Coco analyzes the way an application runs, as part of a test suite, for example. The results enable you to make the tests more efficient and complete.

You can:

- › Find untested code sections.
- › Find redundant tests which can then be eliminated. Coco can identify portions of the source code that are covered by a test. It can detect whether a new test covers lines in the source code that the existing tests do not cover.
- › Find dead code by displaying code that is never executed.
- › Calculate the optimum test execution order so as to maximize test coverage for each run. This is particularly useful for manual testing.
- › Analyze two separate versions of an application and compare the differences. This makes it possible to see which tests are affected by source code modifications and also to get some measure of the test coverage of a patch or hot fix.
- › Measure the execution time of applications and tests.

The experimental Coco plugin integrates Coco CoverageBrowser into Qt Creator. It enables you to analyze the test coverage by loading an instrumentation database (a .csmes file) that was generated by Coco CoverageScanner. It is currently supported only on Windows, with Coco version 6.0, or later.

To use the plugin, you must download and install Coco.

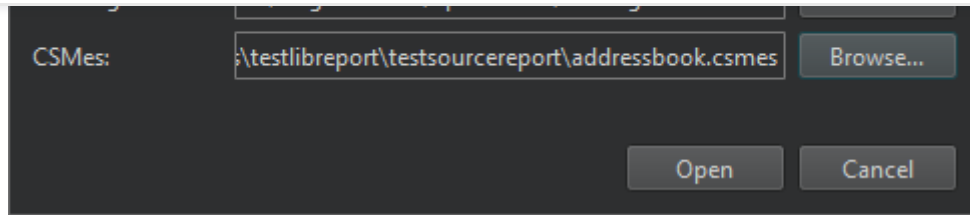
Enabling the Coco Plugin

To enable the Coco plugin:

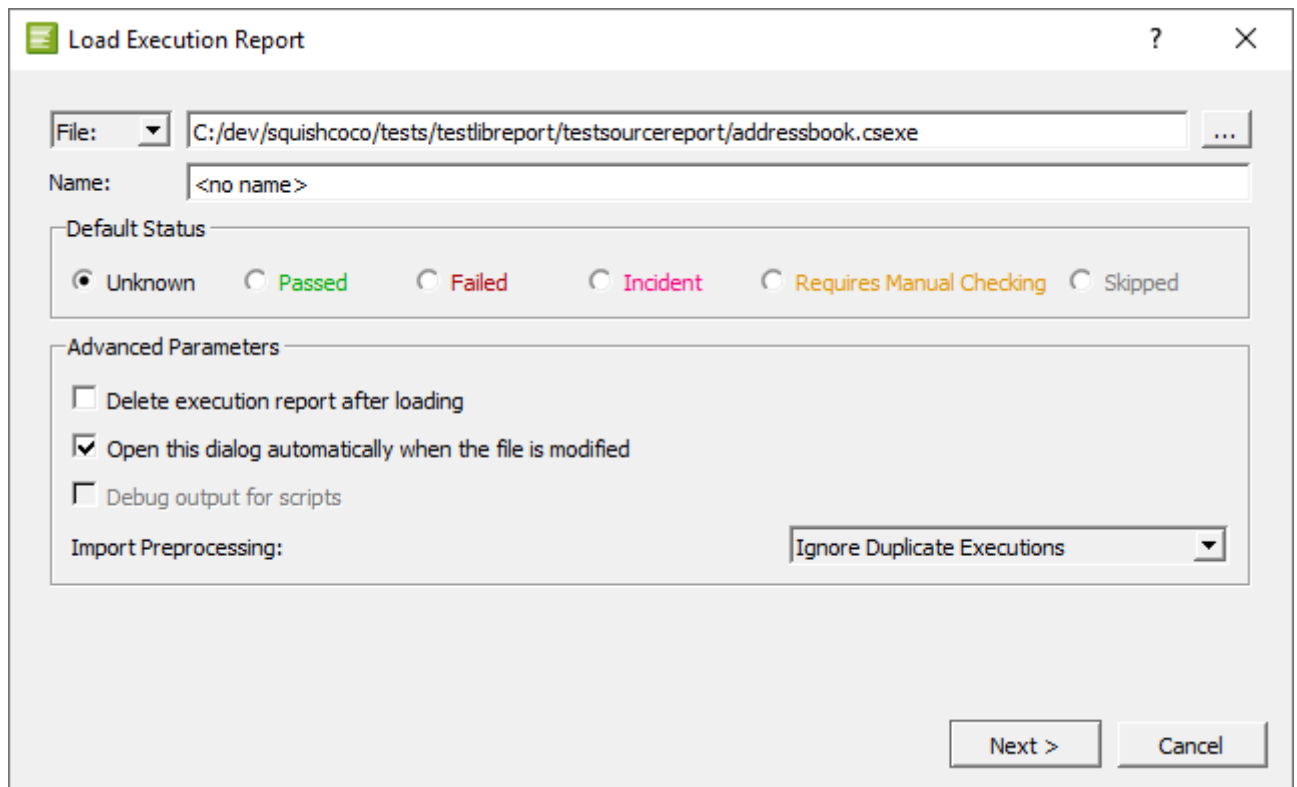
1. Select **Help > About Plugins > Utilities > Coco** to enable the plugin.
2. Select **Restart Now** to restart Qt Creator and load the plugin.

Configuring Coco

1. Select **Analyze > Squish Coco**.



2. In **CoverageBrowser**, enter the path to the Coco coverage browser to use for analyzing a .csmes file.
3. In **CSMes**, select the instrumentation database to load.
4. Select **Open** to start CoverageBrowser.
5. In CoverageBrowser, select **File > Load Execution Report** and select the .csexex for the coverage scan.



6. If you want to reuse the execution report, deselect the **Delete execution report after loading** check box.

Open the analyzed files in Qt Creator. The results of the analysis are displayed after the code in **Edit** mode. You can change the fonts and colors used for different types of results.

Changing Fonts and Colors

To change the default fonts and colors, select **Edit > Preferences > Text Editor > Font & Colors**. Create your own color scheme and select new fonts and colors for the following results:

- Code Coverage Added Code
- Partially Covered Code
- Uncovered Code
- Fully Covered Code
- Manually Validated Code
- Code Coverage Dead Code

- › Implicitly Covered Code
- › Implicit Manual Coverage Validation

For more information, see [Specifying Text Editor Settings](#).

< [Profiling QML Applications](#)

[Using Valgrind Code Analysis Tools](#) >

© 2022 The Qt Company Ltd. Documentation contributions included herein are the copyrights of their respective owners. The documentation provided herein is licensed under the terms of the [GNU Free Documentation License version 1.3](#) as published by the Free Software Foundation. Qt and respective logos are trademarks of The Qt Company Ltd in Finland and/or other countries worldwide. All other trademarks are property of their respective owners.



Contact Us

Company

- About Us
- Investors
- Newsroom
- Careers
- Office Locations

Licensing

- Terms & Conditions
- Open Source
- FAQ

Support

- Support Services
- Professional Services
- Partners
- Training

For Customers

- Support Center
- Downloads
- Qt Login
- Contact Us
- Customer Success

Community

- Contribute to Qt
- Forum
- Wiki
- Downloads

