

Before we start... < TROUBLESHOOTING > Python/ Anaconda install & setup



<https://swcarpentry.github.io/python-novice-gapminder/setup/>

https://github.com/robertn01/Data-Carpentry-Social_Sciences-Python/tree/master

Before we start... < TROUBLESHOOTING > Python 3.x install & setup

If you already have
Python/ Anaconda/
JupyterLab

→ **Check for UPDATES;**

Otherwise... →



<https://www.python.org/about/gettingstarted/>



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<https://www.anaconda.com/products/individual>

Anaconda Installers

Windows 

Python 3.7

64-Bit Graphical Installer (466 MB)

32-Bit Graphical Installer (423 MB)

MacOS 

Python 3.7

64-Bit Graphical Installer (442 MB)

64-Bit Command Line Installer (430 MB)

Linux 

Python 3.7

64-Bit (x86) Installer (522 MB)

64-Bit (Power8 and Power9) Installer (276 MB)

Before we start... < TROUBLESHOOTING > Anaconda/ JupyterLab

JupyterLab is a built-in module of **Anaconda Navigator** and is a next-generation web-based user interface for Project Jupyter.

https://jupyterlab.readthedocs.io/en/stable/getting_started/overview.html

Starting JupyterLab:

https://jupyterlab.readthedocs.io/en/stable/getting_started/starting.html



Installation separately from Anaconda:

