# 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

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# 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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# Before we start… < TROUBLESHOOTING > Anaconda install & setup

Individual Edition

## Your data science toolkit

With over 20 million users worldwide, the open-source Individual Edition (Distribution) is the easiest way to perform Python/R data science and machine learning on a single machine. Developed for solo practitioners, it is the toolkit that equips you to work with thousands of open-source packages and libraries.

Download

ANACONDA.

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

### Anaconda Installers

| Windows | MacOS | Linux |
|---|---|---|
| Python 3.7 | Python 3.7 | Python 3.7 |
| 64-Bit Graphical Installer (466 MB) | 64-Bit Graphical Installer (442 MB) | 64-Bit (x86) Installer (522 MB) |
| 32-Bit Graphical Installer (423 MB) | 64-Bit Command Line Installer (430 MB) | 64-Bit (Power8 and Power9) Installer (276 MB) |

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# 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

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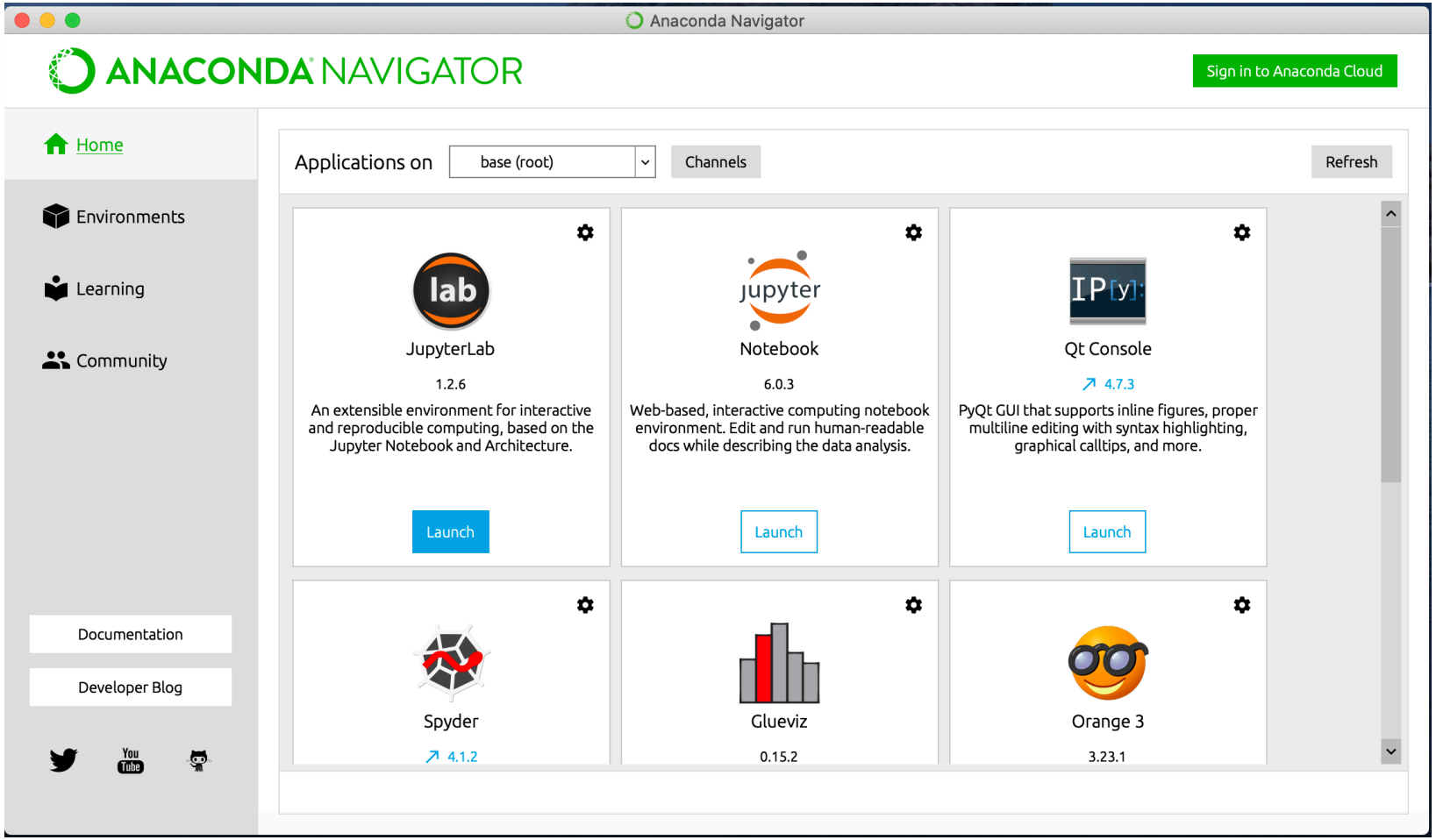
# Before we start… < TROUBLESHOOTING > Anaconda/ JupyterLab


