



Python in 10 minutes

Part 1:

Dr. Mark Williamson

Purpose:

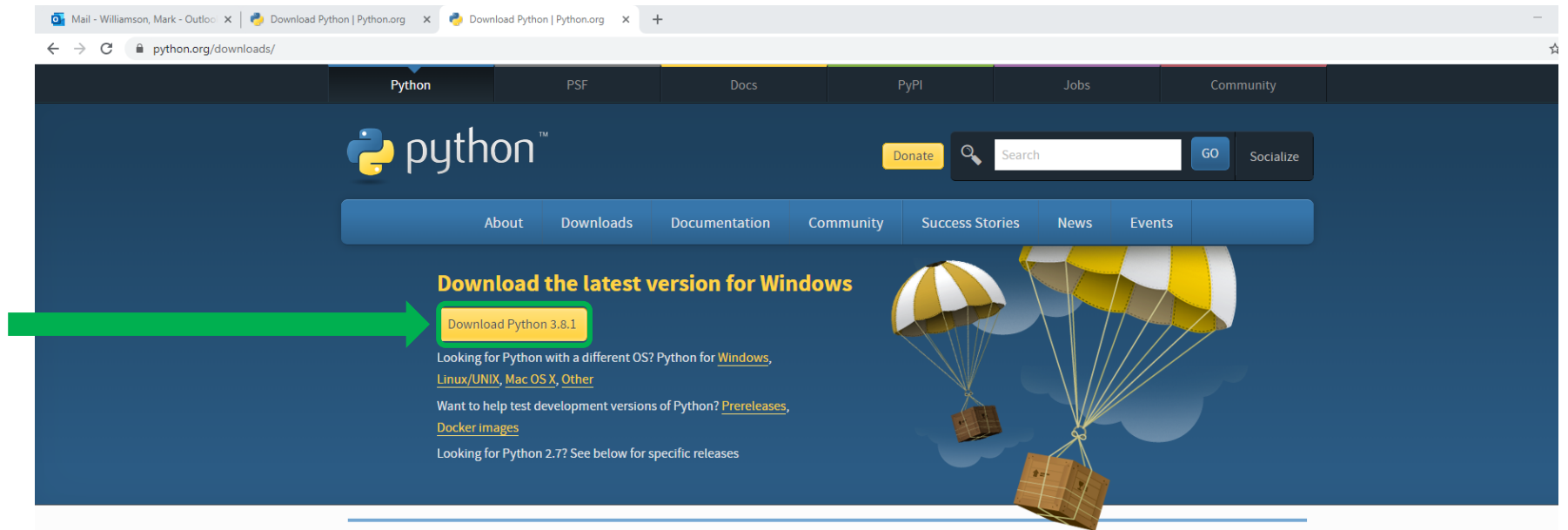
- Quick, bite-size guides to basic usage and tasks in Python
- I'm no expert, I've just used it for various tasks, and it has made my life easier and allowed me to do things I couldn't manually
- I'd like to share that working knowledge with you

