

# Publish Your Code So Others Can Use It in ~~5~~<sup>4</sup> Easy Steps

Marko Samastur  
samastur.com

Cookiecutter script & other information:

<https://github.com/audreyr/cookiecutter-pypackage>

<https://github.com/samastur/cookiecutter-pypackage/wiki/Resources>

Slides:

<https://speakerdeck.com/samastur/publish-your-code-in-4-easy-steps>

```
/
↳ setup.py
↳ pystart/
↳ tests/
↳ docs/
```

```
from setuptools import setup
```

```
DESCRIPTION = ""Dummy Python package demonstrating minimal package set up."  
LONG_DESCRIPTION = DESCRIPTION
```

```
setup(  
    author="Marko Samastur",  
    author_email="markos@gaivo.net",  
    name='pystart',  
    version='0.1',  
    description=DESCRIPTION,  
    long_description=LONG_DESCRIPTION,  
    url='https://github.com/samastur/pystart/',  
    platforms=['OS Independent'],  
    license='MIT License',  
    classifiers=[  
        'Development Status :: 5 - Production/Stable',  
        'License :: OSI Approved :: MIT License',  
        'Programming Language :: Python :: 3.5',  
        'Topic :: Utilities',  
    ],  
    packages=['pystart']  
)
```

```
from setuptools import setup
```

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DESCRIPTION = "Dummy Python package demonstrating minimal package set up."  
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```

```
setup(  
    author="Marko Samastur",  
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        'Development Status :: 5 - Production/Stable',  
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        'Programming Language :: Python :: 3.5',  
        'Topic :: Utilities',  
    ],  
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    version='0.1',  
    description=DESCRIPTION,  
    long_description=LONG_DESCRIPTION,  
    url='https://github.com/samastur/pystart/',  
    platforms=['OS Independent'],  
    license='MIT License',  
    classifiers=[  
        'Development Status :: 5 - Production/Stable',  
        ....  
    ],  
    packages=['pystart'],  
    install_required=[  
        'PyYAML>=3.11',  
    ]  
)
```

# Testing

with `py.test`



```
markos@zeus: ~/work/pystart (zsh)
~/work/pystart (zsh)  ~/work/pystart (zsh)
INSERT zeus markos @ pystart ~/work/pystart py.test master
===== test session starts =====
platform darwin -- Python 2.7.11, pytest-2.9.1, py-1.4.31, pluggy-0.3.1
rootdir: /Users/markos/work/pystart, inifile:
plugins: cov-2.2.1
collected 2 items

tests/test_module.py ..

===== 2 passed in 0.02 seconds =====
INSERT zeus markos @ pystart ~/work/pystart [] master
```

Tox

# tox.ini

```
# Tox (http://tox.testrun.org/) is a tool for running tests  
# in multiple virtualenvs.
```

```
[tox]  
envlist = py27, py35, pypy
```

```
[testenv]  
deps =  
    pytest
```

```
commands =  
    py.test
```

# tox.ini

```
# Tox (http://tox.testrun.org/) is a tool for running tests  
# in multiple virtualenvs.
```

```
[tox]
```

```
envlist = py27, py35, pypy
```

```
[testenv]
```

```
deps =  
    pytest
```

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commands =  
    py.test
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# tox.ini

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# Tox (http://tox.testrun.org/) is a tool for running tests  
# in multiple virtualenvs.
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## **[tox]**

```
envlist = py27, py35, pypy
```

