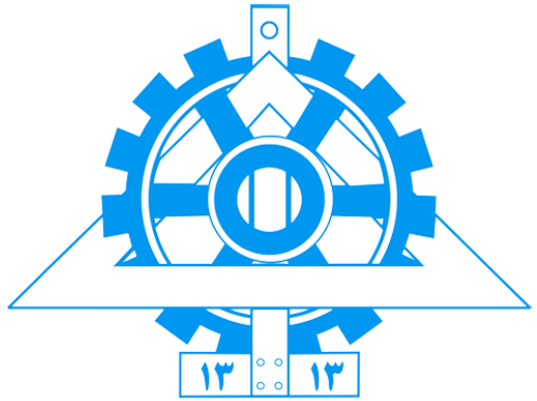

IN THE NAME OF
GOD
"His Name Shall Be Revered"



Data Science Course

Course Instructors:

Dr. Mehdi SamadZad

Hossein Karami

Ali Karami

Course Syllabuses

- Installation
- Introduction to Python
- Intermediate to Python
- Data Manipulation with Pandas
- Data Visualization
- Cleaning Data
- Writing Efficient Python code
- Writing Functions
- Merging Data Frames

How can you pass this course and get the final certificate?

- You must to do the final project

❑Pass A

❑Pass B

❑Pass C

Hello Python

- **Python** is an interpreted, high-level and general-purpose programming language. Python was conceived by Guido Van Rossum. What started as a hobby project, soon became a general purpose programming language: **nowadays, you can use Python to build practically any piece of software**.

- Python was conceived in the late 1980s by **Guido van Rossum** at Centrum Wiskunde & Informatica (CWI) in the Netherlands as a successor to ABC programming language.

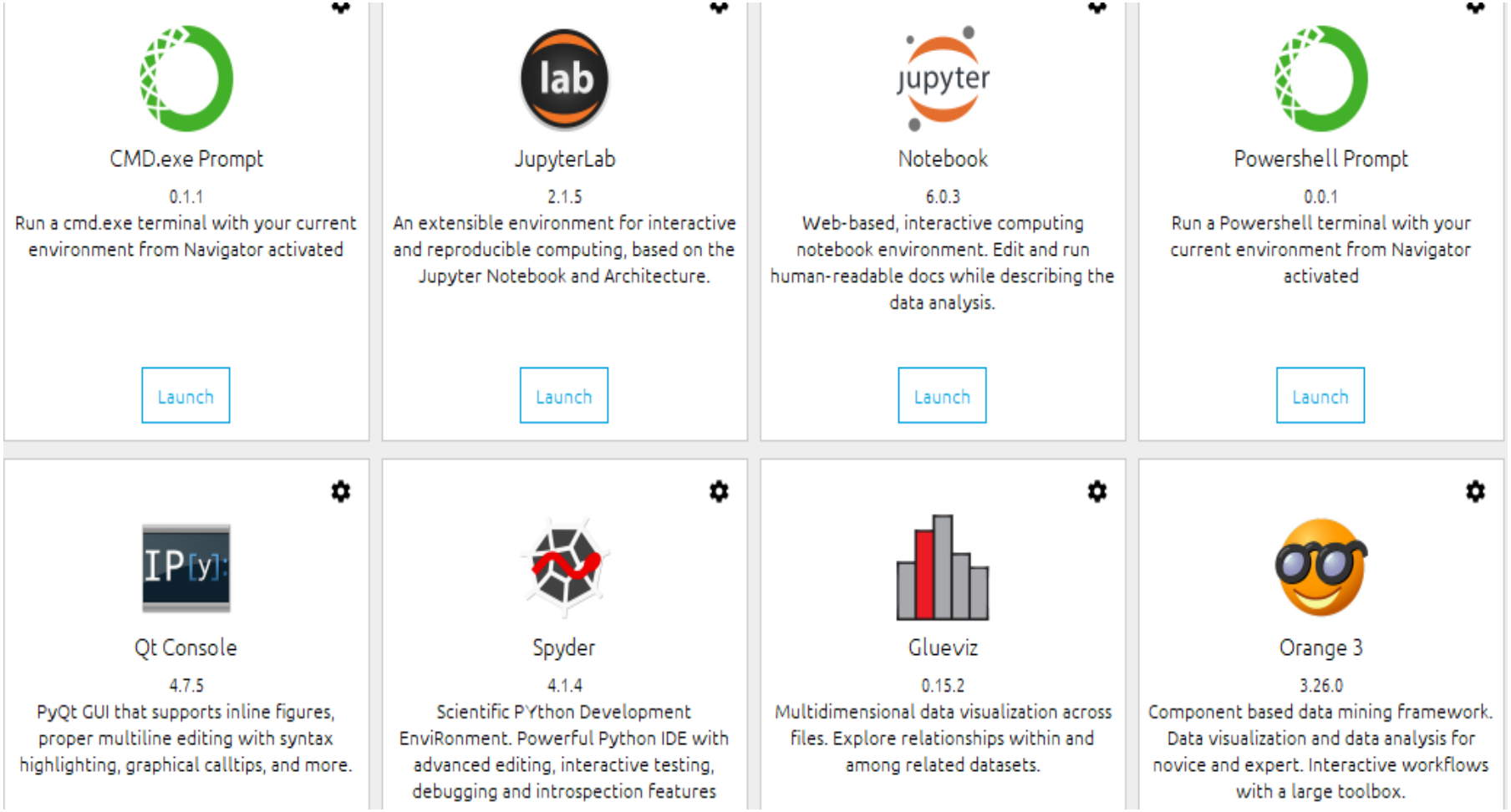
- ✓ General purpose: build anything
- ✓ Open source! Free!
- ✓ Python packages, also for data science