Lesson 1: Getting python

- Windows
- Mac
- Linux/UNIX
- Other

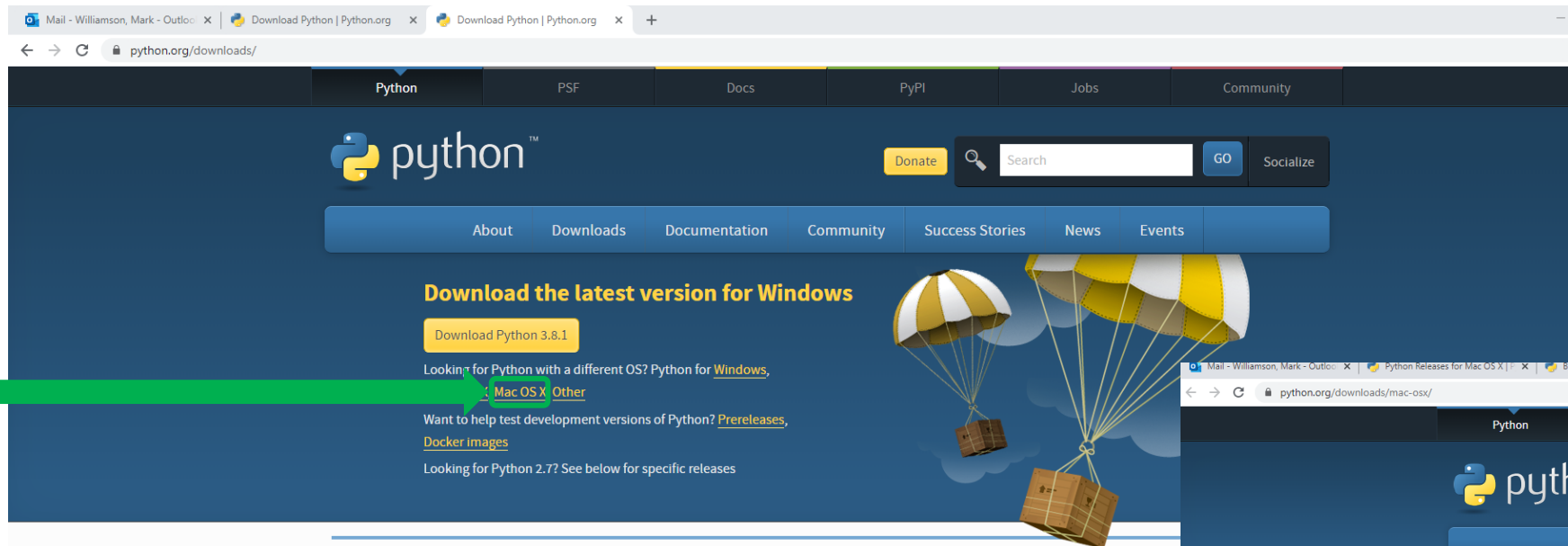
Getting python: Windows

- <https://www.python.org/downloads/>

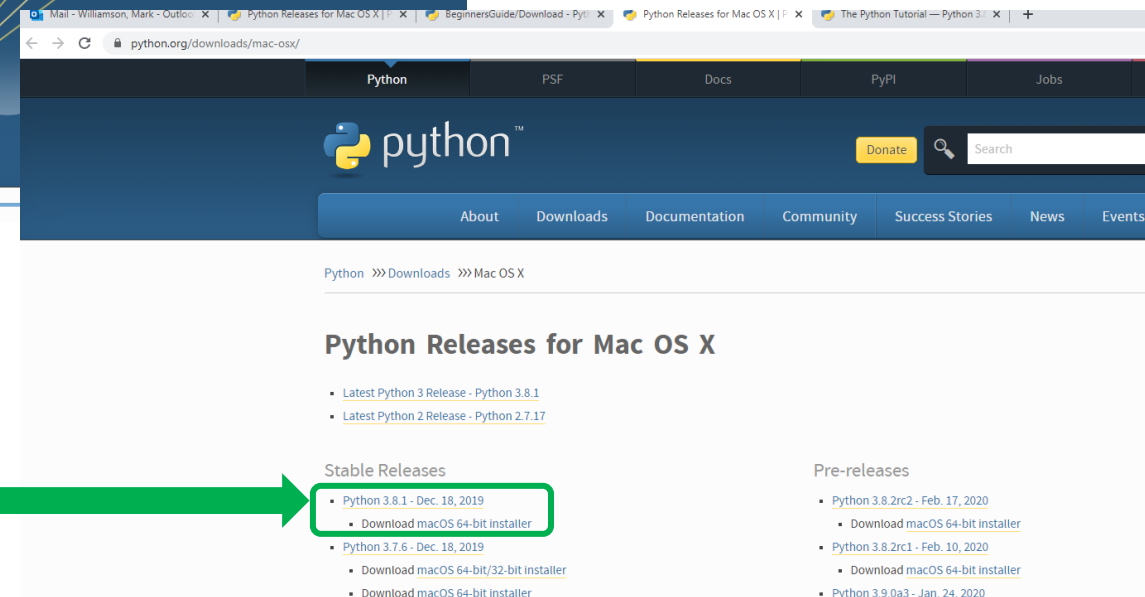


Getting python: MAC

- <https://www.python.org/downloads/>



<https://www.python.org/downloads/mac-osx/>



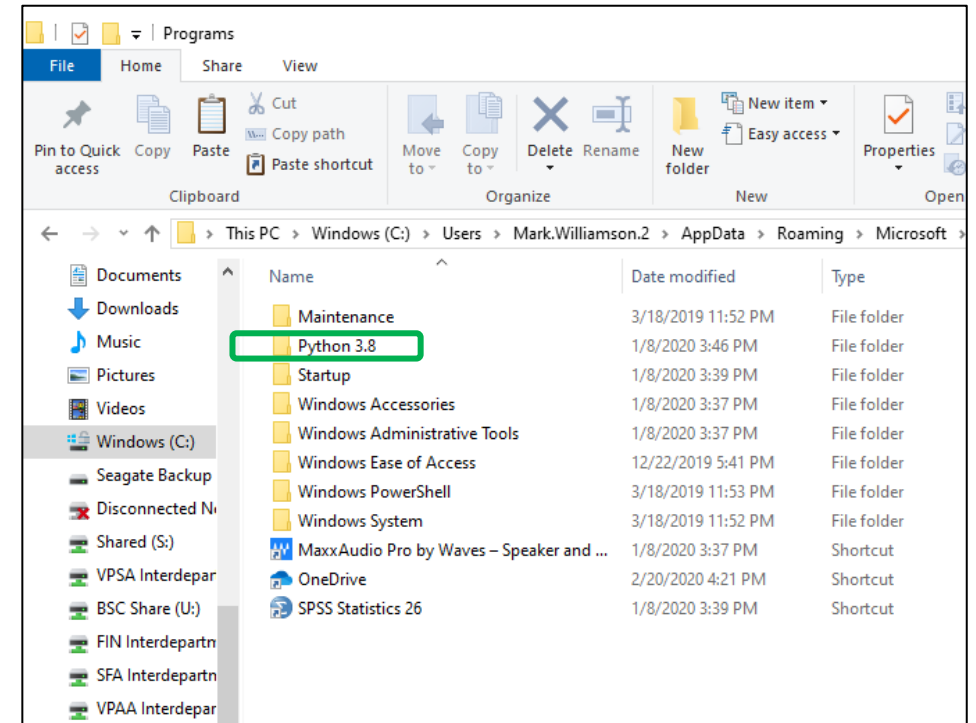
Getting python: Linux

<https://wiki.python.org/moin/BeginnersGuide/Download>

- **For Red Hat, CentOS or Fedora**, install the python3 and python3-devel packages.
- **For Debian or Ubuntu**, install the python3.x and python3.x-dev packages.
- **For Gentoo**, install the '=python-3.x*' ebuild (you may have to unmask it first)
- **For Other**, <https://wiki.python.org/moin/BeginnersGuide/Download>

