

DATA SOCIETY[®]

The premiere data science training for
professionals

Setting up Anaconda

1. What is Anaconda?
2. Download Anaconda from the Anaconda website:
<https://www.anaconda.com/>
 - Anaconda for Windows
 - Anaconda for Mac
3. Anaconda Navigator
 - Launching Jupyter Notebook
4. Python Programming Resources

What is Anaconda?

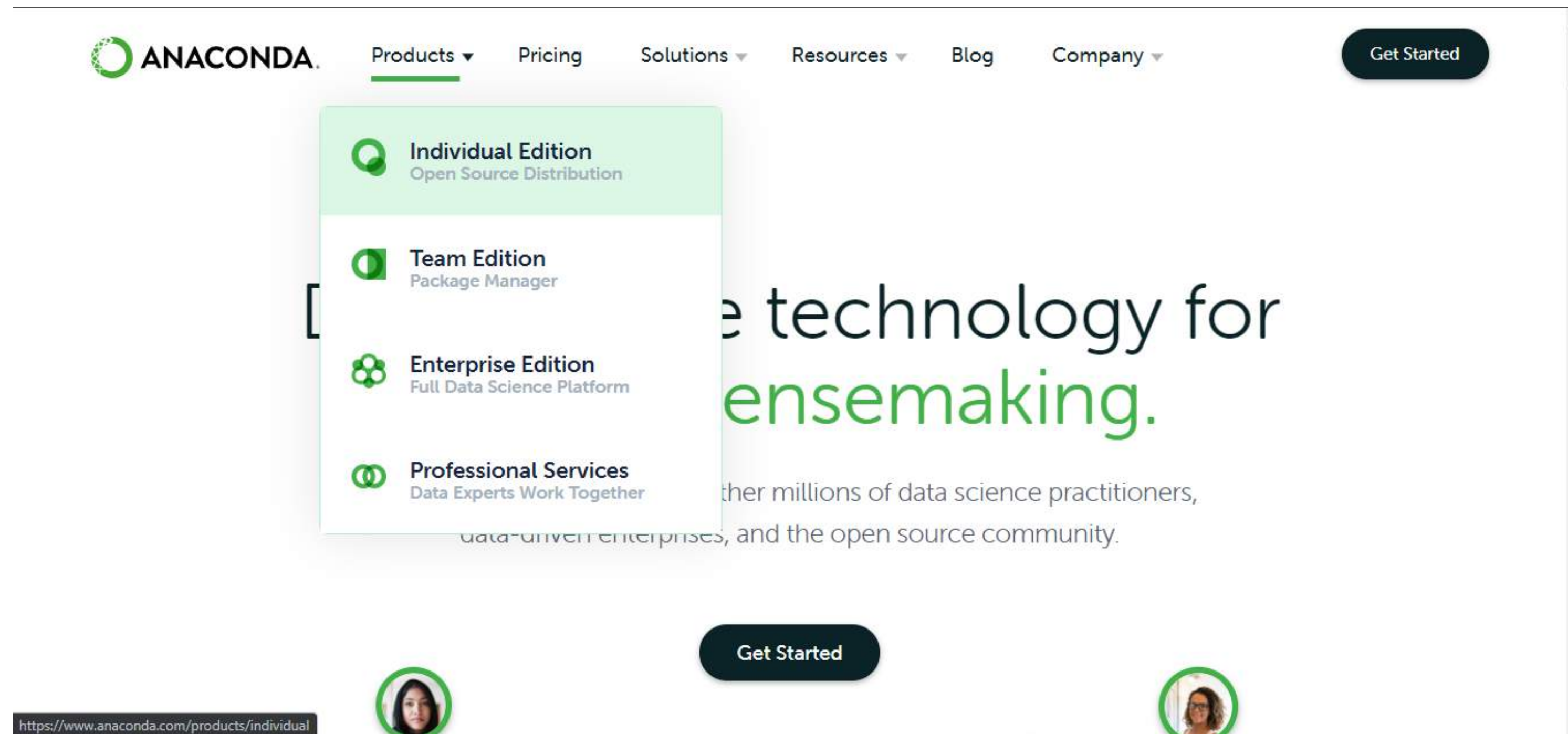
- Anaconda is the world's most popular Python data science platform
 - Over 4.5 million users
- Provides the most popular data science packages in one easy installation
 - Over 1,000 packages included in the install
- Provides a package management system
- It's free and open source



ANACONDA[®]

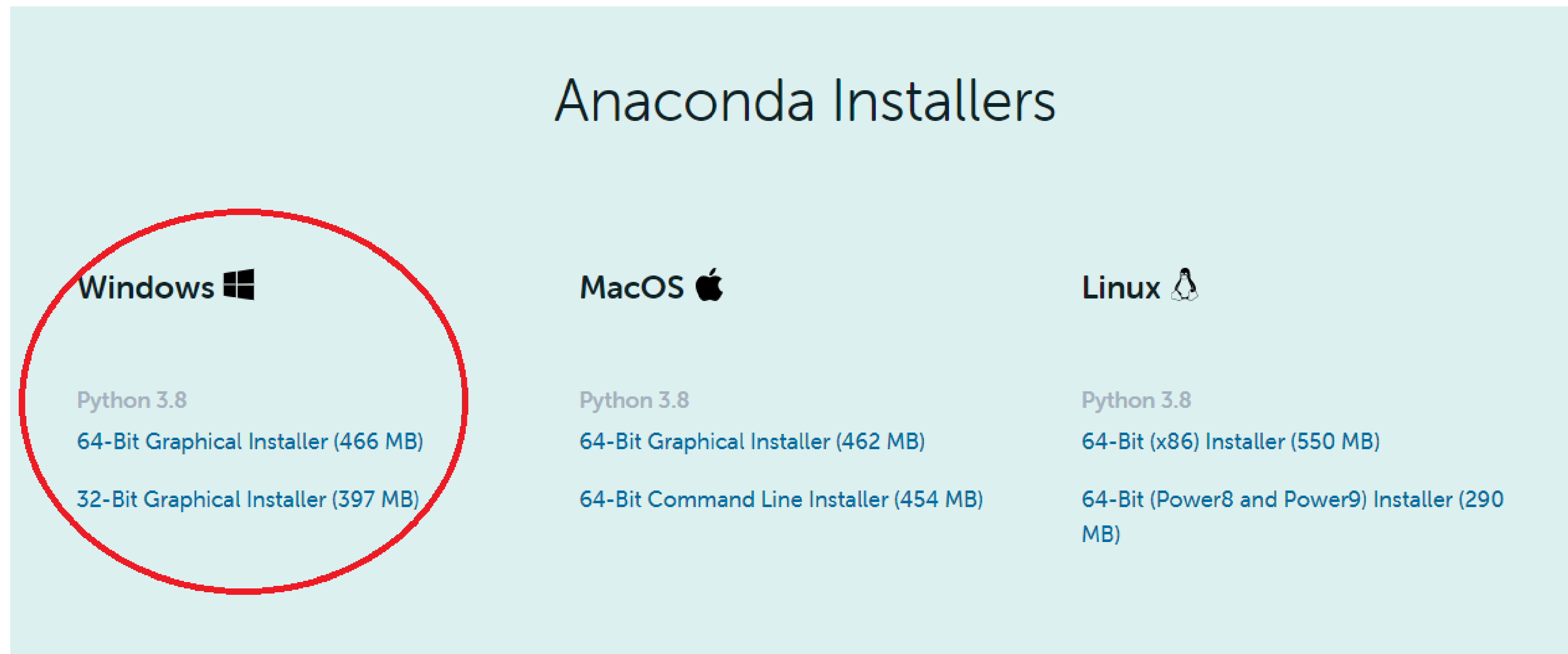
Install Anaconda

- Go to <http://www.anaconda.com> and click on "Products" from the top menu and select "Individual Edition". (Note: The Anaconda link mentioned maybe different, if a newer version of Anaconda has been released)



Anaconda for Windows

- To download Anaconda for Windows, scroll down to Anaconda Installers and click the Python installer link under "Windows"

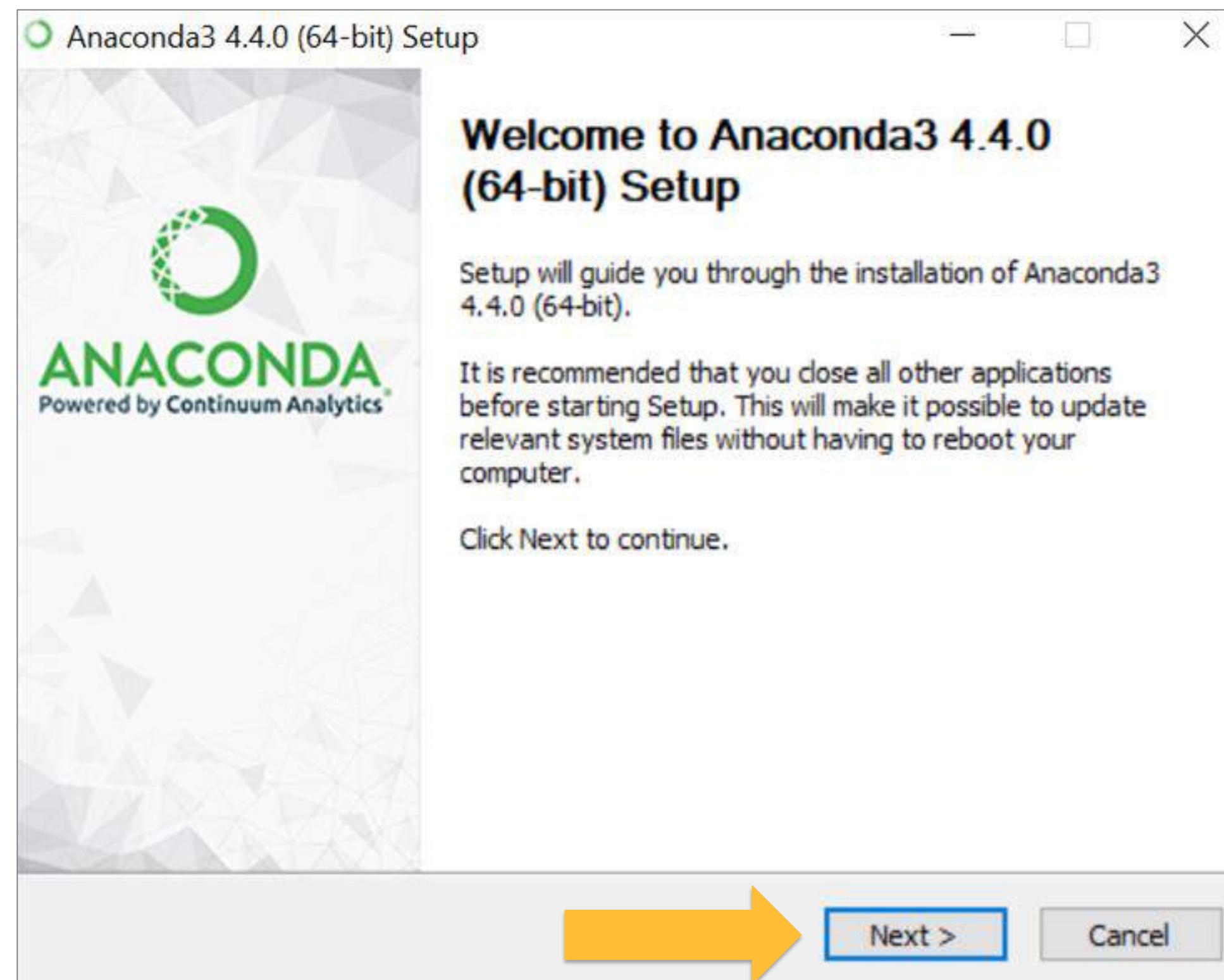


The screenshot shows the 'Anaconda Installers' page. The 'Windows' section is circled in red. It lists two installers for Python 3.8: a 64-Bit Graphical Installer (466 MB) and a 32-Bit Graphical Installer (397 MB). The MacOS and Linux sections are also visible, each listing their respective installers.