Anaconda

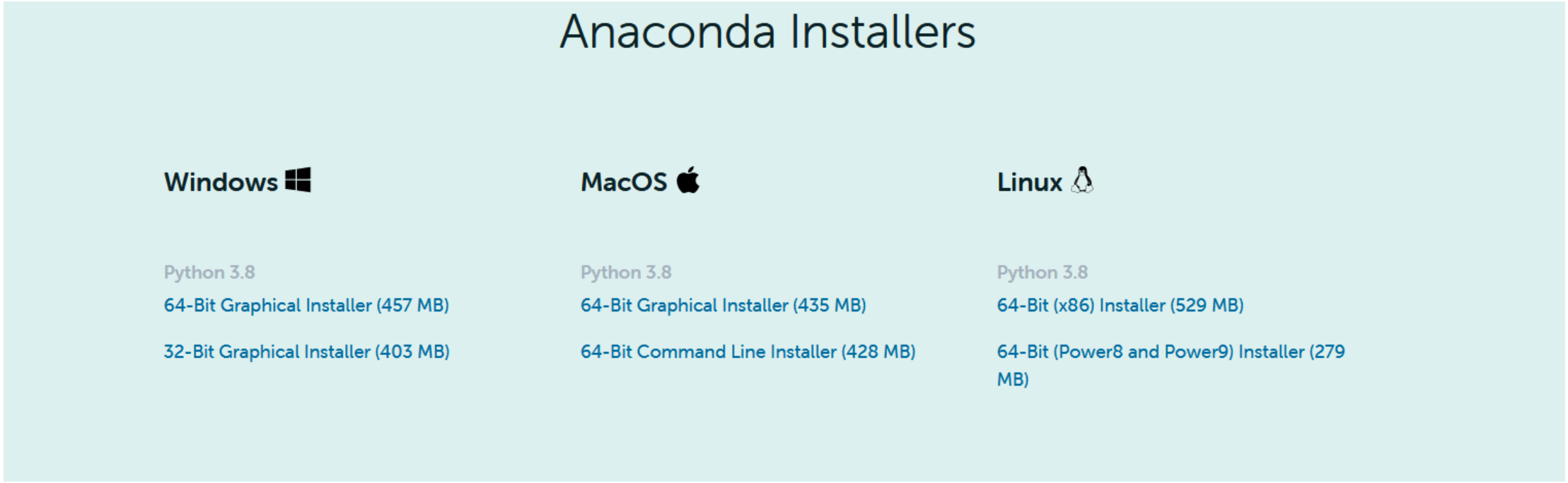
- what is Anaconda?
- Why Anaconda?
- Anaconda packages?

Anaconda Application

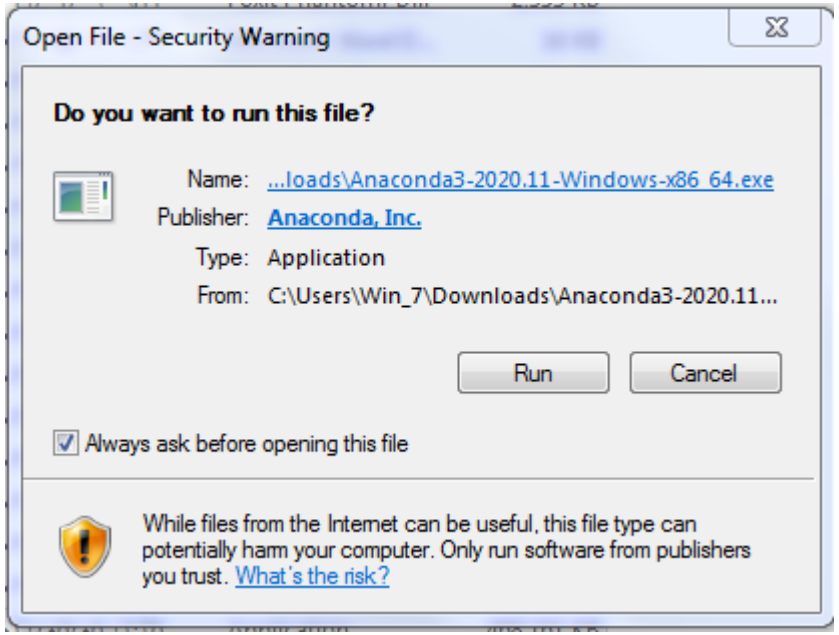
- Jupyter Lab
- Jupyter Notebook
- QT Consol
- Spyder
- VSCode
- Gluevis
- Orange 3App
- Rodeo
- Rstudio



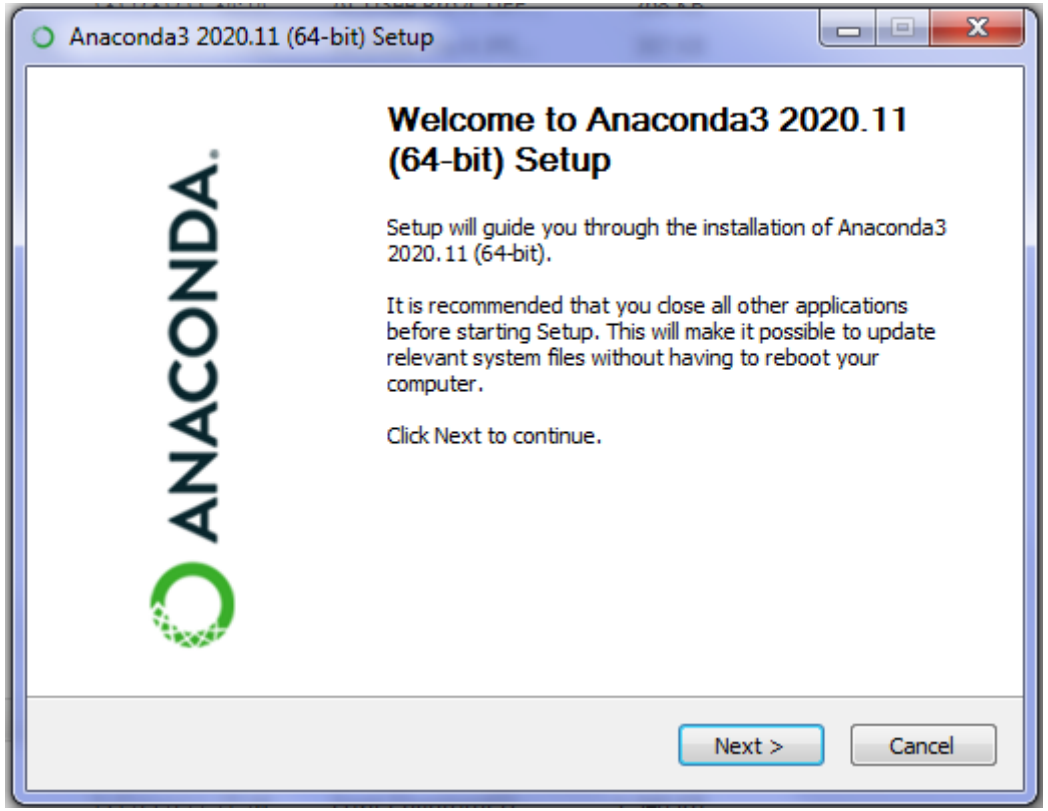
First things first, download it.



