Package Distribution



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Overview

Distinguish between *source* and *built* distributions

Create both kinds of distributions

Examine portability of built distributions

Upload a package to the Python Package Index

Install a package from the Python Package Index

Distribution Packages

Archive of package contents Easy to install

Various formats

- Zip files
- Tarballs
- Wheels

Built vs. Source Packages

Built

Placed directly into installation directory

Build results are included in the package

Can be platform-specific

Source

Contains everything needed to build the package

Cannot be placed directly into installation directory

It is necessary to build the package before installing it

Built Packages

All build results have been rendered into the package

Use the *wheel* format, defined in PEP 427

Built Distribution Installation Requirements

Requirements in Wheel Format

```
Python version
demo_reader-1.0.0-py3-none-any.whl
          ABI requirements
             Platform requirements-
```

Uploading Packages to a Package Server

twine 1.12.1



Last released: Sep 24, 2018



Collection of utilities for publishing packages on PyPI

Navigation



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- ♣ Download files

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- Twine source
- Packaging tutorial

Project description

Twine is a utility for publishing Python packages on PyPI.

It provides build system independent uploads of source and binary distribution artifacts for both new and existing projects.

Why Should I Use This?

The goal of twine is to improve PyPI interaction by improving security and testability.

The biggest reason to use twine is that it securely authenticates you to PyPI over HTTPS using a verified connection regardless of the underlying Python version, while whether or not python setup.py upload will work correctly and securely depends on your build system, your Python version and the underlying operating system.

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Summary

Make source distributions with sdist

Make built distributions with bdist_wheel

Wheels are the recommended built distribution

Upload packages to the Python Package Index with twine

Use pip to retrieve and install packages from the Python Package Index

Well done!

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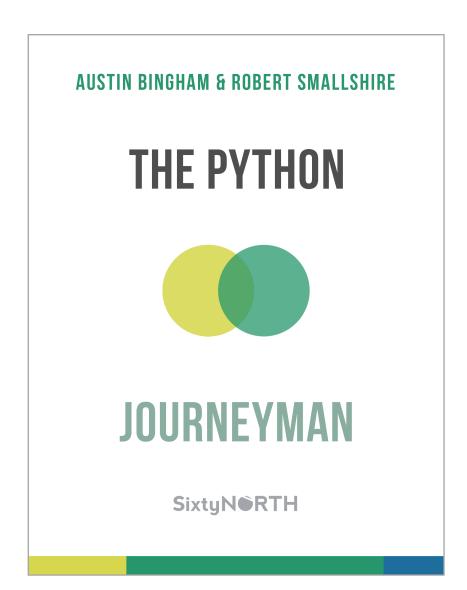
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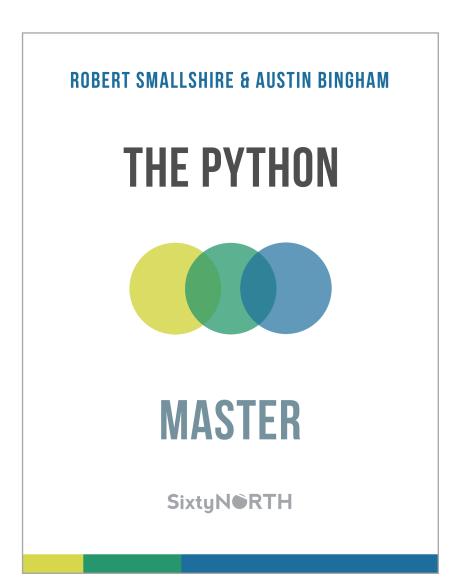
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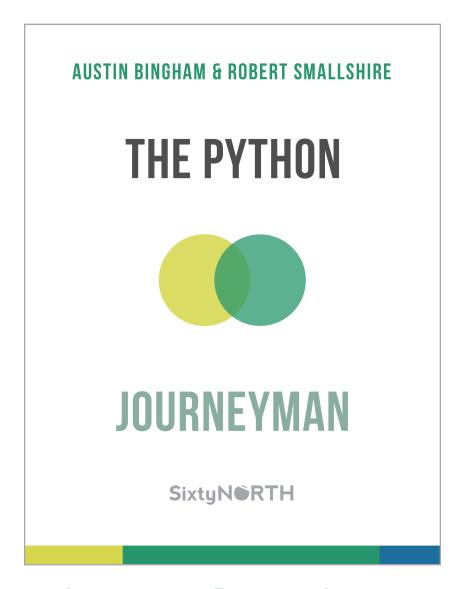


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