



Testing Qt Applications with Squish

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Test Tool Requirements

- No modification to the Application Under Test (AUT) needed
- Easy creation of test scripts and verification points
- Flexible scripting language for test cases
- Data-Driven testing
- Object Map
- Toolkit support
- Modular command line tools
- Open input and output interfaces

Easy test script creation, VPs, spy

- Recording of scripts (high-level events!)
- Debugger to step through recorded scripts
- Spy to inspect the AUT
- Debugger + Spy to insert verification points

Flexible scripting language

- Tcl, Python and JavaScript
- Refactor test scripts to re-use code (functions, shared script libraries)
- Basic languages features like loops, conditions, etc.
- Powerful scripting APIs and modules available (database access, file IO, etc.)
- No limitations to tests: Calling commands like `diff`, etc.
- Allows calling Qt and AUT API

Data-Driven Testing

- Testing Methodology
- Separation between test code and test data
- Special scripting API
- No need to modify test script to add new tests

Object Map

- Another tool to keep test script code clean
- Abstract object name mapping
- Only one change instead of many when object hierarchy changes
- Allows to use nicer names in test scripts

Toolkit support

- Qt 2.3 up to 3.3 and future versions
- Windows, Linux/Unix, Mac OS X, Embedded Linux
- Recognize widgets and high-level actions to create better test scripts
- Call Qt/AUT API from test scripts
- Also have basic ActiveX, low-level X11 and Tk support

Command Line tools

- For test creation, debugging, etc.: Comfortable IDE
- To automate regression tests: Command line tools
- To integrate Squish into existing test management tools: Command line tools

Open interfaces

- Scripts and data stored in regular files
- Result logs are available in different formats such as TSV and XML
- Allows integration of test results into test management tools or e.g. creation of HTML result log and statistics
- C++ interface for custom report generators



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More information

Web: www.froglogic.com/squish

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Slide Note 1:

Slide Note 2:

Slide Note 3:

Slide Note 4:

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