

Anaconda cloud

How to start your adventure with Python –
Or how to start working on the tutorials provided

Make a free account on the Anaconda Cloud

- For this lectures only Anaconda Cloud account is necessary, so that you can do the tutorials in your browser :
- Go here: <https://anaconda.cloud/>
- Create a free account
- Log in and select Jupyter notebooks (see the next slide)

You can also follow one of the many tutorials on how to download Anaconda distribution (which allows you to run Python on your computer very easily), for instance from here: <http://anaconda.com/download>. But this is not necessary right now.

Sign in / make account

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By continuing, I agree to the collection of my data, Anaconda's [Privacy Policy](#) and [Terms of Service](#).

Welcome page; Select Jupyter notebooks (in green circle)

anaconda.cloud will be merging into anaconda.com soon to give you a more streamlined experience. Learn more in our [FAQ](#) X

Welcome Back, Aleksandra!

- Launch a Notebook**
Get started with a Jupyter Notebook
- Take a Course**
Build data science and AI skills
- Join the Community**
Engage with others in our community

Explore Anaconda

- Notebooks**
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- Distribution
- PyScript
- EduBlocks
- PythonAnywhere
- Toolbox for Excel

You can listen about jupyter notebook at 17:54 on the lecture

You may see this information – wait to be redirected

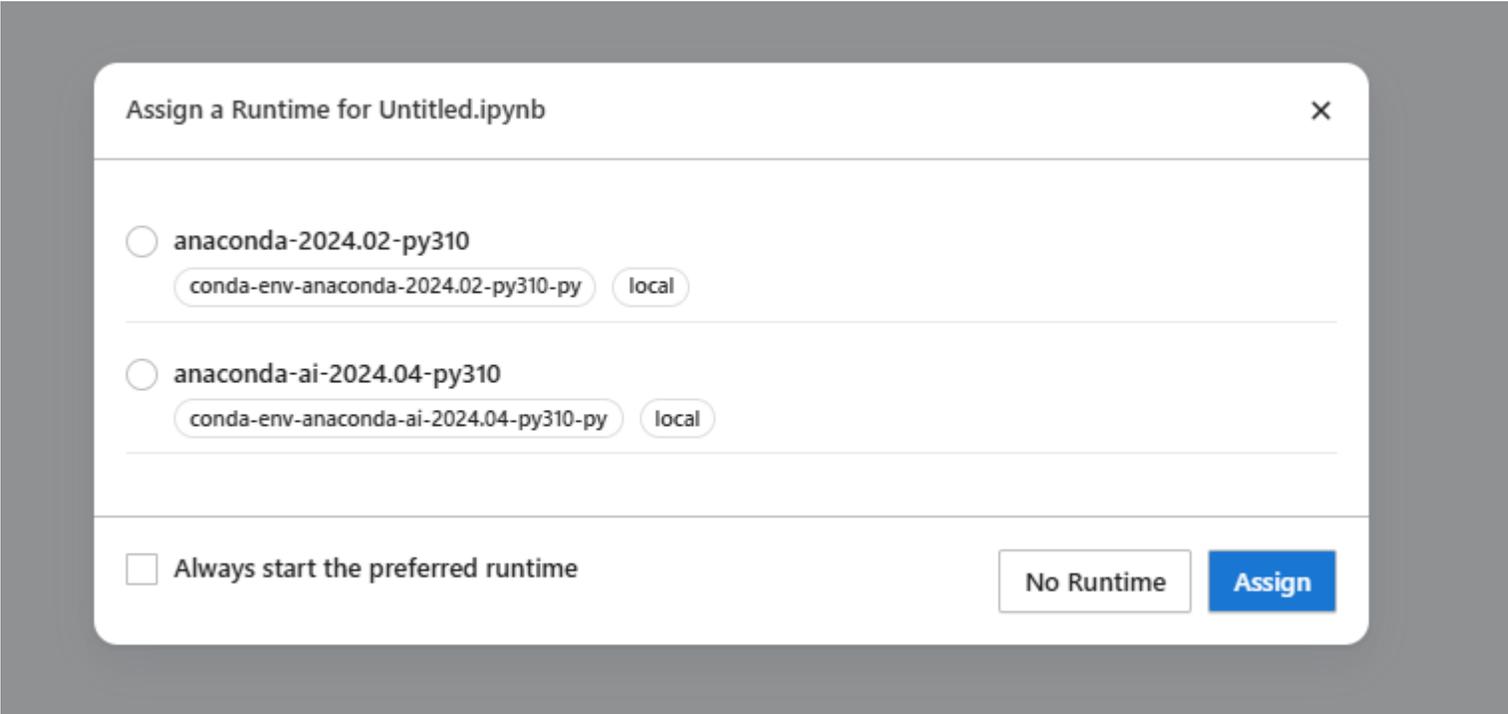
Your server is starting up.