[ *illustration*: launching Anaconda-Navigator on a Mac ]

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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 ]


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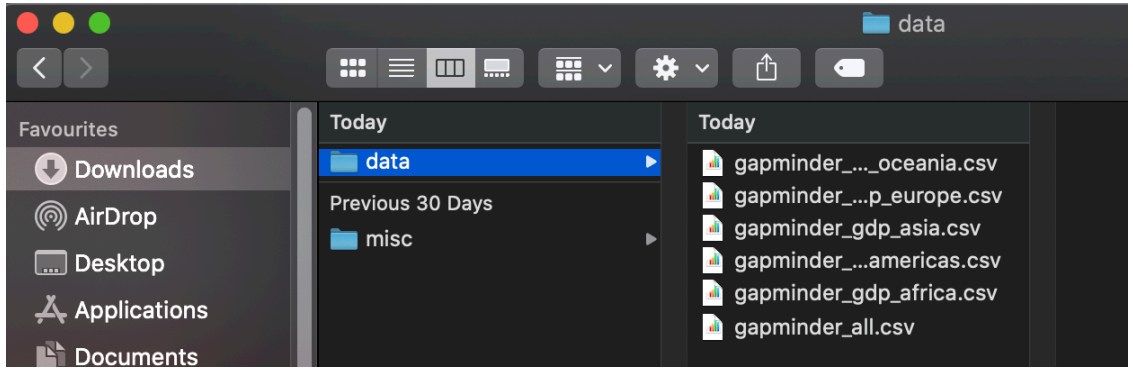
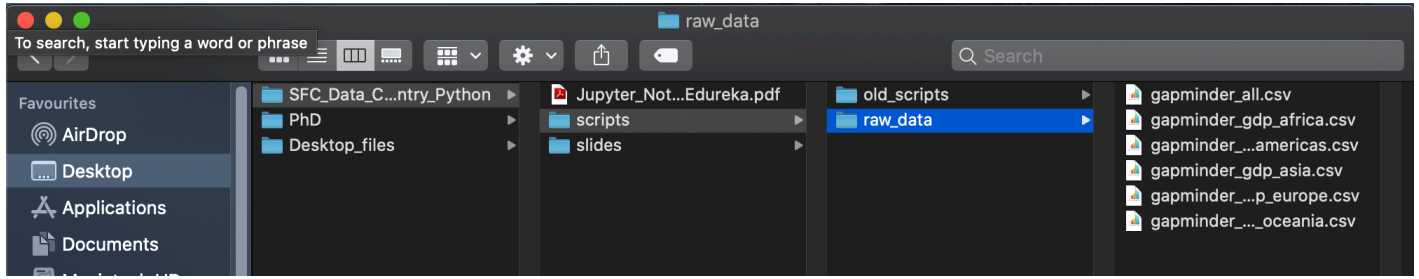
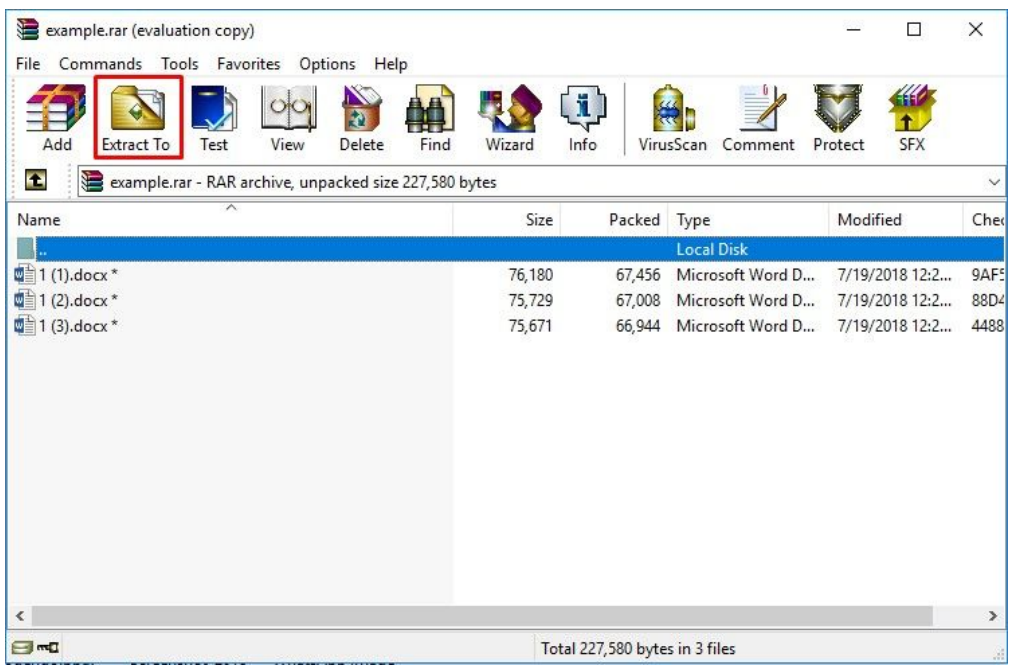
# Before we start… < TROUBLESHOOTING > Get the data ready…




