**Main Page**

**mlUnit: MATLAB Unit Testing**

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**About mlUnit**

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mlUnit is a unit testing framework for the [MATLAB](http://web.archive.org/web/20080512015422/http:/www.mathworks.com/) .m language, considering the patterns of the [xUnit](http://web.archive.org/web/20080512015422/http:/c2.com/cgi/wiki?TestingFramework) family. Expressed in other words, mlUnit is the MATLAB .m language version of JUnit.

mlUnit and all associated files are released unter the GNU [General Public License (GPL)](http://web.archive.org/web/20080512015422/http:/www.gnu.org/licenses/gpl.html) as published by the [Free Software Foundation](http://web.archive.org/web/20080512015422/http:/www.fsf.org/).

**Project**

mlUnit is hosted at [Sourceforge](http://web.archive.org/web/20080512015422/http:/www.sourceforge.net/projects/mlunit). There is also a project page at [MATLAB Central](http://web.archive.org/web/20080512015422/http:/www.mathworks.com/matlabcentral/fileexchange/loadFile.do?objectId=7487&objectType=file).

**Download**

Please download mlUnit from the project's [download page](http://web.archive.org/web/20080512015422/http:/sourceforge.net/project/showfiles.php?group_id=166995&package_id=189951). The latest release is [mlUnit 1.5.1](http://web.archive.org/web/20080512015422/http:/downloads.sourceforge.net/mlunit/mlunit_1.5.1.zip).

**Quick Start**

The article [Quick Start](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/Quick_Start) is a short tutorial explaining the installation and use of mlUnit.

**More Documentation**

* [Release Notes](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/Release/1.5.1)
* [API Documentation](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/doc/mlunit/api/1.5.1/)
* [Code Metrics](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/doc/mlunit/codemetrics/1.5.1/)

**Unit Testing With MATLAB**

In the last months several unit testing frameworks were developed for [MATLAB](http://web.archive.org/web/20080512015422/http:/www.mathworks.com/). The article [Unit Testing With MATLAB](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/Unit_Testing_With_MATLAB) gives an introduction to the frameworks **MUnit** and **mlUnit** based on a comparison of [Installation](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/Unit_Testing_With_MATLAB#Installation), [Definition Of A Test Case](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/Unit_Testing_With_MATLAB#Definition_Of_A_Test_Case), [Running A Test Case](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/Unit_Testing_With_MATLAB#Running_A_Test_Case) and [Additional Features](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/Unit_Testing_With_MATLAB#Additional_Features) of both frameworks.

**Simulink Unit Testing With slUnit**

The newest release of the mlUnit project is slUnit. slUnit is a unit testing framework for the model-based design tool [Simulink](http://web.archive.org/web/20080512015422/http:/www.mathworks.com/products/simulink/), considering the patterns of the xUnit family. [Find Out More!](http://web.archive.org/web/20080512015422/http:/slunit.dohmke.de/)

**Question, Comments, Bugs**

If you have a question, a comment or a bug report, please send me an [email](http://web.archive.org/web/20080512015422/http:/sourceforge.net/users/thomi/). Usually I try to answer within 24 hours. Spam and other crap goes automatically to the trash bin, so please use a precise subject.

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**Toolbox**

* [Printable version](http://web.archive.org/web/20080512015422/http:/mlunit.dohmke.de/index.php?title=Main_Page&printable=yes)
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**Quick Start**

**mlUnit: MATLAB Unit Testing**

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**What Is mlUnit?**

mlUnit is a unit testing framework for the [MATLAB](http://web.archive.org/web/20080302072052/http:/www.mathworks.com/) .m language, considering the patterns of the [xUnit](http://web.archive.org/web/20080302072052/http:/c2.com/cgi/wiki?TestingFramework) family. Expressed in other words, mlUnit is the MATLAB .m language version of JUnit.

mlUnit and all associated files are released unter the GNU [General Public License (GPL)](http://web.archive.org/web/20080302072052/http:/www.gnu.org/licenses/gpl.html) as published by the [Free Software Foundation](http://web.archive.org/web/20080302072052/http:/www.fsf.org/).

**Installation**

[Download](http://web.archive.org/web/20080302072052/http:/sourceforge.net/project/showfiles.php?group_id=166995&package_id=189951) and unzip the zip file and add the directories to the MATLAB path:

addpath('$MLUNIT\src');

addpath('$MLUNIT\test');

Replace $MLUNIT with the root mlUnit directory.