You will be redirected automatically when it's ready for you.

Spawning server...

Event log

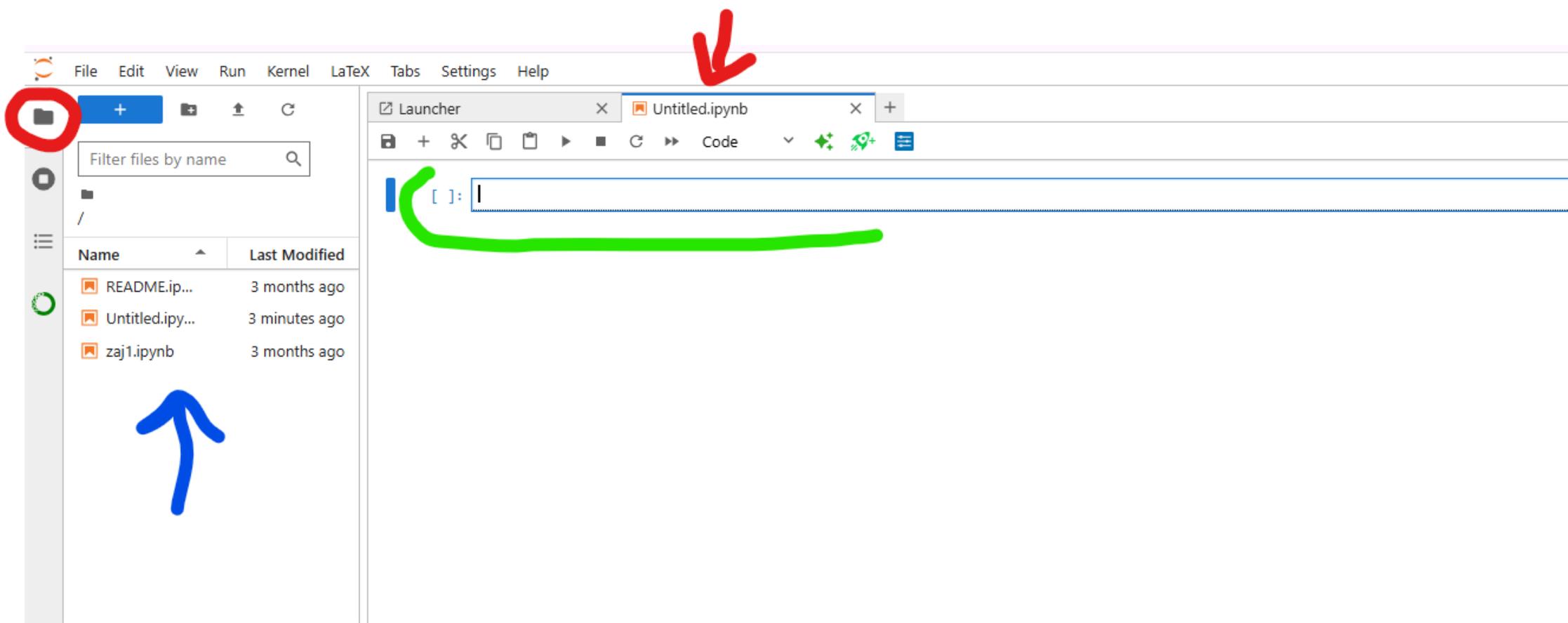
If this window will appear – you can select either option and click on „Assign”



The screenshot shows a dialog box titled "Assign a Runtime for Untitled.ipynb" with a close button (X) in the top right corner. It contains two radio button options for selecting a runtime environment:

- anaconda-2024.02-py310
conda-env-anaconda-2024.02-py310-py local
- anaconda-ai-2024.04-py310
conda-env-anaconda-ai-2024.04-py310-py local

At the bottom left, there is a checkbox labeled "Always start the preferred runtime" which is currently unchecked. At the bottom right, there are two buttons: "No Runtime" and "Assign".



