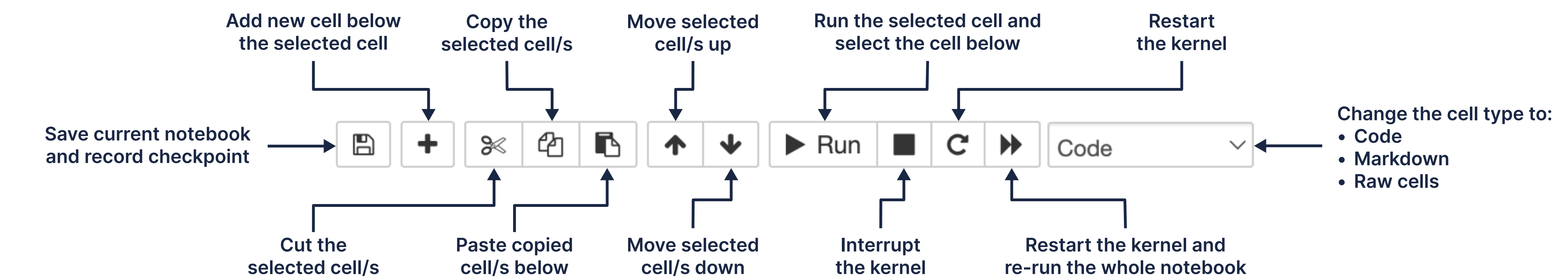


Jupyter Notebook

Jupyter Notebook is an **open-source web application** that enables us to **create** and **organise** documents that contain a combination of text, code, and visual elements. These notebooks are often employed for **data analysis**, **scientific research**, and **interactive coding projects**.