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

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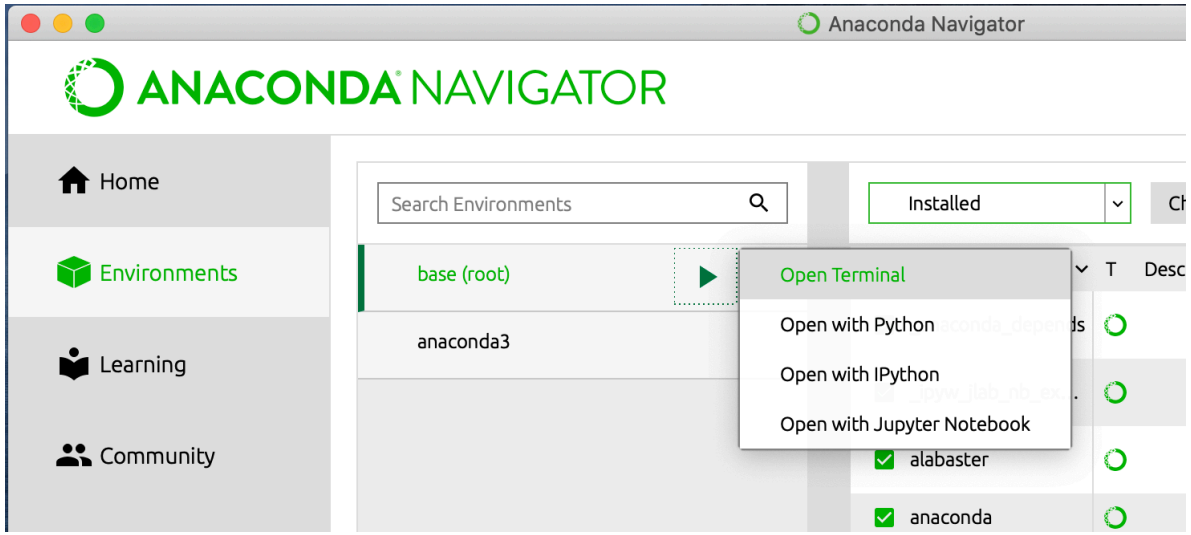
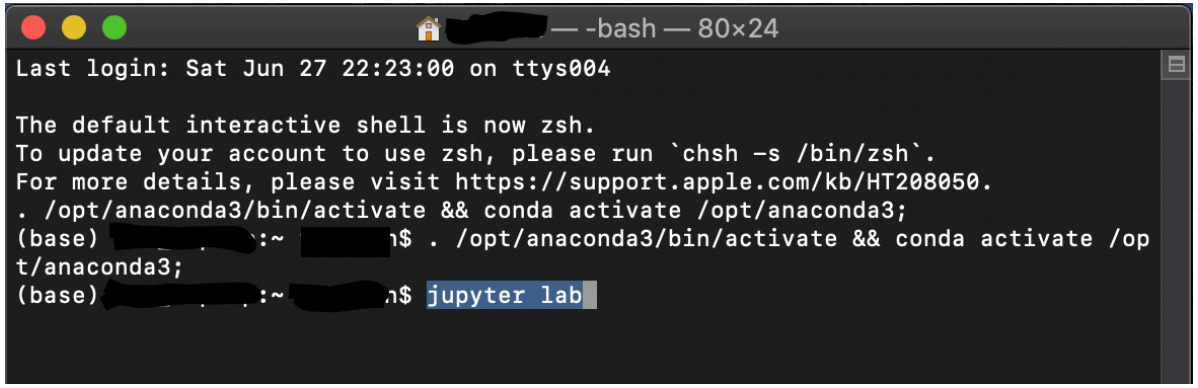
