**Putting Code on PyPi**

# PyPi vs. Test PyPi

Note that [**pypi.org**](https://pypi.org/) and [**test.pypy.org**](https://test.pypi.org/) are two different websites. You'll need to register separately at each website. If you only register at [**pypi.org**](https://pypi.org/), you will not be able to upload to the [**test.pypy.org**](https://test.pypi.org/) repository.

Also, remember that your package name must be unique. If you use a package name that is already taken, you will get an error when trying to upload the package.

# Summary of the Terminal Commands Used in the Video

cd binomial\_package\_files

python setup.py sdist

pip install twine

# commands to upload to the pypi test repository

twine upload --repository-url https://test.pypi.org/legacy/ dist/\*

pip install --index-url https://test.pypi.org/simple/ dsnd-probability

# command to upload to the pypi repository

twine upload dist/\*

pip install dsnd-probability

# More PyPi Resources

##### Tutorial on distributing packages

This link has a good tutorial on distributing Python packages including more configuration options for your setup.py file: [**tutorial on distributing packages**](https://packaging.python.org/tutorials/distributing-packages/). You'll notice that the python command to run the setup.py is slightly different with

python3 setup.py sdist bdist\_wheel

This command will still output a folder called dist. The difference is that you will get both a .tar.gz file and a .whl file. The .tar.gz file is called a source archive whereas the .whl file is a built distribution. The .whl file is a newer type of installation file for Python packages. When you pip install a package, pip will first look for a whl file (wheel file) and if there isn't one, will then look for the tar.gz file.

A tar.gz file, ie an sdist, contains the files needed to [**compile**](https://en.wikipedia.org/wiki/Compiler) and install a Python package. A whl file, ie a built distribution, only needs to be copied to the proper place for installation. Behind the scenes, pip installing a whl file has fewer steps than a tar.gz file.

Other than this command, the rest of the steps for uploading to PyPi are the same.

##### Other Links

If you'd like to learn more about PyPi, here are a couple of resources:

* [**Overview of PyPi**](https://docs.python.org/3/distutils/packageindex.html)
* [**MIT License**](https://opensource.org/licenses/MIT)