Toolbar shortcuts



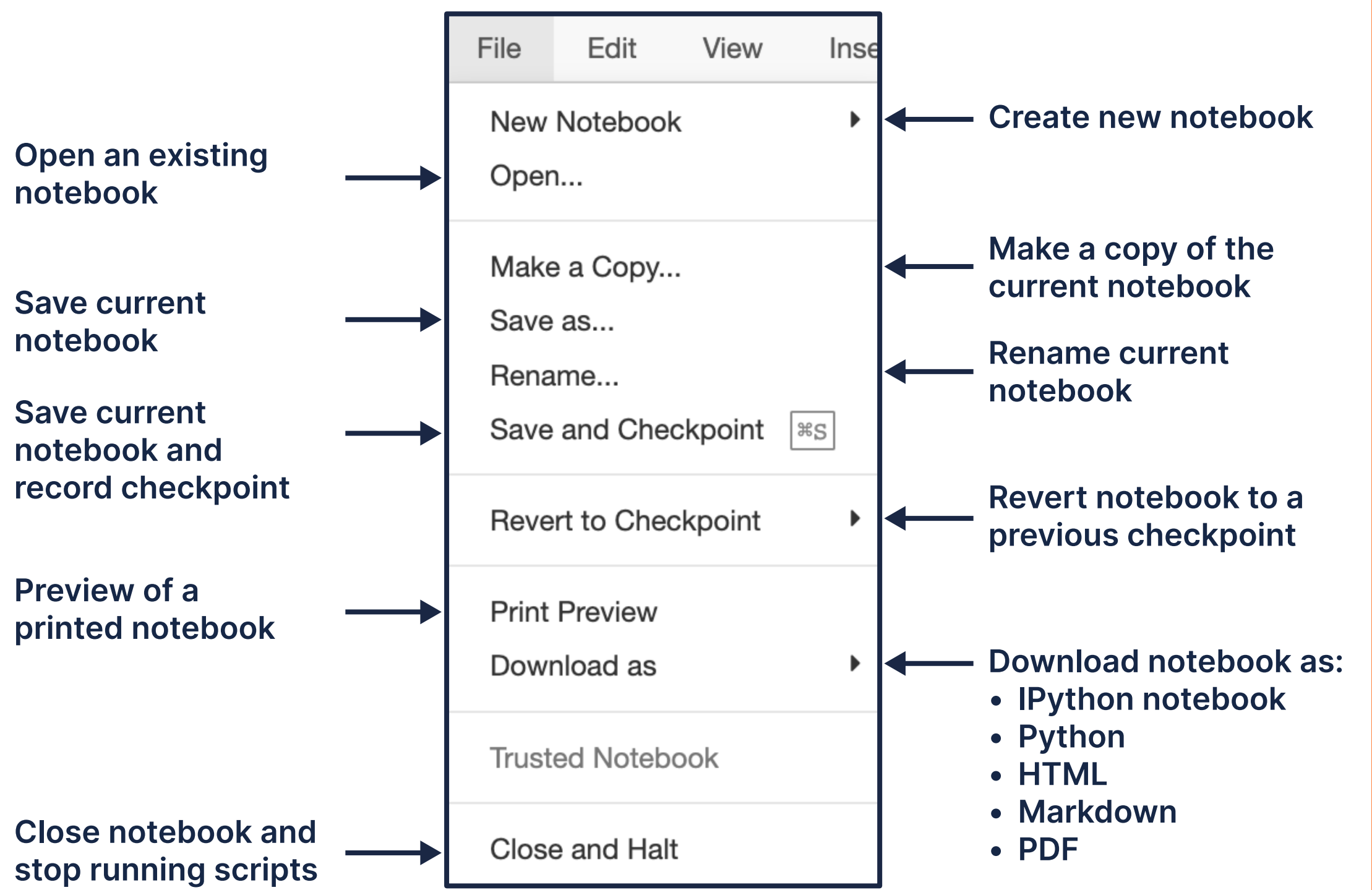
Keyboard shortcuts

Shortcut	Description
Enter	Enter edit mode
Command + s	Save and checkpoint
Command + a	Insert cell above
Command + b	Insert cell below
Shift + Enter	Run cell
Shift + m	Merge cells
Command +]; Command + [Indent; undo indent
Ctrl + Enter	Run cell
Option + Return	Run cell, insert cell below
Escape + d + d	Delete selected cell
Escape + y	Change cell to code
Escape + m	Change cell to markdown
Escape + r	Change cell to raw
Escape + 1 or 2 or 3	Change cell to Heading 1, 2 or 3
Escape + b	Create cell below
Escape + a	Insert cell above