Operating System	Python Version	Installer Type	Size
Windows	Python 3.8	64-Bit Graphical Installer	466 MB
		32-Bit Graphical Installer	397 MB
MacOS	Python 3.8	64-Bit Graphical Installer	462 MB
		64-Bit Command Line Installer	454 MB
Linux	Python 3.8	64-Bit (x86) Installer	550 MB
		64-Bit (Power8 and Power9) Installer	290 MB

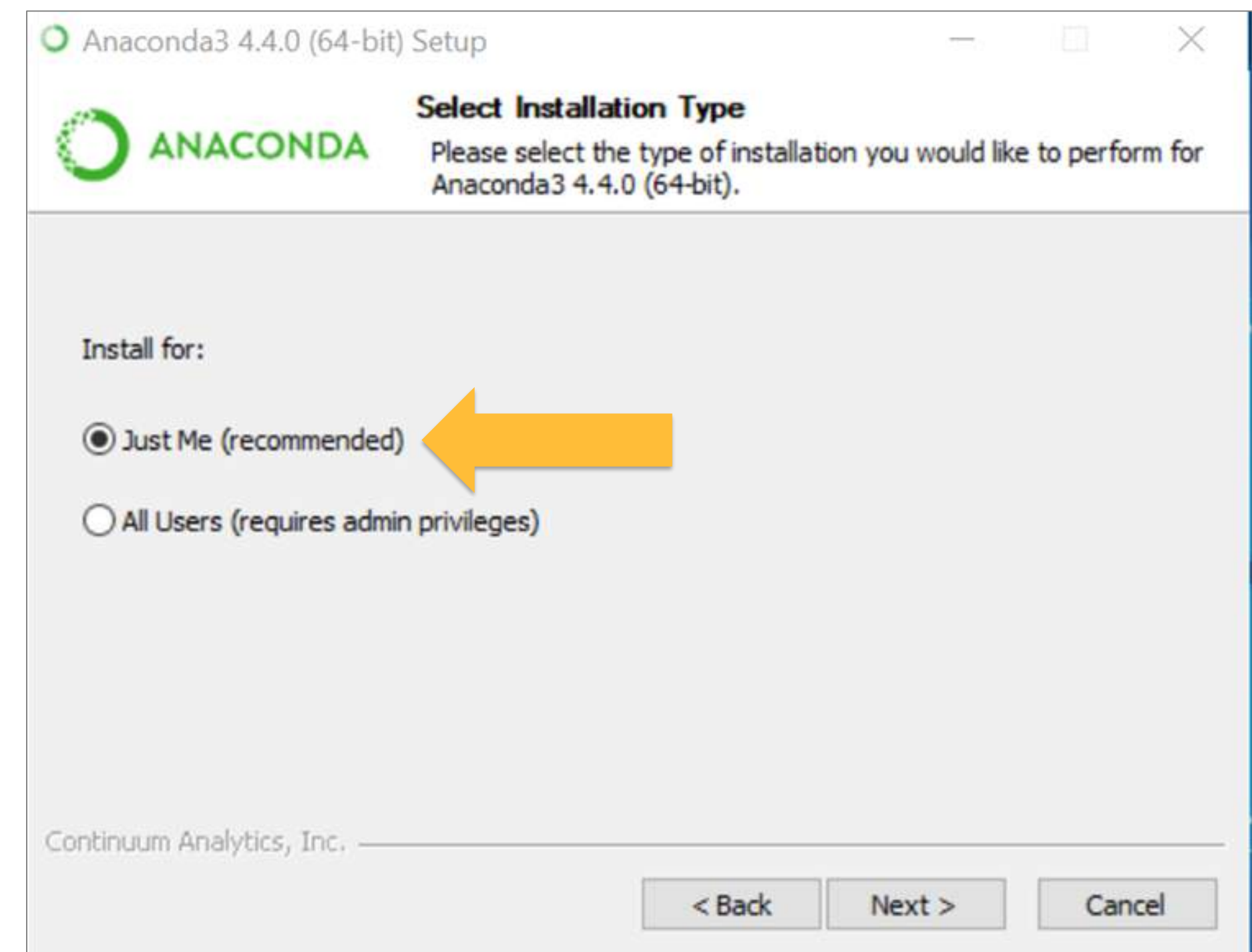
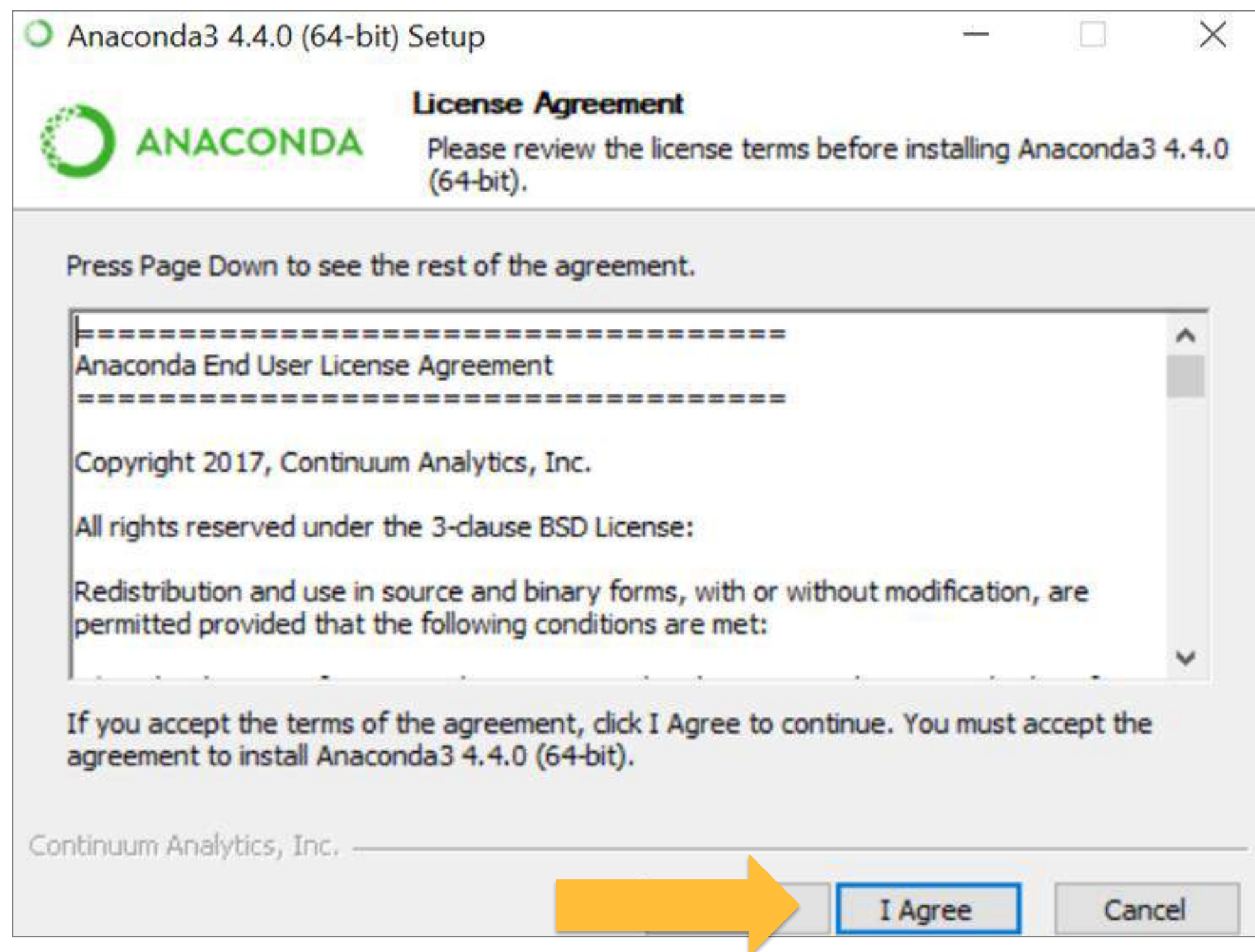
Anaconda for Windows

- Once it is downloaded, click on the file to open up the setup (*Note: The screenshots following might differ for newer versions of Python*)



