

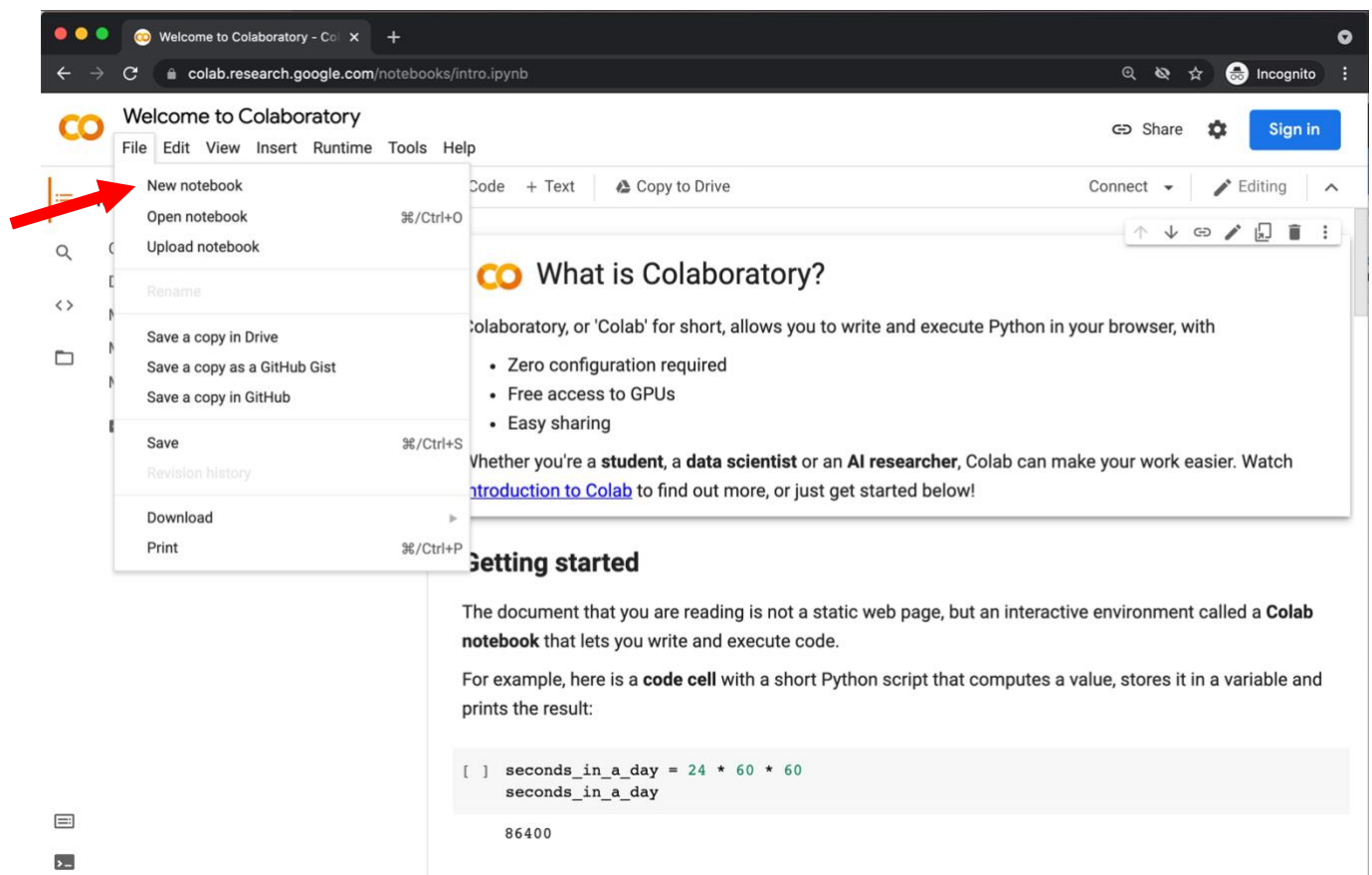
Start coding with Python Notebooks

Getting started with a notebook

There are two different options of notebooks that we suggest you use: Jupyter notebook and Colab. Both of these have very similar formats in that they both allow you to write code in a 'notebook' format that is easy to edit and change as you go along. Colab doesn't require you to download anything - it's a Google program and works similarly to Google docs or Google slides in that it's completely online. For those reasons we recommend Colab. The only caveat is that you need a Google account (i.e. a gmail account). That being said, in the tutorial videos we use Jupyter notebooks. Jupyter notebook is a program that must be downloaded to your local computer.