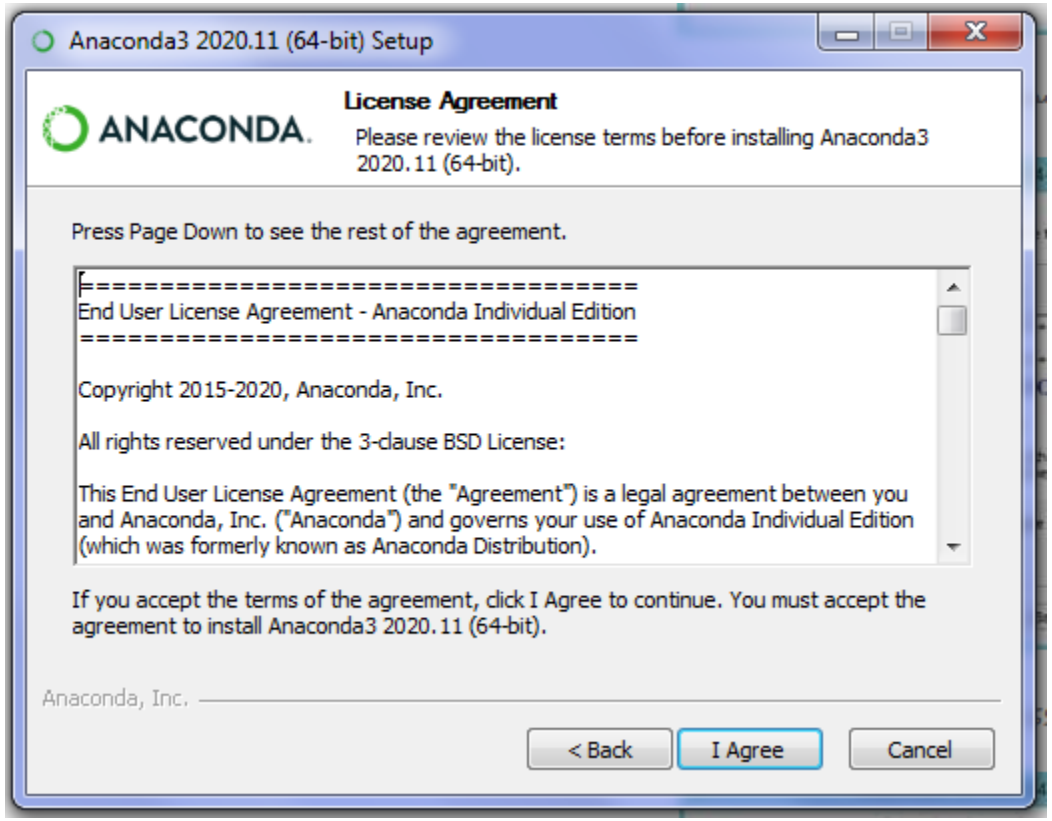
Installation of software



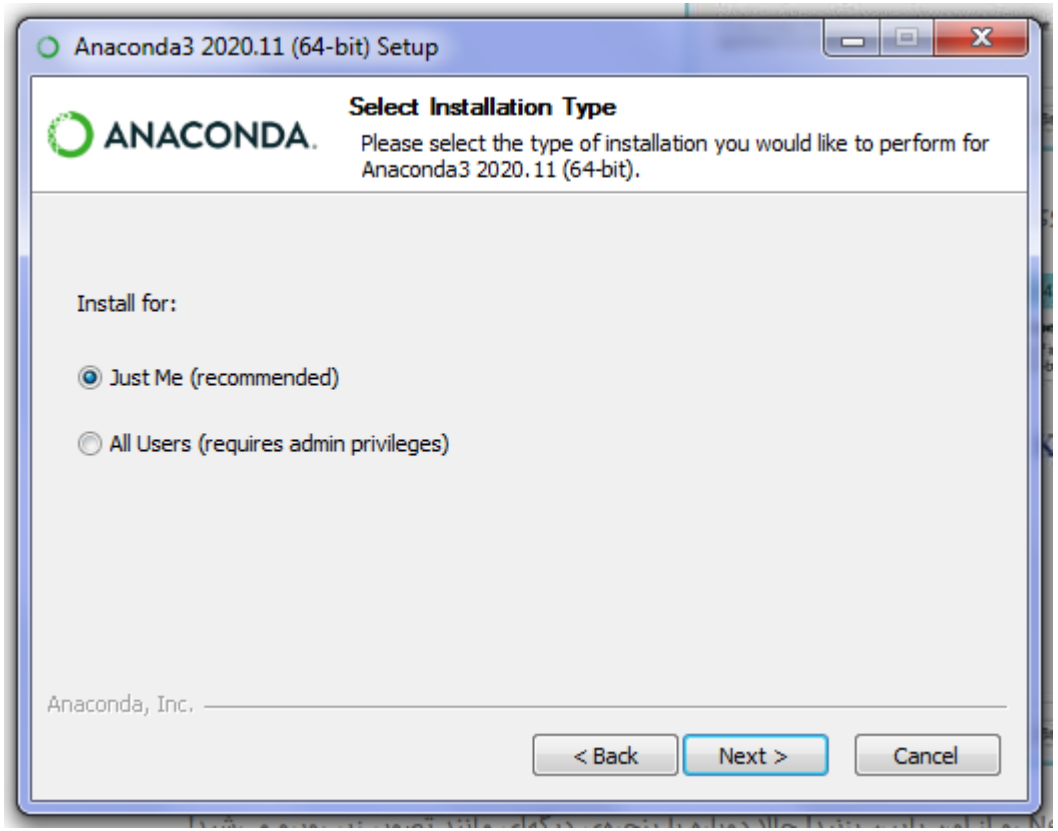
Step 1


Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
Welcome to Anaconda3 2020.11 (64-bit) Setup
Setup will guide you through the installation of Anaconda3 2020.11 (64-bit).
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

