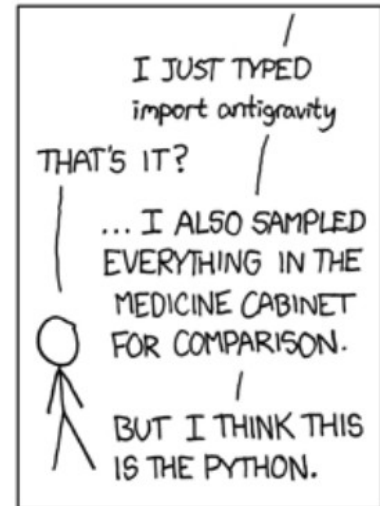
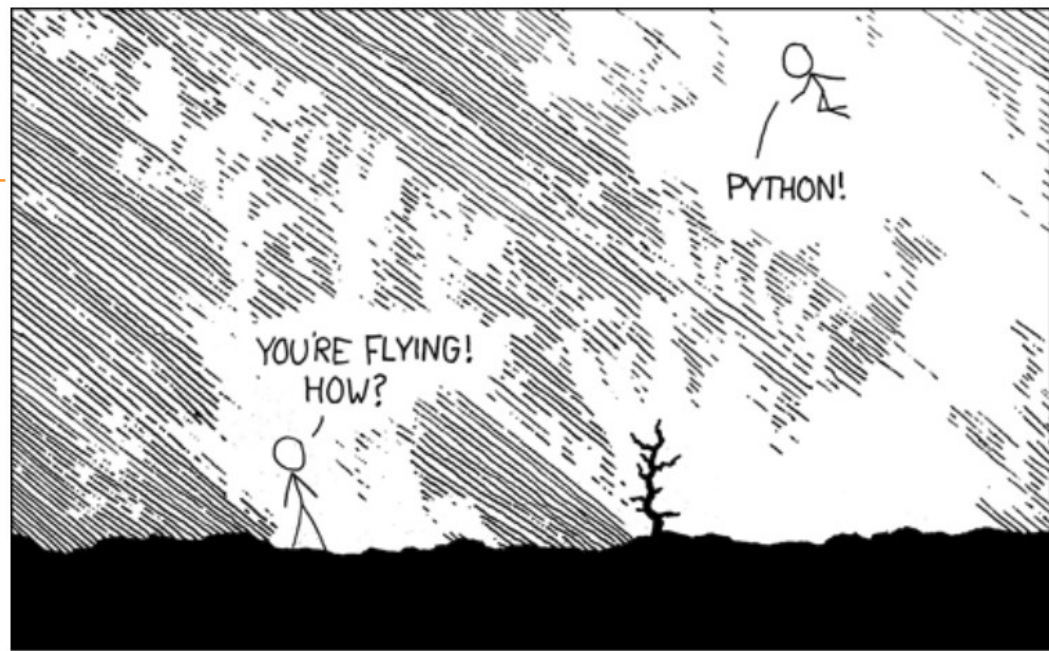


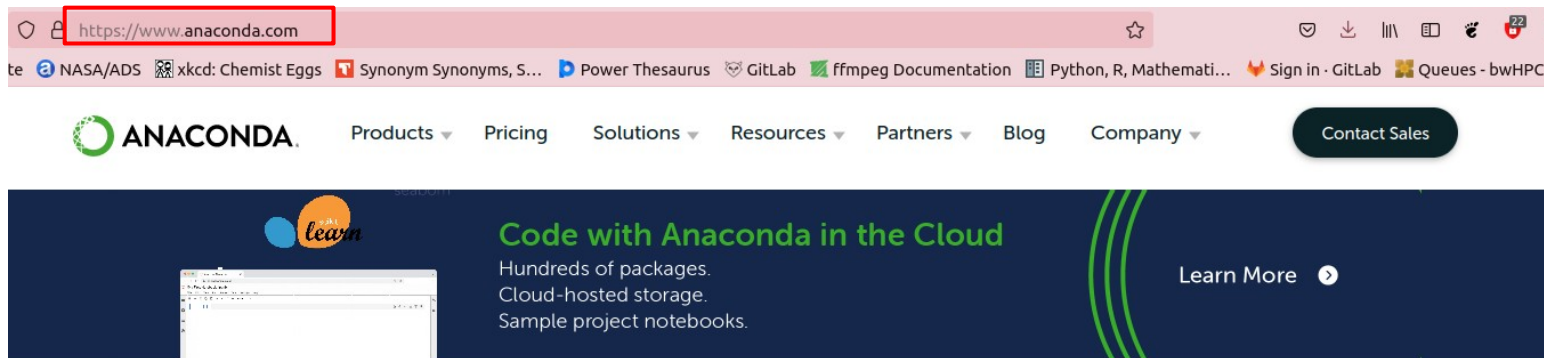
Let's python!

