

Installing Anaconda + adding Python libraries

Python workshop

Winter 2025

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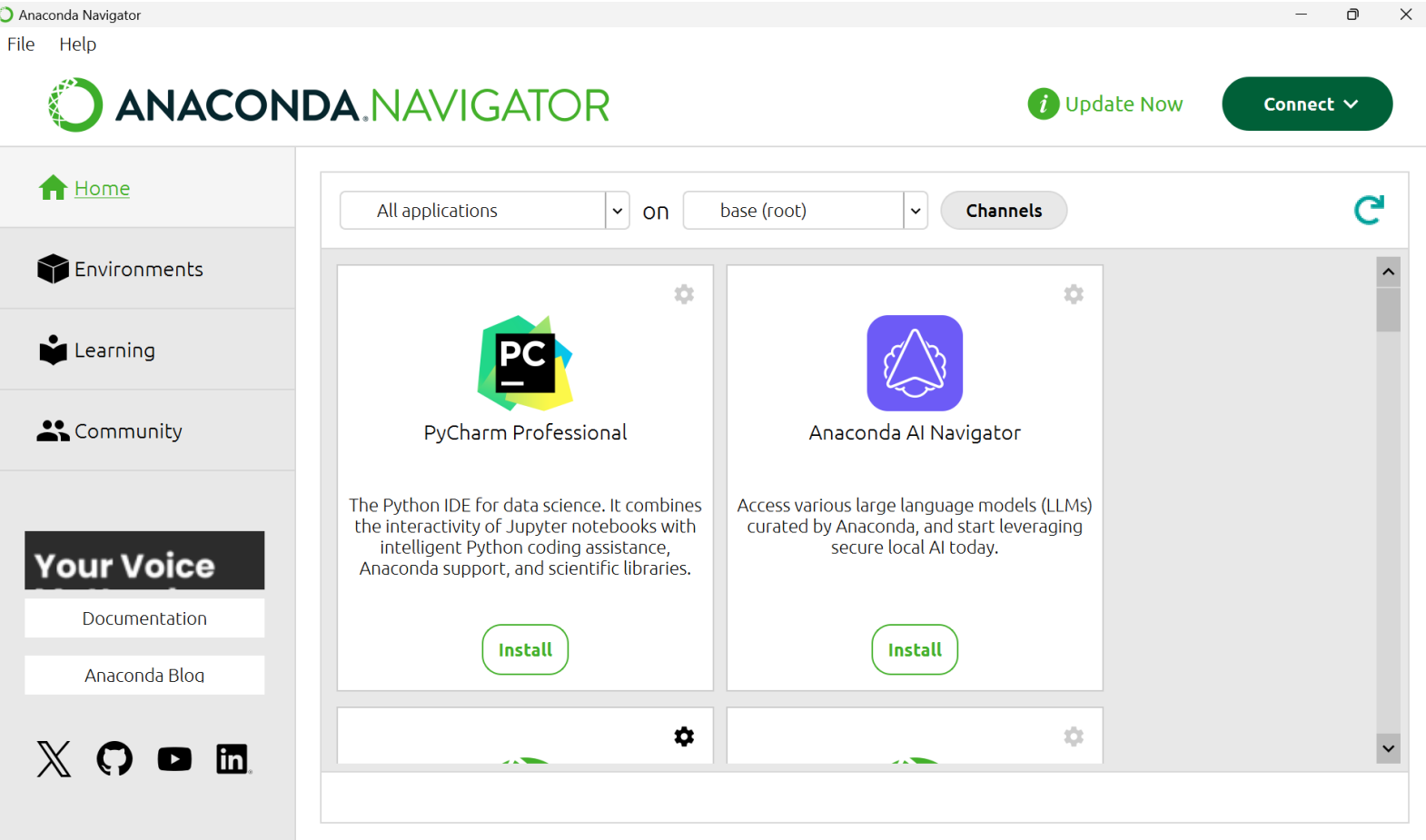
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The Desktop Portal to Data Science.

