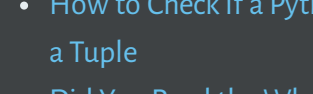


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This human pythons.

WRITTEN BY PYTHONMARKETER
JANUARY 20, 2018

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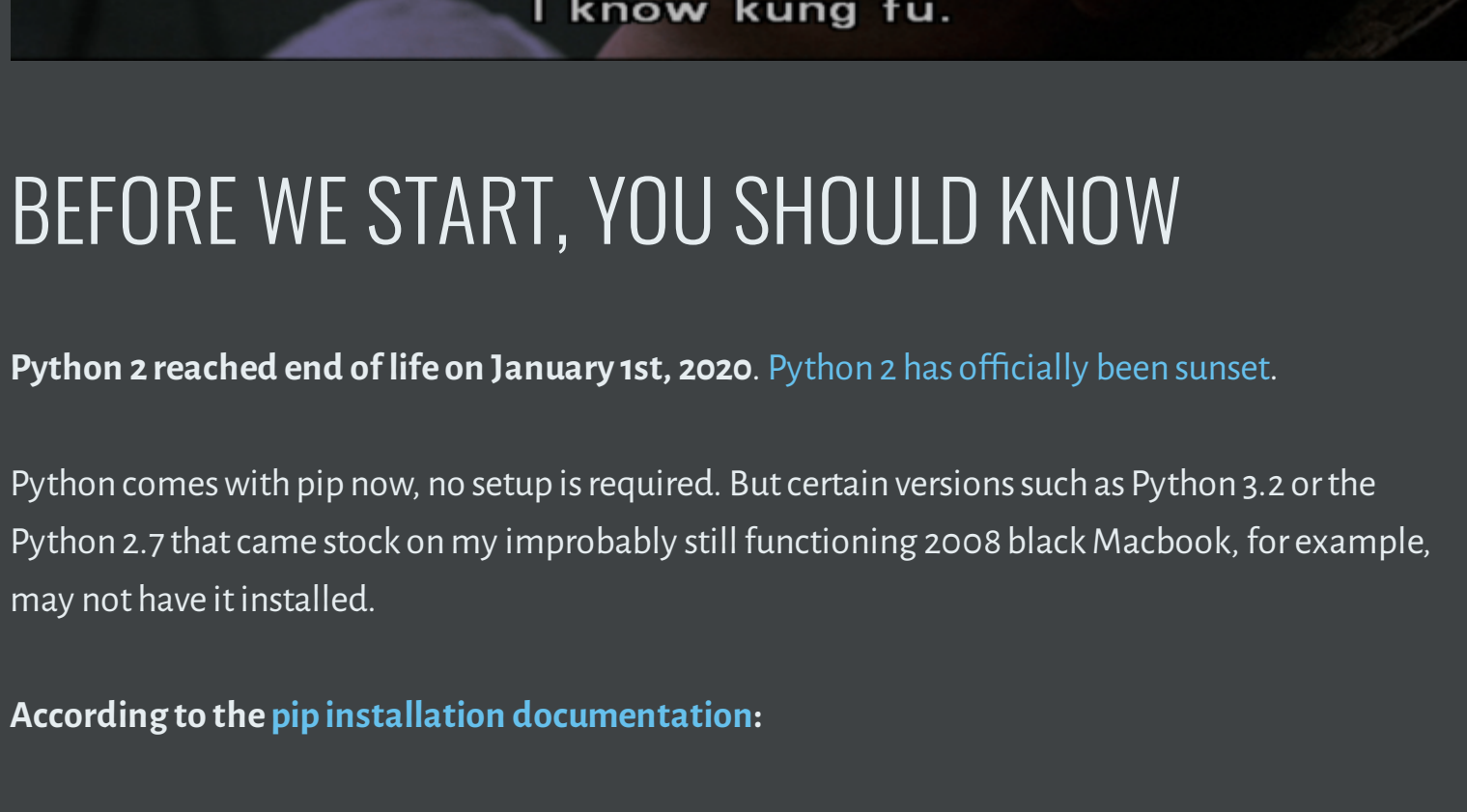
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HOW TO INSTALL LIBRARIES AND ENABLE THE PIP INSTALLER IN PYTHON

Python comes with a bunch of standard modules. My favorites are shutil, glob, datetime, time, os (operating system), re (regular expressions) and webbrowser. The standard library is loaded.

Inevitably, you'll want to install new libraries from Python's rich ecosystem of external modules. Enter pip, python's handy package manager and people's champion.

This post will teach you some Python history, show how to install pandas, and help you troubleshoot problems if it's not working. You'll find Windows and Linux commands for env setup (recommended). With pip, you'll feel like Neo when installing new modules. Any skill is at your fingertips. It's like learning kung fu. There's probably a library for that!