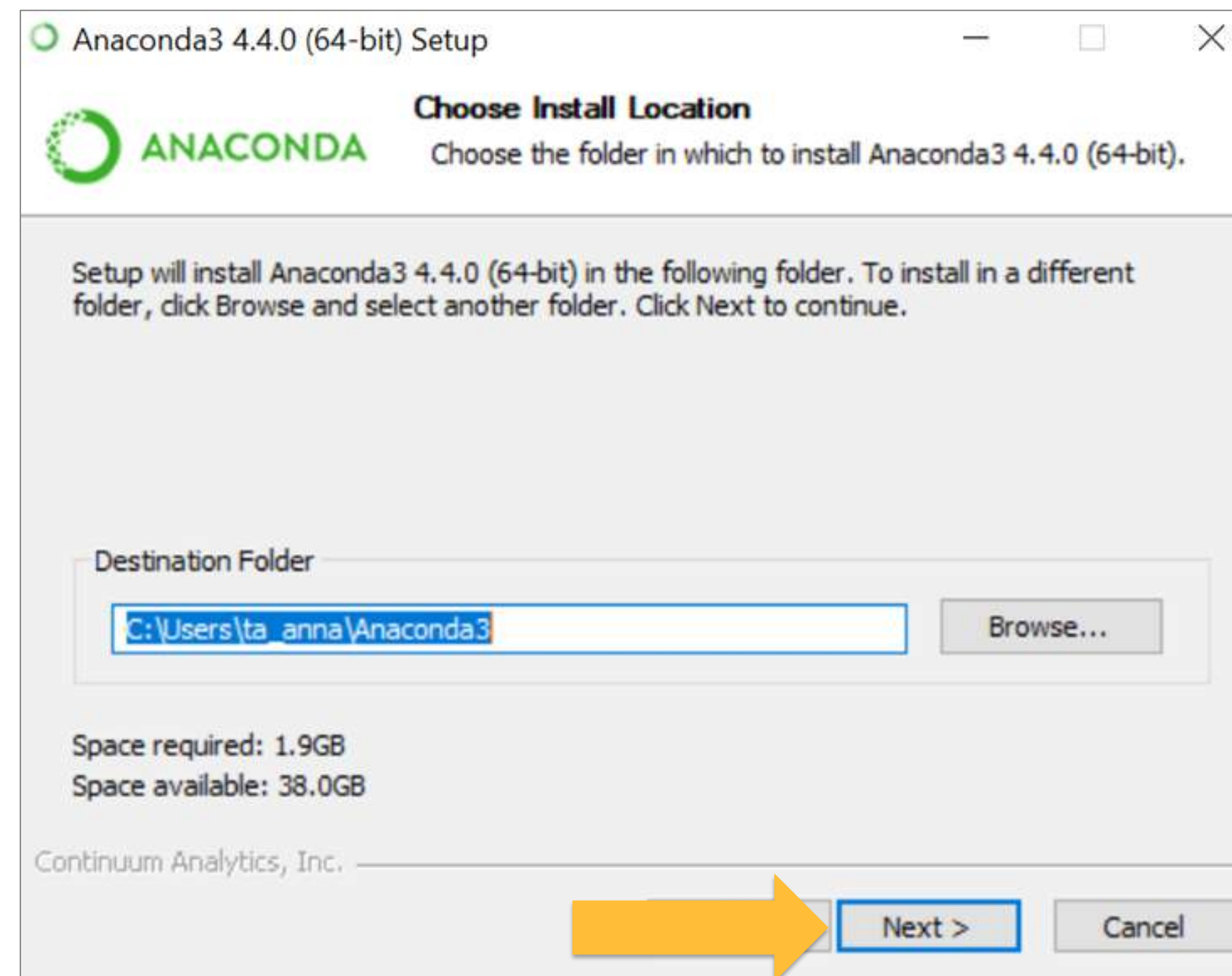
Anaconda for Windows

- Click on "I Agree" for the license agreement
- Click on the radio button "Just Me (recommended)" for Installation Type



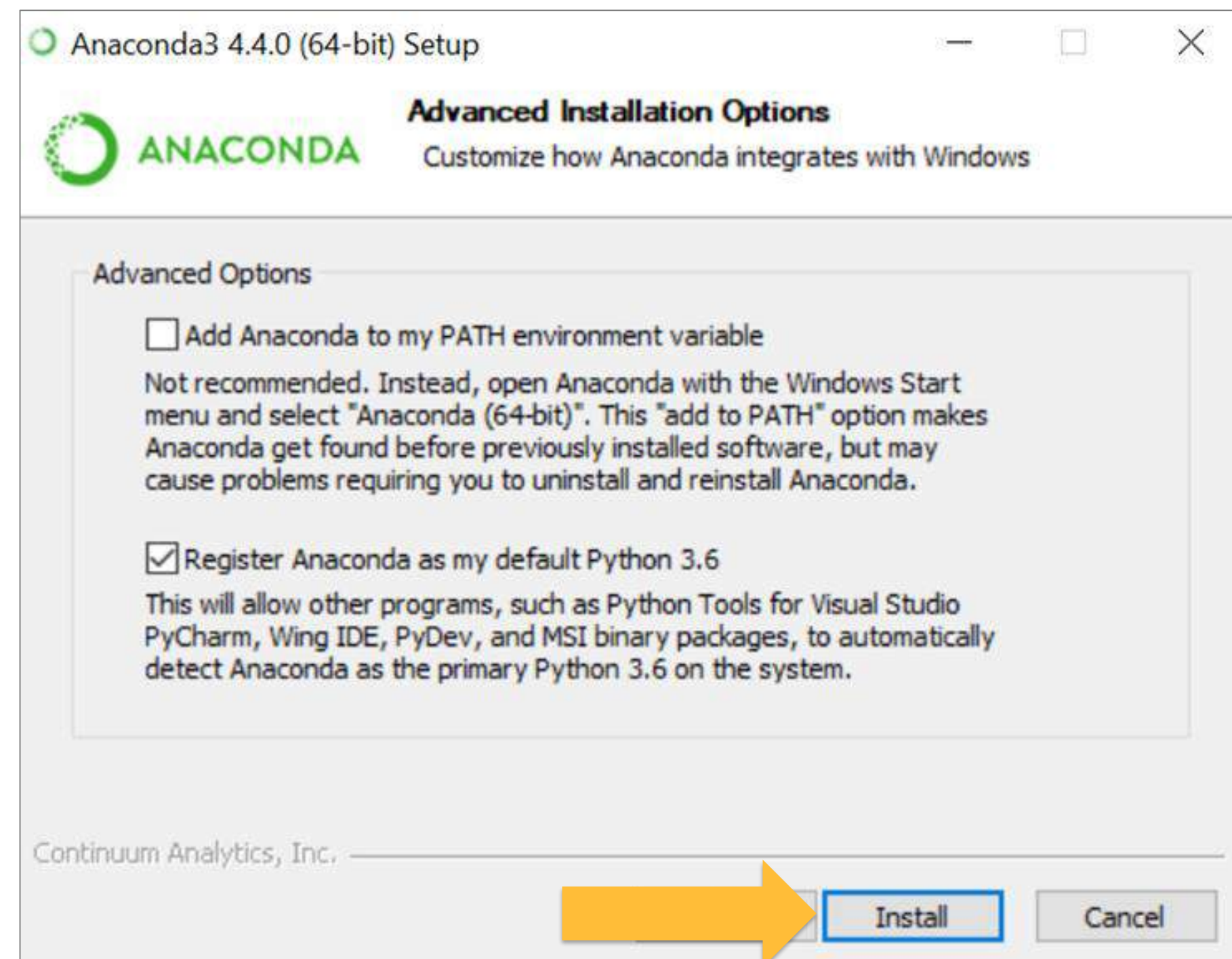
Anaconda for Windows

- Anaconda will automatically provide you with an install location – *do not change the destination folder*



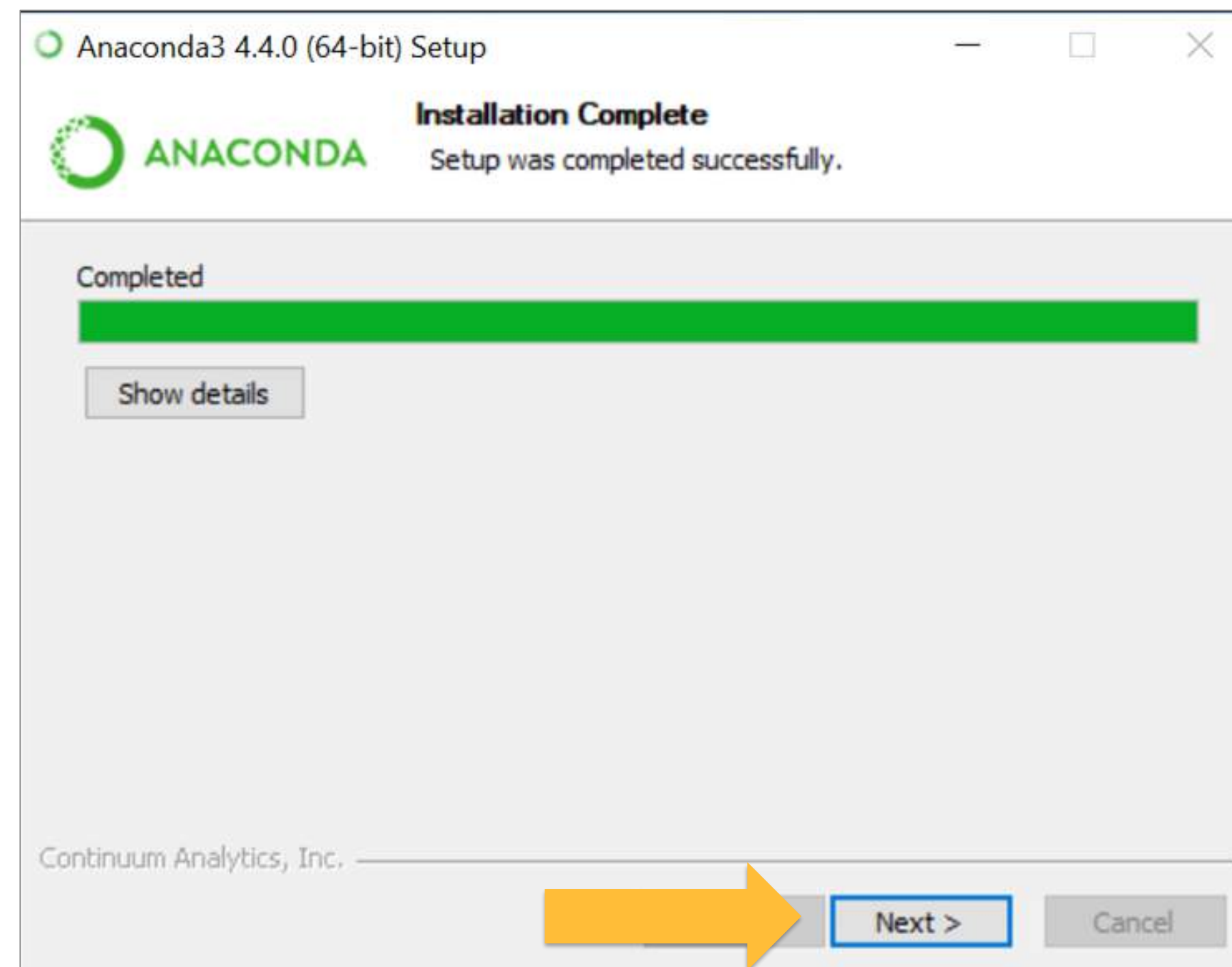
Anaconda for Windows

- Click to register Anaconda as your default Python `version`, then click "Install"