- https://jupyterlab.readthedocs.io/en/stable/getting_started/installation.html

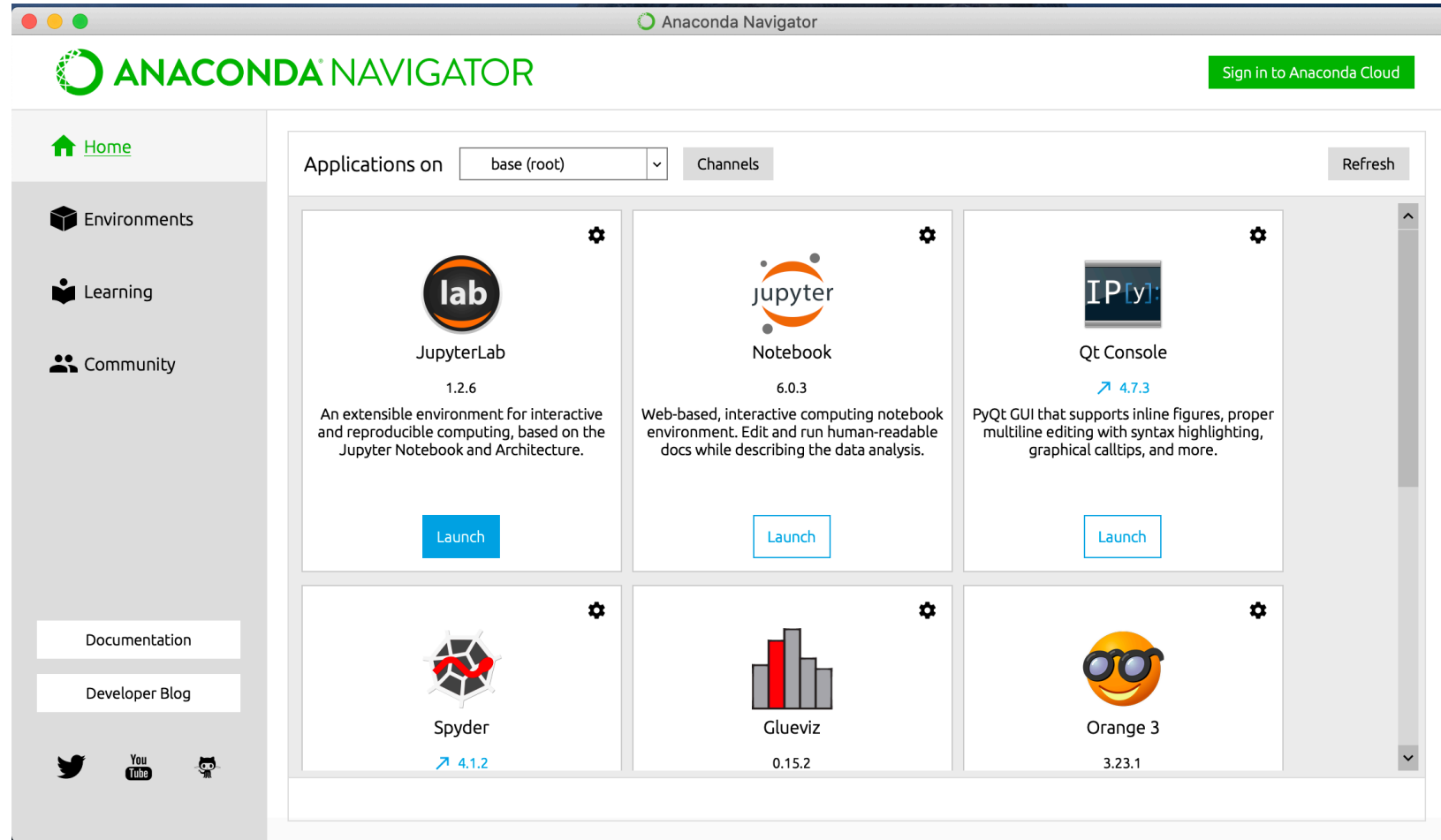
OR via JupyterHub

- <https://jupyterlab.readthedocs.io/en/stable/user/jupyterhub.html#jupyterhub>

Before we start... < TROUBLESHOOTING > Anaconda/ JupyterLab



[illustration: launching Anaconda-Navigator on a Mac]





Download and unzip the data to a preferred working directory

<https://swcarpentry.github.io/python-novice-gapminder/files/python-novice-gapminder-data.zip>

[compressed files]

https://github.com/robertn01/Data-Carpentry-Social_Sciences-Python [direct download]

