

# Software Installation Instructions for Python/R Exercises

All materials are posted on [GitHub](#)

## **Installation:**

- We will be using Anaconda, which is an awesome open-source package/environment manager and Python distribution that comes with a collection of many useful pre-installed Python packages/libraries.
- Download for [[Windows](#)] or [[macOS](#)]
- See installation instructions for your operating system [[HERE](#)]

## **Installing R (for data visualization tutorial):**

- Open "Anaconda Prompt" (Windows: right-click >> "Run as Administrator")
- To install R (with R Studio):
  - o Windows Users: `conda install -c r rstudio r-essentials`
  - o Mac Users: `sudo conda install -c r rstudio r-essentials`
- To install R (without R Studio):
  - o Windows Users: `conda install -c r r-essentials`
  - o Mac Users: `sudo conda install -c r r-essentials`
- When prompted, type "y" and press "Enter" to continue

## **Starting Jupyter Notebook:**

- The Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text. It's essentially a popular tool used for interactive computing!
- Open "Anaconda Prompt"
- Change to the directory of your choosing, for example:
  - o MacOS: `cd ~/Desktop/`
  - o Windows: `cd "C:\Users\USERNAME\Desktop\ "`
- Open Jupyter Notebook: `jupyter notebook`
  - o This will open a navigation window in your default internet browser
- In the left-hand corner of the navigation window, click: "New" >> "Notebook: Python 3"

## **Congratulations! You have successfully opened your first Jupyter Notebook!**

We will be using Jupyter Notebooks during all of our tutorial sessions. You might also find them helpful to use for your own research purposes as well! We will be going through a quick Jupyter Notebook and Python tutorial during the session.

In the meantime, here are some light exercises using Python & Jupyter Notebooks:

1. <https://www.dataquest.io/blog/jupyter-notebook-tutorial/>
2. <https://www.datacamp.com/community/tutorials/tutorial-jupyter-notebook>
3. <https://developers.google.com/edu/python/>
4. <https://wiki.python.org/moin/BeginnersGuide>