Publish Your Code So Others Can Use It in 5 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
/  
  ᵗ₄  setup.py
  ᵗ₄  pystart/
  ᵗ₄  tests/
  ᵗ₄  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']
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    classifiers=[
        'Development Status :: 5 - Production/Stable',
        ...
    ],
    packages=['pystart'],
    install_required=[
        'PyYAML>=3.11',
    ]
)
Testing
with py.test
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 =========================
Tox
# Tox (http://tox.testrun.org/) is a tool for running tests
# in multiple virtualenvs.

[tox]
envlist = py27, py35, pypy

[testenv]
deps =
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commands =
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    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 install --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='12546398686'
p35 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 install --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='12546398686'
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 :)
Continuous integration

with Travis-CI & travis-ci.org
Authorize application

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

Review permissions

Personal user data
- Email addresses (read-only)

Repository webhooks and services
- Read and write access

Commit statuses
- Read and write access

Deployments
- Manage deployments and deployment status

Organizations and teams
- Read-only access

Travis CI

No description

Visit application’s website

Learn more about OAuth

Authorize application
We're only showing your public repositories. You can find your private projects on travis-ci.com.

1. Flick the repository switch on
2. Add .travis.yml file to your repository
3. Trigger your first build with a git push

- 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
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# command to install dependencies
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# command to run tests
script:
  tox
Fix diet command line

...which failed to execute because script file wasn't added to the package. Fixed with code reorganisation. Also bumped Commit 480c6e1

Marko Samastur authored and committed

Build Jobs

<table>
<thead>
<tr>
<th>#</th>
<th>Status</th>
<th>Python</th>
<th>Env</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>57.1</td>
<td>✔️</td>
<td>2.6</td>
<td>TOXENV=py26 DIET_TOOLS_DIR=/u</td>
<td>1 min 42 sec</td>
</tr>
<tr>
<td>57.2</td>
<td>✔️</td>
<td>2.7</td>
<td>TOXENV=py27 DIET_TOOLS_DIR=/u</td>
<td>1 min 47 sec</td>
</tr>
<tr>
<td>57.3</td>
<td>✔️</td>
<td>3.3</td>
<td>TOXENV=py33 DIET_TOOLS_DIR=/u</td>
<td>1 min 40 sec</td>
</tr>
<tr>
<td>57.4</td>
<td>✔️</td>
<td>3.4</td>
<td>TOXENV=py34 DIET_TOOLS_DIR=/u</td>
<td>1 min 44 sec</td>
</tr>
<tr>
<td>57.5</td>
<td>✔️</td>
<td>3.5</td>
<td>TOXENV=py35 DIET_TOOLS_DIR=/u</td>
<td>1 min 51 sec</td>
</tr>
<tr>
<td>57.6</td>
<td>✔️</td>
<td>pypy</td>
<td>TOXENV=pypy DIET_TOOLS_DIR=/u</td>
<td>2 min 57 sec</td>
</tr>
</tbody>
</table>
Documentation

published on 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.

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Have a GitHub account? Connect your account and import your existing projects automatically.

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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.
Authorize application
Read the Docs Community (.org) by @readthedocs would like permission to access your account

Review permissions

<table>
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<tr>
<th>Permission Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal user data</td>
<td>Email addresses (read-only)</td>
</tr>
<tr>
<td>Repository webhooks and services</td>
<td>Admin access</td>
</tr>
<tr>
<td>Commit statuses</td>
<td>Read and write access</td>
</tr>
<tr>
<td>Organizations and teams</td>
<td>Read-only access</td>
</tr>
</tbody>
</table>

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.

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Want to try a demo? Import our own demo project.

Import a Project

Connect your Accounts
Have a GitHub account? Connect your account and import your existing projects automatically.

Connect to GitHub

Thanks!
Your support of Read the Docs helps make the site better each and every month.

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

- dopeycat/deus_in_machina
  https://github.com/dopeycat/deus_in_machina.git

- dopeycat/perpetuum_mobile
  https://github.com/dopeycat/perpetuum_mobile.git

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

Import Manually
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:
Deus in Machina

Repository URL:
https://github.com/dopeycat/deu:
Hosted documentation repository URL

Repository type:
Git

Edit advanced project options:

Next
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

latest

Build a version

latest

Repository
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
deus-in-machina.rtfd.io
$ pip install sphinx sphinx-autobuild
$ cd docs
$ sphinx-quickstart
conf.py

extensions = [
    'sphinx.ext.autodoc',
    'sphinx.ext.intersphinx',
]
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
e-mail [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!

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Questions, comments & work offers:
   marko@samastur.com