Trainers:

- S. Ataiee: use python since 2012 for data analysis
- M. Feizzadeh: learned python in 2019 to create game application
- M. Tamam: speaks python since 2020
- Z. Yousefi: obsessed with python since 2021 and use it for web application




How to start?



Data science technology for a better world.

Anaconda offers the easiest way to perform Python/R data science and machine learning on a single machine. Start working with thousands of open-source packages and libraries today.

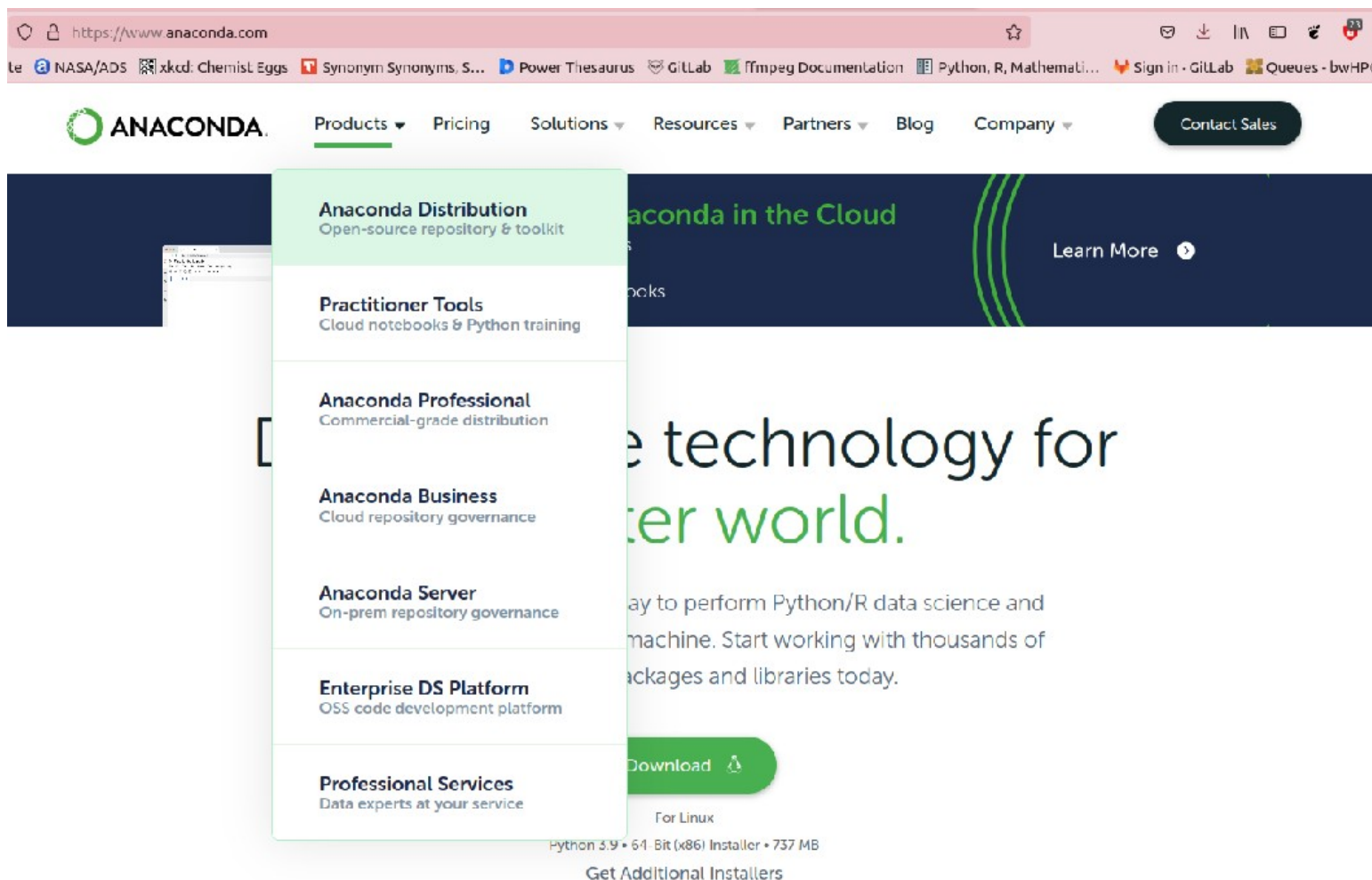
Download 

For Linux

Python 3.9 • 64-Bit (x86) Installer • 737 MB

[Get Additional Installers](#)

How to start?