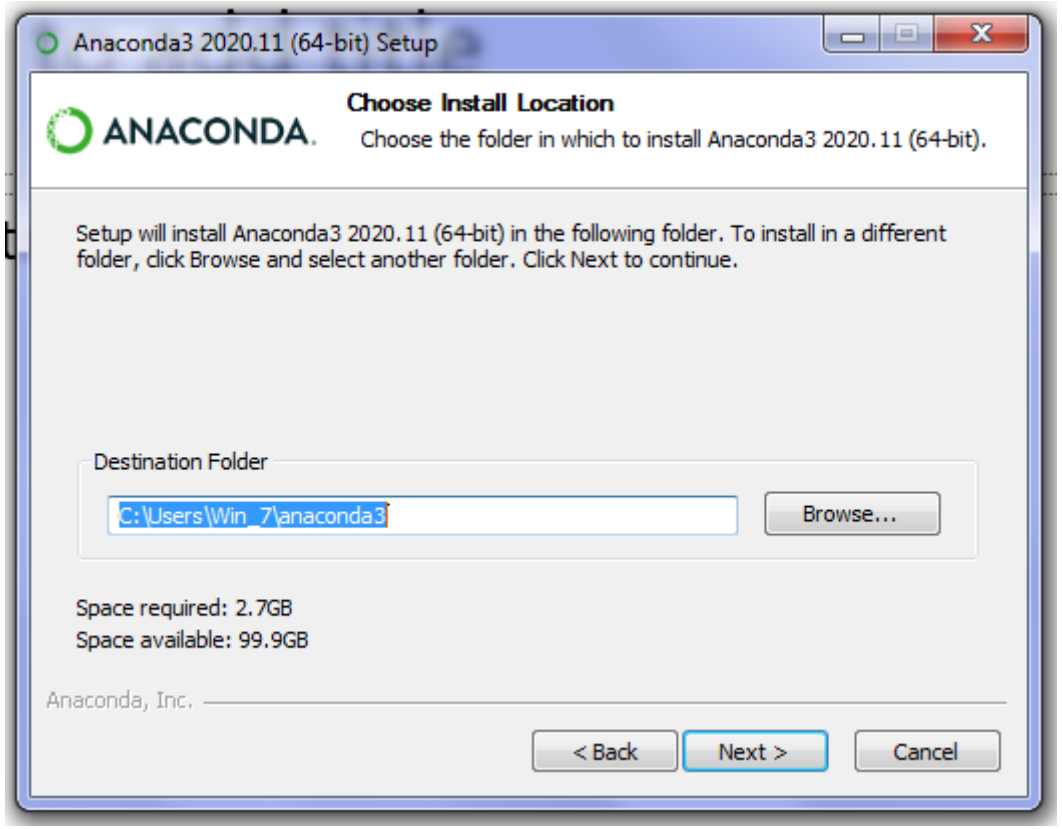
Step 2


Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
License Agreement
Please review the license terms before installing Anaconda3 2020.11 (64-bit).
Press Page Down to see the rest of the agreement.
==========
End User License Agreement - Anaconda Individual Edition
==========
Copyright 2015-2020, Anaconda, Inc.
All rights reserved under the 3-clause BSD License:
This End User License Agreement (the "Agreement") is a legal agreement between you and Anaconda, Inc. ("Anaconda") and governs your use of Anaconda Individual Edition (which was formerly known as Anaconda Distribution).
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Anaconda3 2020.11 (64-bit).
Anaconda, Inc.
< Back
I Agree
Cancel

Step 3


Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
Select Installation Type
Please select the type of installation you would like to perform for Anaconda3 2020.11 (64-bit).
Install for:
Just Me (recommended)
All Users (requires admin privileges)
Anaconda, Inc.
< Back
Next >
Cancel