## **[testenv]**

```
deps =
```

```
    pytest
```

```
commands =
```

```
    py.test
```

# tox.ini

```
# Tox (http://tox.testrun.org/) is a tool for running tests  
# in multiple virtualenvs.
```

## **[tox]**

```
envlist = py27, py35, pypy
```

## **[testenv]**

```
deps =  
    pytest
```

```
commands =  
    py.test
```

```
collected 2 items
```

```
tests/test_module.py ..
```

```
===== 2 passed in 0.02 seconds =====
```

```
py35 inst-nodeps: /Users/markos/work/pystart/.tox/dist/pystart-0.1.zip
```

```
py35 installed: You are using pip version 8.1.1, however version 8.1.2 is available.,You should consider upgrading via the 'pip in  
stall --upgrade pip' command.,coverage==4.0.3,py==1.4.31,pystart==0.1,pytest==2.9.1,pytest-cov==2.2.1
```

```
py35 runtests: PYTHONHASHSEED='2546398686'
```

```
py35 runtests: commands[0] | py.test
```

```
===== test session starts =====
```

```
platform darwin -- Python 3.5.0, pytest-2.9.1, py-1.4.31, pluggy-0.3.1
```

```
rootdir: /Users/markos/work/pystart, inifile:
```

```
plugins: cov-2.2.1
```

```
collected 2 items
```

```
tests/test_module.py ..
```

```
===== 2 passed in 0.02 seconds =====
```

```
pypy inst-nodeps: /Users/markos/work/pystart/.tox/dist/pystart-0.1.zip
```

```
pypy installed: You are using pip version 8.1.1, however version 8.1.2 is available.,You should consider upgrading via the 'pip in  
stall --upgrade pip' command.,cffi==1.3.1,coverage==4.0.3,greenlet==0.4.9,py==1.4.31,pystart==0.1,pytest==2.9.1,pytest-cov==2.2.1,  
readline==6.2.4.1
```

```
pypy runtests: PYTHONHASHSEED='2546398686'
```

```
pypy runtests: commands[0] | py.test
```

```
===== test session starts =====
```

```
platform darwin -- Python 2.7.10[pypy-4.0.1-final], pytest-2.9.1, py-1.4.31, pluggy-0.3.1
```

```
rootdir: /Users/markos/work/pystart, inifile:
```

```
plugins: cov-2.2.1
```

```
collected 2 items
```

```
tests/test_module.py ..
```

```
===== 2 passed in 0.06 seconds =====
```

```
----- summary -----
```

```
py27: commands succeeded
```

```
py35: commands succeeded
```

```
pypy: commands succeeded
```

```
congratulations :)
```

```
INSERT zeus markos @ pystart ~/work/pystart 1
```

```
master
```

# Continuous integration

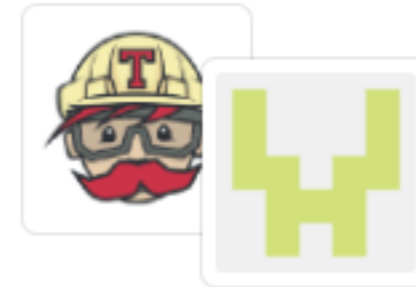
with Travis-CI & [travis-ci.org](https://travis-ci.org)










# Authorize application

Travis CI by @travis-ci would like permission to access your account



## Review permissions

	<b>Personal user data</b> Email addresses (read-only)	▼
	<b>Repository webhooks and services</b> Read and write access	▼
	<b>Commit statuses</b> Read and write access	▼
	<b>Deployments</b> Manage deployments and deployment status	▼
	<b>Organizations and teams</b> Read-only access	▼

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## Travis CI

No description

[Visit application's website](#)

[Learn more about OAuth](#)





dopeycat  
Repositories 3

Token:

Sync account

# dopeycat

We're only showing your public repositories. You can find your private projects on [travis-ci.com](https://travis-ci.com).

## Organizations

You are not currently a member of any organization.

Is an organization missing?  
[Review and add your authorized organizations.](#)

The guide consists of three numbered steps:

- 1** Flick the repository switch on: An illustration of a repository switch with a green checkmark and a gear icon labeled 'tra'.
- 2** Add .travis.yml file to your repository: An illustration of a dark circle containing a snippet of .travis.yml code:
 

```
language: ruby
rvm:
  - "1.8.7"
  - "1.8.2"
  - "1.8.3"
  - jruby-20mode # 30s
  - jruby-20mode # 20s
  - rbx
script: bundle
```
- 3** Trigger your first build with a git push: An illustration of a dark circle containing the terminal command `$ git push origin`.

