How to Open Source your Python Project

A beginner's guide

$ whoami

- Bearded
- Python Web Dev
- Based in Oxford
- Twitter: @lurst
- Github: lurst

Options:

```
$ mv $PROJ /dev/null


$ git clone ssh://github.com/<user>/$PROJ
$ mkvirtual env $PROJ
$ pip install -r requirements.txt
```

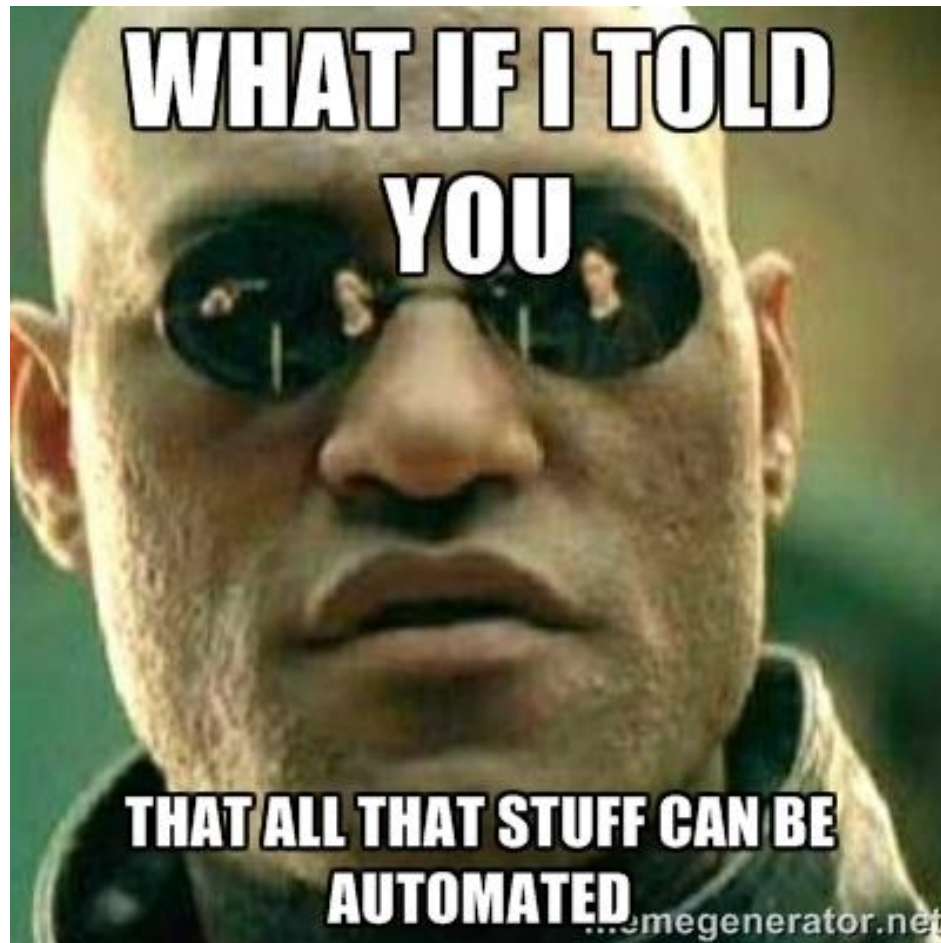# Or….

$ pip install $PROJ

Project Layout

```
[~/dev/txt2bootstrap]$ tree -L 2

.
├── LICENSE
├── README.md
├── bin
│   └── txt2bootstrap
├── docs
│   ├── Makefile
│   ├── _build
│   ├── _static
│   ├── _templates
│   ├── conf.py
│   └── index.rst
└── setup.py
```