BEFORE WE START, YOU SHOULD KNOW

Python 2 reached end of life on January 1st, 2020. Python 2 has officially been sunset.

Python comes with pip now, no setup is required. But certain versions such as Python 3.2 or the Python 2.7 that came stock on my improbably still functioning 2008 black MacBook, for example, may not have it installed.

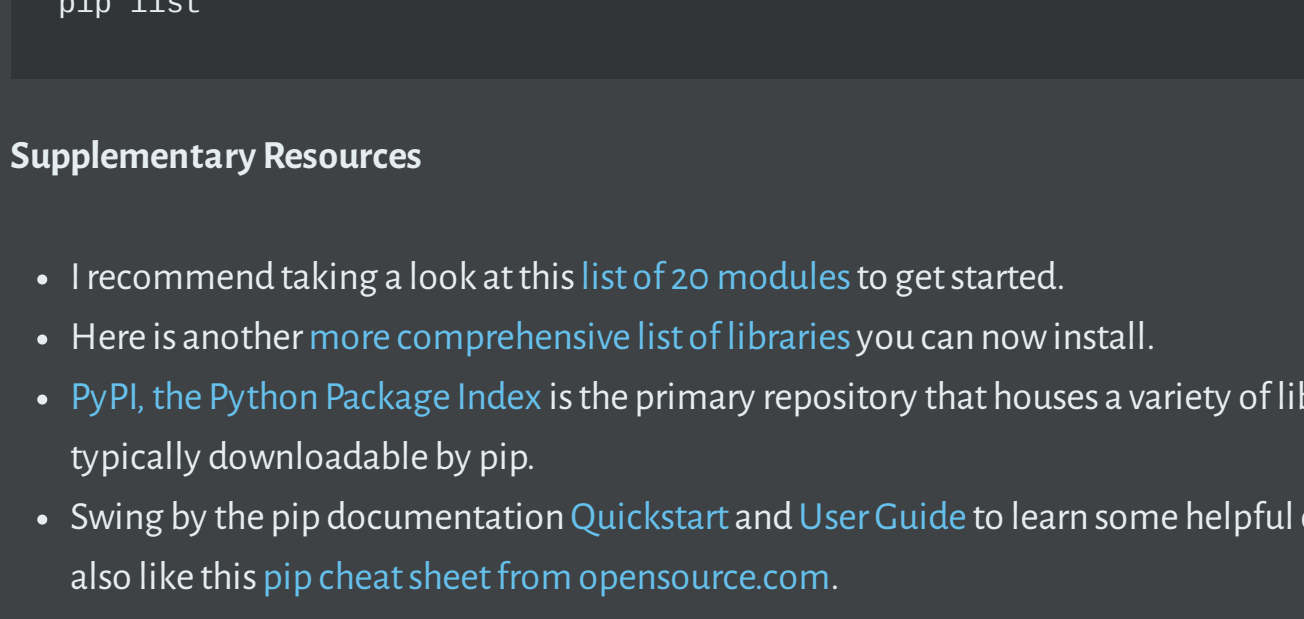
According to the [pip installation documentation](#):

"pip is already installed if you are using Python 2 >=2.7.9 or Python 3 >=3.4 downloaded from python.org or if you are working in a Virtual Environment created by virtualenv or pyenv."

ENTER THIS IN YOUR TERMINAL

```
python -m pip install pandas
```

Pandas is a super useful library for wrangling spreadsheet data, AKA "tabular" data. If successful, you should see activity that looks similar to the below screenshot, where I am installing `openpyxl`, an additional Python Excel library you'll likely want. You are good to go! This is the part where you get to feel like Neo! See [Installing Python Modules](#) in the Python Documentation for more detailed instructions.



Psst! To view all your installed libraries, enter:

```
pip list
```

Supplementary Resources

- I recommend taking a look at this [list of 20 modules](#) to get started.
- Here is another [more comprehensive list of libraries](#) you can now install.
- PyPI, the [Python Package Index](#) is the primary repository that houses a variety of libraries that are typically downloadable by pip.
- Swing by the pip documentation [Quickstart](#) and [User Guide](#) to learn some helpful commands. I also like this [pip cheat sheet](#) from [opensource.com](#).