Brief

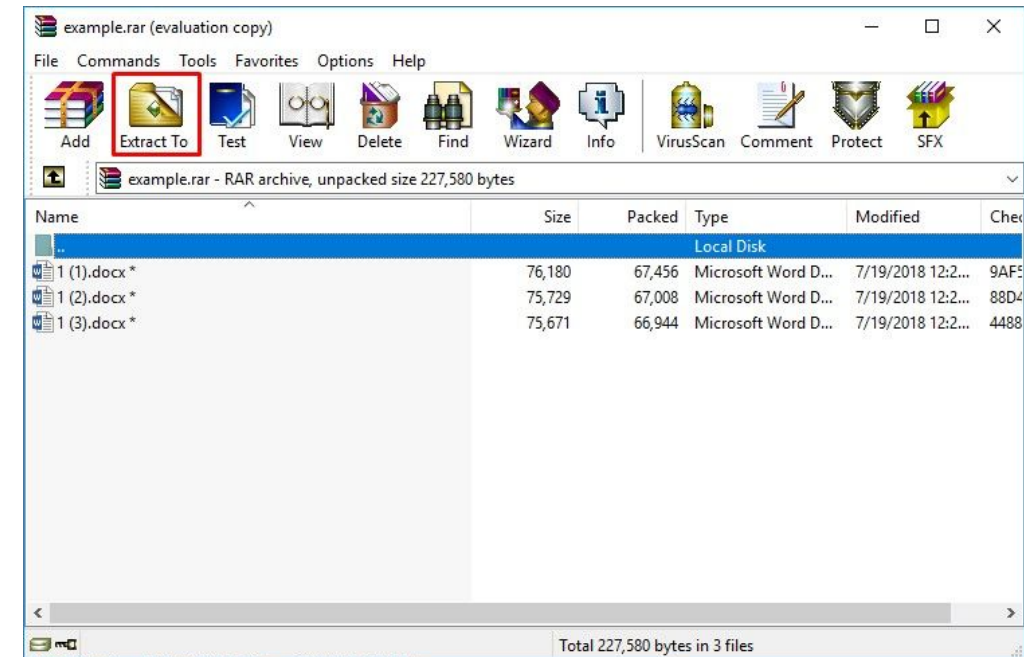
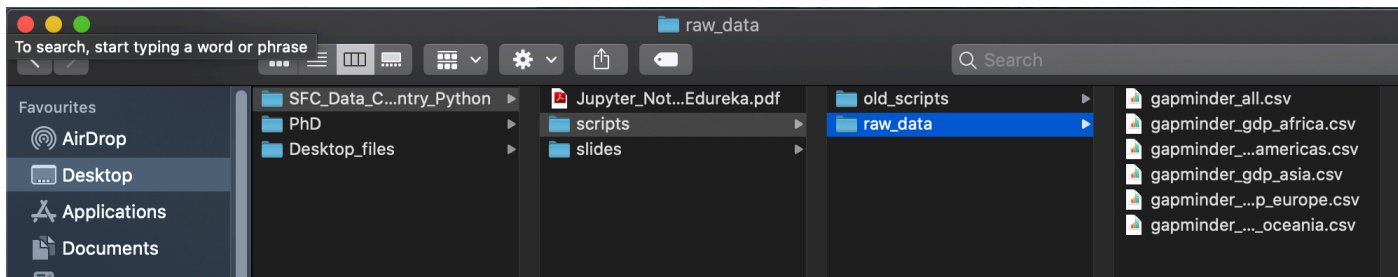
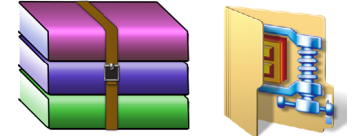
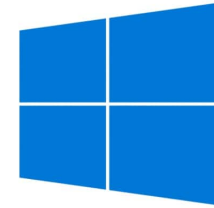
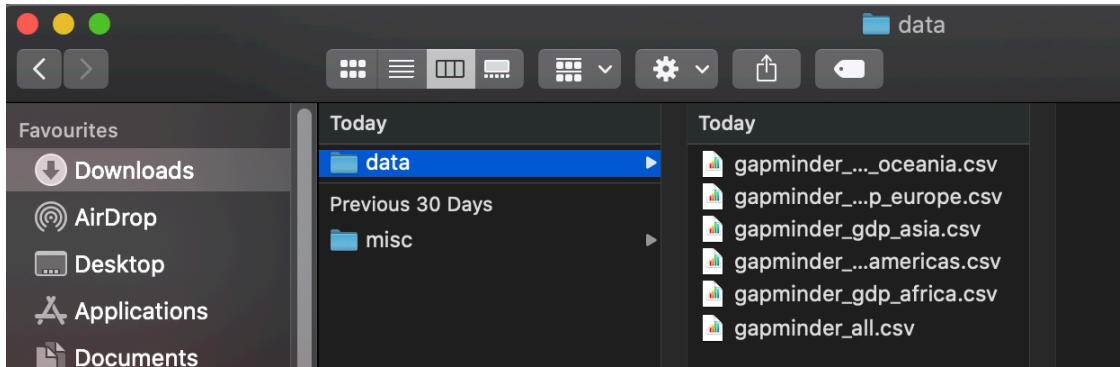
“Gapminder's stated mission is *'Fighting devastating ignorance with fact-based worldviews everyone can understand.'*”

[Source: https://en.wikipedia.org/wiki/Gapminder_Foundation]



