**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.

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**

[This tutorial](https://packaging.python.org/tutorials/distributing-packages/) explains how to distribute Python packages, including more configuration options for your setup.py file. You'll notice that the Python command to run the setup.py is slightly different, as shown in the following example:

python3 setup.py sdist bdist\_wheel

This command still outputs 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 firsts look for a .whl file (wheel file); if there isn't one, it looks for the .tar.gz file.

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

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

**Other Links**

To learn more about PyPi, see the following resources:

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

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