- dopeycat/deus\_in\_machina
- dopeycat/perpetuum\_mobile

# .travis.yml

```
language: python
matrix:
  include:
    - python: "2.7"
      env: TOXENV=py27
    - python: "3.5"
      env: TOXENV=py35

sudo: false # Use container-based infrastructure

# command to install dependencies
install:
  - pip install tox

# command to run tests
script:
  tox
```

# .travis.yml

## **language: python**

matrix:

include:

- python: "2.7"  
env: TOXENV=py27
- python: "3.5"  
env: TOXENV=py35

sudo: false # Use container-based infrastructure

# command to install dependencies

install:

- pip install tox

# command to run tests

script:

tox

# .travis.yml

```
language: python
```

```
matrix:
```

```
  include:
```

```
    - python: "2.7"
```

```
      env: TOXENV=py27
```

```
    - python: "3.5"
```

```
      env: TOXENV=py35
```

```
sudo: false # Use container-based infrastructure
```

```
# command to install dependencies
```

```
install:
```

```
  - pip install tox
```

```
# command to run tests
```

```
script:
```

```
  tox
```

# .travis.yml

```
language: python
matrix:
  include:
    - python: "2.7"
      env: TOXENV=py27
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sudo: false # Use container-based infrastructure

# command to install dependencies
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# command to run tests
script:
  tox
```

# .travis.yml

```
language: python
matrix:
  include:
    - python: "2.7"
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sudo: false # Use container-based infrastructure

# command to install dependencies
install:
  - pip install tox

# command to run tests
script:
tox
```



Search all repositories

# samastur / pyimagediet



Current Branches Build History Pull Requests

More options

## My Repositories +

✓ # 9

Duration: 2 min 11 sec  
Finished: 19 minutes ago

✓ # 80

Duration: 2 min 46 sec  
Finished: about 2 hours ago

✗ # 16

Duration: 2 min  
Finished: a day ago

✓ # 4

Duration: 1 min 54 sec  
Finished: 6 days ago

! # 3

Duration: 25 sec  
Finished: 6 days ago

✓ master Fix diet command line

🔗 #57 passed



...which failed to execute because script file wasn't added to the package. Fixed with code reorganisation. Also bumped

Elapsed time 25 min 52 sec  
Total time 11 min 41 sec

📅 2 months ago

📄 Commit 480c6e1

📄 Compare 54696bd..480c6e1

MS Marko Samastur authored and committed

## Build Jobs

✓ # 57.1	</> Python: 2.6	📦 TOXENV=py26 DIET_TOOLS_DIR=/u ⌚ 1 min 42 sec
✓ # 57.2	</> Python: 2.7	📦 TOXENV=py27 DIET_TOOLS_DIR=/u ⌚ 1 min 47 sec
✓ # 57.3	</> Python: 3.3	📦 TOXENV=py33 DIET_TOOLS_DIR=/u ⌚ 1 min 40 sec
✓ # 57.4	</> Python: 3.4	📦 TOXENV=py34 DIET_TOOLS_DIR=/u ⌚ 1 min 44 sec
✓ # 57.5	</> Python: 3.5	📦 TOXENV=py35 DIET_TOOLS_DIR=/u ⌚ 1 min 51 sec
✓ # 57.6	</> Python: pypy	📦 TOXENV=pypy DIET_TOOLS_DIR=/u ⌚ 2 min 57 sec



# Documentation

published on [ReadTheDocs.org](https://ReadTheDocs.org)



Successfully signed in as dopeycat.

## Ready to share your documentation?

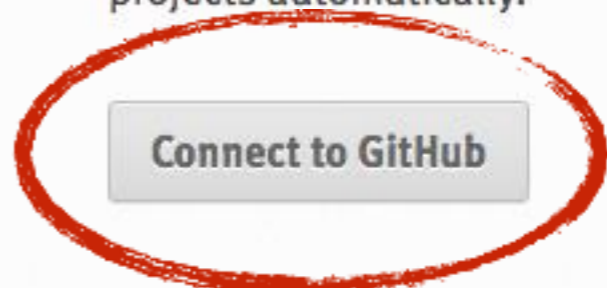
You don't have any projects yet, but you can start building documentation by importing one. Not sure how to start documenting your project? Check out the [Getting Started Guide](#) to learn how.

Want to try a demo? [Import our own demo project](#).

[Import a Project](#)

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Check out the [documentation for Read the Docs](#). It contains lots of information about how to get the most out of RTD.



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	<b>Personal user data</b> Email addresses (read-only)	▼
	<b>Repository webhooks and services</b> Admin access	▼
	<b>Commit statuses</b> Read and write access	▼
	<b>Organizations and teams</b> Read-only access	▼

[Authorize application](#)

## Read the Docs Community (.org)

Read the Docs builds and hosts documentation for software projects, creating usable, searchable, and up to date docs for your users.