Anaconda for Windows




- Anaconda should then install and once the green bar is full, you'll see "Setup was completed successfully" and you can click "Next >"



Anaconda for Mac

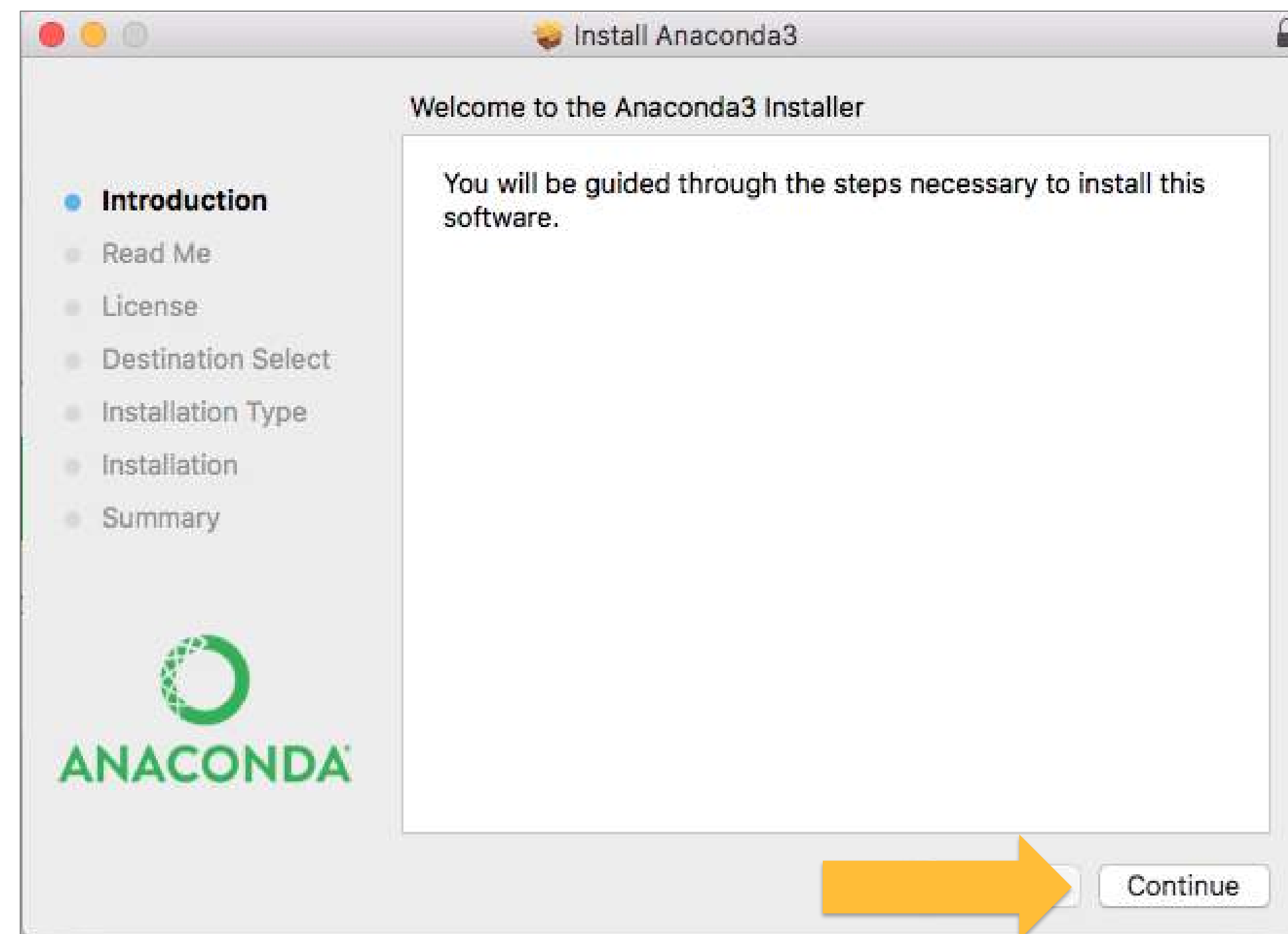
- To download Anaconda for Mac, scroll down to Anaconda Installers and click the Python installer link under "MacOS"

Anaconda Installers

Windows 	MacOS 	Linux 
Python 3.8 64-Bit Graphical Installer (466 MB) 32-Bit Graphical Installer (397 MB)	Python 3.8 64-Bit Graphical Installer (462 MB) 64-Bit Command Line Installer (454 MB)	Python 3.8 64-Bit (x86) Installer (550 MB) 64-Bit (Power8 and Power9) Installer (290 MB)

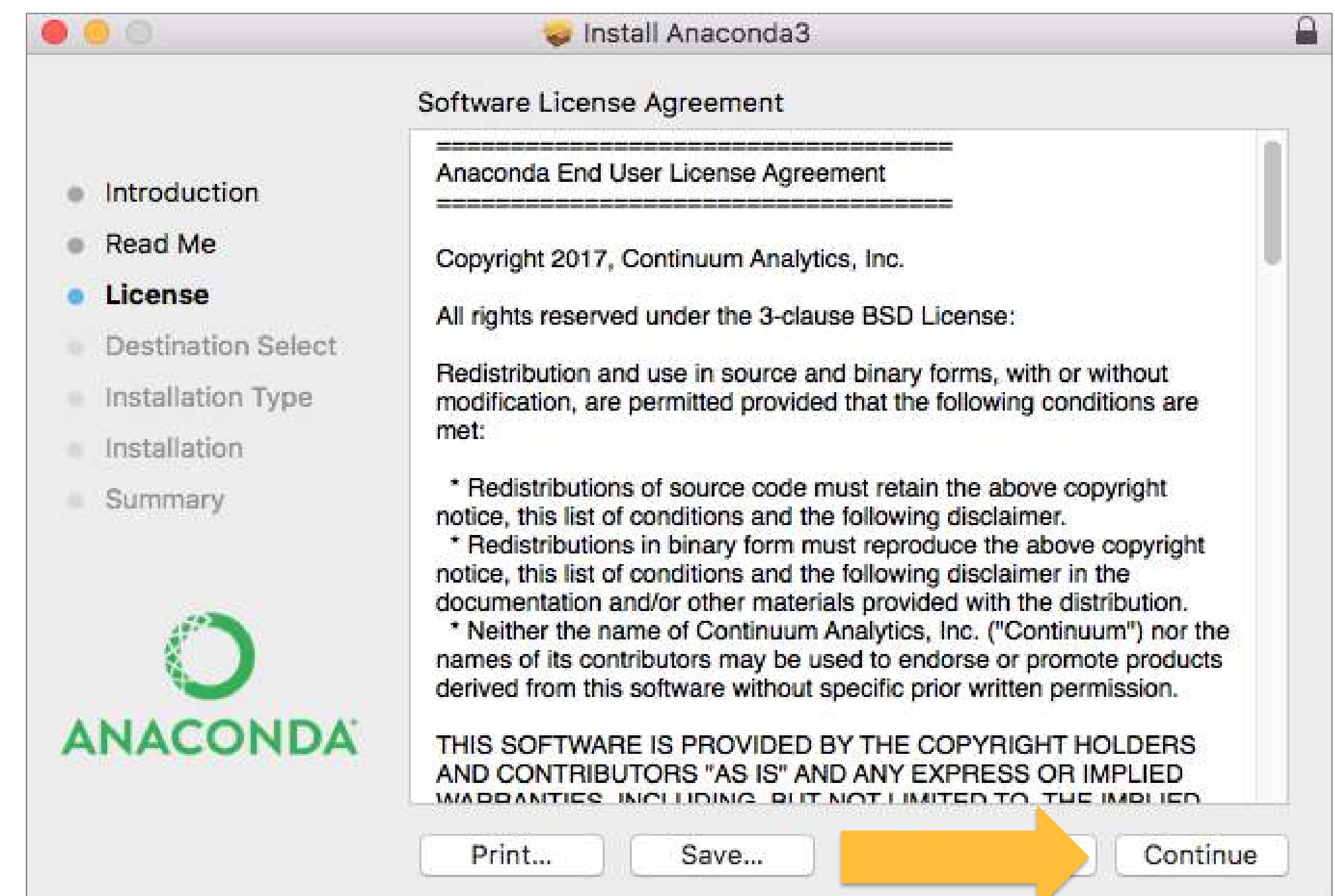
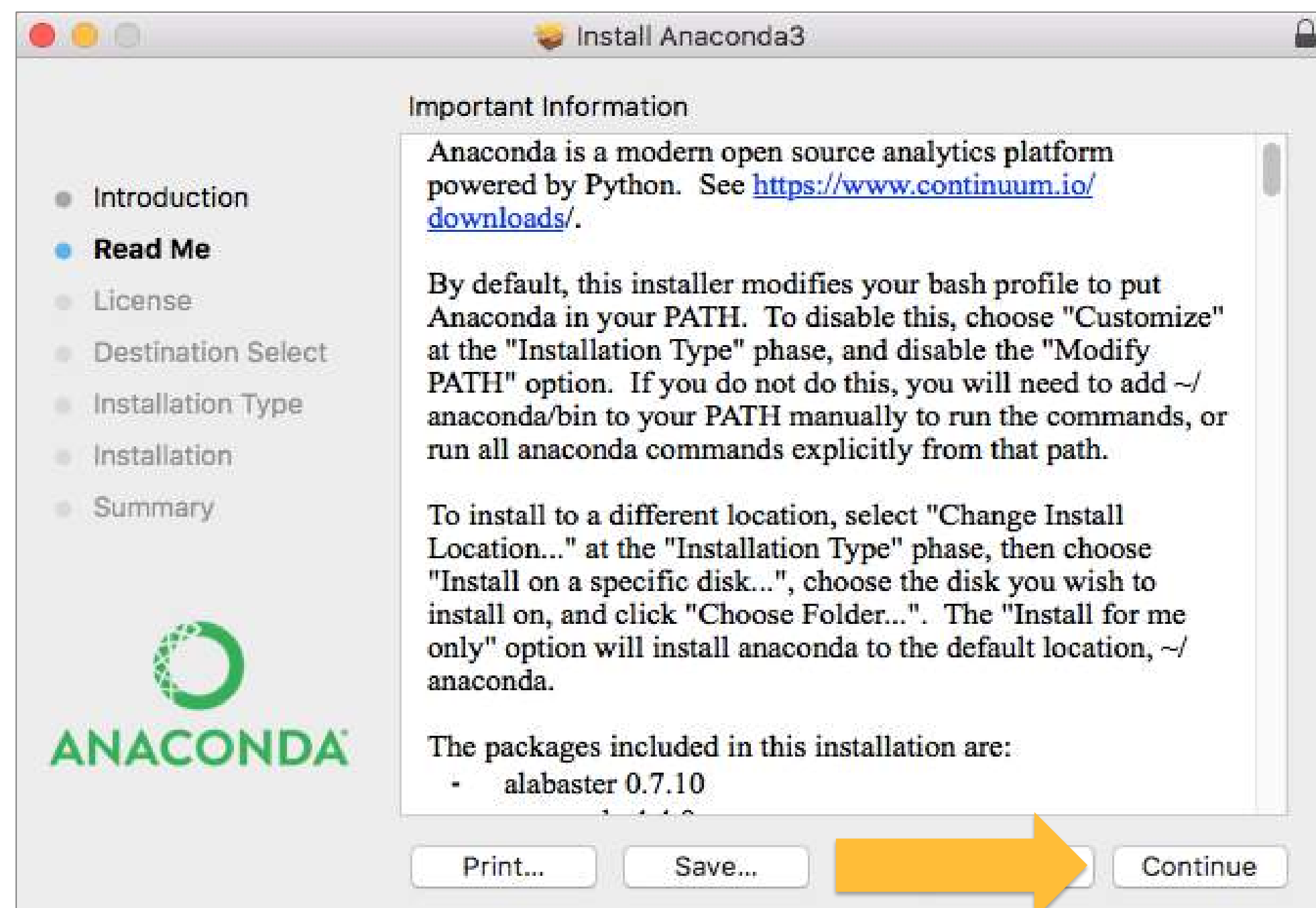
Anaconda for Mac