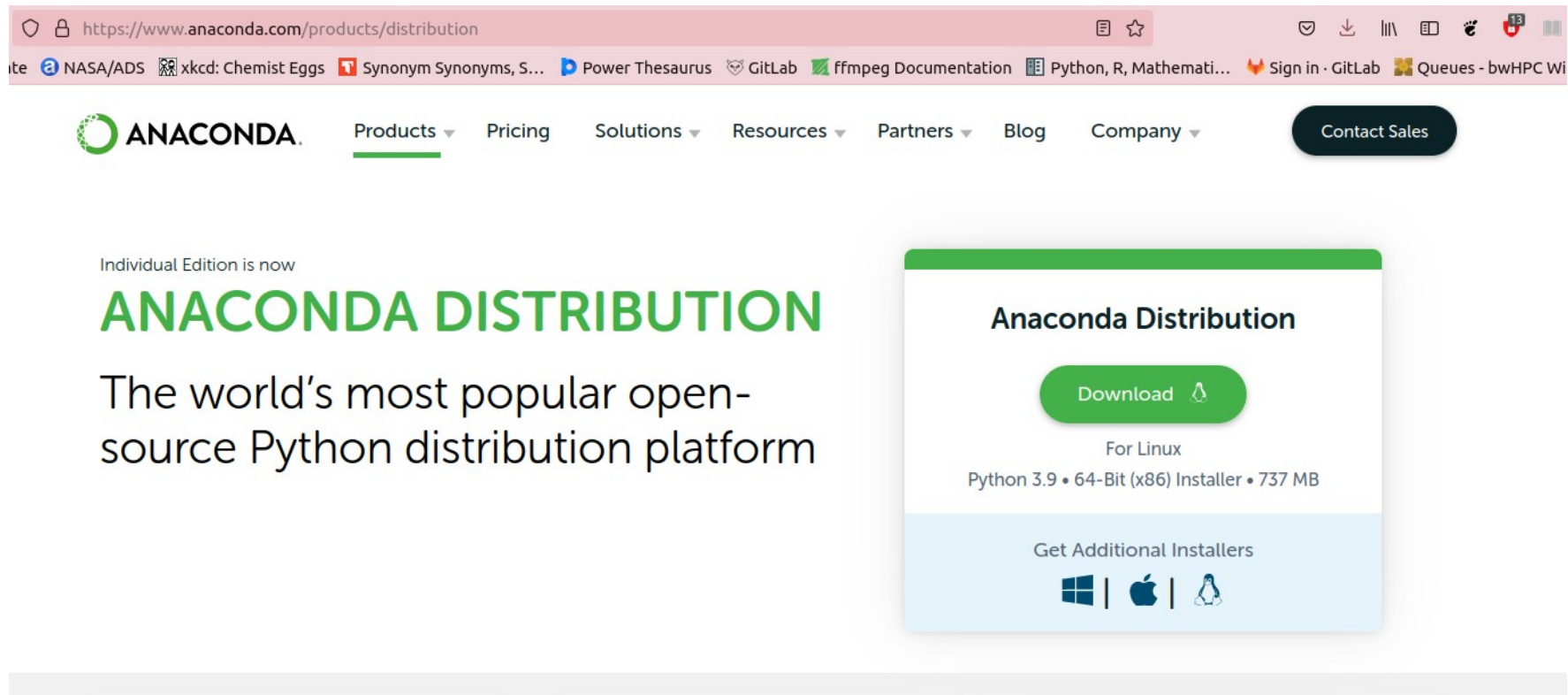


The screenshot shows the Anaconda website with the 'Products' dropdown menu open. The menu lists the following options:

- Anaconda Distribution**
Open-source repository & toolkit
- Practitioner Tools**
Cloud notebooks & Python training
- Anaconda Professional**
Commercial-grade distribution
- Anaconda Business**
Cloud repository governance
- Anaconda Server**
On-prem repository governance
- Enterprise DS Platform**
OSS code development platform
- Professional Services**
Data experts at your service

The background of the website features a dark blue banner with the text 'Anaconda in the Cloud' and a 'Learn More' button. Below this, the text 'the technology for' and 'er world.' is visible. At the bottom, there is a 'Download' button and the text 'For Linux' and 'Python 3.9 • 64-Bit (x86) Installer • 737 MB'.

How to start?



The image is a screenshot of a web browser displaying the Anaconda Distribution website. The browser's address bar shows the URL `https://www.anaconda.com/products/distribution`. The page features a navigation bar with the Anaconda logo, a 'Products' dropdown menu, and links for Pricing, Solutions, Resources, Partners, Blog, and Company. A 'Contact Sales' button is also present. The main content area includes the text 'Individual Edition is now' followed by the large green heading 'ANACONDA DISTRIBUTION'. Below this, it states 'The world's most popular open-source Python distribution platform'. On the right, a white box with a green header 'Anaconda Distribution' contains a green 'Download' button with a download icon. Below the button, it specifies 'For Linux' and 'Python 3.9 • 64-Bit (x86) Installer • 737 MB'. At the bottom of this box, a light blue section titled 'Get Additional Installers' shows icons for Windows, macOS, and Linux.

Individual Edition is now

ANACONDA DISTRIBUTION

The world's most popular open-source Python distribution platform

Anaconda Distribution

Download

For Linux

Python 3.9 • 64-Bit (x86) Installer • 737 MB

Get Additional Installers

Windows | macOS | Linux

What is python?



What is python?



A programming language implemented by Guido van Rossum and released first in 1991.

Why python?

- is free!
- is easily readable and relatively simple
- is comprehensively documented
- has support for object-oriented programming and functional programming
- has many user-created libraries which one can download and use them
- is an interpreted language meaning that code can be executed as soon as it is written

