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# **unitth Documentation**

*Release 0.0.12*

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This package provides a Python method and command line interface for generating HTML reports of unit test histories. The package is a Python interface for the [UnitTH](#).



## 1.1 Installation

### 1.1.1 Prerequisites

- Python
- Pip

### 1.1.2 Latest revision from GitHub

Run the following command to install the latest version from GitHub:

```
pip install git+git://github.com/KarrLab/unitth.git#egg=unitth
```

### 1.1.3 Latest release From PyPI

Run the following command to install the latest release from PyPI:

```
pip install unitth
```

## 1.2 Command line interface documentation

```
usage: unitth (sub-commands ...) [options ...] {arguments ...}
```

```
Generate HTML unit test history report
```

```
positional arguments:
```

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xml_report_dir	Parent directory of XML reports of individual builds to generate a history report of
optional arguments:	
-h, --help	show this help message and exit
--debug	toggle debug output
--quiet	suppress all output
--xml-report-filter [XML_REPORT_FILTER]	Starts-with filter for individual reports with `xml-report-dir` that should be included in the history report. Set `xml-report-filter` to to include all files/subdirectories in the history report.
--html-report-path HTML_REPORT_PATH	Directory of HTML reports of individual builds(relative to XML directories of individual builds)
--generate-exec-time-graphs GENERATE_EXEC_TIME_GRAPHS	Whether execution time graphs shall be generated
--html-report-dir HTML_REPORT_DIR	directory to store generated HTML history report
--initial_java_heap_size INITIAL_JAVA_HEAP_SIZE	Initial Java heap size
--maximum_java_heap_size MAXIMUM_JAVA_HEAP_SIZE	Maximum Java heap size

## 1.3 Examples

### 1.3.1 Command line

```
mkdir reports
mkdir reports/nose
mkdir reports/unitth
mkdir reports/html

nosetests tests/test_unitth.py:TestDummy.test_dummy_test --with-xunit --xunit-file_
↪reports/nose/1.xml
nosetests tests/test_unitth.py:TestDummy.test_dummy_test --with-xunit --xunit-file_
↪reports/nose/2.xml

nose2unitth reports/nose/1.xml reports/unitth/1
nose2unitth reports/nose/2.xml reports/unitth/2

junit2html reports/nose/1.xml reports/unitth/1/index.html
junit2html reports/nose/2.xml reports/unitth/2/index.html

unitth --xml_report_filter --html_report_dir reports/html "reports/unitth/*"
```

### 1.3.2 Python

```
from nose2unitth.core import Converter as nose2unitth
from junit2htmlreport.parser import Junit as JunitParser
```

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```

from unitth.core import UnitTH
import os
import subprocess

os.mkdir('reports')
os.mkdir('reports/nose')
os.mkdir('reports/unitth')
os.mkdir('reports/html')

subprocess.check_call(['nosetests', 'tests/test_unitth.py:TestDummy.test_dummy_test',
                      '--with-xunit', '--xunit-file', 'reports/nose/1.xml'])
subprocess.check_call(['nosetests', 'tests/test_unitth.py:TestDummy.test_dummy_test',
                      '--with-xunit', '--xunit-file', 'reports/nose/2.xml'])

nose2unitth.run('reports/nose/1.xml', 'reports/unitth/1')
nose2unitth.run('reports/nose/2.xml', 'reports/unitth/2')

with open('reports/unitth/1/index.html', 'wb') as html_file:
    print >> html_file, JunitParser('reports/nose/1.xml').html()
with open('reports/unitth/2/index.html', 'wb') as html_file:
    print >> html_file, JunitParser('reports/nose/2.xml').html()

UnitTH.run('reports/unitth/*', xml_report_filter='', html_report_dir='reports/html')

```

## 1.4 About

### 1.4.1 License

The software is released under the MIT license

The MIT License (MIT)

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### 1.4.2 Development team

This package was developed by the [Karr Lab](#) at the Icahn School of Medicine at Mount Sinai in New York, USA.

### 1.4.3 Acknowledgements

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### 1.4.4 Questions and comments

Please contact the [Karr Lab](#) with any questions or comments.