This is how your page should look like.

To open panel on the left, where you can see your data and different notebooks with code (marked with blue arrow), click on the folder icon (in red circle)

Your code will be in the so-called cells -> first one is marked with green line

Red arrow shows the title of the first notebook.

All jupyter notebooks have extension „.ipynb”

The screenshot shows the JupyterLab interface. On the left is a file browser with a search bar and a table of files. A red circle highlights an upload icon in the top right of the file browser. A blue arrow points to the file 'Intro 1.ipynb' in the table. The main area shows a code editor with the following text:

Launcher Untitled.ipynb Intro 1.ipynb

A programming language is a set of rules describing how to construct correct expressions (i.e., like any

Programming languages are divided into two groups - scripting and compiled.

The first group is scripting languages. Programs written in this way are essentially text files, which are e
compiled languages. They differ in that before we can run our code, we must compile it, i.e., translate it
before the program is run. Examples include Fortran, C++, Java.

Compiler and Interpreter

- A compiler is a program that converts source code (written in a language understood by humans;
- An interpreter is a program that analyzes the source code of a program and executes analyzed fra

Python

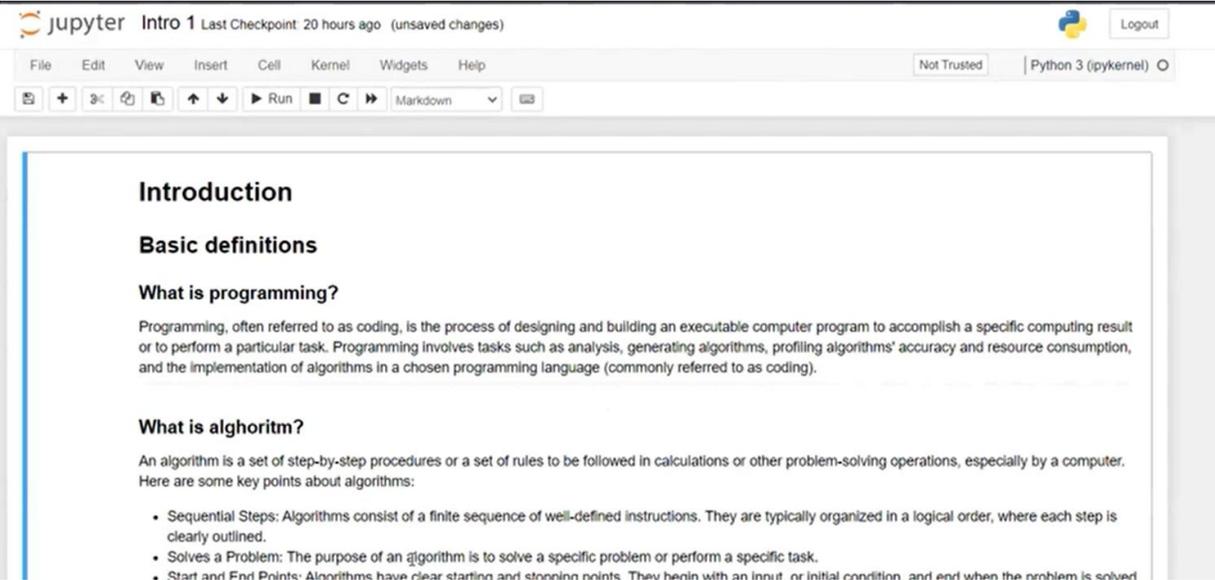
Why Python?

Python stands out in the programming world due to its simplicity and readability, making it ideal for b
and automation more accessible. The language's versatility extends to multiple platforms and disciplin