Step 4


Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
Choose Install Location
Choose the folder in which to install Anaconda3 2020.11 (64-bit).
Setup will install Anaconda3 2020.11 (64-bit) in the following folder. To install in a different folder, click Browse and select another folder. Click Next to continue.
Destination Folder
C:\Users\Win_7\anaconda3
Browse...
Space required: 2.7GB
Space available: 99.9GB
Anaconda, Inc.
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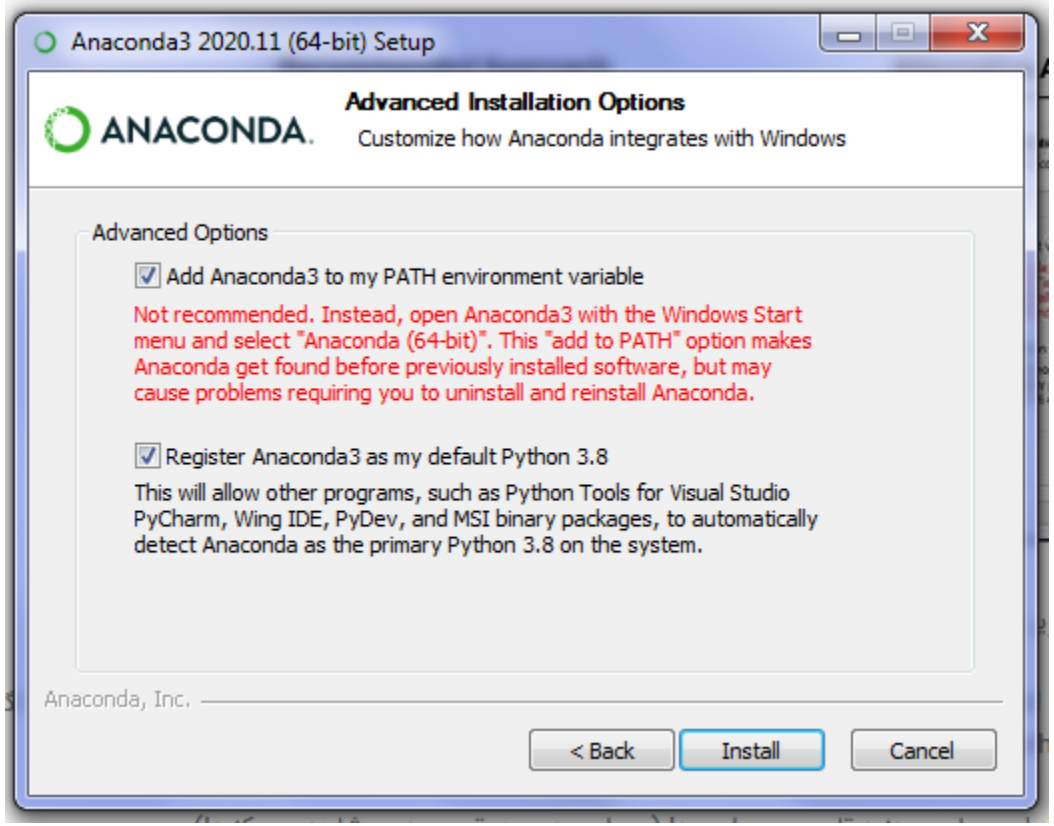
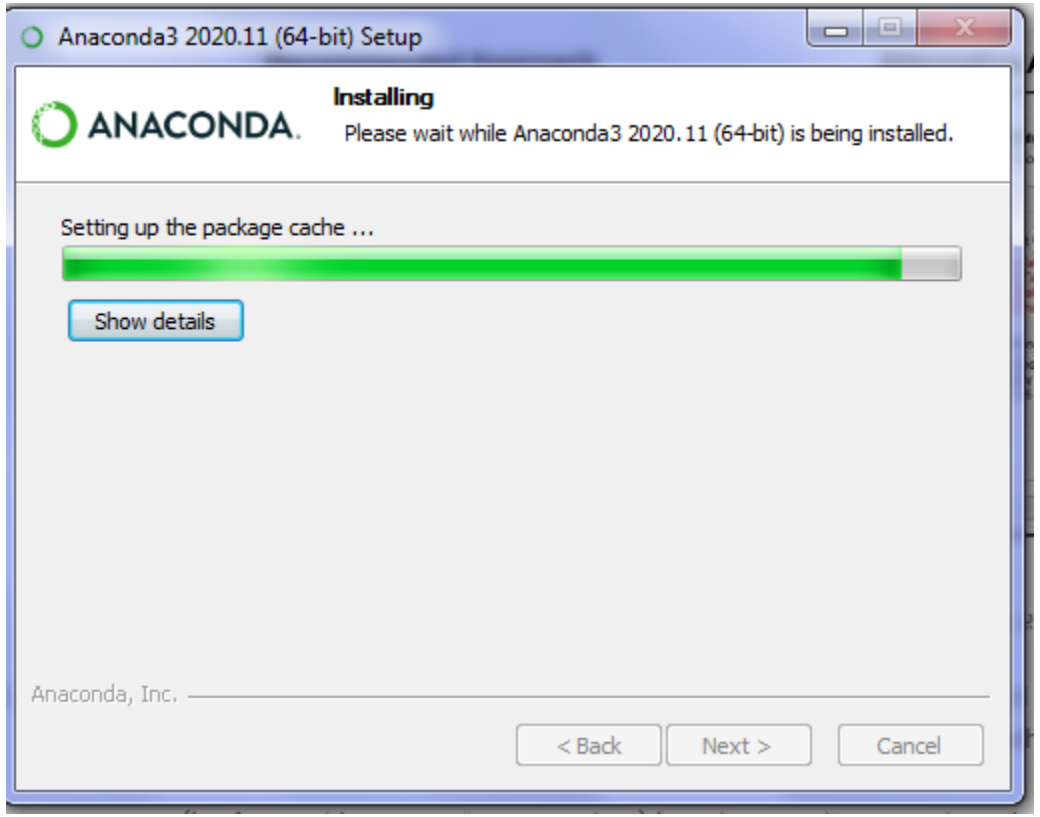
Cancel

Step 5


Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
Advanced Installation Options
Customize how Anaconda integrates with Windows
Advanced Options
Add Anaconda3 to my PATH environment variable
Not recommended. Instead, open Anaconda3 with the Windows Start menu and select "Anaconda (64-bit)". This "add to PATH" option makes Anaconda get found before previously installed software, but may cause problems requiring you to uninstall and reinstall Anaconda.
Register Anaconda3 as my default Python 3.8
This will allow other programs, such as Python Tools for Visual Studio PyCharm, Wing IDE, PyDev, and MSI binary packages, to automatically detect Anaconda as the primary Python 3.8 on the system.
Anaconda, Inc.
< Back
Install
Cancel

Step 6


Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
Installing
Please wait while Anaconda3 2020.11 (64-bit) is being installed.
Setting up the package cache ...
Show details
Anaconda, Inc.
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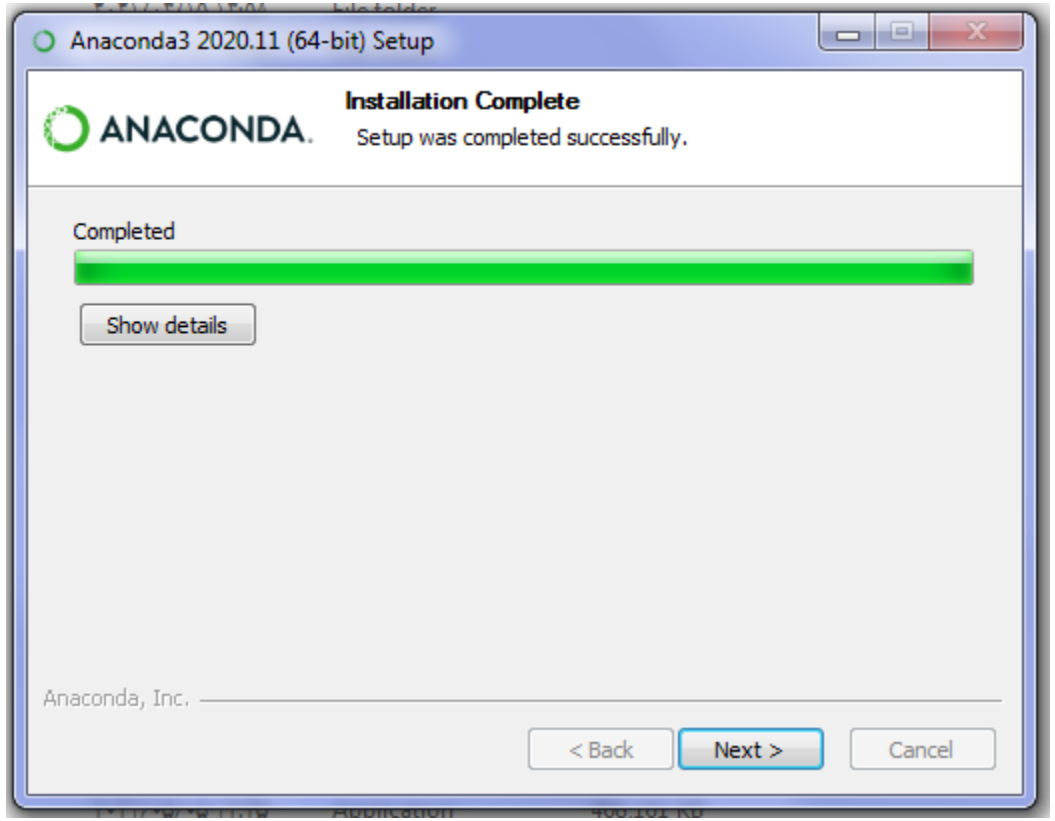
Next >
Cancel

