



# Share Your Code @PyPI

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# PyPI?

- **PyPI** — the Python Package Index
- The Python Package Index is a repository of software for the Python programming language. There are currently **62823** packages here.

Copied content btw from their website.

# PyPI Test and PyPI Live, why two?

- If you want to **test** a python package before you share it with the universe, you can (in theory) use the Python Package Index **Test** (testpypi) server.
- Otherwise **PyPI Live**.

# Some Numbers

- PyPI Live has **62823** packages.
- PyPI test has **3628** packages.

**Not everyone believes in testing.**

# How is it useful to me?

- Pip installed anything before?
- Want something already written code, search here.
- Push your code, help others.
- See your code used by so many people.

# What I need?

- Your package.
- README.
- .pypirc configuration file.
- Accounts on [PyPI Live](#) and [PyPi Test](#).
- LICENSE.txt.
- setup.py
- requirements.txt. If your package needs something to be installed first.



# Your directory structure?

`your_package_name-version`

`setup.py`

`README.txt`

`README.md` #For GitHub may be

`requirements.txt`

`CHANGES.txt` #It's always good to have it.

`LICENSE.txt`

`your_package_name/`

`bob.py`

`alice.py`

`__init.py__`

# setup.py

This is the metadata about your library.

```
from setuptools import setup #I used setuptools, you can use dist.core

setup(
    name='<your_package_name>',
    version='<version>',
    description='<Some sort of description explaining what you are doing>',
    author='<Ooh! your_name here>',
    author_email='<your_email_id>',
    url='<url>',
    packages=['<your_package_name>'],
    install_requires=[
        "some_package == version", #package to install to make your package work.
    ]
)
```

# **.pypirc Configuration File**

This holds the information to authenticate you with [PyPI](#). I hope you have created the account PyPI Test and PyPI Live. **This should be in your home directory.**

**[distutils] # this tells distutils what package indexes you can push to**

index-servers =

**pypi # the live PyPI**

**test # test PyPI**

**[test] # authentication details for test PyPI**

repository = https://testpypi.python.org/pypi

username = <your\_user\_name>

password = <your\_password>

**[pypi] # authentication details for live PyPI**

repository = https://pypi.python.org/pypi

username = <your\_user\_name>

password = <your\_password>



We Believe In Testing Then Using.

# Steps to Push To PyPI Test?

**Register your package against PyPI's test server**

```
python setup.py register -r test
```

**What you should get?**

Registering your\_package\_name to <https://testpypi.python.org/pypi>

Server response (200): OK

**Upload it to testPyPI to test**

```
python setup.py sdist upload -r test
```

**What you should get?**

Server response (200): OK

**Test it now.**

```
pip install -i test <your_package_name>
```

# Push it to PyPI Live Now!

**Register your package against PyPI's Live server**


```
python setup.py register -r pypi
```

**Upload it to PyPI Live**

```
python setup.py sdist upload -r pypi
```

**Install**

```
pip install your_package_name
```



Wohoo.

# Questions?

- Ask Now.

Please raise your hand.

- Ask Later.

Tweet to TapasweniPathak.

Mail me [tapaswenipathak@gmail.com](mailto:tapaswenipathak@gmail.com)





Thanks!