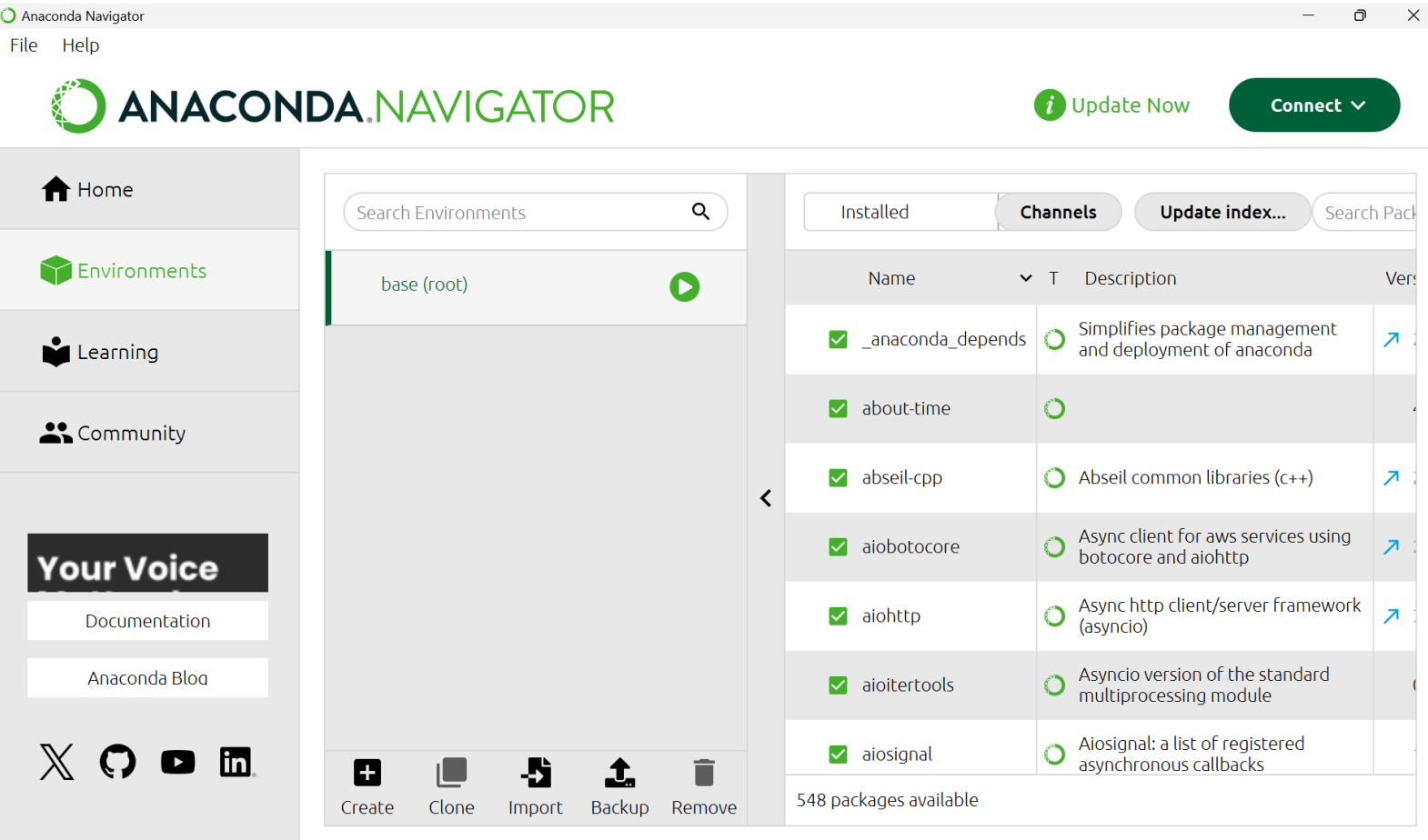
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This is the software we will use to write and execute Python scripts

When you open the application, it should look like this:



To download Python libraries, navigate to the “Environments” tab



Make sure you have selected the “base (root)” environment before you start downloading things

