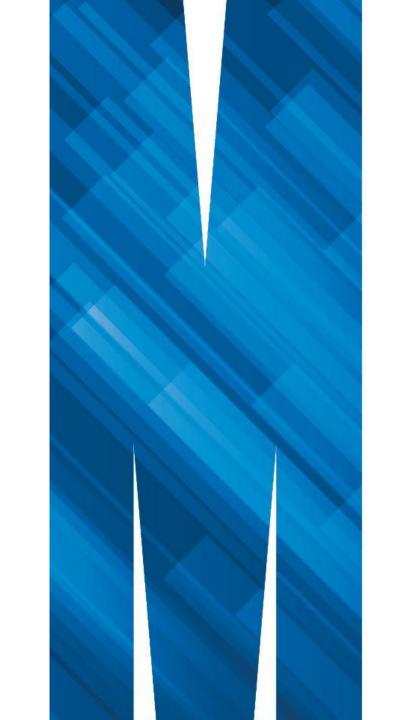


#### **FIT1043 Introduction to Data Science**

Week 1: Introduction to Jupyter

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### Installation

#### Detailed installation information can be found on the following links:

- Installing on Windows (Steps 1 to 15)
   [https://docs.anaconda.com/anaconda/install/windows.html]
- Installing on macOS (Steps 1 to 10)
   [https://docs.anaconda.com/anaconda/install/mac-os.html]

Note: You can *skip* the installation steps marked as "Optional" as we will not use those features of Anaconda during this course.

#### Some other useful installation videos:

- https://youtu.be/2JeoNICcLOM (MacOS)
- https://youtu.be/a7Ylbn1ikF0 (Windows)



# Jupyter Introduction





### Your Notebook Dashboard

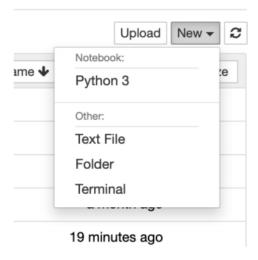
Managing your Jupyter Notebooks





### **Create Your First Notebook**

You can create a new iPython Notebook file:

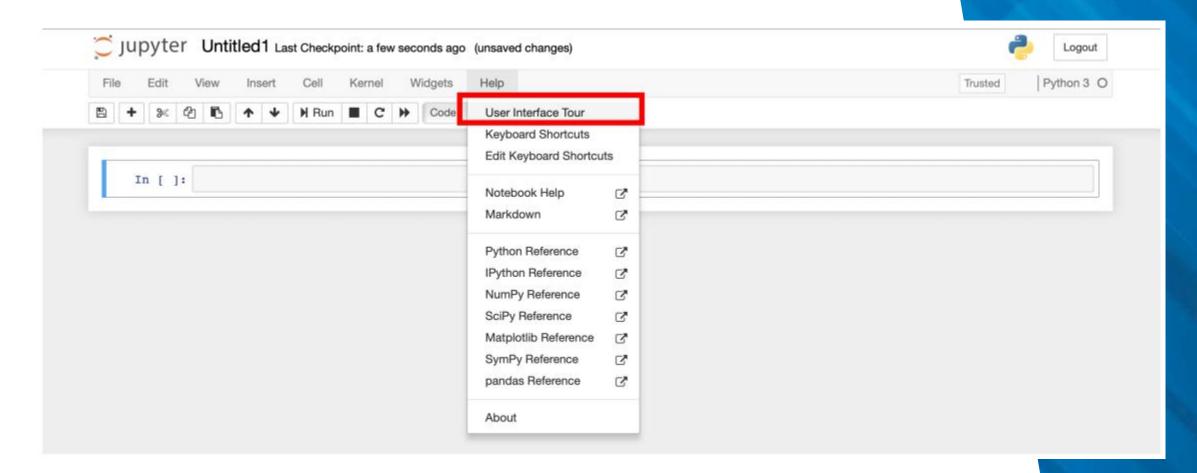


Your new iPython Notebook (default file extension is ipynb and you can rename it.





### **User Interface Tour**





### **Jupyter Notebook Terms**

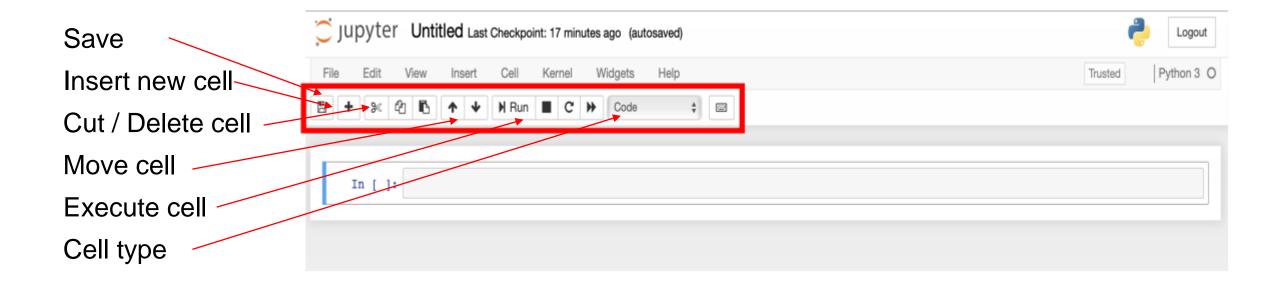
A **kernel** is a "computational engine" that executes the code contained in a notebook document.

A **cell** is a container for text to be displayed in the notebook or code to be executed by the notebook's kernel.

- A code cell contains code to be executed in the kernel and displays its output below (the cell).
- A markdown cell contains text formatted using Markdown and displays its output in-place when it is run.
- What other cell types are there?



# Jupyter Notebook's Toolbar

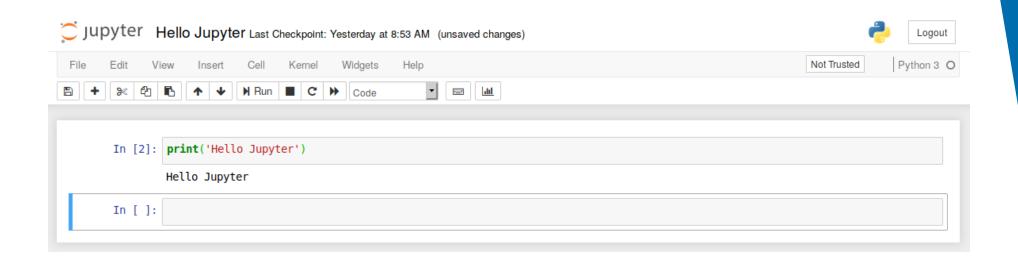




## Add the following code to the cell:

Running Cells: Enter the following into the cell print('Hello Jupyter')

Click on the "Run" button (or you can use keyboard shortcut SHIFT+ENTER)





### Markdown

Jupyter supports Markdown, a markup language (simplified HTML)

**Headers: Enter the following into the cell** 

# Header 1

## Header Two

### Header 3

https://www.markdownguide.org/cheat-sheet/

#### Change the cell type to "Markdown" and click "Run":