COLAB

Get started with Colab by heading to <https://colab.research.google.com/>.



Get started by clicking on **File** -> **New Notebook**. This will open a new notebook for you. If you haven't already logged into a google account you will be prompted to do so at this point.

Add a new code or text cell

The screenshot shows a Google Colab notebook titled "Getting Started with COLAB.ipynb". The interface includes a menu bar with "File", "Edit", "View", "Insert", "Runtime", "Tools", and "Help". A toolbar at the top right shows "RAM", "Disk", and "Editing" status. The notebook content is as follows:

- A text cell with the title "Getting started with COLAB" and the text: "This is a text cell! In text cells you can write whatever you want without disrupting the code part of the notebook. You can use hashtags to change the size of the text (just like in the title here), add a link to a [website](#). Double click on markdown cells to edit the text."
- A code cell containing:


```
[2] # This is a code cell
      print ("Welcome to planet hunters coffee chat!")
```

 Below the code, the output "Welcome to planet hunters coffee chat!" is displayed.

Red arrows point to the following elements:

- The "+ Code" and "+ Text" buttons in the top left toolbar.
- The text cell title "Getting started with COLAB".
- The text "Text following a hashtag is a 'comment' and ignored by the code." pointing to the "# This is a code cell" line in the code cell.
- The code cell itself, labeled "This is a code cell".
- The output "Welcome to planet hunters coffee chat!" below the code cell, labeled "Output from the code appears underneath the code".
- The play button (run/execute) in the bottom left of the code cell, labeled "Press the arrow to run/execute the code".
- The trash icon (delete) in the bottom right of the code cell, labeled "Press the 'bin' to delete an entire cell".

Jupyter Notebook

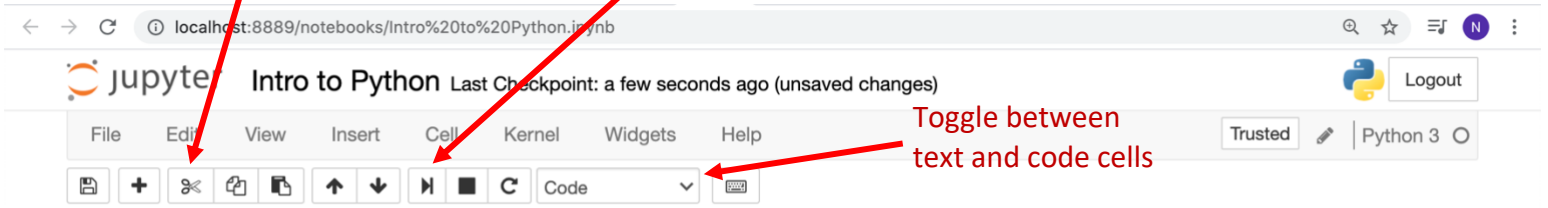
Unlike COLAB, you have to download Jupyter notebook. Find out how to download it at <https://jupyter.org/>. Alternatively you can install **anaconda navigator**, which will automatically download Jupyter notebook for you and provide an easy way to open it from your local desktop <https://docs.anaconda.com/anaconda/navigator/> (I suggest this option).

Note: if you don't install anaconda navigator, you have to open Jupyter notebook through your command line by opening up a terminal window and typing 'jupyter notebook' (if you're not used to using your computer command line, I would ignore all of this and either use COLAB and download anaconda).

Jupyter Notebooks opens up in your browser, however, it is run and stored locally on your computer. Once it has opened, you will see something that looks like this:

Press scissors to delete a cell

Press the arrow to run a cell



Toggle between text and code cells

Getting started with Jupyter Notebook

This is a text cell

This is a text cell! In text cells you can write whatever you want without disrupting the code part of the notebook. You can use hashtags to change the size of the text (just like in the title here), add a link to a [website](#). Double click on markdown cells to edit the text.

Text following a hashtag is a 'comment' and ignored by the code.

```
In [24]: # This is a code cell  
print ("Welcome to planet hunters coffee chat!")
```

This is a code cell

Welcome to planet hunters coffee chat!

In []:

Output from the code appears underneath the code