Change the drop-down option to show “All” libraries and then search for the name of the library you would like to download:

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opencv

Name	Description	Version
<input type="checkbox"/> libopencv	Computer vision and machine learning software library.	4.10.0
<input checked="" type="checkbox"/> opencv	Computer vision and machine learning software library.	4.6.0
<input checked="" type="checkbox"/> opencv-python		4.9.0.80
<input type="checkbox"/> py-opencv	Computer vision and machine learning software library.	4.10.0

4 packages available matching "opencv"

If the library you want does not appear here as a downloadable option, we will need to download it via the command line using the “**conda install**” command

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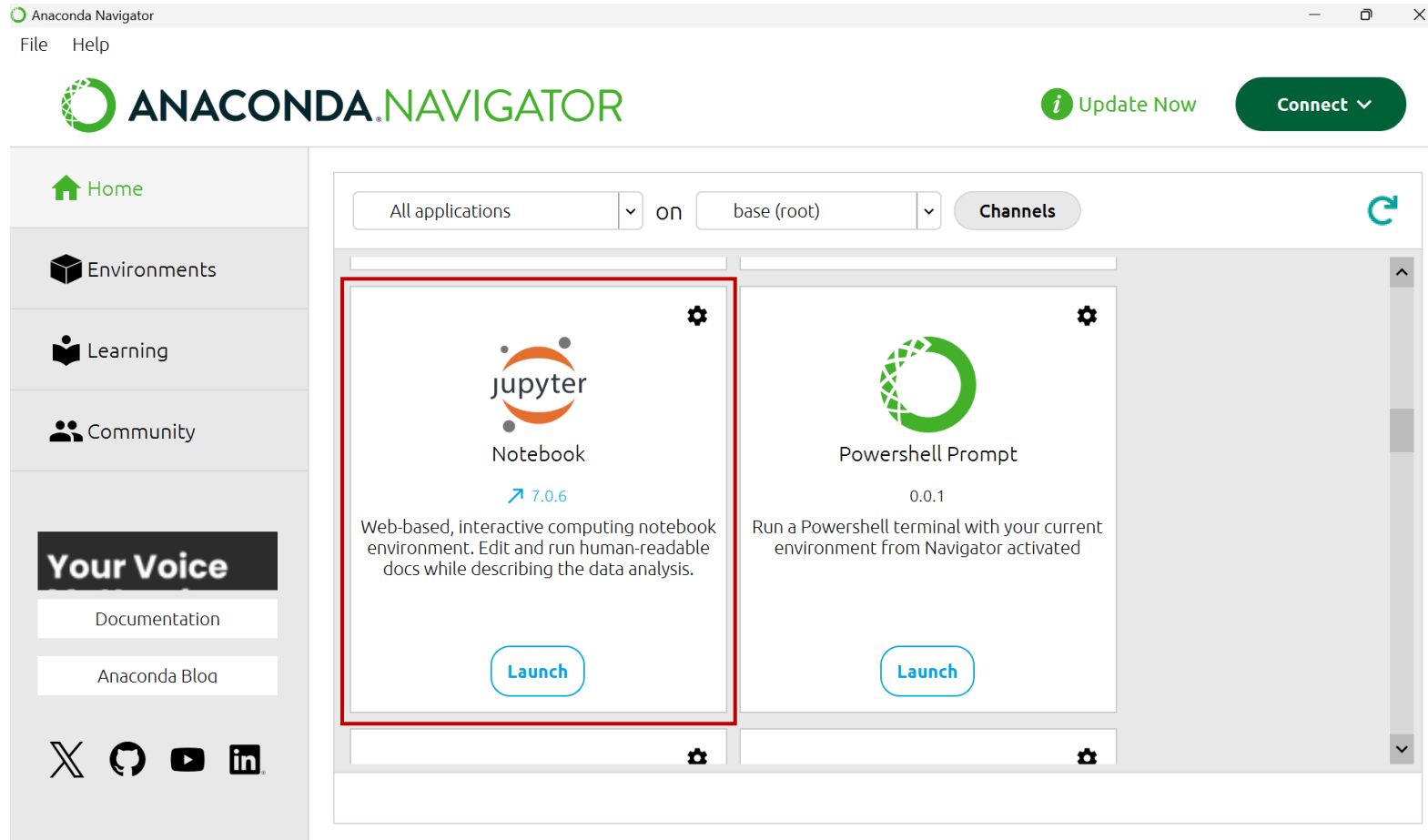
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4 packages available matching "opencv"

