

How to make an awesome package in python

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PGR-Talks



THIS.

Tools for an awesome python package

based on Anton Zhiyanov's blog

Awesome Python Package

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Awesome

Python Package

- ▶ Git
- ▶ GitHub
- ▶ Python
- ▶ Flit

Tools for an awesome python package

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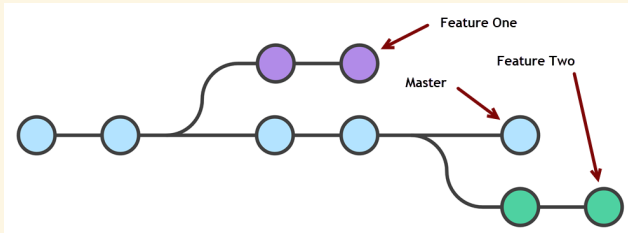
Awesome

- ▶ Documentation
- ▶ Testing
- ▶ Linters
- ▶ Tox
- ▶ GitHub actions

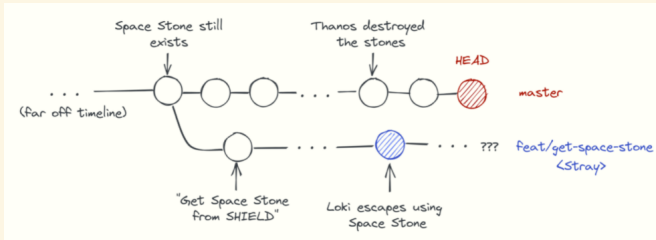
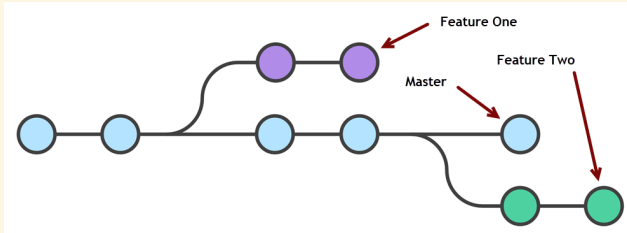
Python Package

- ▶ Git
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Version Control with Git

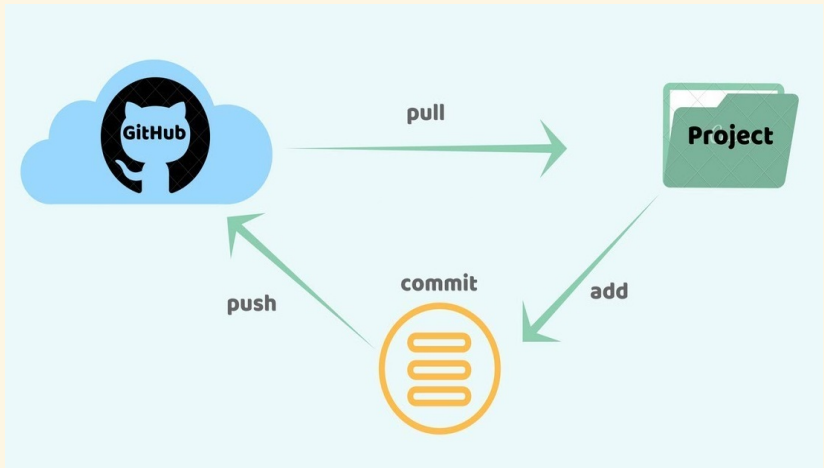


Version Control with Git



Git VS Avengers: Endgame

Git with GitHub



Python



Python



IP[y]: IPython
Interactive Computing



Flit

Initialising

Packaging

Publishing

Flit

Initialising

Packaging

Publishing

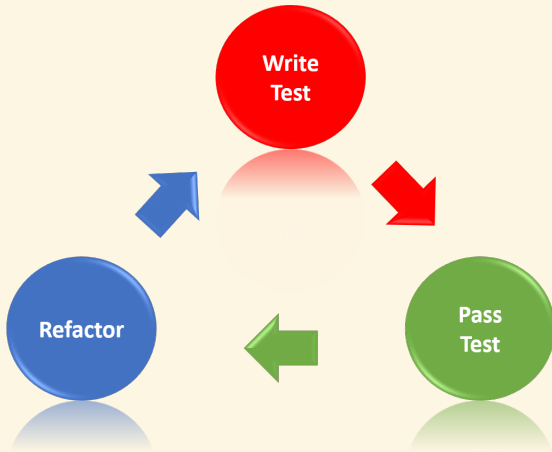
PyPI & TestPyPI



Documentation

- ▶ **Readme.md**: A markdown file that contains an overview of the project
- ▶ **Changelog.md**: A file with a log of all the changes ever made to the project
- ▶ **Docstrings**: A comment in the code that is used to explain a block of code

Testing



Linters

Linting is the automated checking of your source code for programmatic and stylistic errors without running the code

Linting and other tools:

- ▶ black
- ▶ flake8
- ▶ mypy
- ▶ pylint
- ▶ mccabe
- ▶ coverage

flake8

pylint

mccabe

black

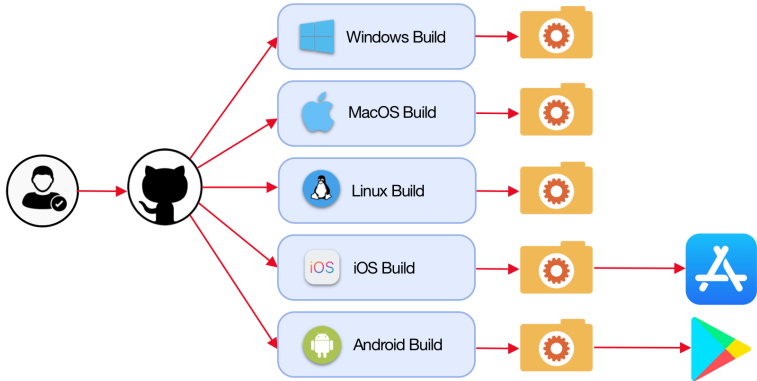
Tox

mypy

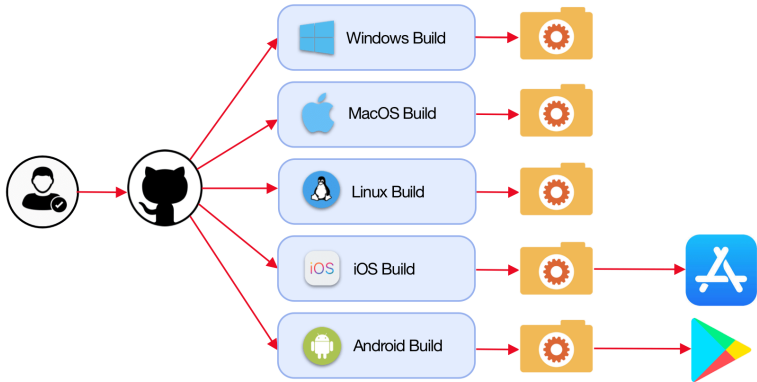
pytest

coverage

GitHub Actions





GitHub Actions



- ▶ \LaTeX actions
- ▶ Nicholas Cage action

Thank you!

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