- Once it is downloaded, click on the file to open up the setup. (*Note: The screenshots following might differ for newer versions of Python*)



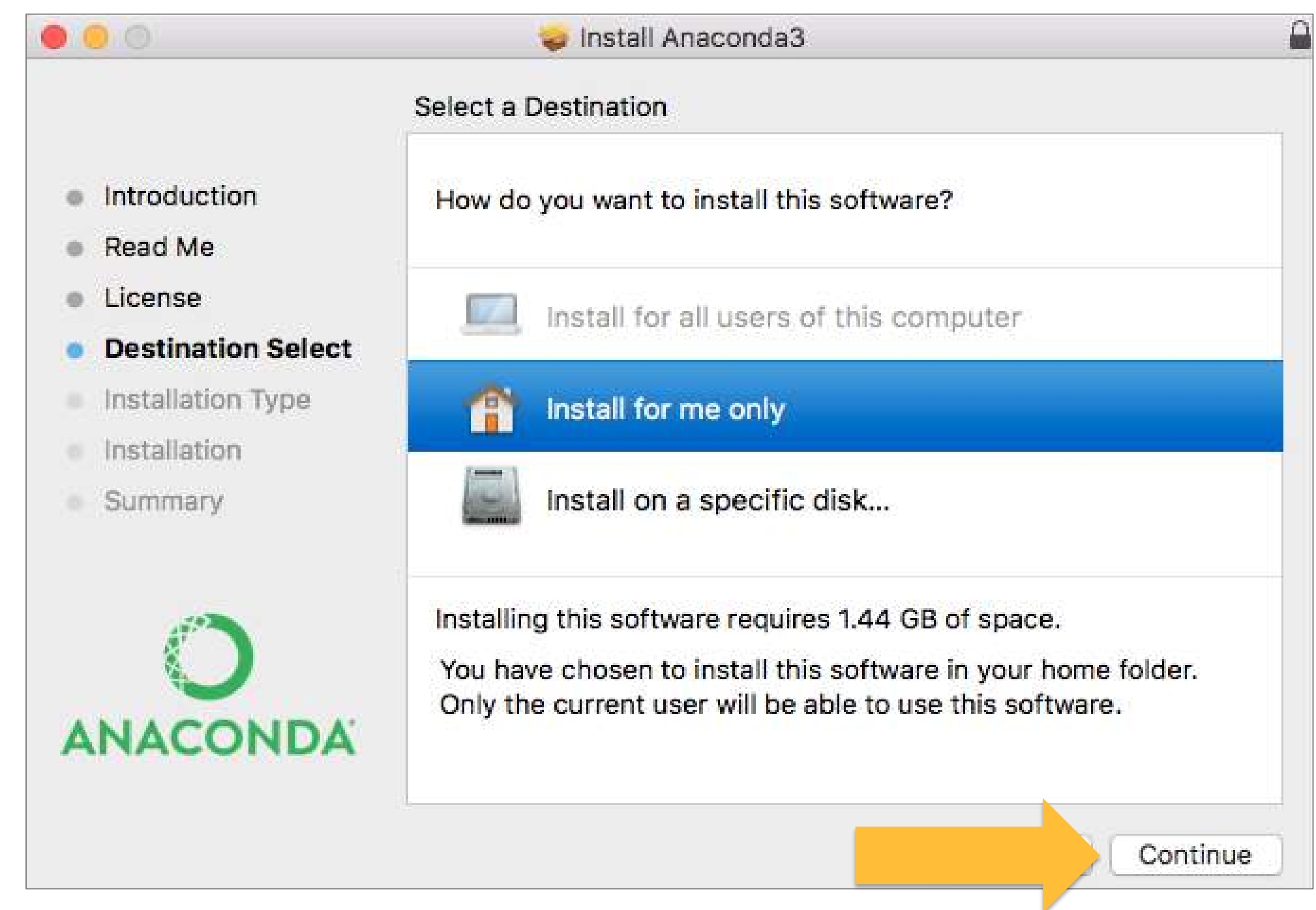
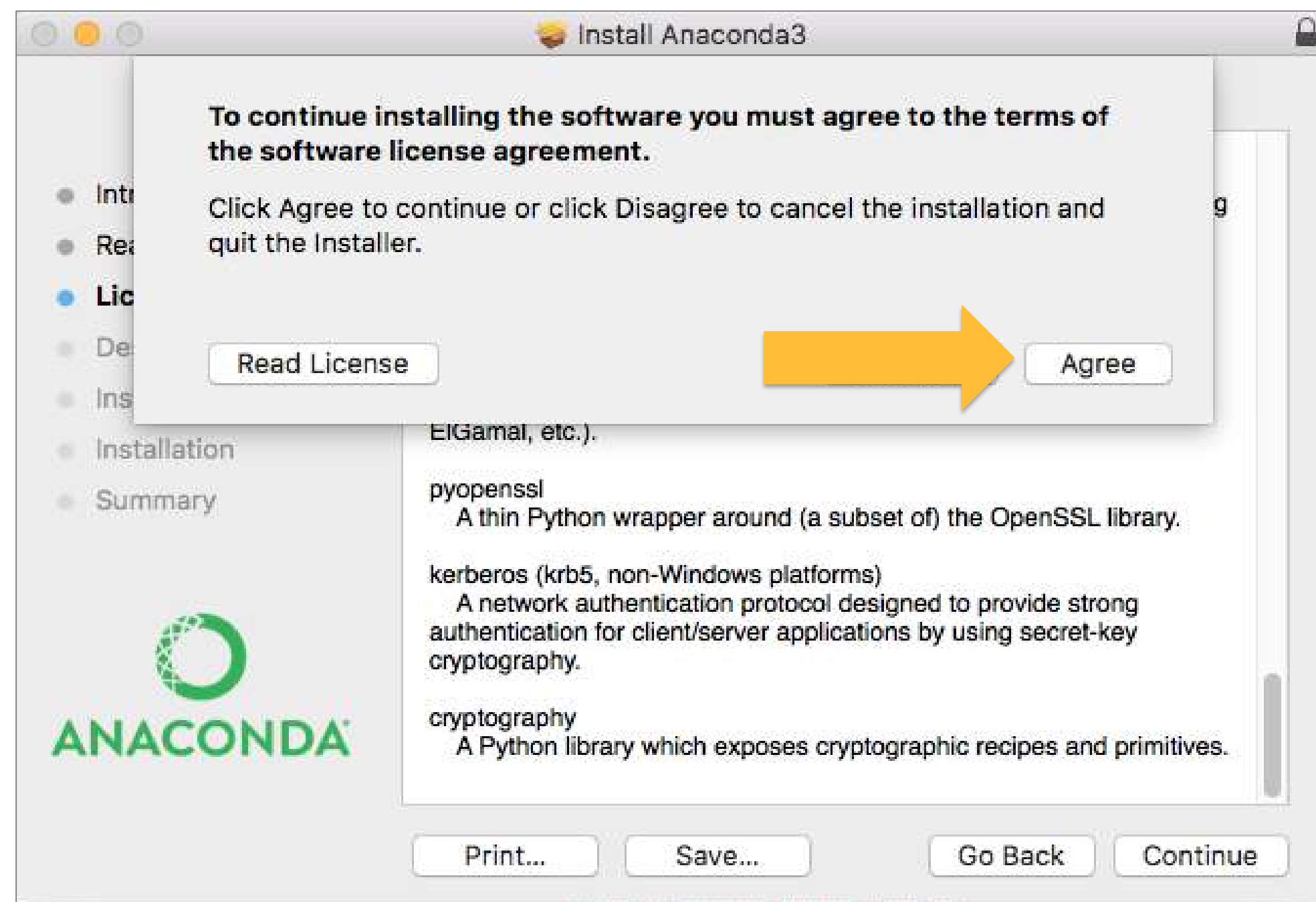
Anaconda for Mac

- Click on "Continue" for the Read Me information
- Click on "Continue" for the License Agreement



