# Getting Started with Jupyter Notebooks

There are multiple options to access Jupyter notebooks. **You will need at least Option 1 to be able to participate during this portion of the workshop.**

- Other installations are optional - you would only choose one of them to install on your computer

## Installation

**Option 1**: The easiest way to get started right away is with a google account and colaboratory (Google's version of Jupyter notebooks).
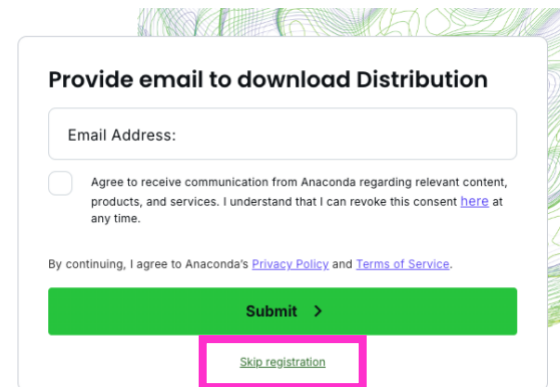
- These notebooks can be saved in your google drive, and open in a browser window
- They are entirely run in the cloud, and do not require you to download any software onto your computer
- Works on tablets

[* Go to the 2nd page to check you have access to Google colab with your account (or how to set one up)*](#)

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**Option 2**: Download Anaconda ([https://www.anaconda.com/download](https://www.anaconda.com/download)) which uses a GUI

- You can create an account, or **skip registration** to download without an account



- Instructions on how to do this for mac and windows (links to video tutorial as well) can be found here: [https://docs.anaconda.com/anaconda/install/](https://docs.anaconda.com/anaconda/install/)

**Option 2** is not required but will be demonstrated during the session

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**Advanced (if you are comfortable using the command line):**

**Option 3**: If you do not have ~4GB of space, you can install miniconda based on instructions here: [https://docs.anaconda.com/miniconda/](https://docs.anaconda.com/miniconda/)

**Option 4:** You can use the command line to pip install jupyter: [https://realpython.com/jupyter-notebook-introduction/](https://realpython.com/jupyter-notebook-introduction/)

Options 3 & 4 will not be covered in this workshop

## Checking that you have access to Google Colaboratory (Requires a Google Account)

If you don't want to use your school gmail account, you can use your personal account, or setup a new one if you need to (<mark>skip this if you don't need to setup</mark>):

1. You will need a google (gmail) account to access Google Colaboratory (just Colab for short)
    a. If you already have a personal google account, you are welcome to use that
    b. You do not need to make a separate account
2. You need to have an accessible google account because the notebooks we will work with in Colab will be saved to your google drive
    a. You will need to save copies of your work to this location (done mostly automatically with the notebook setup)
3. If you don't already have an account, you can setup one up here:
    a. https://support.google.com/accounts/answer/27441?hl=en#
    b. Click the blue button that says 'For myself'



