- Credits and Attribution

Jupyter Notebook

Credits and Attribution

- Python is an open-source language. Tools and packages used here are all open-source.
- This module adapted part of its contents from open-source and public domain sources, which include but not limited to:
  - Python for Data Analysis Book - Wes McKinney
  - Whirlwind Tour of Python - Jake VanderPlas
  - HDB Resale Price – data.gov.sg
- Specific URLS are provided in Jupyter Notebook to acknowledge the sources and the authors.

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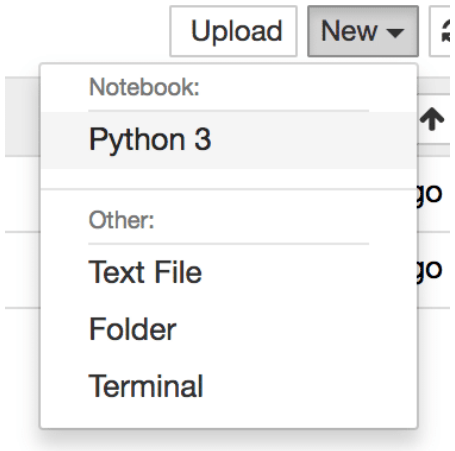
Jupyter Notebook

- Web-based
- Create and Share Codes
- Functionality:
  - Live Code
  - Live Visualisation
  - Explanatory Text/Comments in Markdown
- Usage:
  - Learn and Try Code (Python, R etc)
  - Data Processing/Transformation
  - Run, See, and Debug instantly.

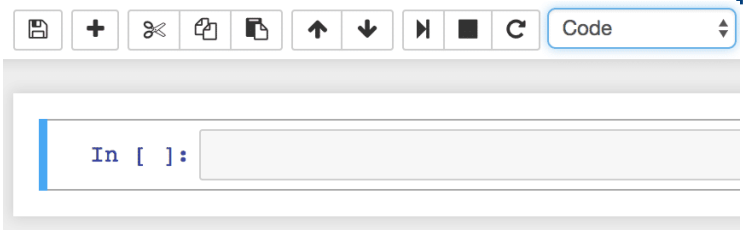
Jupyter Notebook: Installation and Run

- Install:
  - Use the Python's package manager *pip*
  - Install the Anaconda distribution
- Run:
  - Jupyter notebook (command prompt)
  - Find icon on Windows
- Creating A New Notebook