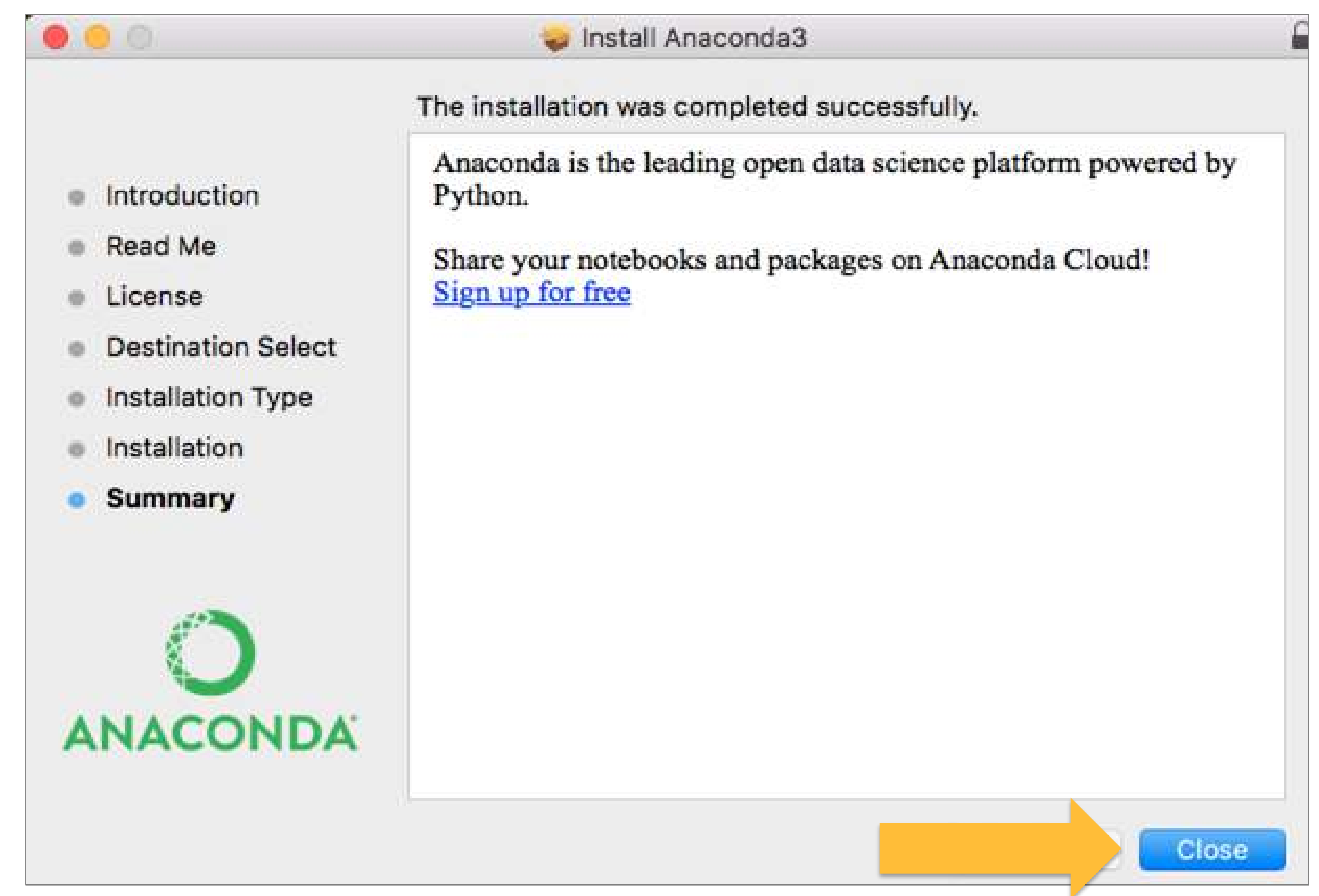
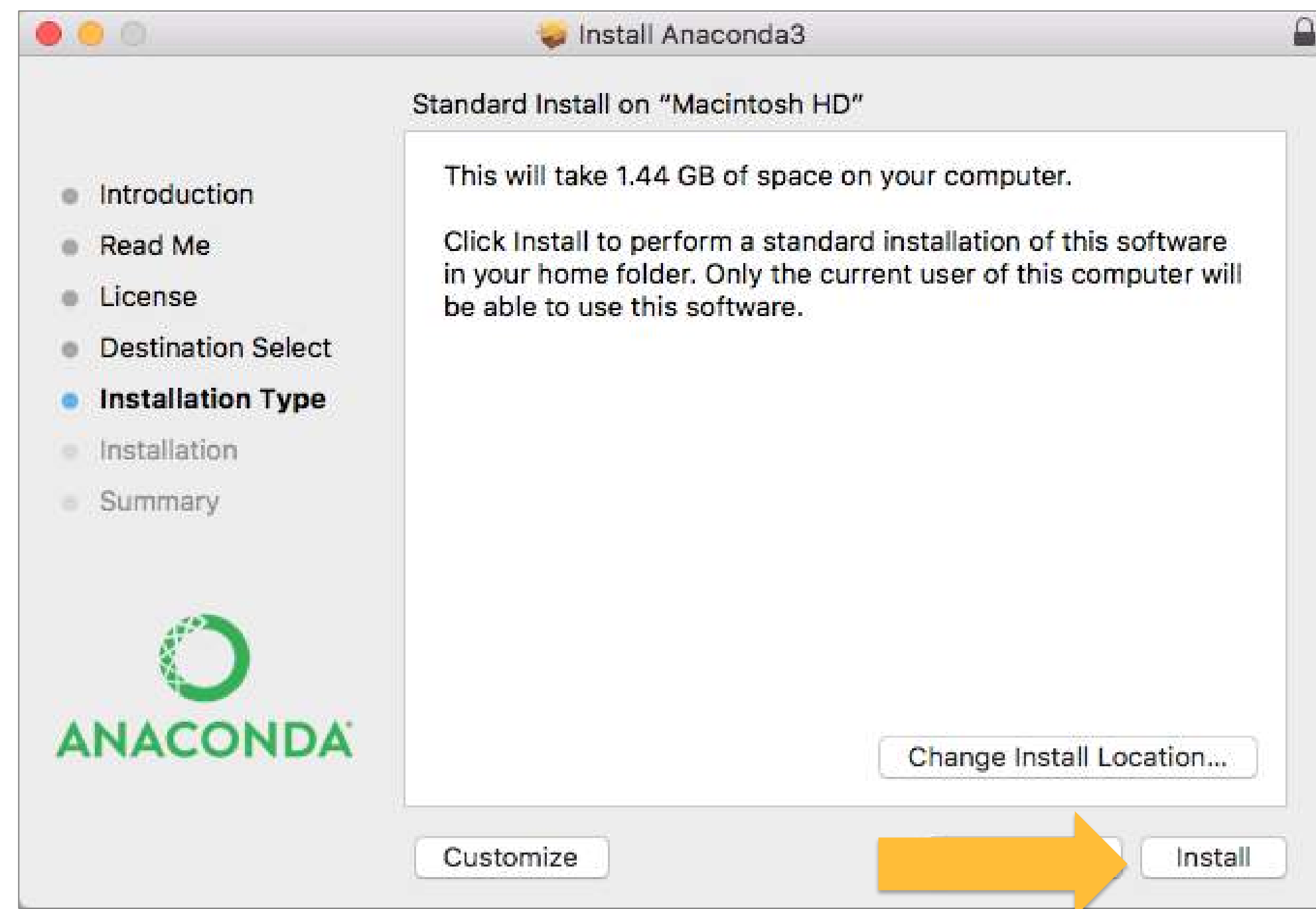
Anaconda for Mac

- Click “Agree” for the License Agreement
- Choose to “Install for me only” and then click “Continue”



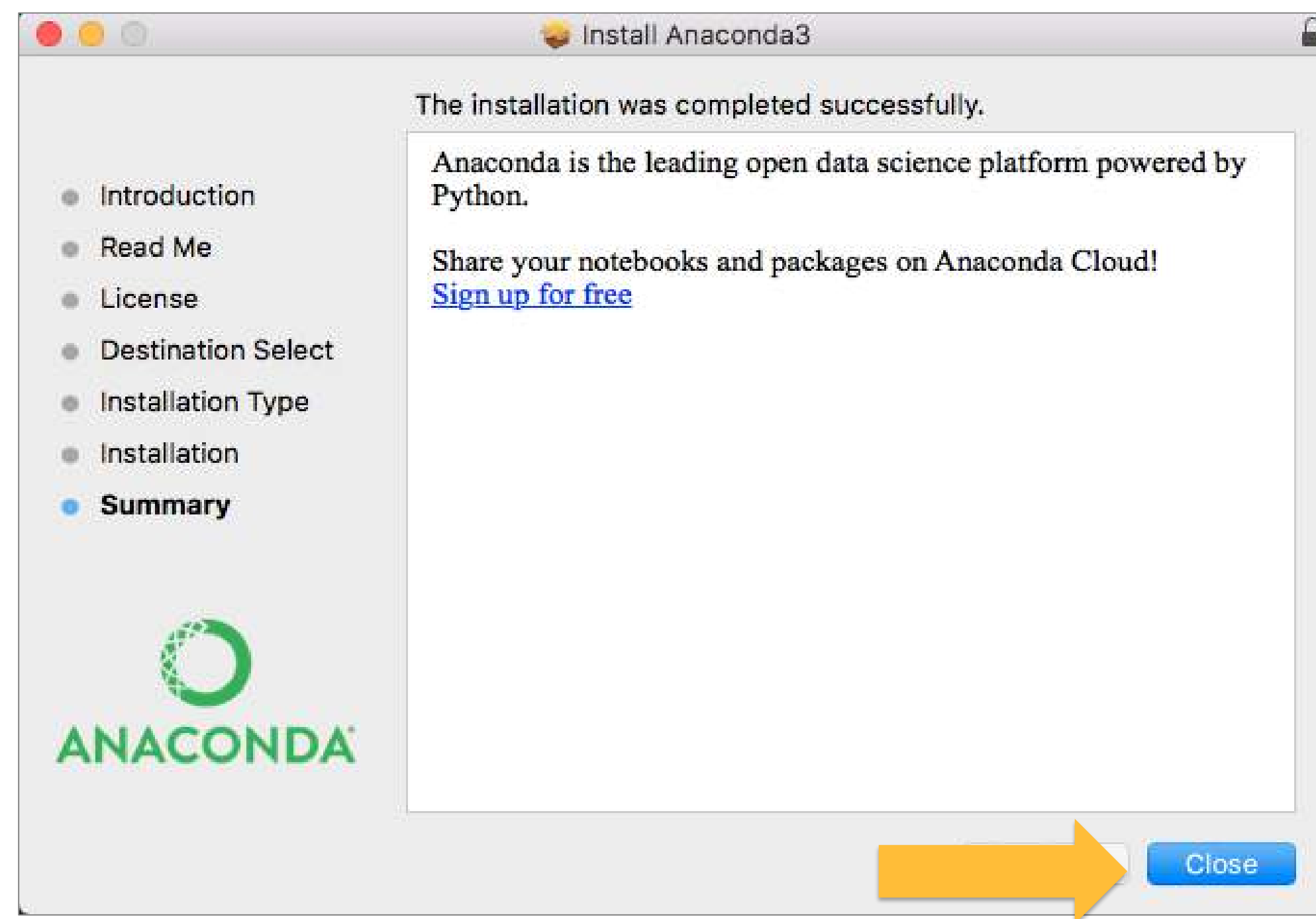
Anaconda for Mac

- Leave the install location unchanged and click "Install"
- Once the installation is finished, click "Close"



