

# Build Your Own Python PIP Package



1. Create a directory for your package and navigate into it.
2. Create a new file named **setup.py** and include the following code:

```
terminal

from setuptools import setup


setup(name='<package-name>',
      version='<package-version>',
      description='<package-description>',
      author='<author-name>',
      author_email='<author-email>',
      url='<package-url>',
      packages=['<package-name>'])
```

**Replace the placeholders with your package name, version, description, author name and email, URL, and package name.**

**3. Create a directory with the same name as your package, and add your package code inside it.**

**4. Create a file named `__init__.py` inside your package directory. This file will be executed when your package is imported.**

5. Create a **README.md** file with the package's documentation and instructions for installation and usage.
6. Optionally, create a **LICENSE** file with the license information for your package.
7. Navigate to the directory containing **setup.py** in your terminal and run the following command to build the package:

A dark-themed terminal window with three window control buttons (red, yellow, green) in the top-left corner. The title bar in the top-right corner reads "terminal". The command "python setup.py sdist bdist\_wheel" is entered in the terminal.

```
python setup.py sdist bdist_wheel
```

**This command will create a source distribution and a binary distribution of your package.**

**8. Upload your package to PyPI using twine. If you don't have twine installed, you can install it using pip:**

A terminal window with a dark gray background and rounded corners. It has three small gray circles in the top-left corner and the word "terminal" in a light gray font in the top-right corner. The command "pip install twine" is written in a light gray monospace font.

```
pip install twine
```

**9. Then, run the following command to upload your package:**

A terminal window with a dark gray background and rounded corners. It has three small gray circles in the top-left corner and the word "terminal" in a light gray font in the top-right corner. The command "twine upload dist/\*" is written in a light gray monospace font.

```
twine upload dist/*
```

**This command will upload all the distributions of your package to PyPI.**

**Your package is now published on PyPI and can be installed using `pip install <package-name>`.**

**Hope it helps!**

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**@arjun-panwar**