[Visit application's website](#)

[Learn more about OAuth](#)



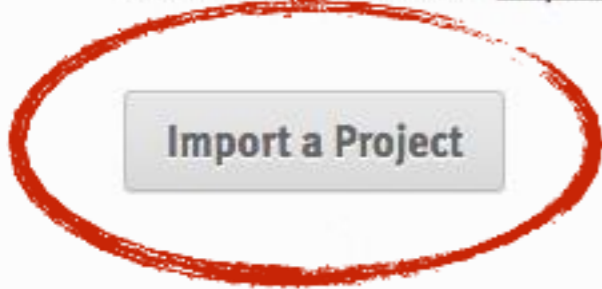


Successfully signed in as dopeycat.

## Ready to share your documentation?

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**Import a Project**

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### Thanks!

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### Learn More

Check out the [documentation for Read the Docs](#). It contains lots of information about how to get the most out of RTD.

## Import a Repository



You can import your project manually if it isn't listed here or connected to one of your accounts.

-  dopeycat/deus\_in\_machina   
[https://github.com/dopeycat/deus\\_in\\_machina.git](https://github.com/dopeycat/deus_in_machina.git)
-  dopeycat/perpetuum\_mobile   
[https://github.com/dopeycat/perpetuum\\_mobile.git](https://github.com/dopeycat/perpetuum_mobile.git)

**Import Manually**

[« previous](#) [next »](#)

---

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[GitHub](#) | [Docs](#). Made by [humans](#). Funded by [readers like you](#).

English [English]  **Change Language**

## Project Details

To import a project, start by entering a few details about your repository. More advanced project options can be configured if you select **Edit advanced project options**.

**Name:**

**Repository URL:**

  
Hosted documentation repository URL

**Repository type:**

Edit advanced project options:

[Overview](#)[Downloads](#)[Search](#)[Builds](#)[Versions](#)[Admin](#)

Webhook activated

## Your documentation is building

You'll be able to view your documentation in a minute or two, once your project is done building.

### Versions

### Build a version

### Repository

[https://github.com/dopeycat/deus\\_in\\_machina.git](https://github.com/dopeycat/deus_in_machina.git)

### Last Built

No builds yet

### Owners



### Badge

docs no builds

### Project Privacy Level

Public

### Short URLs

[deus-in-machina.readthedocs.org](https://deus-in-machina.readthedocs.org)

[deus-in-machina.rtd.io](https://deus-in-machina.rtd.io)

```
$ pip install sphinx sphinx-autobuild
```



```
$ cd docs  
$ sphinx-quickstart
```

# conf.py

```
extensions = [  
    'sphinx.ext.autodoc',  
    'sphinx.ext.intersphinx',  
]
```

\$ make html

# Publish

on PyPI at <http://pypi.python.org/>

```
$ python setup.py register
```

```
$ python setup.py sdist bdist_wheel upload
```

# .pypirc

```
[distutils]  
index-servers =  
    pypi
```

```
[pypi]  
repository: https://pypi.python.org/pypi  
username:<your username>
```

...almost done...



```
$ pip install cookiecutter
```

```
$ cookiecutter gh:audreyr/cookiecutter-pypackage
```

```
$ pip install cookiecutter
$ cookiecutter gh:audreyr/cookiecutter-pypackage
full_name [Audrey Roy Greenfeld]: Marko Samastur
email [aroy@alum.mit.edu]: marko@samastur.com
github_username [audreyr]: samastur
project_name [Python Boilerplate]: Python Start Package
project_slug [python_start_package]: pystart
project_short_description [Python Boilerplate contains all the boilerplate you
need to create a Python package.]:
release_date [2016-05-30]:
pypi_username [samastur]:
year [2016]:
version [0.1.0]:
use_pytest [n]: y
use_coveralls_with_pytest [y]: y
use_pypi_deployment_with_travis [y]:
```

# Thank you!

Cookiecutter script & other information:

<https://github.com/audreyr/cookiecutter-pypackage>

<https://github.com/samastur/cookiecutter-pypackage/wiki/Resources>

Slides:

<https://speakerdeck.com/samastur/publish-your-code-in-4-easy-steps>

Questions, comments & work offers:

[marko@samastur.com](mailto:marko@samastur.com)