For this workshop, please make sure you install (some may already be installed):

- matplotlib
- numpy
- scipy
- pandas
- opencv
- cv2
- skimage

For this workshop, we will be using Jupyter notebook, which you can launch from the home page:

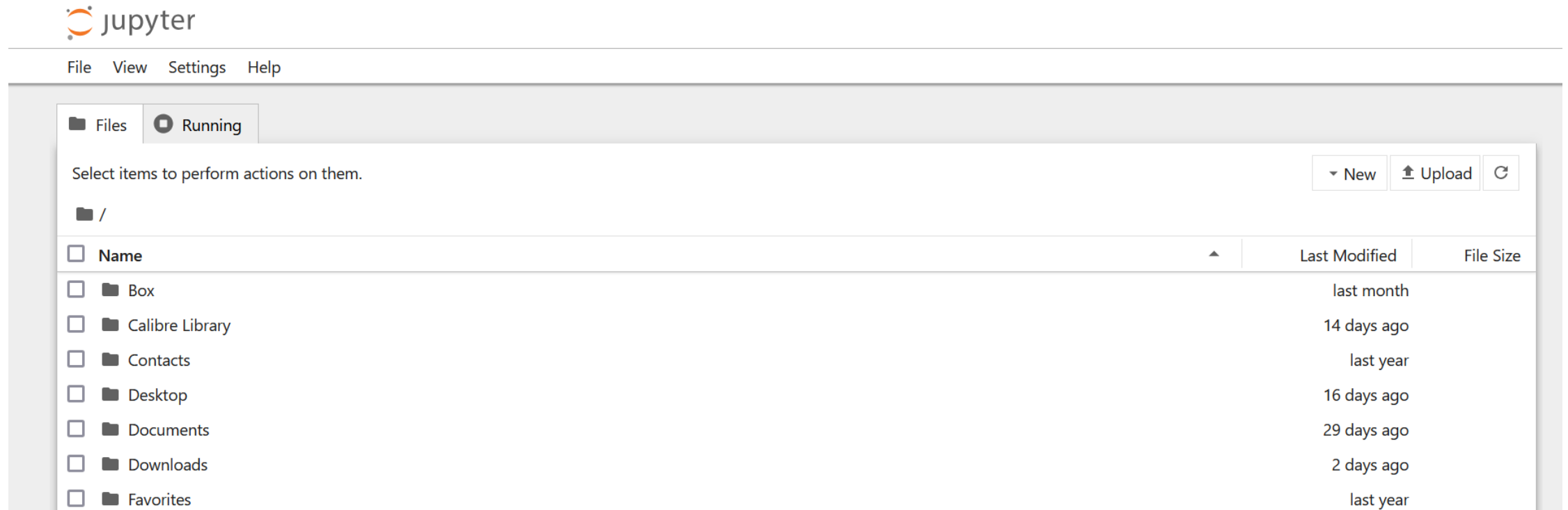


Spyder is another good option that is available in Anaconda



Launching Jupyter should open a web-browser window with a list of directories on your computer