Finding and Opening

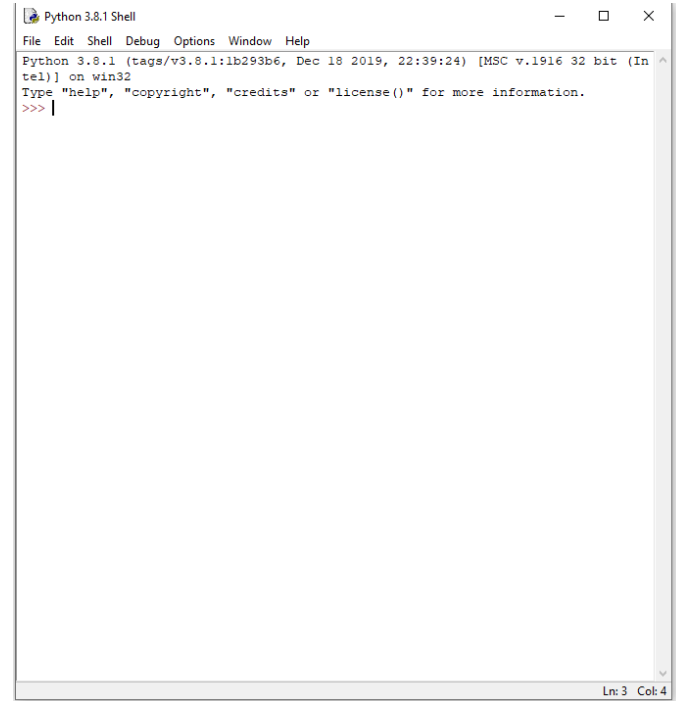
- Go to wherever you downloaded python
- It should be a file called Python 3.8
 - The number will be different if you downloaded a different version
 - I'm showing what it looks like in Windows 10
- Inside, there should be 4 items



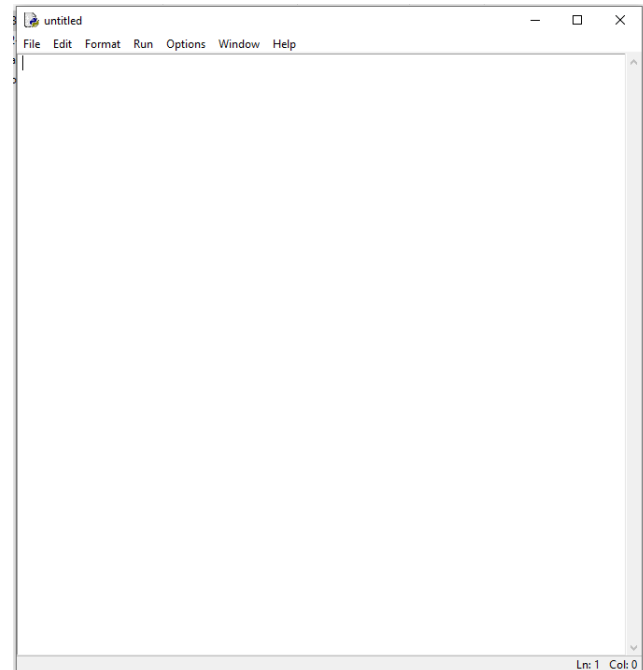
	Name	Date modified	Type	Size
Integrated Development Environment →	Python 3.8 32-bit	1/8/2020 3:46 PM	Shortcut	3 KB
Actual Python Application →	Python 3.8 (32-bit)	1/8/2020 3:46 PM	Shortcut	2 KB
Documentation →	Python 3.8 Manuals (32-bit)	1/8/2020 3:46 PM	Shortcut	1 KB
	Python 3.8 Module Docs (32-bit)	1/8/2020 3:46 PM	Shortcut	3 KB

IDLE

- This is what I predominately use
 - Opens a shell which you can write in
 - Also can create files to save and run from there (which is what I do)
- To create a file, go to File->New File and an untitled file will pop up

A screenshot of a Python 3.8.1 Shell window. The title bar reads "Python 3.8.1 Shell". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area contains the following text: "Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32", "Type 'help', 'copyright', 'credits' or 'license()' for more information.", and a prompt ">>>". The status bar at the bottom right shows "Ln: 3 Col: 4".

```
Python 3.8.1 Shell
File Edit Shell Debug Options Window Help
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> |
```

