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# **matrix**

## ***Release 2.0.1***

**Mar 04, 2017**



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# CHAPTER 1

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## Overview

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docs	
tests	
package	

Generic matrix generator.

- Free software: BSD license

## Installation

```
pip install matrix
```

## Documentation

<https://python-matrix.readthedocs.io/>

## Development

To run the all tests run:

```
tox
```

Note, to combine the coverage data from all the tox environments run:

Windows	<pre>set PYTEST_ADDOPTS=--cov-append tox</pre>
Other	<pre>PYTEST_ADDOPTS=--cov-append tox</pre>

## CHAPTER 2

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### Installation

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At the command line:

```
pip install matrix
```





## CHAPTER 3

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### Usage

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To use matrix in a project:

```
import matrix
```



#### **matrix**

`matrix.from_config(config)`

Generate a matrix from a configuration dictionary.

`matrix.from_file(filename, section='matrix')`

Generate a matrix from a .ini file. Configuration is expected to be in a `[matrix]` section.

`matrix.from_string(string, section='matrix')`

Generate a matrix from a .ini file. Configuration is expected to be in a `[matrix]` section.



Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

### Bug reports

When [reporting a bug](#) please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

### Documentation improvements

matrix could always use more documentation, whether as part of the official matrix docs, in docstrings, or even on the web in blog posts, articles, and such.

### Feature requests and feedback

The best way to send feedback is to file an issue at <https://github.com/ionelmc/python-matrix/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that code contributions are welcome :)

## Development

To set up *python-matrix* for local development:

1. Fork [python-matrix](#) (look for the “Fork” button).
2. Clone your fork locally:

```
git clone git@github.com:your_name_here/python-matrix.git
```

3. Create a branch for local development:

```
git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

4. When you’re done making changes, run all the checks, doc builder and spell checker with `tox` one command:

```
tox
```

5. Commit your changes and push your branch to GitHub:

```
git add .
git commit -m "Your detailed description of your changes."
git push origin name-of-your-bugfix-or-feature
```

6. Submit a pull request through the GitHub website.

## Pull Request Guidelines

If you need some code review or feedback while you’re developing the code just make the pull request.

For merging, you should:

1. Include passing tests (run `tox`)<sup>1</sup>.
2. Update documentation when there’s new API, functionality etc.
3. Add a note to `CHANGELOG.rst` about the changes.
4. Add yourself to `AUTHORS.rst`.

## Tips

To run a subset of tests:

```
tox -e envname -- py.test -k test_myfeature
```

To run all the test environments in *parallel* (you need to `pip install detox`):

```
detox
```

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<sup>1</sup> If you don’t have all the necessary python versions available locally you can rely on Travis - it will [run the tests](#) for each change you add in the pull request.  
It will be slower though ...

## CHAPTER 6

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### Authors

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- Ionel Cristian Mărieș - <https://blog.ionelmc.ro>





### 2.0.0 (2016-02-03)

- Switch to configparser2 (the Python 3.5 backport)
- Drop Python 2.6 support.

### 1.3.1 (2015-04-15)

- Fix the samefile check on windows.

### 1.3.0 (2015-04-15)

- Added an optional `[cli]` extra (use `pip install matrix[cli]`) that enables a `matrix-render` command. The new command loads configuration and passes the generated matrix to the given Jinja2 templates.

### 1.2.0 (2015-04-03)

- Fix handling when having aliased entries that have empty (“-”) values.

### 1.1.0 (2015-02-12)

- Add support for empty inclusions/exclusions.

## **1.0.0 (2014-08-09)**

- Fix Python 2.6 support.
- Add support for really empty entries (leave completely empty instead of “-”)

## **0.5.0 (2014-08-09)**

- Fix Python 3 support.

## CHAPTER 8

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### Indices and tables

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- `modindex`
- `search`



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