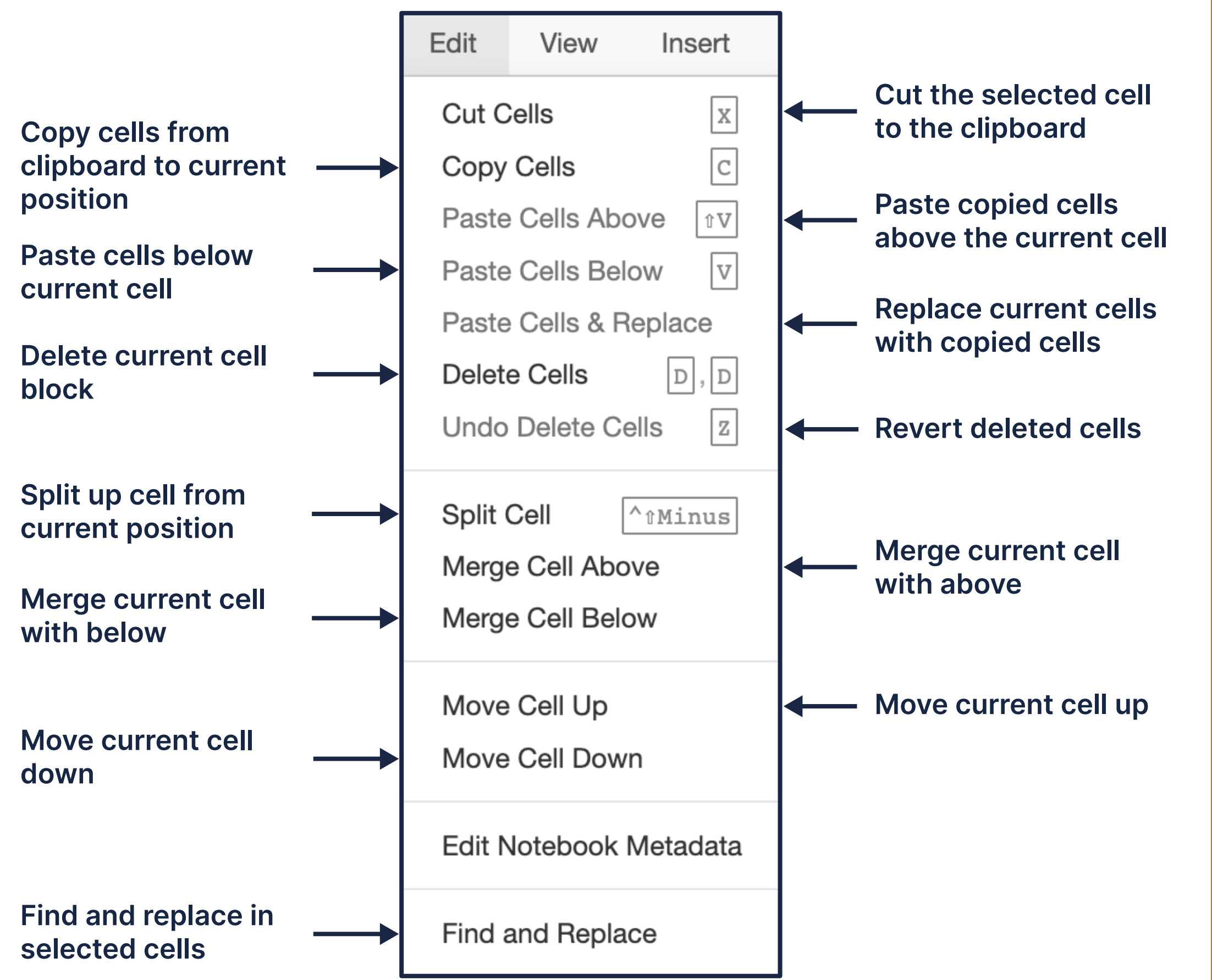
Commonly used terms

Cell	A multi-line text input field that allows code to be separated into sections that can be executed independent of one another.
Kernel	Separate processes started by the server that run our code in different programming languages and/or environments.
Code cell	Used for input commands and scripts. When executed, the notebook processes the code and displays the output.
Markdown cell	Used for documentation. We can write text, add headers, and format the content to explain the code.
Raw cell/Raw NBConvert	Unprocessed content. It's a space to input data or notes without the notebook interpreting or executing it.
Checkpoint	Checkpoint files are temporary files that Jupyter Notebook generates automatically while we are working on a notebook. By default, Jupyter will autosave the notebook every 120 seconds to this checkpoint file without altering the primary notebook file. When we “ Save and Checkpoint ”, both the notebook and checkpoint files are updated. Hence, the checkpoint enables us to recover unsaved work in the event of an unexpected issue.

