

# Using Google Colab with CSE6040 Data Analysis in Python Bootcamp Notebooks

1. Click the link provided for the Jupyter Notebook.
  - a. The notebook will open in your browser in Google Colab.
  - b. It will look similar (but not identical) to the Jupyter Notebooks in Vocareum.
  - c. The main differences are as follows:
    - i. The “Cell” and “Kernel” menus in Vocareum are replaced by the “Runtime” menu in Colab.
    - ii. The kernel in Vocareum is called the runtime in Colab.
    - iii. The “Widgets” menu in Vocareum is replaced by the “Tools” menu in Colab. You should rarely, if ever, use either of these menus.
2. You can edit code, add/delete cells, and all of the normal coding operations in Colab that you do in Vocareum.
  - a. The active cell has a context menu in the top right, that allows you to take different actions in and on the cell.



3. **You ARE NOT able to save your changes/code edits within Colab.** If you wish to save your changes, you must either:
  - a. Save a copy to your Google Drive (if you have one), or
  - b. Download to your local computer.
  - c. Both options are under the “File” menu item.
4. You can run the notebook, and cells within it, via two options.
  - a. The “Runtime” menu has multiple options for running code within the notebook.

- b. Each individual cell with executable code in it has a “Run Cell” button (black circle with white arrow) on the left of the cell, when the cell is active/highlighted.
5. The menu on the left has 4 items:
- a. Table of Contents – Shows the organization of the notebook
  - b. Search – To find text in the notebook
  - c. Variables – To see variable values in the notebook
  - d. Files – To see the files associated with the notebook. By default, Colab downloads some files in the “sample\_data” directory. Know that we do not use any of those files for the class.