Before we start... < TROUBLESHOOTING >

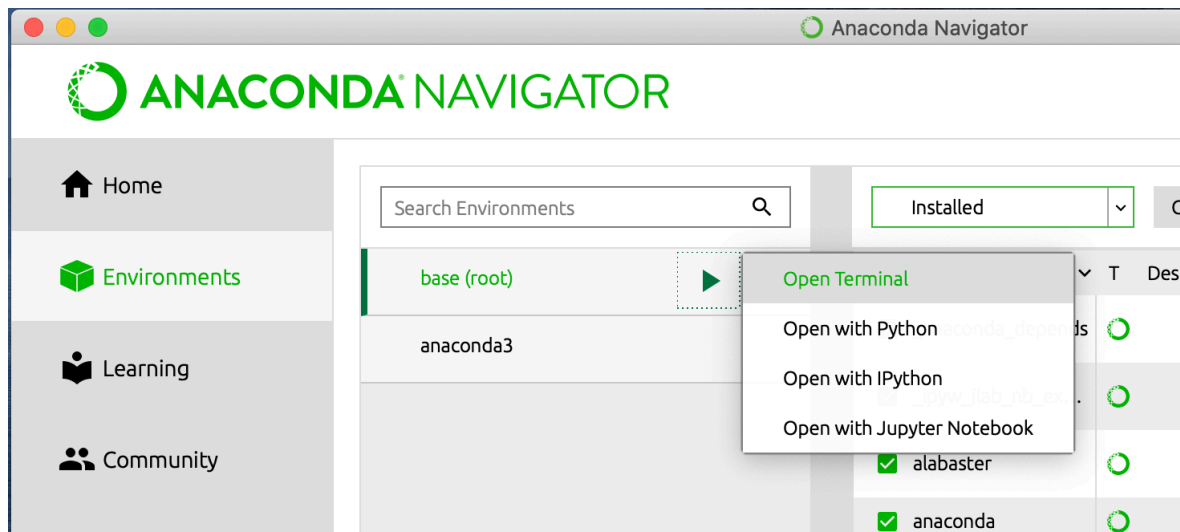
Get the data ready...



1. Download compressed files from online repository
2. Decompress (e.g. unzip) file(s) into preferred working directory

Before we start... < TROUBLESHOOTING > launch JupyterLab

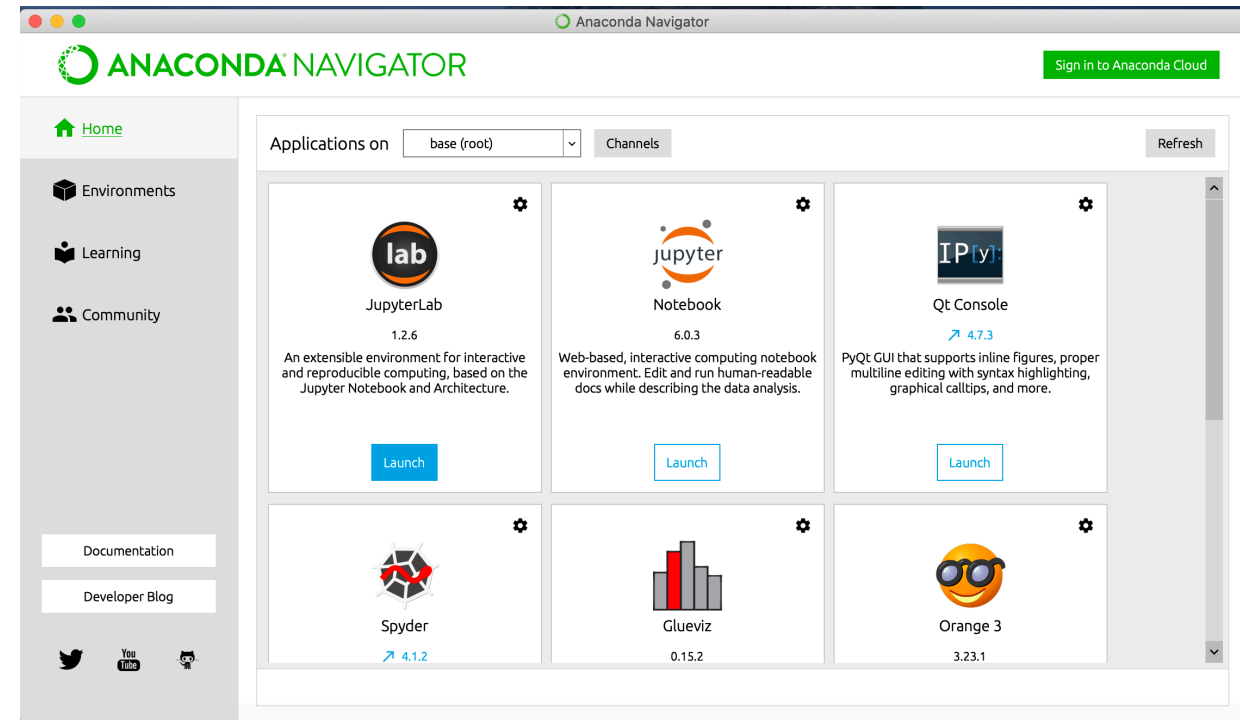
[illustration: launching JupyterLab on a Mac* – Left: from Anaconda Terminal; Right: from Anaconda GUI]



```

Last login: Sat Jun 27 22:23:00 on ttys004

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
. /opt/anaconda3/bin/activate && conda activate /opt/anaconda3;
(base) ~$ . /opt/anaconda3/bin/activate && conda activate /opt/anaconda3;
(base) ~$ jupyter lab
```