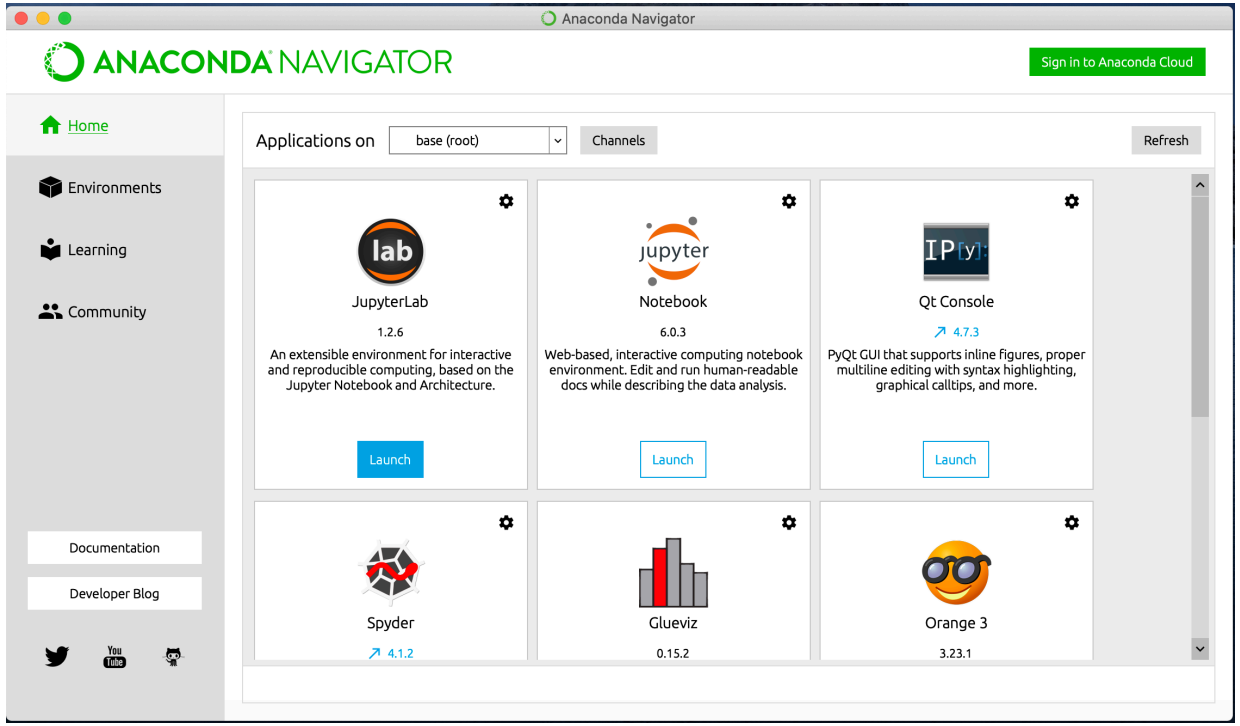
# Before we start… < TROUBLESHOOTING > launch JupyterLab

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




[ *Similar procedure for Windows users ]