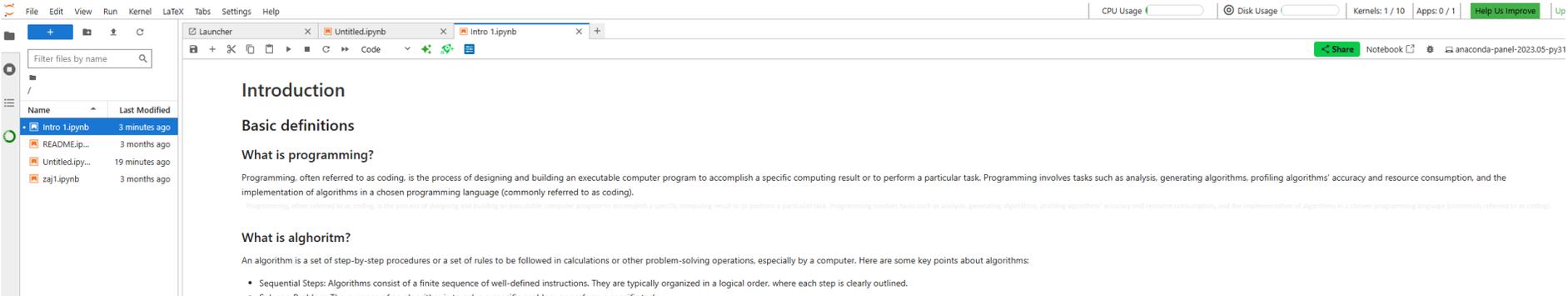
Best way to upload new files (like the tutorials you have downloaded) is to either drag the files over the region marked with blue arrow or to click on arrow (in red circle) that allows you to upload files from specific location

Keep in mind that any files in .zip or .rar folders must be „unpacked” before upload!

First tutorial looks like this in the lecture

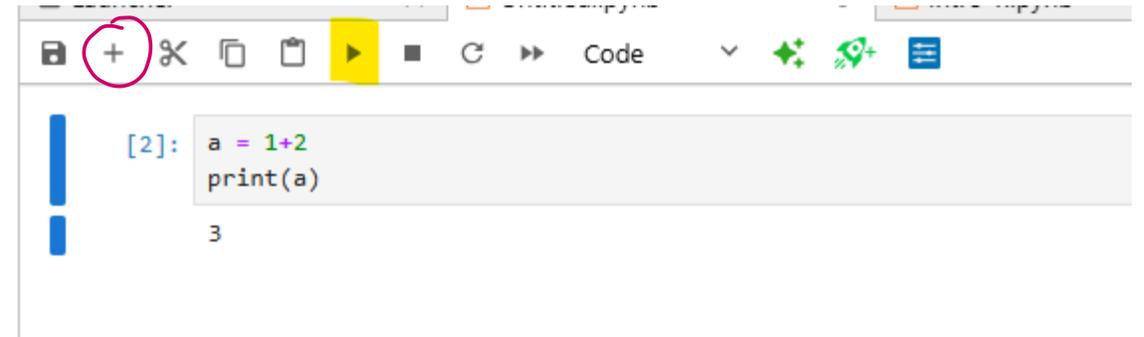


And should look like this if you open it through anaconda cloud



They will work in the same way

- Your code will be in the „cells”
- To run a cel (start the code) you can either use ctrl+enter or click on the triangle at the top (in yellow)
- If your cel has been „run”, you will see a number in the square brackets on the left side
- If there is a star, like this [*] the cell is running
- If you need to add new cell – use the „+” sign (in the circle)



The screenshot shows a Jupyter Notebook interface. At the top, there is a toolbar with several icons. A pink circle highlights a plus sign (+) icon, which is used to add a new cell. To the right of the plus sign is a yellow play button icon, which is used to run the code in the current cell. Below the toolbar, there is a code cell. On the left side of the cell, there are two blue vertical bars. To the right of the bars, the text "[2]:" is displayed. The code cell contains the following Python code:

```
a = 1+2  
print(a)
```

Below the code, the output "3" is displayed.

There are some tasks within the code.
For the Intro 1 tutorial:

- While doing the tutorial, pay special attention to tasks 9-12, 20-21, 24-27
- What is the function of the command „input”
- Note the structure of the conditional statement „if”. Where are the indents and colon?

For the Intro 2 tutorial:

- (to upload the data you can do the same as with jupyter notebooks)
- Pay special attention to the lists and functions that allow you to manipulate them (select elements, adding elements, and so on) – we will use this often!
- Be able to answer the question what are the libraries in python and how to use them; what does the „numpy” library? What does „np” mean when using this library?
- How you can open the .csv files?

For geographic data

You might not be able to install additional packages to see geographic data – you can leave this part of the tutorial

If something is not working – you can stop and start the notebook again

To do that:

1. right-click on the name of the file in the file-space
2. Select shut down kernel
3. This turns off all calculations within this notebook
4. You can run your cells again