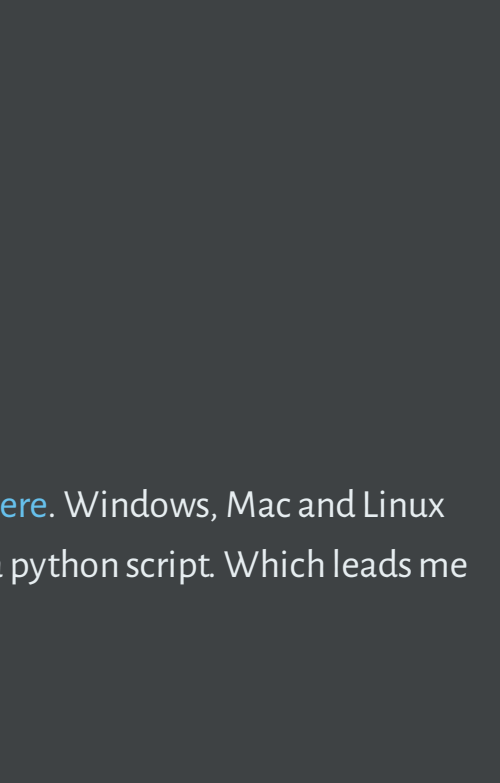
Congrats on figuring out how to install packages with pip, have fun! 🎉

DID THAT WORK? IF NOT, HERE ARE SOME THINGS TO CONSIDER.

Ensure Python can run in any directory on Windows.

To check if you can run Python anywhere: open command prompt, type python and hit enter. Type `quit()` to exit the interpreter, then use the `cd` command to change the directory and type python again. If the python interpreter runs in a few different file path locations, you're good to go. If this doesn't work, you may need to do the following:

- Go to "Advanced System Settings".
- Select "Environment Variables".
- Under "System Variables", edit your "path" variable.
- Paste in `c:\python38\` and click "ok", then "apply". Make sure you edit this to match your Python version if it's not Python 3.8.



You should follow best practice and create a virtual environment before installing libraries. [venv](#) or [virtualenv](#) will help you out. To create with venv:

```
python3 -m venv add_env_name_here
```

After your environment is created, activate it with the first command below, then install a library on Ubuntu Linux:

- `cd add_env_path_here/bin & source activate`
- `python -m pip install pandas`

Alternatively, on Windows computers:

- `cd add_env_path_here\scripts & activate`
- `python -m pip install pandas`

Know your OS.

If you're interested in installing pip on Linux, [try here](#). For Mac, [try here](#). Windows, Mac and Linux sometimes use different prefixes (e.g. python, py, python3) to run a python script. Which leads me to my next point:

Getting the prefix right can be tricky.

Since this was written, I moved to Python 3.8. When I first moved from python 2 to 3 on Windows, I somehow accidentally configured the following behavior: entering `python some_program.py` ran a .py file with Python 2. Whereas, entering `py some_program.py` ran a .py file with Python 3.

In the install command, the prefix is a reference to your Python executable. You may just need to alter your prefix to call it correctly. Here are some to try in place of "python". Observe what happens when you run these command variations. Good luck!

```
python3 -m pip install pandas
```

```
python3.8 -m pip install pandas
```

```
py -m pip install pandas
```

```
pip3 install pandas
```

The rest of this post may be useful to you if you are:

- Working on legacy Python 2 code or Python 3.3 or lower for which pip is not installed.
- Seeking to fix a faulty pip install that is not working properly.
- Curious to know how to manually set up pip.

SIDEBAR: NEW IN 2020, THE PIP RESOLVER

Cot library version conflict issues? If so, you may want to try the [pip dependency resolver](#), newly released by the [pip team](#).

Here's an example of installing a library and using pip's "dependency resolver" flag:

```
pip install pandas --use-feature=2020-resolver
```

HOW TO ENABLE THE PIP INSTALLER

Assumes Python is already installed. If you're running Windows 10, I found it easy to install Python from the [Windows store](#).

Download the get-pip.py file.

Go to the link, right click the page and "Save As" a .py file to download. Then place the file where you want to access it. I placed mine in `C:\Python27\Lib\site-packages`

You could also download the file with [curl](#):

```
curl https://bootstrap.pypa.io/get-pip.py -o get-pip.pyt-pip.py
```

If you are not sure where your site-packages folder is, type `python -m site` into command prompt for file path ideas.

Run the get-pip.py file.

Using command prompt's `cd` command with a Windows "&" operator to run the python file in a Windows command prompt:

```
cd c:\Python27\Lib\site-packages & python get-pip.py
```

Or Linux terminal:

```
cd /Python27/Lib/site-packages && python get-pip.py
```

You should see some activity in command prompt that shows installation/updating of "setup" and "wheel". When it finishes, you have installed pip.

Type into command prompt at the same location:

```
python -m pip install requests
```

This should install the Requests module into your Python libraries. Requests is an http module which is highly regarded almost universally by the Python community.

Thanks for reading! Check out these other posts with pip installed library examples:

[goosey](#) – GUI library

[tweepy](#) – Twitter library

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