[*Similar procedure for Windows users]

Before we start... < TROUBLESHOOTING > launch JupyterLab

The first screenshot shows the JupyterLab interface with the 'File' menu open. The 'New Launcher' option is selected. A blue arrow points from the 'Python 3' notebook icon to the second screenshot.

The second screenshot shows the file browser with a context menu open over 'Untitled.ipynb'. A red dashed arrow points from the context menu to the third screenshot.

The third screenshot shows the file browser with a table of CSV files pre-loaded in the 'raw_data' directory.

Name	Last Modified
gapminder_all.csv	4 years ago
gapminder_gdp_am...	4 years ago
gapminder_gdp_asia...	4 years ago
gapminder_gdp_eur...	4 years ago
gapminder_gdp_oce...	4 years ago

✓ New Launcher

✓ Data files pre-loaded

Before we start... Some important keyboard shortcuts/ cheat sheets



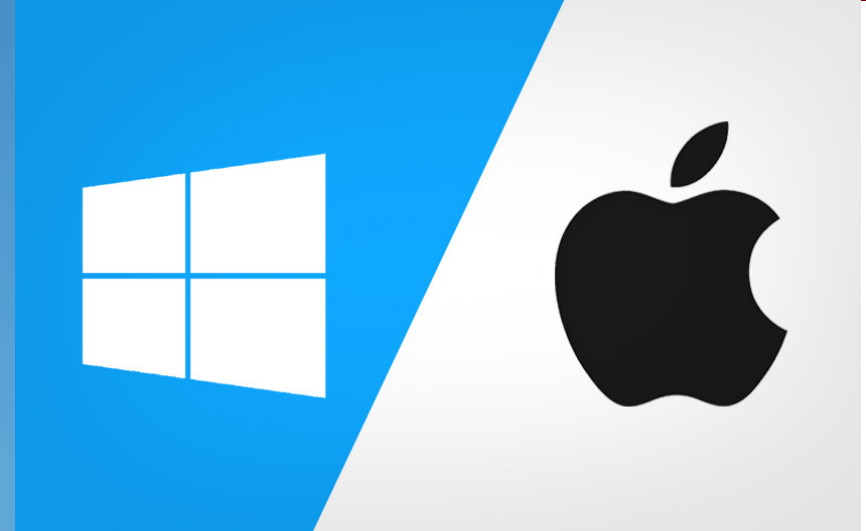
Jupyter Notebook Keyboard Shortcuts

https://cheatography.com/weidadeyue/cheat-sheets/jupyter-notebook/pdf_bw/

Jupyter Notebook Cheatsheet

https://www.edureka.co/blog/wp-content/uploads/2018/10/Jupyter_Notebook_CheatSheet_Edureka.pdf

Before we start... Please be aware..



Anaconda-Navigator/ JupyterLab could behave slightly differently when running on different OS (e.g. Windows vs UNIX [e.g. Mac or Linux] machines) and even on the same OS different Python software and library versions can 'surprise' us.