Step 8


Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
Installation Complete
Setup was completed successfully.
Completed
Show details
Anaconda, Inc.
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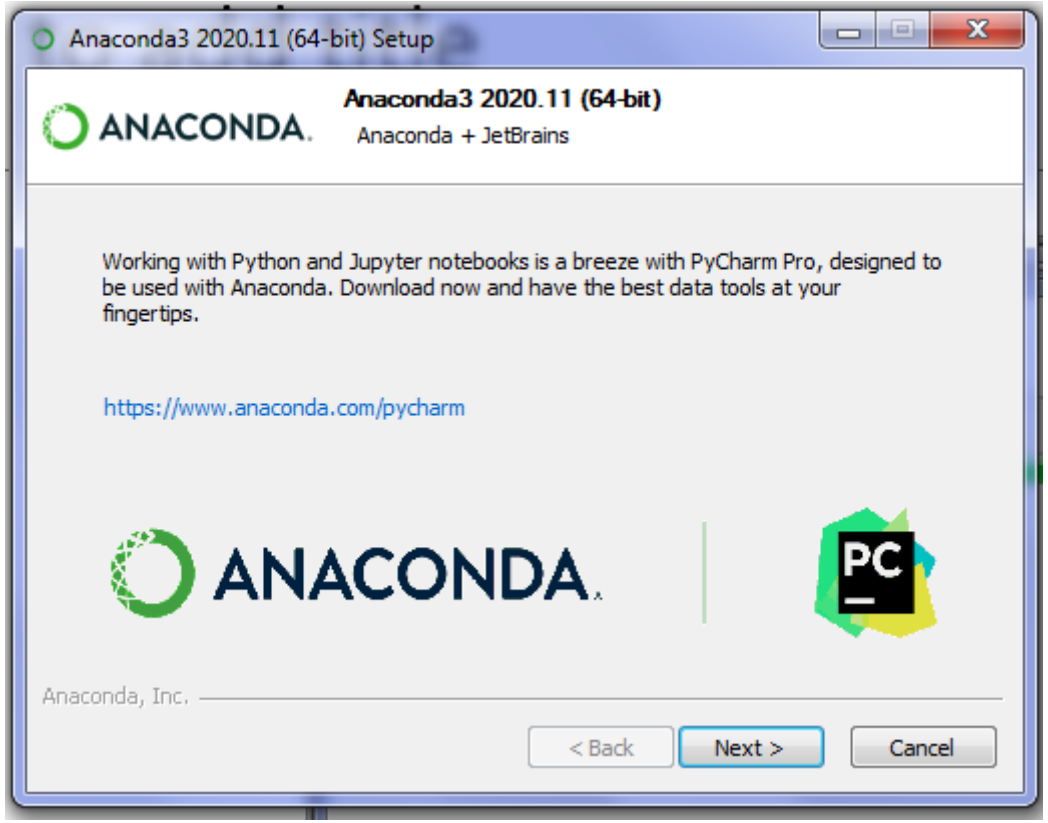
Cancel