BEFORE AND AFTER CODING



c++



javascript

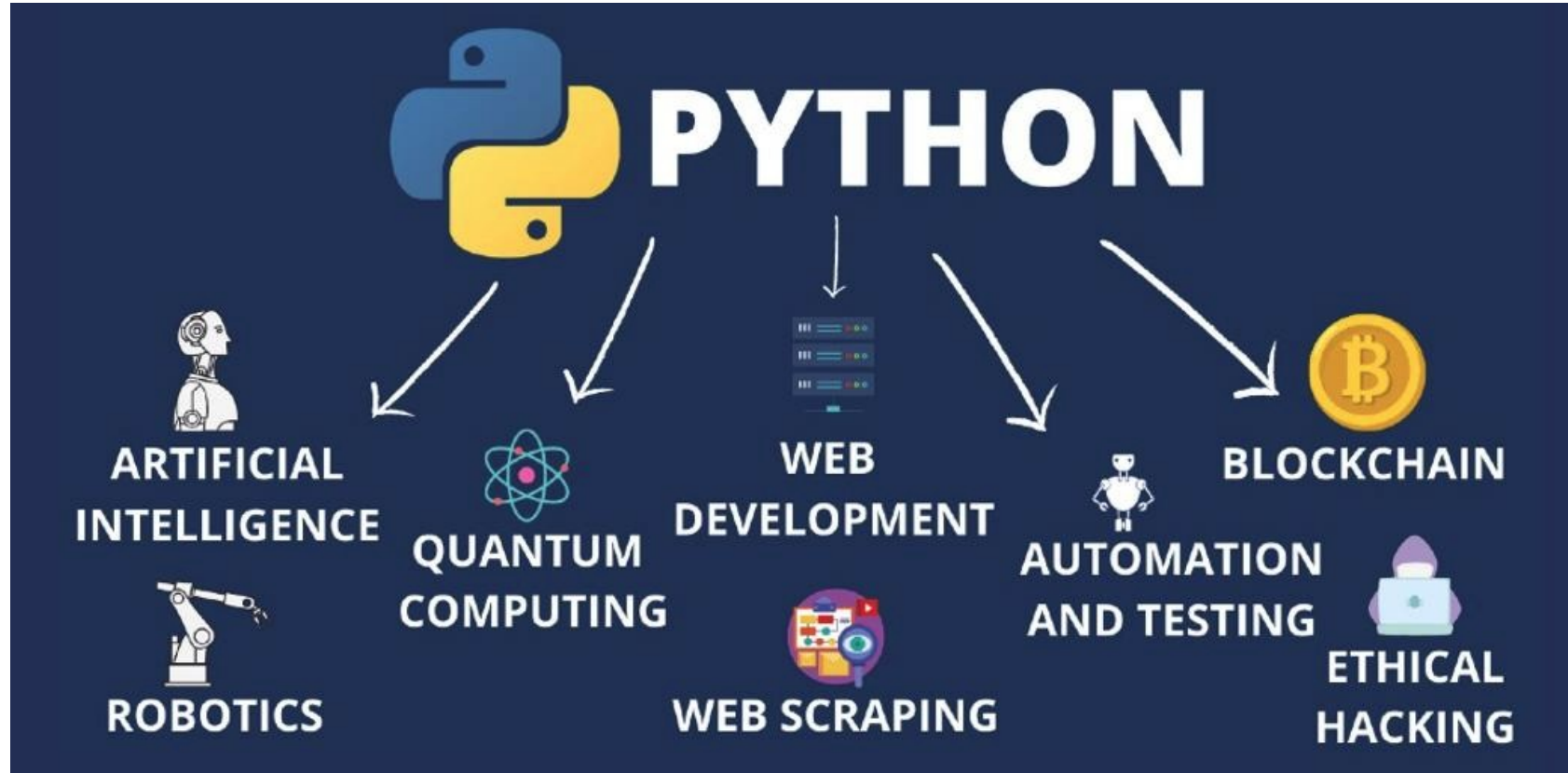


java

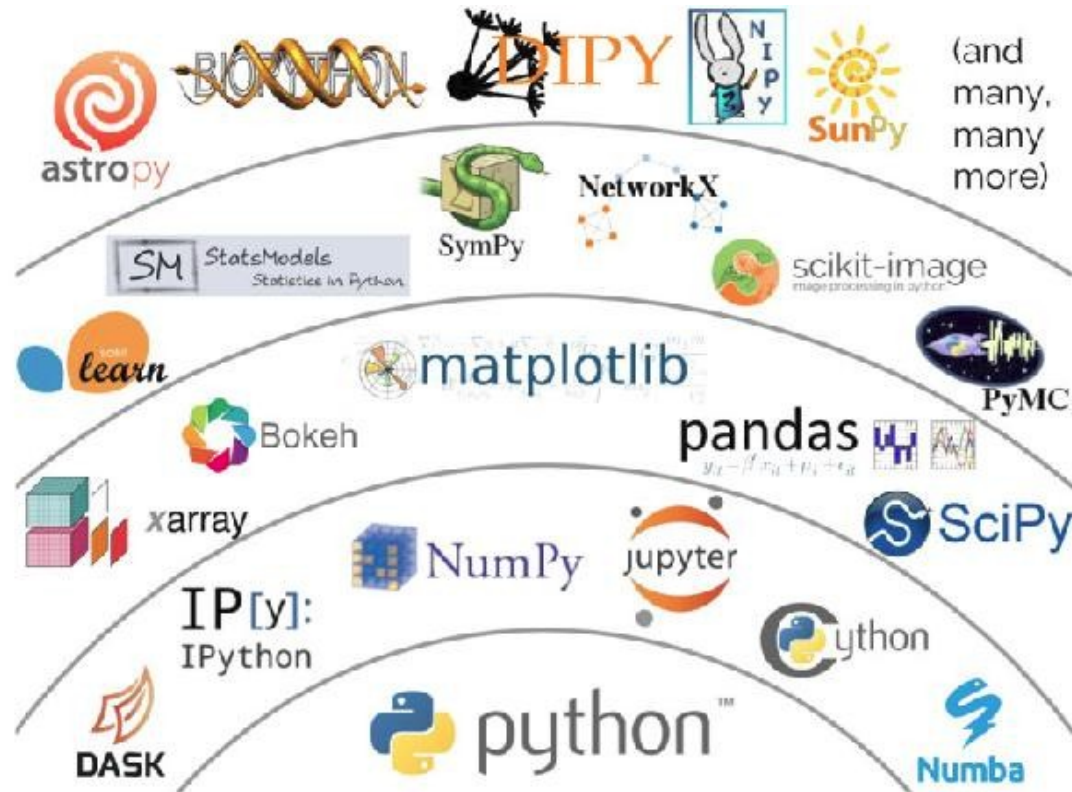


python

Python application



Python application in science



LET'S GET

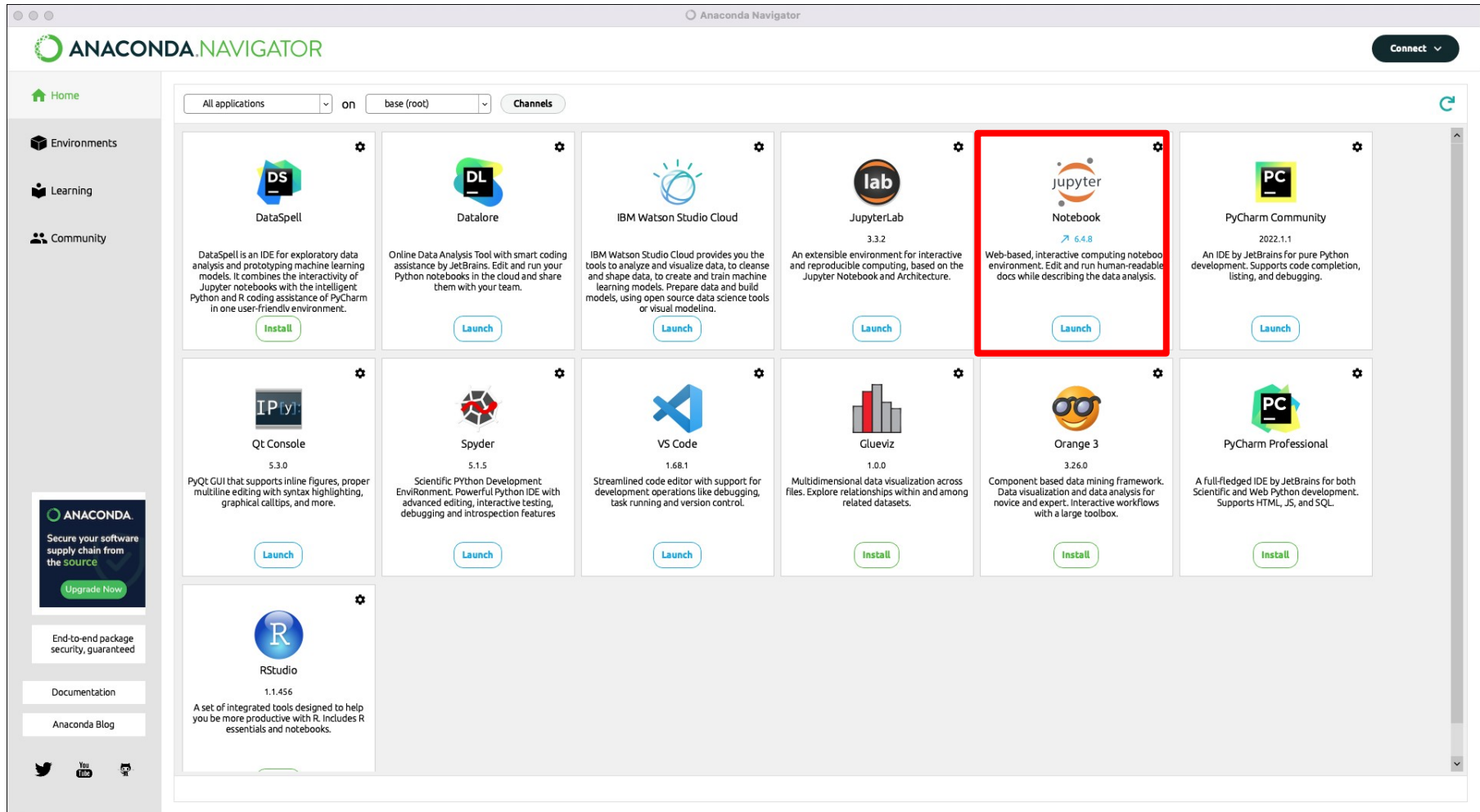


STARTED!

Anaconda navigator

- Save day1.ipynb (sent by email) somewhere in your computer
- Open anaconda-navigator
- Open Jupyter notebook
- Click on day1.ipynb

Anaconda navigator





Quit

Logout

Files

Running

Clusters

Select items to perform actions on them.

Upload

New ▾



☐ 0 ▾

📁 /

Name ▾

Last Modified

File size

☐ 📁 atm_retrival

8 days ago

☐ 📁 bin