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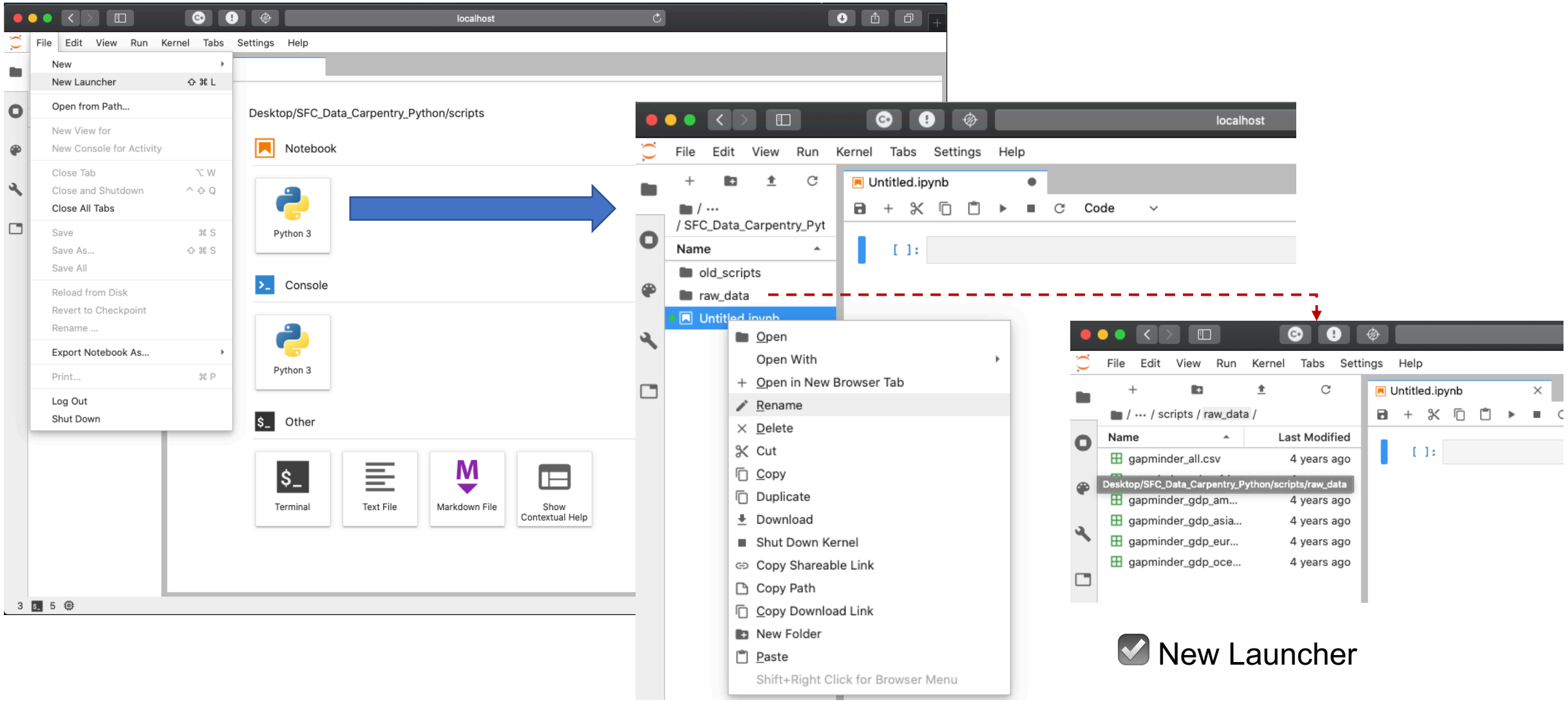
# Before we start… < TROUBLESHOOTING > launch JupyterLab




- [x] New Launcher
- [x] Data files pre-loaded

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# 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

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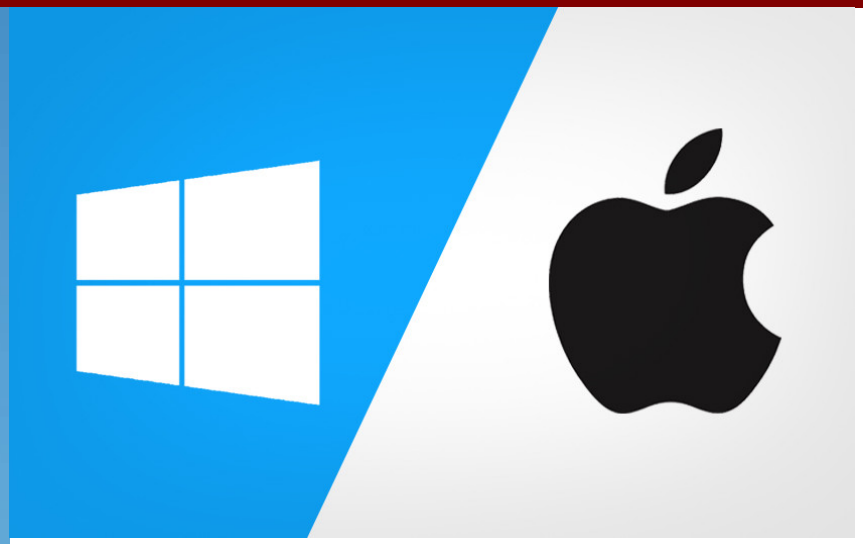
# Before we start… **Please be aware..**



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.