Step 9


Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
Anaconda3 2020.11 (64-bit)
Anaconda + JetBrains
Working with Python and Jupyter notebooks is a breeze with PyCharm Pro, designed to be used with Anaconda. Download now and have the best data tools at your fingertips.
https://www.anaconda.com/pycharm
ANACONDA.
PC
Anaconda, Inc.
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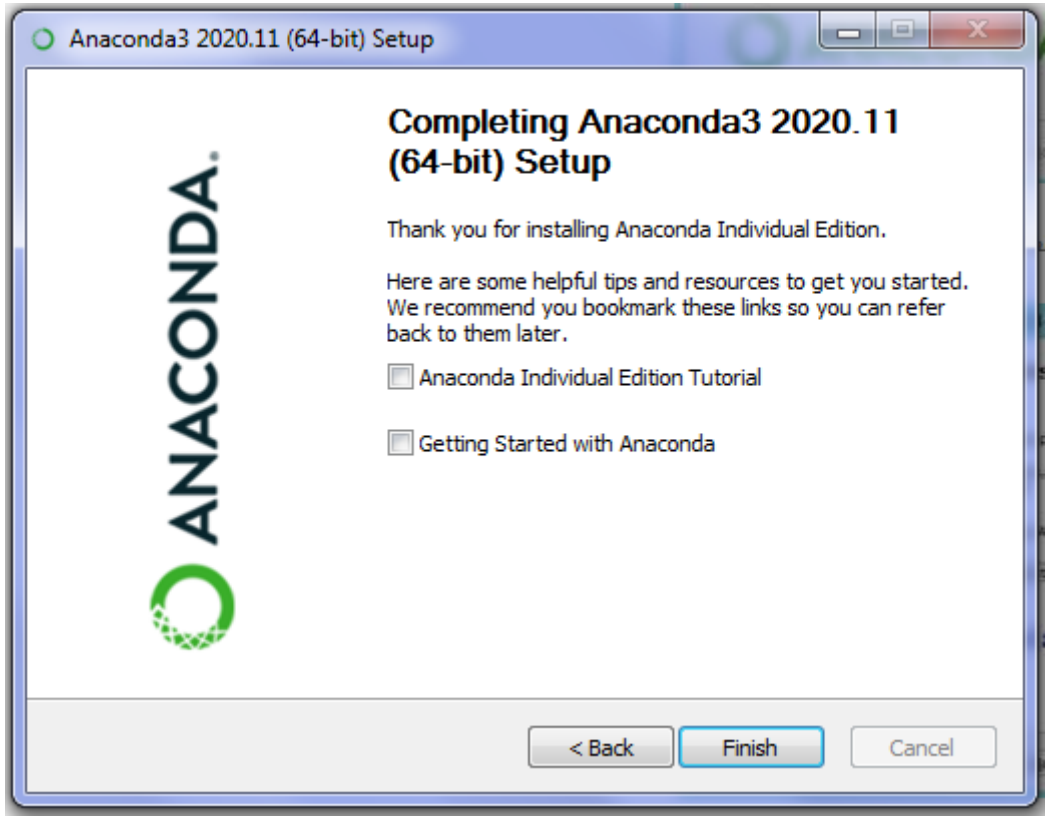
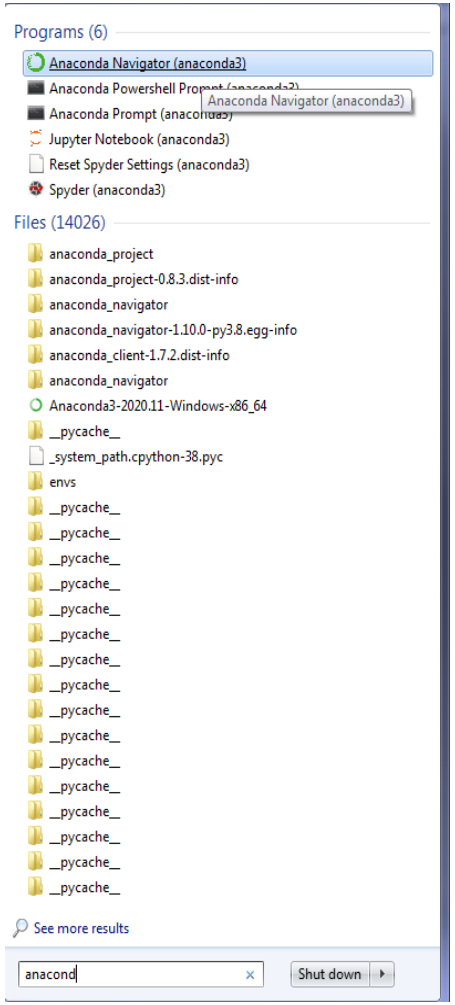
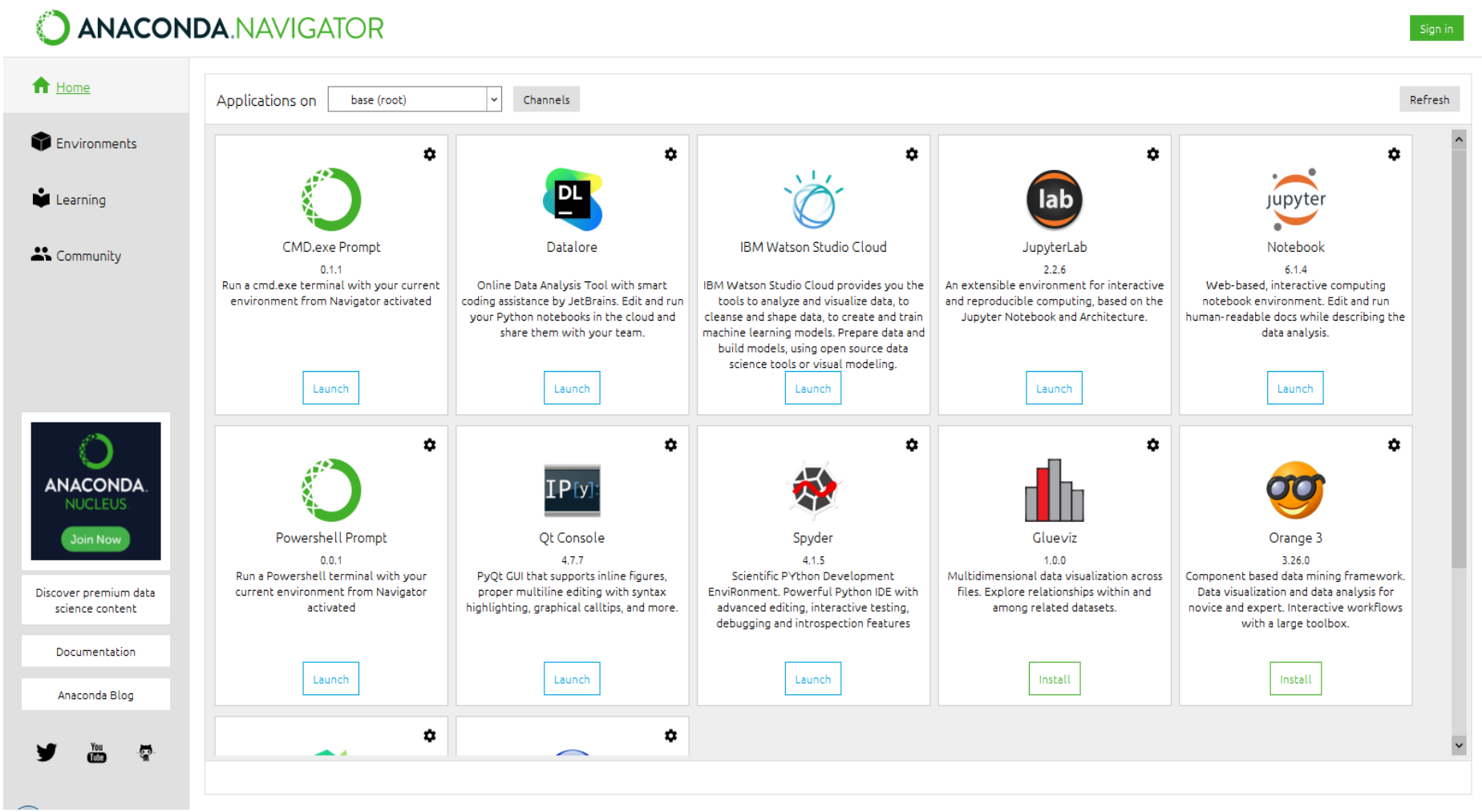
Step 10