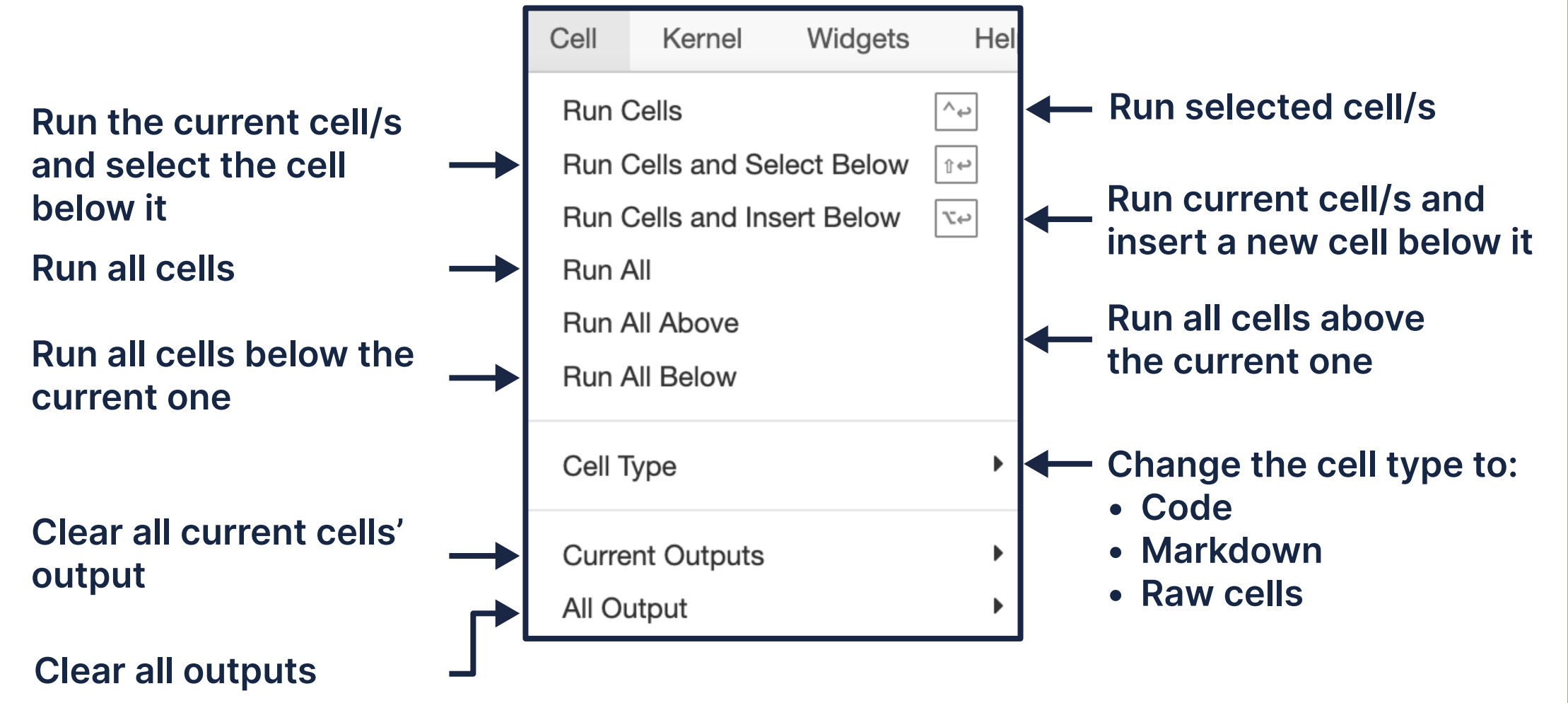
Saving and loading a notebook



Edit cells



Execute cells

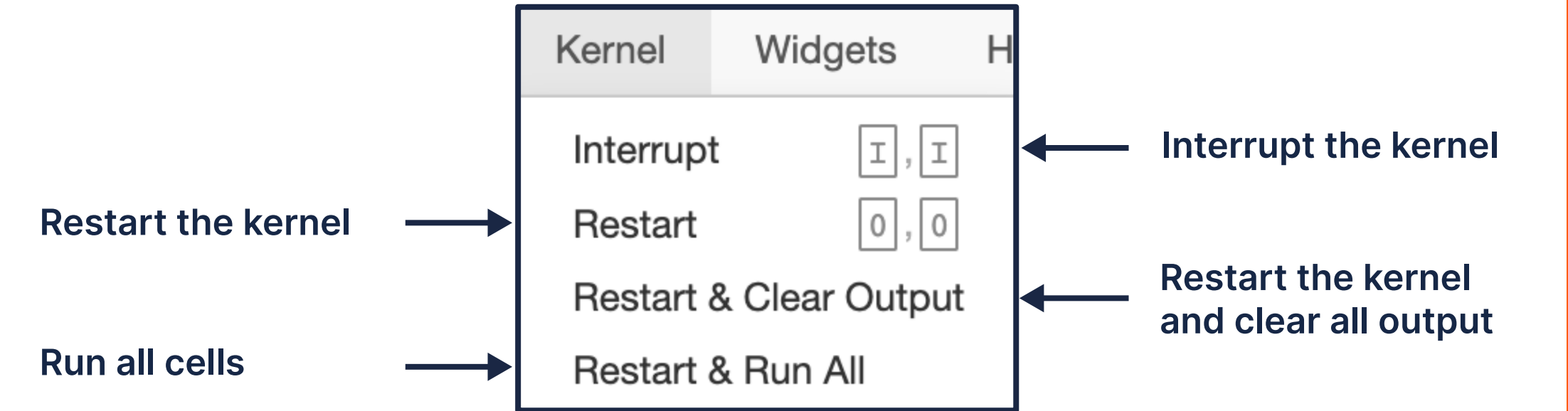


Cell statuses

The **[]**: symbol to the left of each code cell describes the state of the cell:

- []**: means that the cell has not been run yet.
- [*]**: means that the cell is currently running.
- [1]**: means that the cell has finished running and was the first cell to run.

Kernel cells



Insert cells