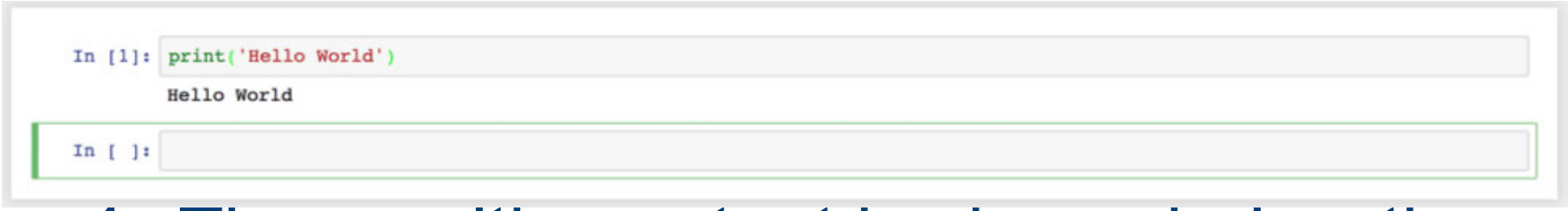


To Code with the Notebook

1. The notebook has cells. An empty cell is created:



2. Start typing in Python code
3. Execute by either clicking on the *run cell* button or hitting Shift + Return keys:

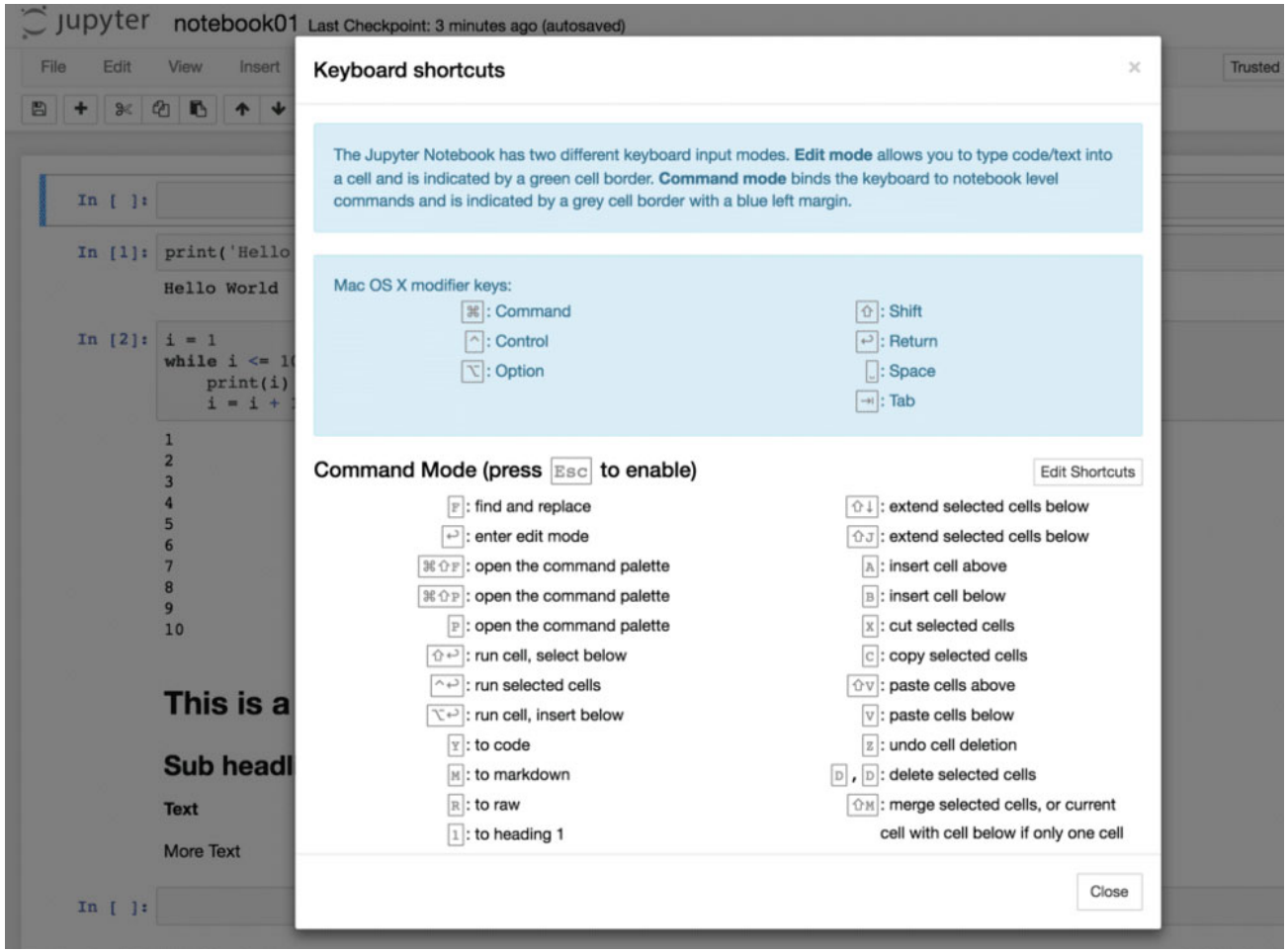


4. The resulting output is shown below the cell.

Shortcuts

Overview of key shortcuts:

- –using menu entry
- – *Help → Keyboard Shortcuts*



When reading the coursebook…

- Run each line and observe the
  - In:
  - Out:
- Understand the purpose of the line
- Experiment with each line

Please feel free to find us if you have any questions!