WHAT IF I TOLD YOU

THAT ALL THAT STUFF CAN BE AUTOMATED

```
$ cookiecutter https://github.com/audreyr/cookiecutter-pypackage.git
cookiecutter https://github.com/audreyr/cookiecutter-pypackage.git
     *[master]
Cloning into 'cookiecutter-pypackage'...
remote: Counting objects: 241, done.
remote: Compressing objects: 100% (147/147), done.
remote: Total 241 (delta 114), reused 190 (delta 81)
Receiving objects: 100% (241/241), 37.86 KiB | 0 bytes/s, done.
Resolving deltas: 100% (114/114), done.
Checking connectivity... done
full_name (default is "Audrey Roy")?
(...)
```

```
$ tree boilerplate/
boilerplate
├── AUTHORS.rst
├── MANIFEST.in
├── Makefile
├── README.rst
├── boilerplate
│   ├── __init__.py
│   └── boilerplate.py
├── docs
│   ├── Makefile
│   ├── authors.rst
│   ├── conf.py
│   └── usage.rst
├── requirements.txt
├── setup.py
├── tests
│   ├── __init__.py
│   └── test_boilerplate.py
└── tox.ini
```

setup.py

```
[~/dev/txt2bootstrap]$ cat setup.py
from setuptools import setup



setup(
    name='txt2bootstrap',
    version='1.0',
    packages=[],
    license='MIT',
    long_description=open('README.md').read(),
    scripts=['bin/txt2bootstrap'],
    install_requires=[],
    (...)
)
```

Sphinx

```
(txt2bootstrap)[~/dev/txt2bootstrap]$ sphinx-quickstart
Welcome to the Sphinx 1.1.3 quickstart utility.

Please enter values for the following settings (just press Enter to
accept a default value, if one is given in brackets).

Enter the root path for documentation.
> Root path for the documentation [.]: docs
...
```

Sphinx

```
(txt2bootstrap)[~/dev/txt2bootstrap/docs]$ make html
sphinx-build -b html -d _build/doctrees   . _build/html
Running Sphinx v1.1.3
loading pickled environment... done
building [html]: targets for 1 source files that are out of date
updating environment: 0 added, 1 changed, 0 removed
reading sources... [100%] index
looking for now-outdated files... none found
pickling environment... done
checking consistency... done
preparing documents... done
writing output... [100%] index
...
```

Read the Docs (http://readthedocs.org)

- Register
- Create your project
- Configure it
- Build it

Create/Configure your project

Repo:

```
https://github.com/LuRsT/txt2bo
```

URL for your code (hg or git). Ex. http://github.com/ericholscher/django-kong.git

Python configuration file:

```
docs/conf.py
```

Path from project root to conf.py file (ex. docs/conf.py). Leave blank if you want us to find it for you.

Build it

Recent Builds

Build Version: `latest`

Passed version latest (pdf)   16 hours, 41 minutes ago

Passed version latest (html)   16 hours, 42 minutes ago

Failed version latest (pdf)   16 hours, 43 minutes ago

Failed version latest (html)   16 hours, 43 minutes ago

Failed version latest (pdf)   16 hours, 45 minutes ago

Failed version latest (html)   16 hours, 45 minutes ago

Pypi (http://pypi.python.org)

- Register/Login
- Build and upload
- You're awesome!

Build and Upload

```
(txt2bootstrap)[~/dev/txt2bootstrap]$ python setup.py sdist upload

running sdist

running egg_info

writing txt2bootstrap.egg-info/PKG-INFO

writing top-level names to txt2bootstrap.egg-info/top_level.txt

writing dependency_links to txt2bootstrap.egg-info/dependency_links.txt

reading manifest file 'txt2bootstrap.egg-info/SOURCES.txt'

writing manifest file 'txt2bootstrap.egg-info/SOURCES.txt'

running check

creating txt2bootstrap-1.0

creating txt2bootstrap-1.0/bin

(...)

Submitting dist/txt2bootstrap-1.0.tar.gz to http://pypi.python.org/pypi

Server response (200): OK
```

txt2bootstrap 1.0

Package: roles | releases | view | edit | files | urls | PKG-INFO

Translates one or many Text/Markdown/Rest/HTML to html with bootstrap and opens the browser for you.

Instructions

Just get the script and put it on your bin folder or somewhere inside $PATH:

```
wget https://raw.github.com/LuRsT/txt2bootstrap/master/txt2bootstrap.py
mv txt2bootstrap.py ~/bin
```

Threre's no requirement, unless you want to view markdown or ReST files, which if you do, you'll need to install each needed module:

```
Markdown files -> Markdown
ReST files     -> docutils
```

If you don't have any of them, the script will fallback to simple text, printing it directly (if there's any html, it will be shown prettier by your browser).

If you have a problem with the selected browser, change the env var $BROWSER to the browser that you want to be opened.

Thank you

Questions...?