Anaconda for Mac

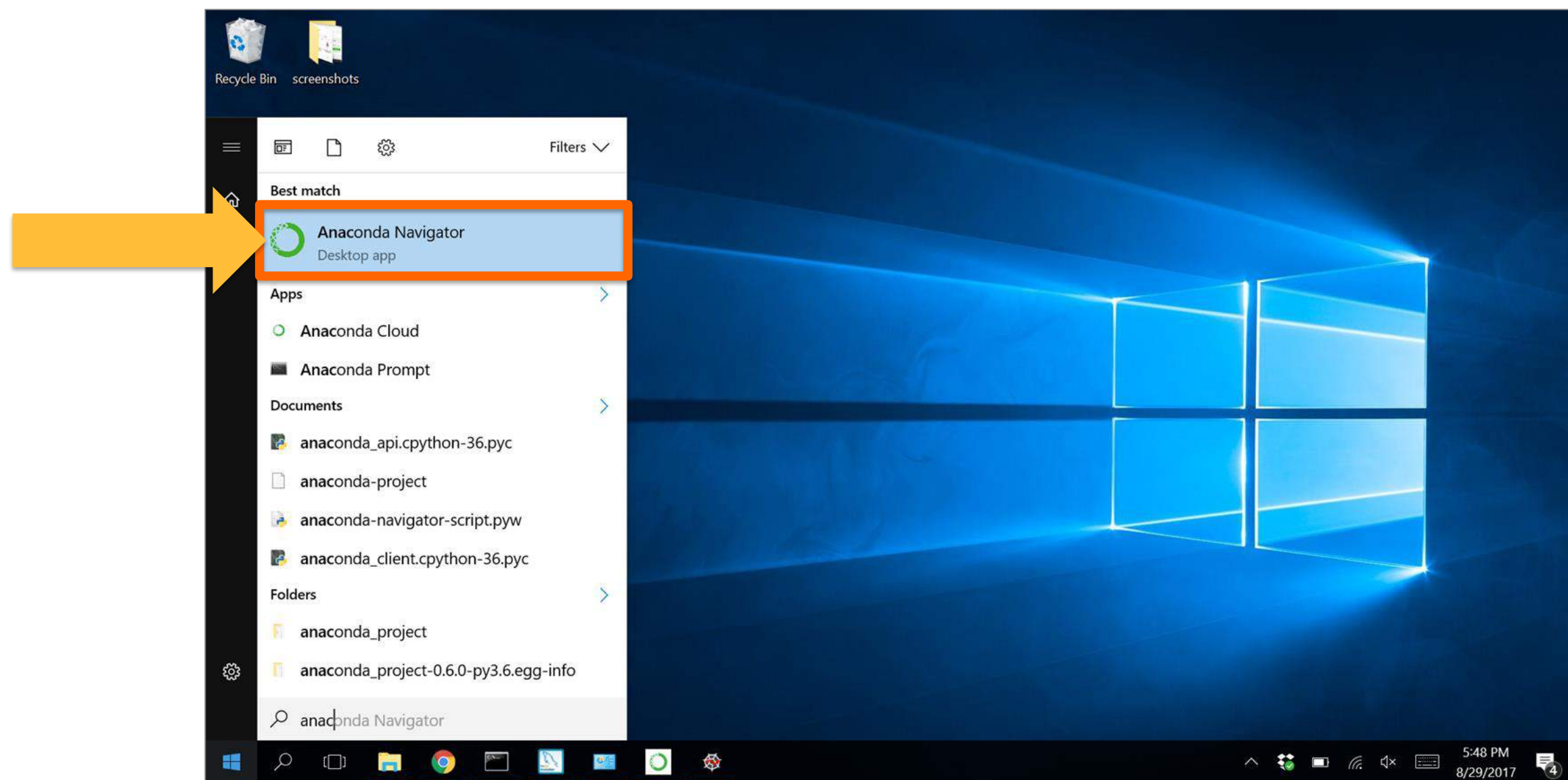
- You should see "The installation was completed successfully" – once you reach that window, you can click "Close" to finish the installation process



