AppendixA. Installing Third-Party Modules

Beyond the standard library of modules packaged with Python, other developers have written their own modules to extend Python’s capabilities even further. The primary way to install third-party modules is to use Python’s pip tool. This tool securely downloads and installs Python modules onto your computer from [*https://pypi.python.org/*](https://pypi.python.org/), the website of the Python Software Foundation. PyPI, or the Python Package Index, is a sort of free app store for Python modules.

The pip Tool

The executable file for the pip tool is called *pip* on Windows and *pip3* on OS X and Linux. On Windows, you can find pip at *C:\Python34\Scripts\pip.exe*. On OS X, it is in */Library/Frameworks/Python.framework/Versions/3.4/bin/pip3*. On Linux, it is in */usr/bin/pip3*.

# Installing Third-Party Modules

The pip tool is meant to be run from the command line: You pass it the command install followed by the name of the module you want to install. For example, on Windows you would enter pip install *ModuleName*, where *ModuleName* is the name of the module.

If you already have the module installed but would like to upgrade it to the latest version available on PyPI, run pip install –U *ModuleName* (or pip3 install –U *ModuleName* on OS X and Linux).

After installing the module, you can test that it installed successfully by running import *ModuleName* in the interactive shell. If no error messages are displayed, you can assume the module was installed successfully.

You can install all of the modules covered in this book by running the commands listed next. (Remember to replace pip with pip3 if you’re on OS X or Linux.)

* pip install send2trash
* pip install requests
* pip install beautifulsoup4
* pip install selenium
* pip install openpyxl
* pip install PyPDF2
* pip install python-docx (install python-docx, not docx)
*  pip install imapclient
*  pip install pyzmail
*  pip install twilio
*  pip install pillow
*  pip install pyobjc-core (on OS X only)
*  pip install pyobjc (on OS X only)
*  pip install python3-xlib (on Linux only)
*  pip install pyautogui