**How To Test?**

As an example a test for the built-in sin function is written:

1. Create a new directory @test\_sin:
2. mkdir @test\_sin

cd @test\_sin

1. Create a new .m file test\_sin.m (the constructor):

edit test\_sin.m

1. The test case test\_sin is inherited from the class test\_case, so add the following lines to test\_sin.m:
2. function self = test\_sin(name)
3. tc = test\_case(name);

self = class(struct([]), 'test\_sin', tc);

1. The first test should check, that sin(0) = 0. Therefore create a new file test\_null.m (the first test) and add the following lines:
2. function self = test\_null(self)

assert\_equals(0, sin(0));

1. Run the test:
2. cd ..
3. runner = text\_test\_runner(1, 1);
4. loader = test\_loader;

run(runner, load\_tests\_from\_test\_case(loader, 'test\_sin'));

1. You should see something like this:
2. .
3. ----------------------------------------------------------------------
4. Ran 1 test in 0.010s

OK

1. Add more tests, e.g. test\_sin\_cos.m, which checks the correlation of cos and sin:
2. function self = test\_sin\_cos(self)

assert\_equals(cos(0), sin(pi/2));

1. Run the tests:

run(runner, load\_tests\_from\_test\_case(loader, 'test\_sin'));

1. You should see something like this:
2. .
3. ----------------------------------------------------------------------
4. Ran 2 tests in 0.010s

OK

1. Try other parameters of text\_test\_runner:
2. runner = text\_test\_runner(1, 2);
3. run(runner, load\_tests\_from\_test\_case(loader, 'test\_sin'));</pre>
4. You should see something like this:
5. test\_null(test\_sin) ... OK
6. test\_sin\_cos(test\_sin) ... OK
7. ----------------------------------------------------------------------
8. Ran 2 tests in 0.020s

OK

1. Read more in the help texts of the classes, e.g.:
2. help text\_test\_runner

**mlUnit Tests**

As mlUnit was developed test-driven, there are a number of tests in the test directory, which can be run by

test\_mlunit;

**Question, Comments, Bugs**

If you have a question, a comment or a bug report, please send me an [email](http://web.archive.org/web/20080302072052/http:/sourceforge.net/users/thomi/). Usually I try to answer within 24 hours. Spam and other crap goes automatically to the trash bin, so please use a precise subject.

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**Main Page**

**mlProj: Managing MATLAB Projects**

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**About mlProj**

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mlProj is a tool for managing [MATLAB](http://web.archive.org/web/20091025192138/http:/www.mathworks.com/products/matlab/) projects. It considers

* all opened m-files,
* all figure windows,
* the MATLAB path, and
* the MATLAB workspace,

which are saved when a project is closed, and loaded when the project is opened. The projects are shown as a tree, which provides simple access to directories and files of the active project. The features include

* add a new project,
* open, save and close projects,
* open files in the MATLAB editor,
* delete files, directories and projects,
* rename files and directories,
* reload the tree view, and
* add user-defined items to the mlProj menu.

mlProj and all associated files are released unter the GNU [General Public License (GPL)](http://web.archive.org/web/20091025192138/http:/www.gnu.org/licenses/gpl.html) as published by the [Free Software Foundation](http://web.archive.org/web/20091025192138/http:/www.fsf.org/).

**Project**

mlProj is hosted as a subproject of [mlUnit](http://web.archive.org/web/20091025192138/http:/mlunit.dohmke.de/) at [Sourceforge](http://web.archive.org/web/20091025192138/http:/www.sourceforge.net/projects/mlunit).

**Download**

Please download mlProj from the project's [download page](http://web.archive.org/web/20091025192138/http:/sourceforge.net/project/showfiles.php?group_id=166995&package_id=219261). The latest release is [mlProj 1.0-beta1](http://web.archive.org/web/20091025192138/http:/downloads.sourceforge.net/mlunit/mlproj_1.0-beta1.zip).

**Documentation**

* [User Guide](http://web.archive.org/web/20091025192138/http:/mlproj.dohmke.de/User_Guide)
* [API Documentation](http://web.archive.org/web/20091025192138/http:/mlproj.dohmke.de/doc/mlproj/api/1.0-beta1/)
* [Code Metrics](http://web.archive.org/web/20091025192138/http:/mlproj.dohmke.de/doc/mlproj/codemetrics/1.0-beta1/)

**Question, Comments, Bugs**

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