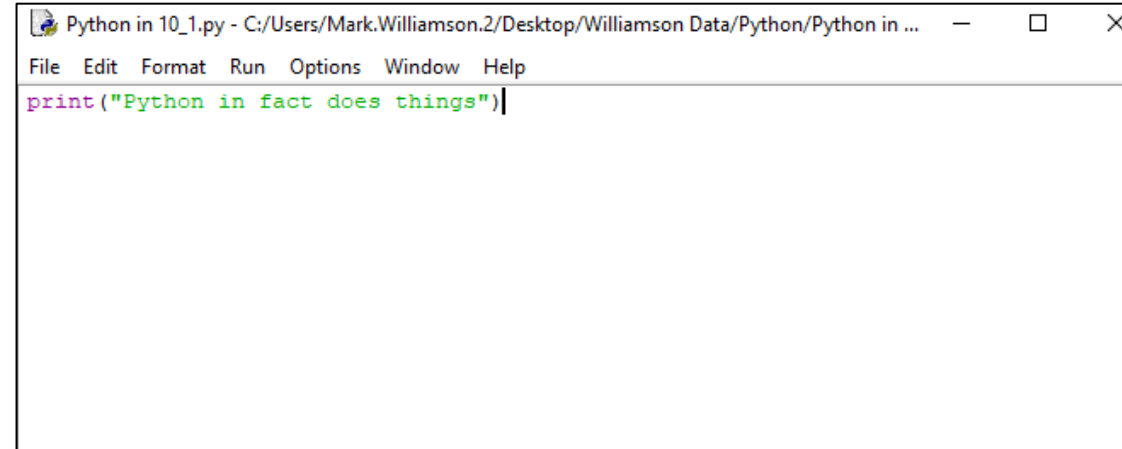
A screenshot of an untitled file window. The title bar reads "untitled". The menu bar includes "File", "Edit", "Format", "Run", "Options", "Window", and "Help". The main text area is empty. The status bar at the bottom right shows "Ln: 1 Col: 0".

```
untitled
File Edit Format Run Options Window Help
|
```


First Program

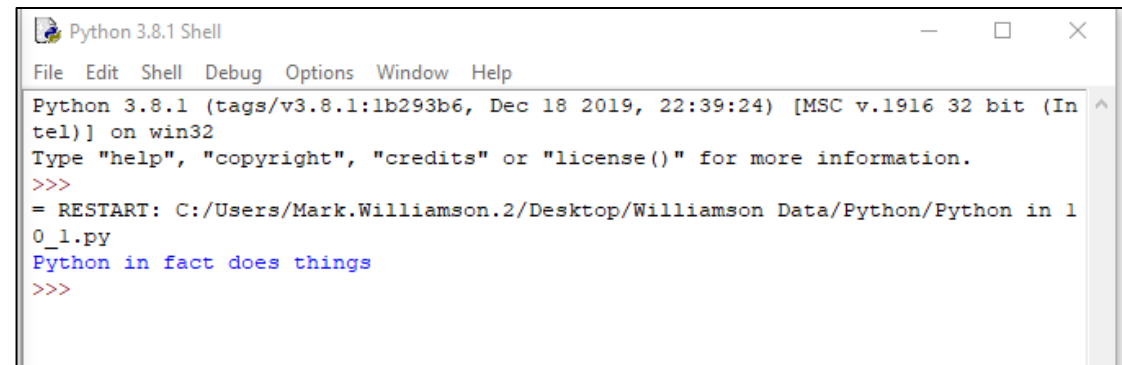
- Let's print a phrase
- In your untitled file, type the following
`print("phrase you want goes here")`
- Before you can run this, you must save
 - I typically save all my python files to a certain location
 - I refer to these files as 'scripts'
- After saving, hit Run->Run Module (F5)
- Your phrase should print out in the Shell
- Congratulations! You've done something in Python!

Script



A screenshot of a Python IDE window titled "Python in 10_1.py". The window has a menu bar with "File", "Edit", "Format", "Run", "Options", "Window", and "Help". The main text area contains a single line of Python code: `print("Python in fact does things")`.

Shell



A screenshot of a "Python 3.8.1 Shell" window. The window has a menu bar with "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area shows the following output:
Python 3.8.1 (tags/v3.8.1:1b293b6, Dec 18 2019, 22:39:24) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Mark.Williamson.2/Desktop/Williamson Data/Python/Python in 10_1.py
Python in fact does things
>>>