2 years ago

☐ 📁 Calibre Library

a month ago

☐ 📁 Desktop

11 days ago

☐ 📁 Documents

2 months ago

☐ 📁 Downloads

a day ago

☐ 📁 Dropbox

a day ago

☐ 📁 ebooks

a month ago

☐ 📁 fargo3d

2 years ago

☐ 📁 footext

6 months ago

☐ 📁 LightCurve

a month ago

☐ 📁 MachineLearning

25 days ago

☐ 📁 Music

a year ago

Attention!

- Jupyter is an atmosphere that eases the programming (IDE).
- A python program is a file written in python and saved with a .py extension.
- A python program written in Jupyter has the .ipynb extension (but can be also convert to .py).

```
Solver.py x
1  import math
2
3
4  class Solver:
5
6      def demo(self, a, b, c):
7          d = b ** 2 - 4 * a * c
8          if d > 0:
9              disc: float = math.sqrt(d)
10             root1 = (-b + disc) / (2 * a)
11             root2 = (-b - disc) / (2 * a)
12             return root1, root2
13         elif d == 0:
14             return -b / (2 * a)
15         else:
16             return "This equation has no roots"
17
18
19  if __name__ == '__main__':
20      solver = Solver()
21
22      while True:
23          a = int(input("a: "))
24          b = int(input("b: "))
25          c = int(input("c: "))
26          result = solver.demo(a, b, c)
27          print(result)
```