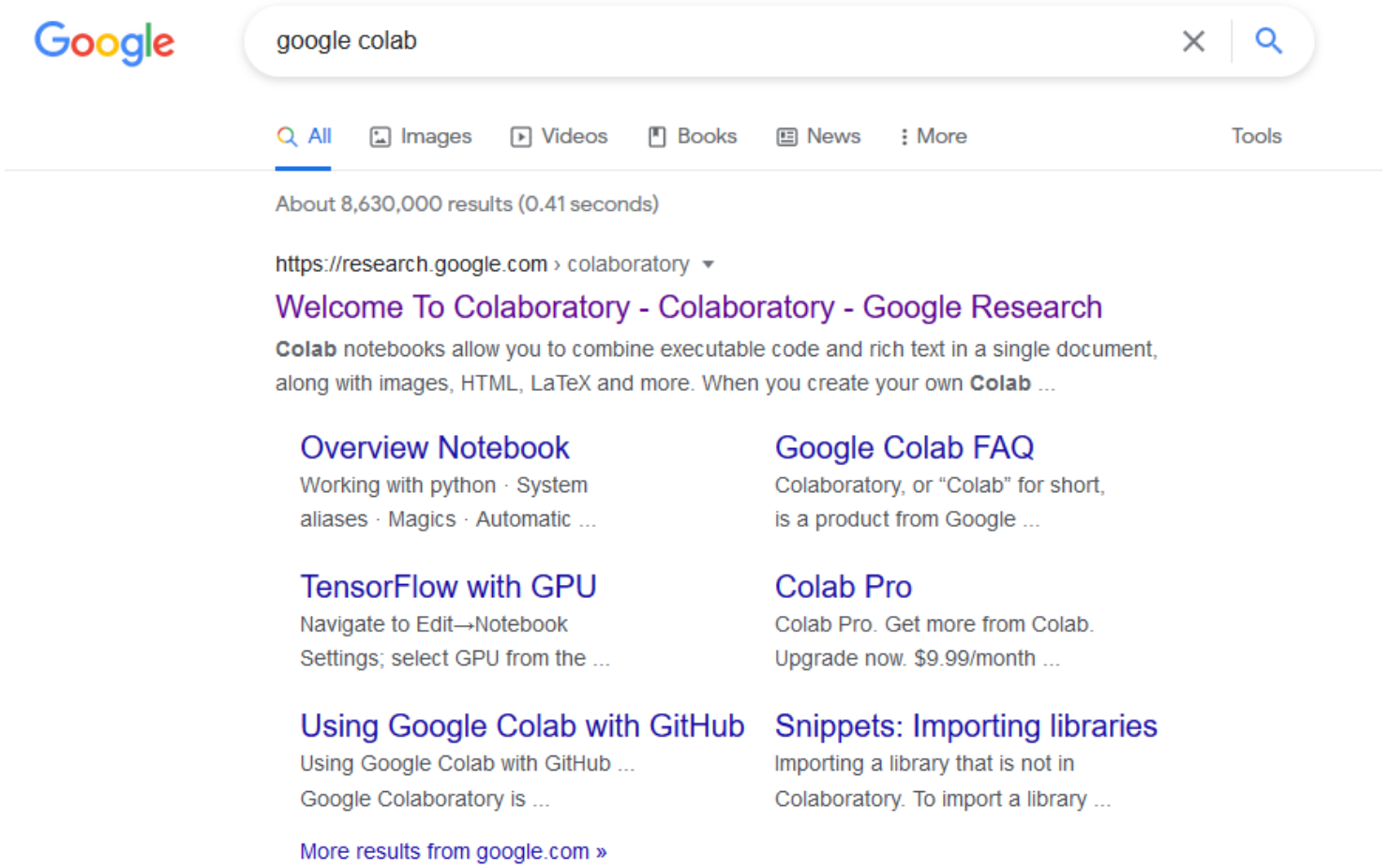

Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
Completing Anaconda3 2020.11 (64-bit) Setup
Thank you for installing Anaconda Individual Edition.
Here are some helpful tips and resources to get you started. We recommend you bookmark these links so you can refer back to them later.
Anaconda Individual Edition Tutorial
Getting Started with Anaconda
< Back
Finish
Cancel

Anaconda Navigator

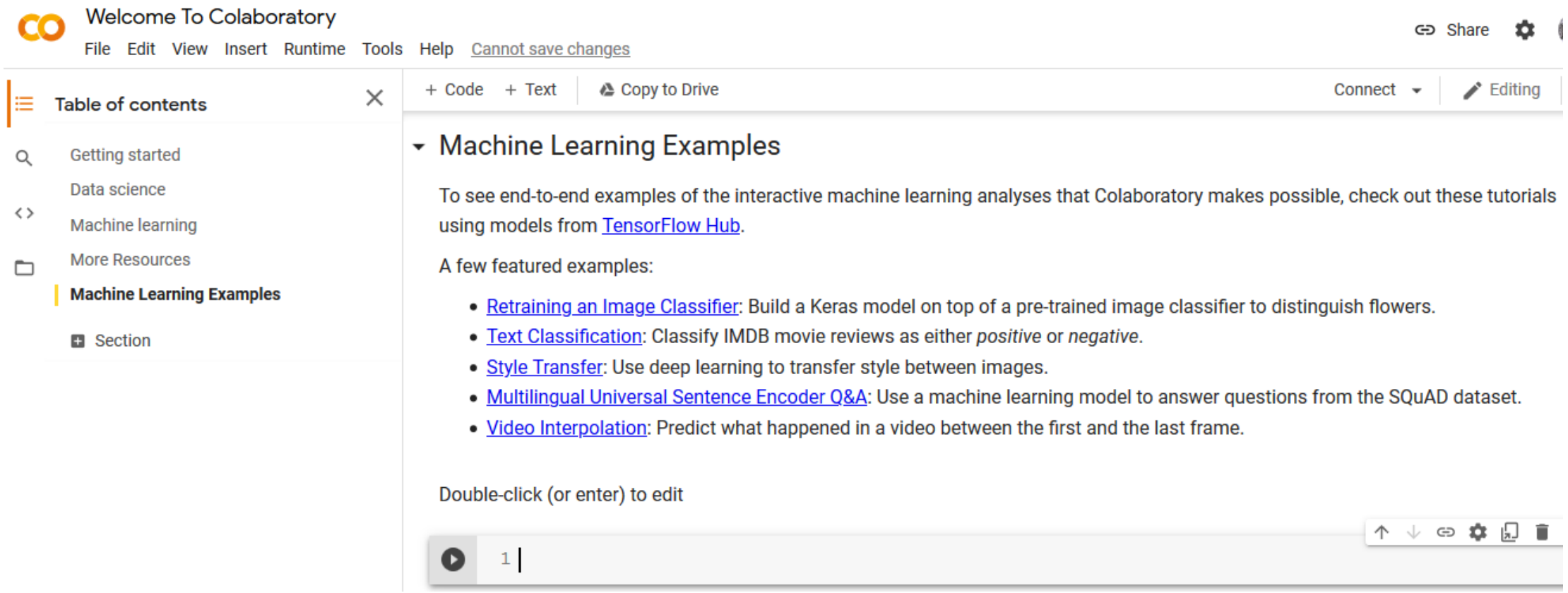




Colaboratory



Colaboratory



Let's start introduction to python!