Open Anaconda Navigator

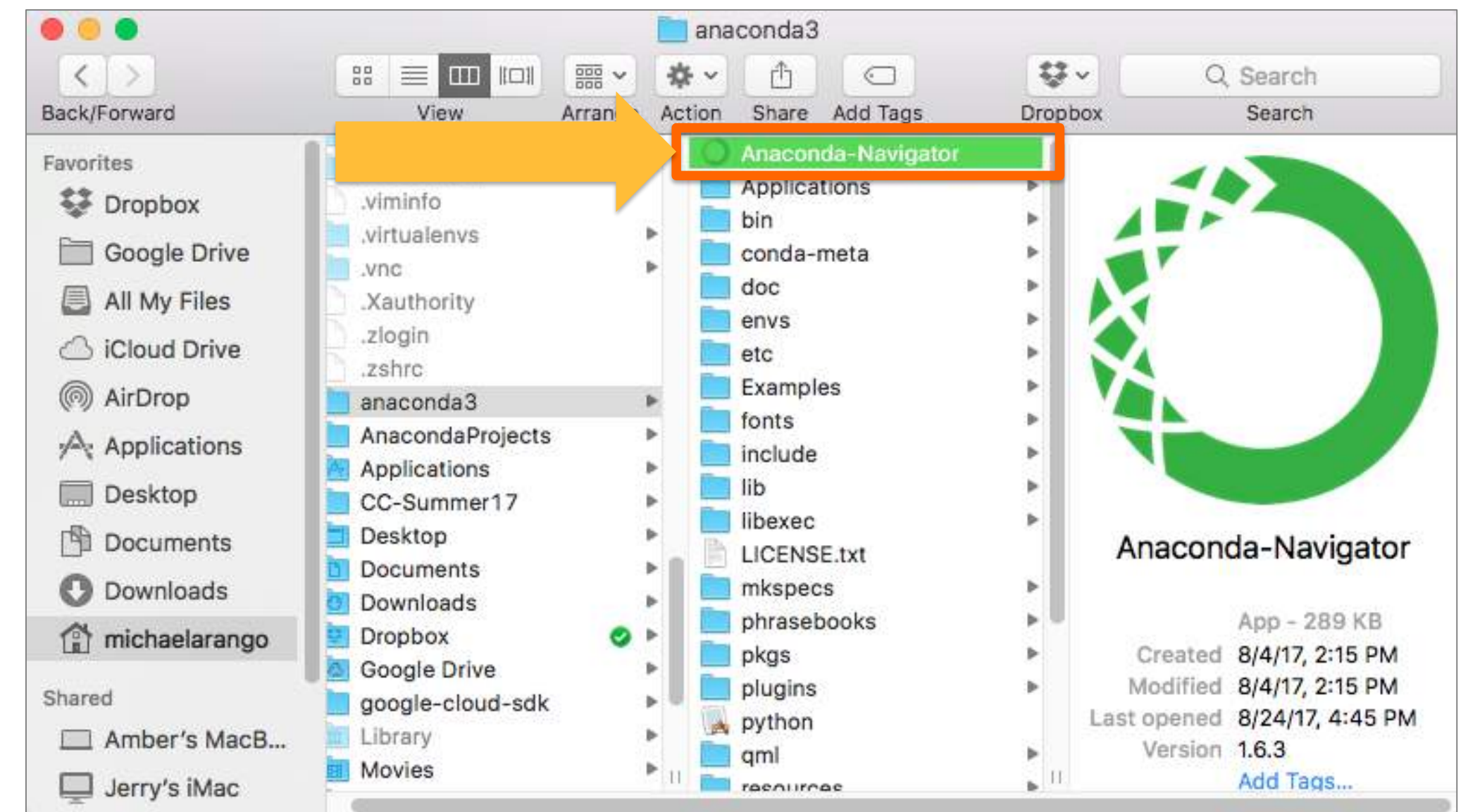
Windows

You should be able to find Anaconda in your main menu



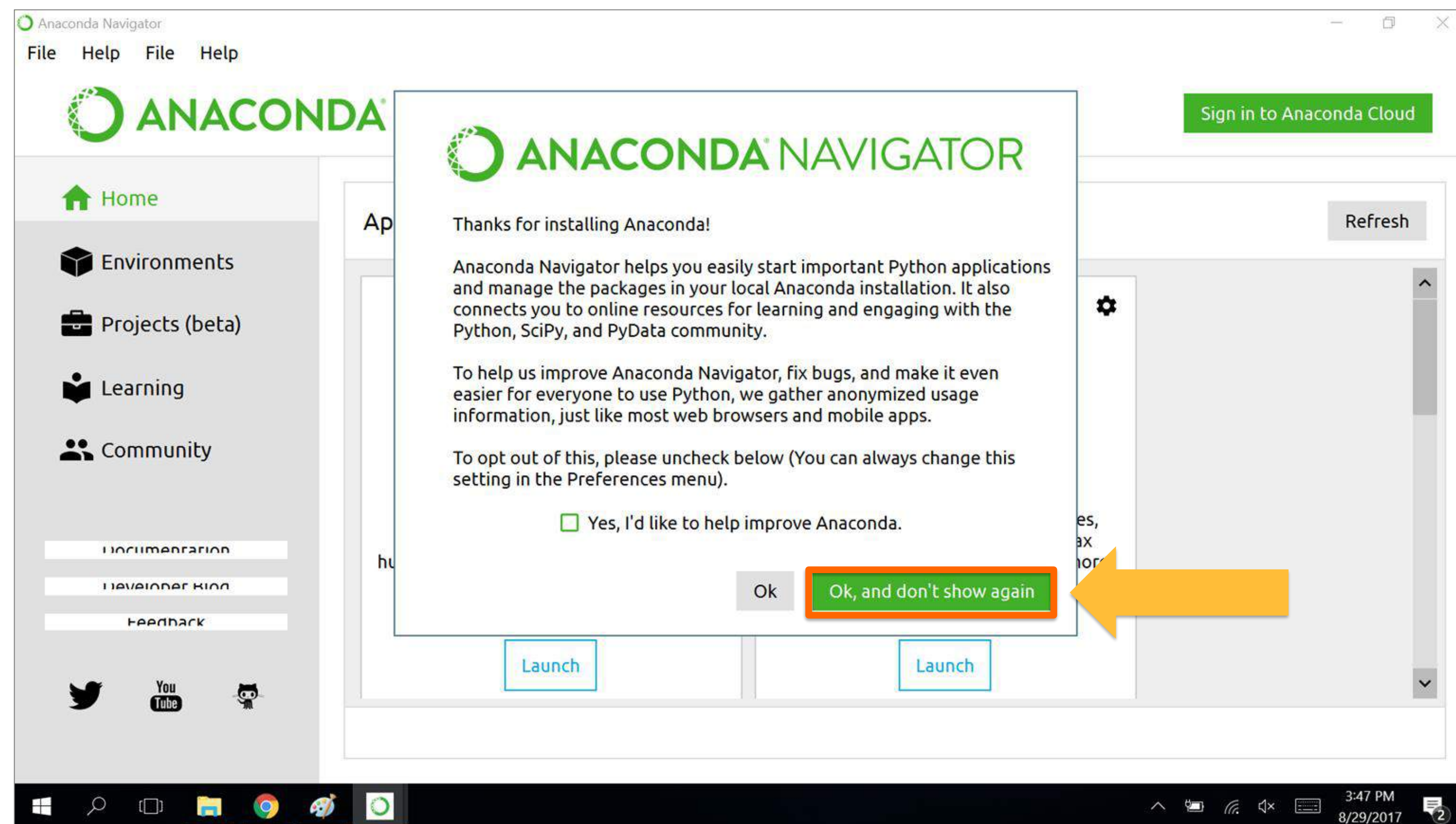
Mac

You should be able to find Anaconda in your user profile



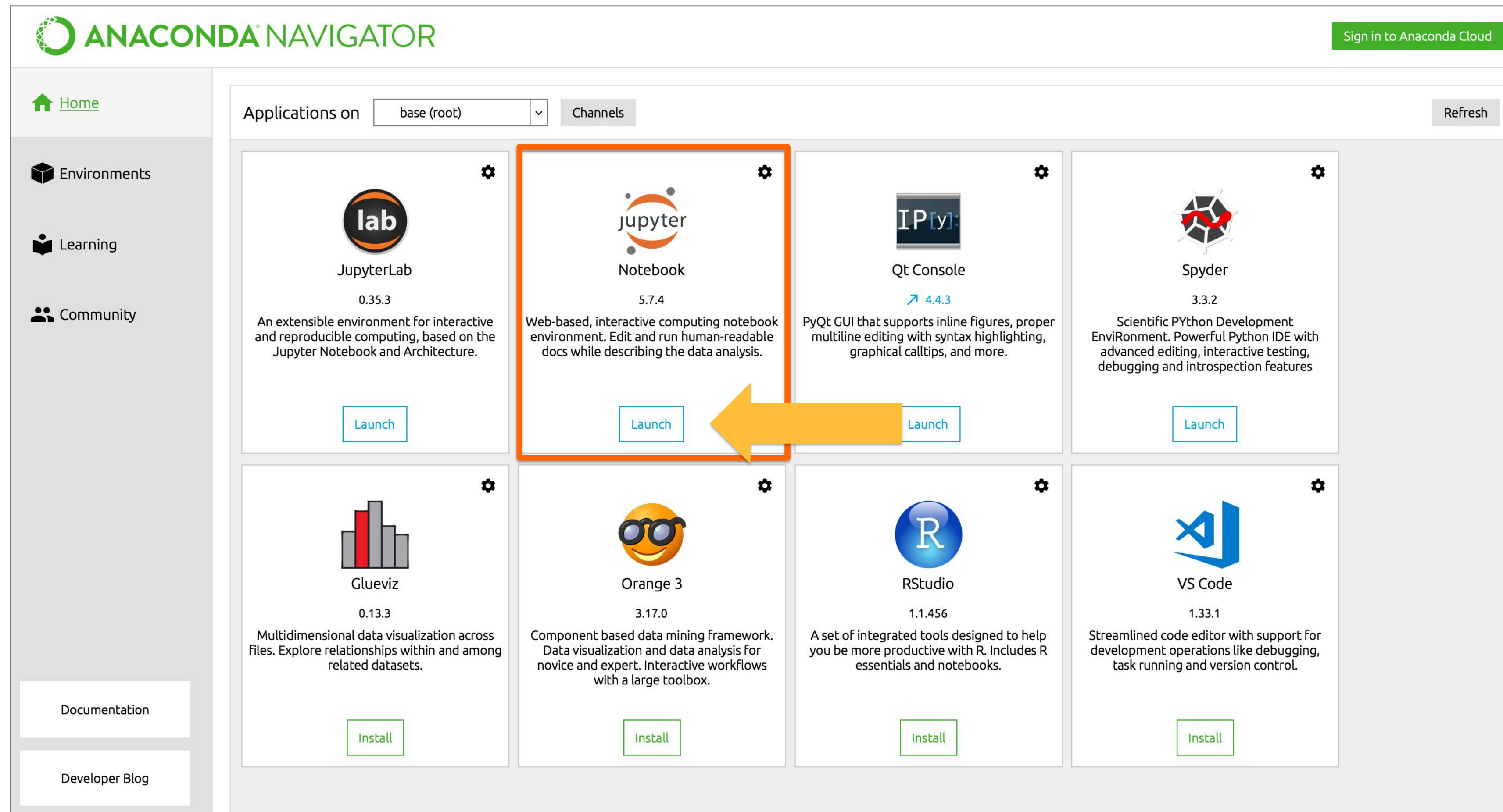
Anaconda Navigator

- You do not need to check the box next to "Yes, I'd like to help improve Anaconda" – you can click on "Ok, and don't show this again" to continue



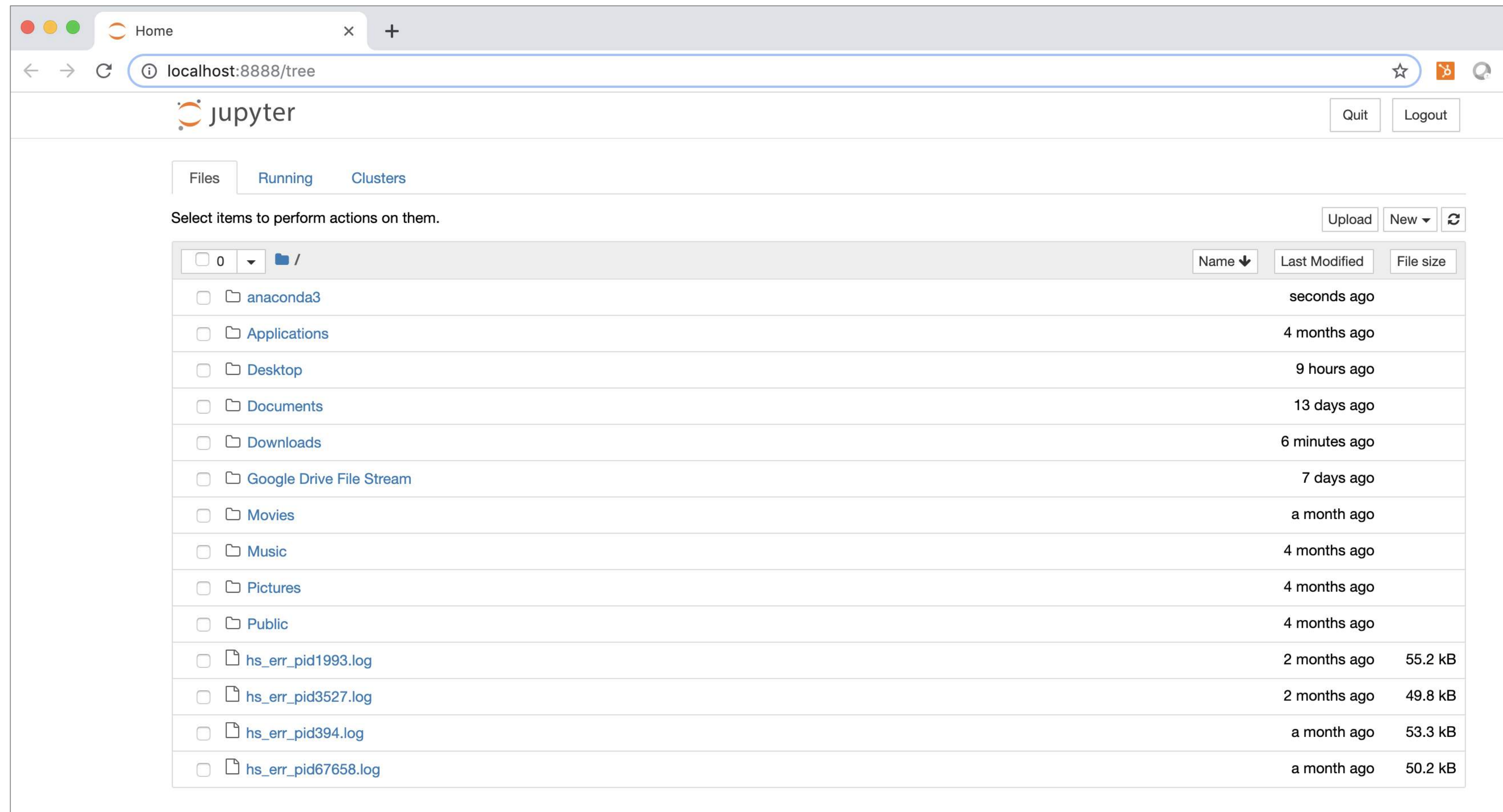
Jupyter notebook

- Click on "Launch" underneath the Jupyter notebook logo



Jupyter notebook

- A browser window should open that shows your Desktop files



Jupyter notebook

- Click on a .ipynb file to open Jupyter notebook – you just opened a notebook!

The screenshot displays the Jupyter Notebook interface. On the left is a file browser showing a directory with several files: `day1_intro_to_python_code (1).ipynb`, `day1_intro_to_python_exercises.ipynb`, `day1_intro_to_python_exercises_with_answers.ipynb`, `day1-intro-to-python.pdf`, and `IDB Intro to Python - Knowledge Checks.pdf`. The main area shows an open notebook titled `day1_intro_to_python_code (1)` with unsaved changes. The notebook has three code cells:

```
In [ ]: #####  
#####  
##### COPYRIGHT - DATA SOCIETY #####  
#####  
#####  
  
## DAY1 INTRO TO PYTHON ##  
  
## NOTE: To run individual pieces of code, select the line of code and  
##       press ctrl + enter for PCs or command + enter for Macs
```

```
In [ ]: #-----  
#### Slide 22: Running commands in Jupyter ####  
  
1 + 1  
'Hello students'  
3 ** 2  
10 * 3  
4 / 3  
'a' + 'b'
```

```
In [ ]: #-----  
#### Slide 29: Working with variables ####  
  
# Store the variables.  
x = 5
```

Python Programming Resources

Some useful resources to introduce you to Python

- Python 3 Documentation from Python.org
 - <https://docs.python.org/3/tutorial/introduction.html>
- Beginner tutorials from Tutorials Point
 - https://www.tutorialspoint.com/python3/python_basic_syntax.htm
- Dive into Python 3
 - <http://www.diveintopython3.net>

*Please complete
this one before
class*