<mark>If you plan to use an account that already exists, start here:</mark>

4. Once you are logged in to your account, go to the following webpage: https://colab.research.google.com/
    a. You should then see a screen like this:
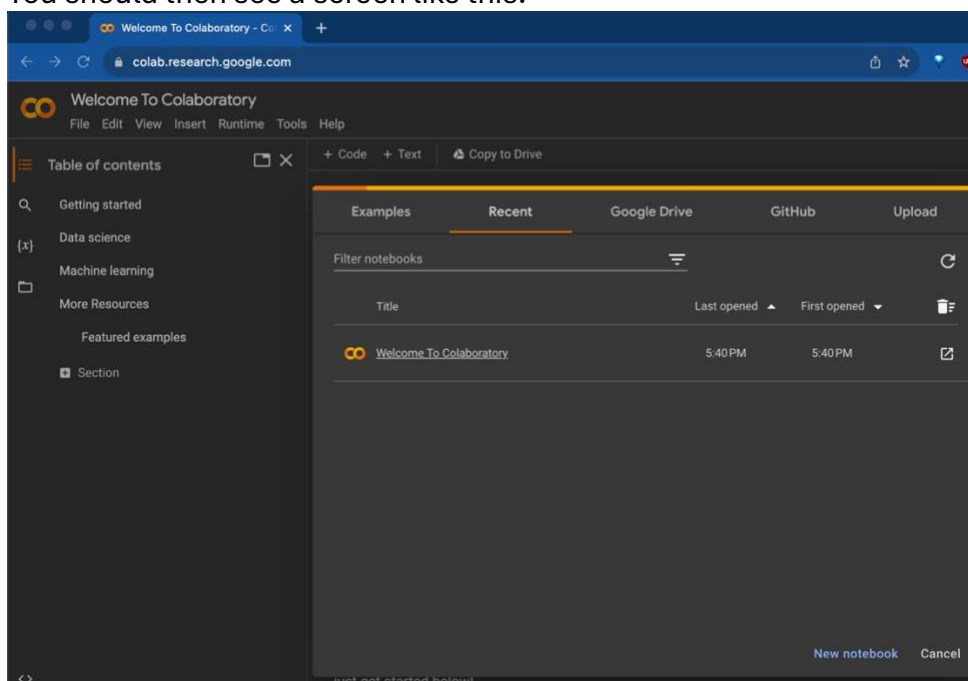
b. Note: It is recommended you use Google Chrome as your web browser when working in Colab
5. This confirms that you have an active account and can access Colab

**[Optional Steps]**

6. If you would like to further test how it works, you can read through the initial notebook and instructions (Welcome to Colaboratory)
7. You can also check that it is connected to your google drive (where you can save files) by going to the Menu and selecting: File >> New Notebook.
8. This will create a new, blank notebook called 'Untitled0.ipynb'
   a. A new folder in your google drive called 'Colab Notebooks' is created and it will be saved here:

My Drive > Colab Notebooks ▾

Type ▾    People ▾    Modified ▾

Name ↓

CO    Untitled0.ipynb
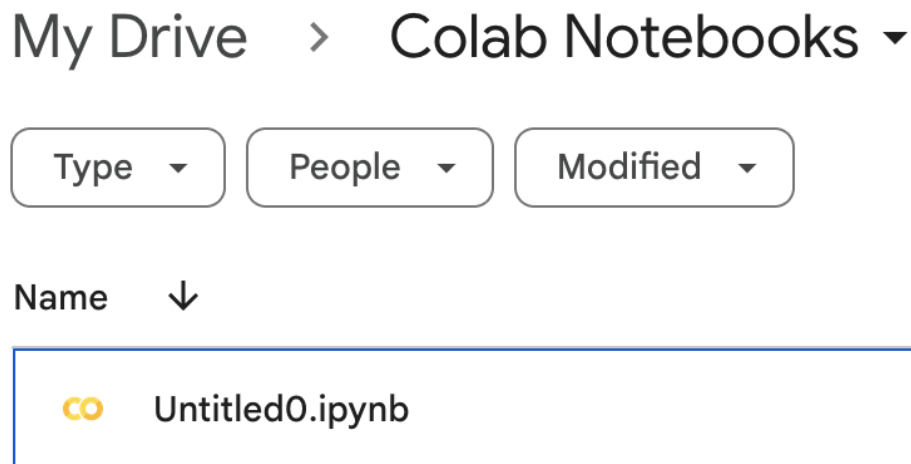
# Notes about how it will work for this workshop

I have already created a link to the code notebook and it will be shared with you.

Alternately, you can find a copy on my github webpage: https://github.com/tmckim/python-crash-course

- You cannot *immediately* edit the notebooks that will open from the links provided
  o This is a safe guard so everyone starts with the same code notebook
- You will need to **save a copy of the notebook first** before you can proceed to work with the code
- Colab usually warns you of this when you go to run the first cell in the notebook
  o I have also put this into the instructions at the top of the notebook as a reminder
  o This is important so that you can save your work along the way

# Some (maybe) helpful references:

https://realpython.com/jupyter-notebook-introduction/

https://www.dataquest.io/blog/jupyter-notebook-tutorial/

https://www.codecademy.com/article/how-to-use-jupyter-notebooks

https://www.codecademy.com/article/getting-started-with-jupyter