Create a designated folder for your Python files here



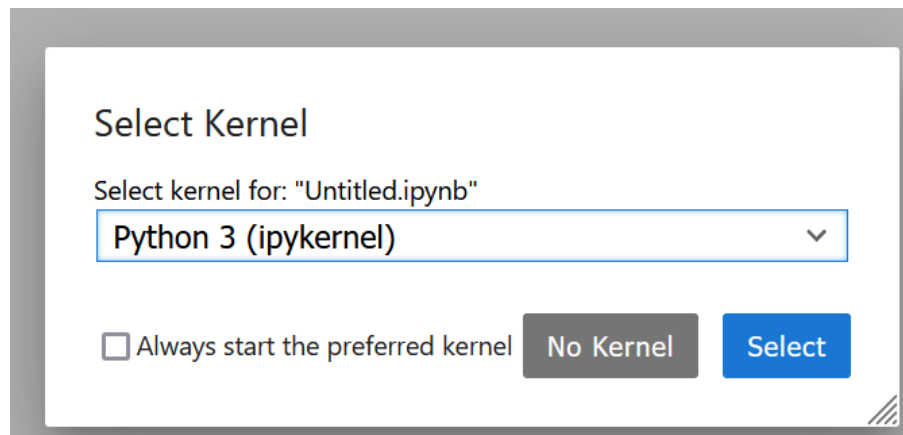
The screenshot shows the Jupyter web interface. At the top, there is a header with the Jupyter logo and the word "jupyter". Below the header is a navigation bar with links for "File", "View", "Settings", and "Help". The main content area is divided into two tabs: "Files" and "Running". The "Files" tab is active, showing a file browser interface. At the top of the file browser, there is a message "Select items to perform actions on them." and three buttons: "New", "Upload", and a refresh icon. Below this, there is a breadcrumb path showing the root directory "/". A table lists the contents of the root directory, with columns for "Name", "Last Modified", and "File Size". The table contains the following entries:

<input type="checkbox"/> Name	Last Modified	File Size
<input type="checkbox"/> Box	last month	
<input type="checkbox"/> Calibre Library	14 days ago	
<input type="checkbox"/> Contacts	last year	
<input type="checkbox"/> Desktop	16 days ago	
<input type="checkbox"/> Documents	29 days ago	
<input type="checkbox"/> Downloads	2 days ago	
<input type="checkbox"/> Favorites	last year	

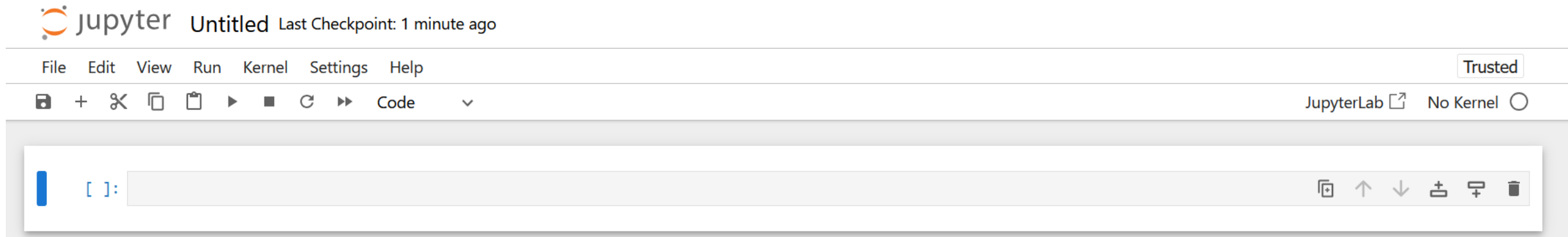
Once you have opened the folder, click 'New' and create a new notebook



Make sure Python 3 is selected



This is where the magic happens! Make sure to save often



Your first cell should include all your library import commands like so:

```
[3]: import matplotlib.pyplot as plt
import numpy as np
```

To run a cell of code, hit **Shift+Enter** (on a PC)

Misc tips

- When the cell number says [*], this means the cell is actively running and has not completed its operation
- When [*] becomes a number, this marks the order in which you have executed your cells---order matters!

- E.g. This is OK:

```
[1]: import matplotlib.pyplot as plt  
import numpy as np
```

```
[2]: # imagine a command that uses matplotlib here
```

- But this will not work:

```
[ ]: import matplotlib.pyplot as plt  
import numpy as np
```

```
[3]: # imagine a command that uses matplotlib here
```

Misc tips

- If your code is stuck or running too long, you can force it to quit by clicking:

