Anaconda

- Install [Anaconda](Python distribution for data science with popular libraries and tools)

- Download the latest version of Anaconda for Python 3 https://anaconda.org/

Anaconda installs both Python and Jupyter Notebook

Anaconda Navigator

Search for the Anaconda
Navigator Icon

Start Menu:
Type –
anaconda navigator
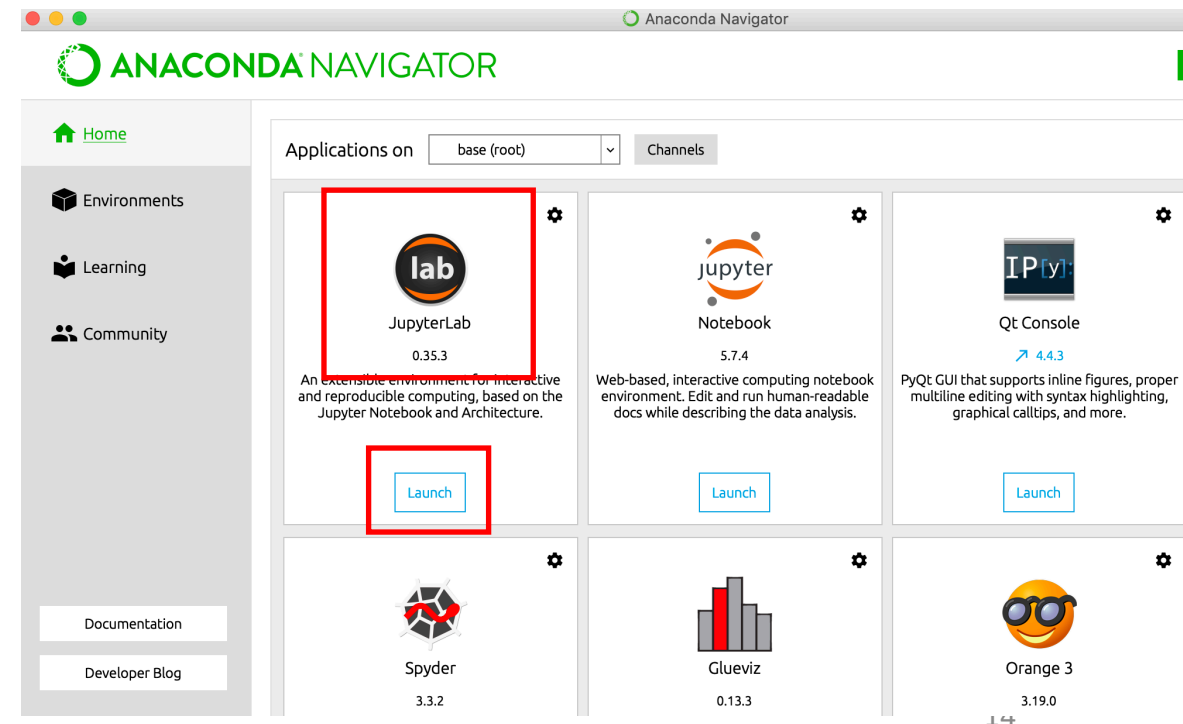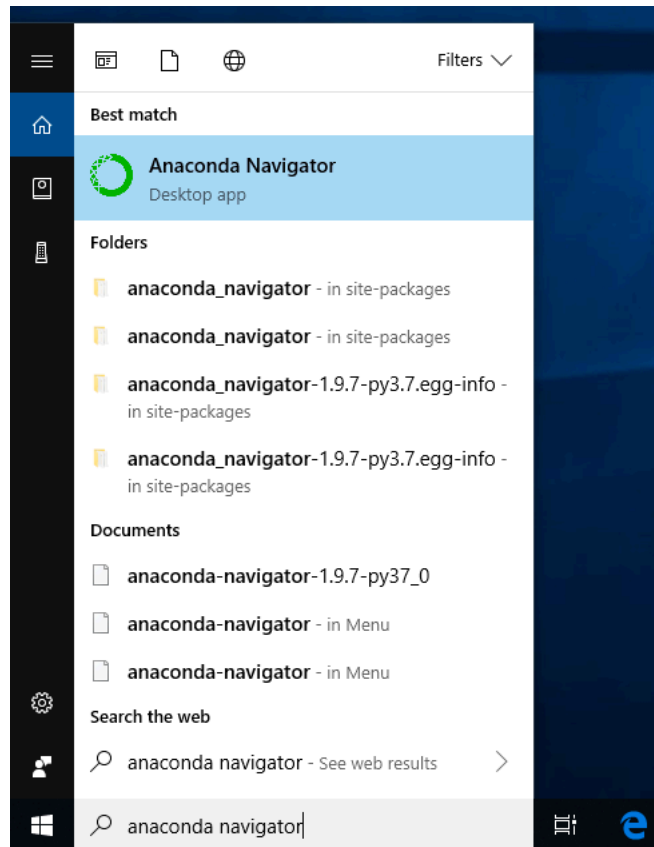
JupyterLab Interface

- **File**: actions related to files and directories
- **Edit**: actions related to editing documents and other activities
- **View**: actions that alter the appearance of JupyterLab
- **Run**: actions for running code in different activities such as notebooks and code consoles
- **Kernel**: actions for managing kernels, which are separate processes for running code
- **Tabs**: a list of the open documents and activities in the dock panel
- **Settings**: common settings and an advanced settings editor
- **Help**: a list of JupyterLab and kernel help links

Open Tabs

File Browser

Current Running Notebooks

Collapsible Left menu – on Click

Create a New Folder

Select Desktop or Documents

Name	Last Modified
anaconda3	2 days ago
Desktop	5 minutes ago
Documents	a day ago

New File   **New Folder**   Upload
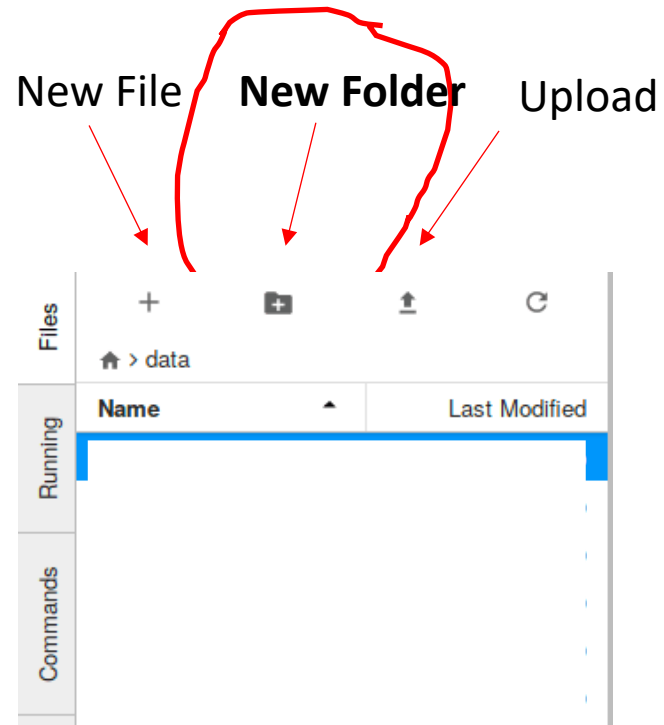
Name	Last Modified

Check your path

/ Desktop / CewitPython /

Name	Last Modified

/ Desktop /

Name	Last Modified
Untitled Folder	seconds ago

Rename Folder

Name	Last Modified
Untitled Folder	8 minutes ago
Solstic	
Crete_	
fonts	
Screen	
Screen	
Screen	
Screen	

Open
Rename
Delete
Cut
Copy Shareable Link
Copy Path
New Folder
Paste
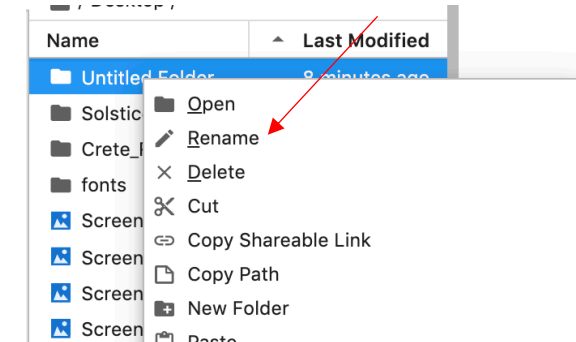
Select Folder (Click on the Folder)

/ Desktop /

Name	Last Modified
CewitPython	14 minutes ago

Create a New File Notebook

New File   **New Folder**   Upload

Select New File

Notebook

Python 3

Select Notebook Python 3

Console

Python 3

/ Desktop / CewitPython /

Name

Untitled.ipynb

Rename (Right Click)

/ Desktop / CewitPython /

Name

Untitled.ipynb

Untitled.ipynb

Open

Open With

Open in New Browser Tab

Rename

Delete

Save   Add   Delete   Copy   Paste   Stop
         cell   cell   cell   cell   Run   Execution
                                               cell
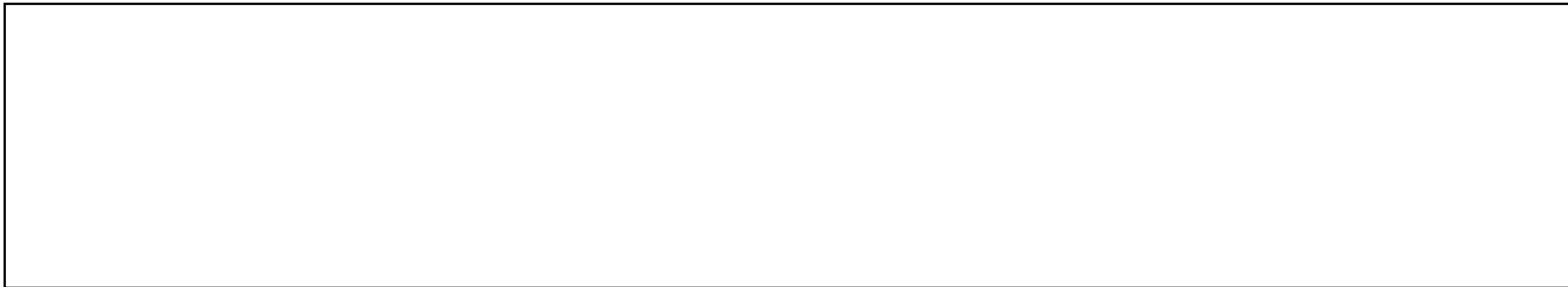
Cells: Practice

1. Create **NEW** cell

single or double quotes

2. Type **first_name**

```
first_name = 'Olga'
```

3. Create **NEW** cell

```
[ ]: print(first_name)
```

4. Type print(**first_name**) – second line

5. Click inside the first cell

```
[ ]: first_name = "Olga"
[ ]: print(first_name)
```

cell is highlighted when selected

6. **RUN** cell 1

```
[1]: first_name = "Olga"

[2]: print(first_name)
Olga
```

7. **RUN** cell 2

Numbers – the order of execution

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1. Make a new cell

2. Copy this cell

3. Paste this cell

4. Place the cursor in your first copy

5. Delete this cell

Quiz Question!

In [1]: `print("Hello")`

Hello

In [ ]:

What is the difference between two brackets?

Cell is executed

In [1]: `print("Hello")`

Hello

Cell is NOT executed   In [ ]:   **Not Numbered**

Code and Markdown

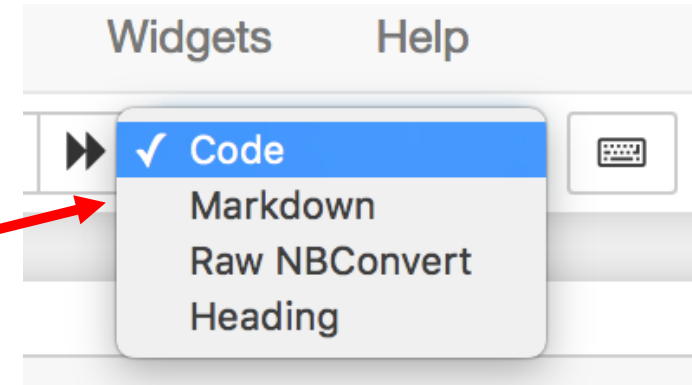We have used **code** so far (it is selected by default).

1. Create a NEW cell

2. Click on the drop-down menu

3. Select Markdown

Widgets   Help

✓ Code
Markdown
Raw NBConvert
Heading

Code ⌄

Welcome to Jupyter!

This repo contains an introduction to Jupyter and IPython.

Outline of some basics:

- [Notebook Basics](../examples/Notebook/Notebook Basics.ipynb)
- [IPython - beyond plain python](../examples/IPython Kernel/Beyond Plain
- [Markdown Cells](../examples/Notebook/Working With Markdown Cells.ip
- [Rich Displa
- Custom Dis
- Running a S
- How Jupyte

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* [Rich Display System](../examples/IPython Kernel/Rich Ou
                        /IPython%20Kernel/Cus
                        Server](../examples/N
                        tebook/Multiple%20Lan

Markdown is a text-to-HTML conversion tool for web writers. Markdown allows you to write using an easy-to-read, easy-to-write plain text format, then convert it to structurally valid XHTML (or HTML).

- John Gruber, creator of Markdown

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Markdown Headers: Practice

```
# First-level header

## Second-level header


### Third-level header
```

1. Create a new cell ➕

2. Select Markdown (instead of Code) Markdown ⌄

3. Create a header **# My Report** `# My Report`

4. Run ▶

5. Create a new cell ➕ `## Introduction`

6. Create a sub-header **## Introduction**

7. Run

My Report

Introduction

[ ]:

Can we keep both files open? YES!

1. Select a file you want to add to the main dashboard.

2. Drag and Drop the file

3. Adjust the width as needed