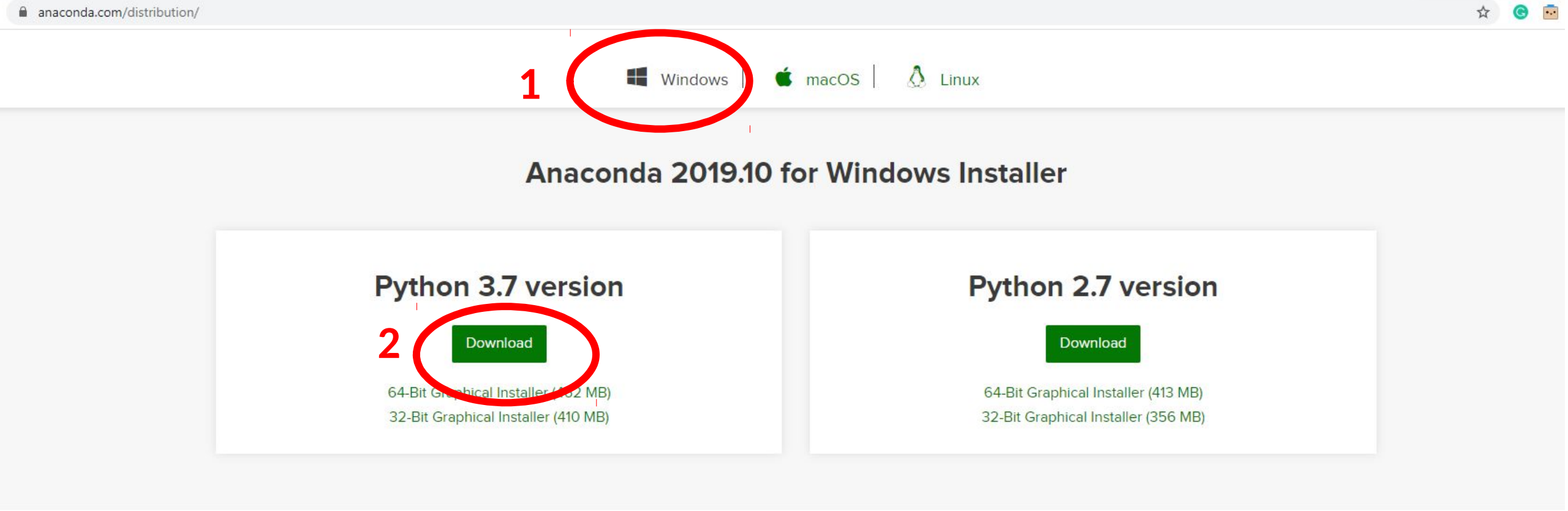
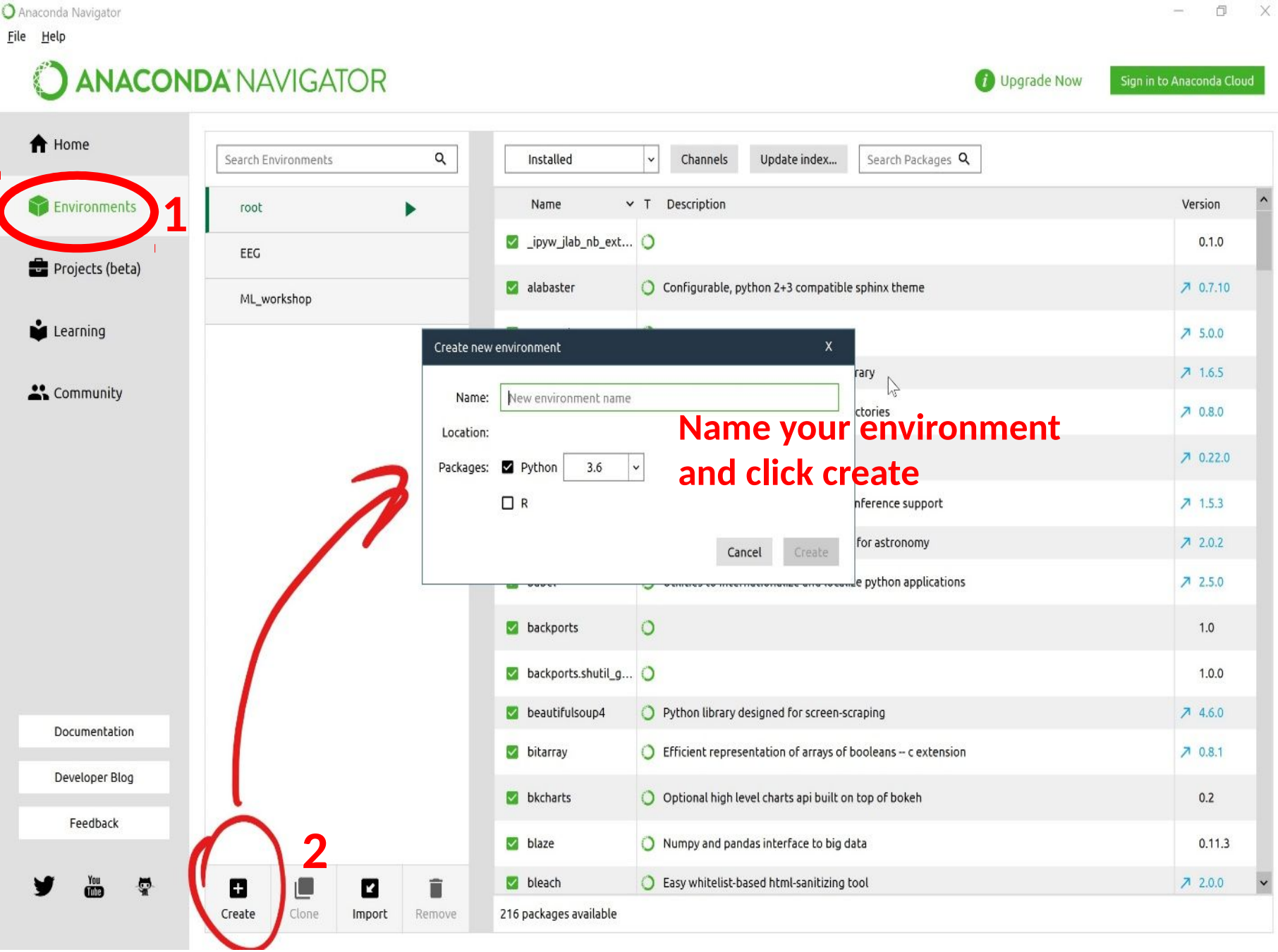
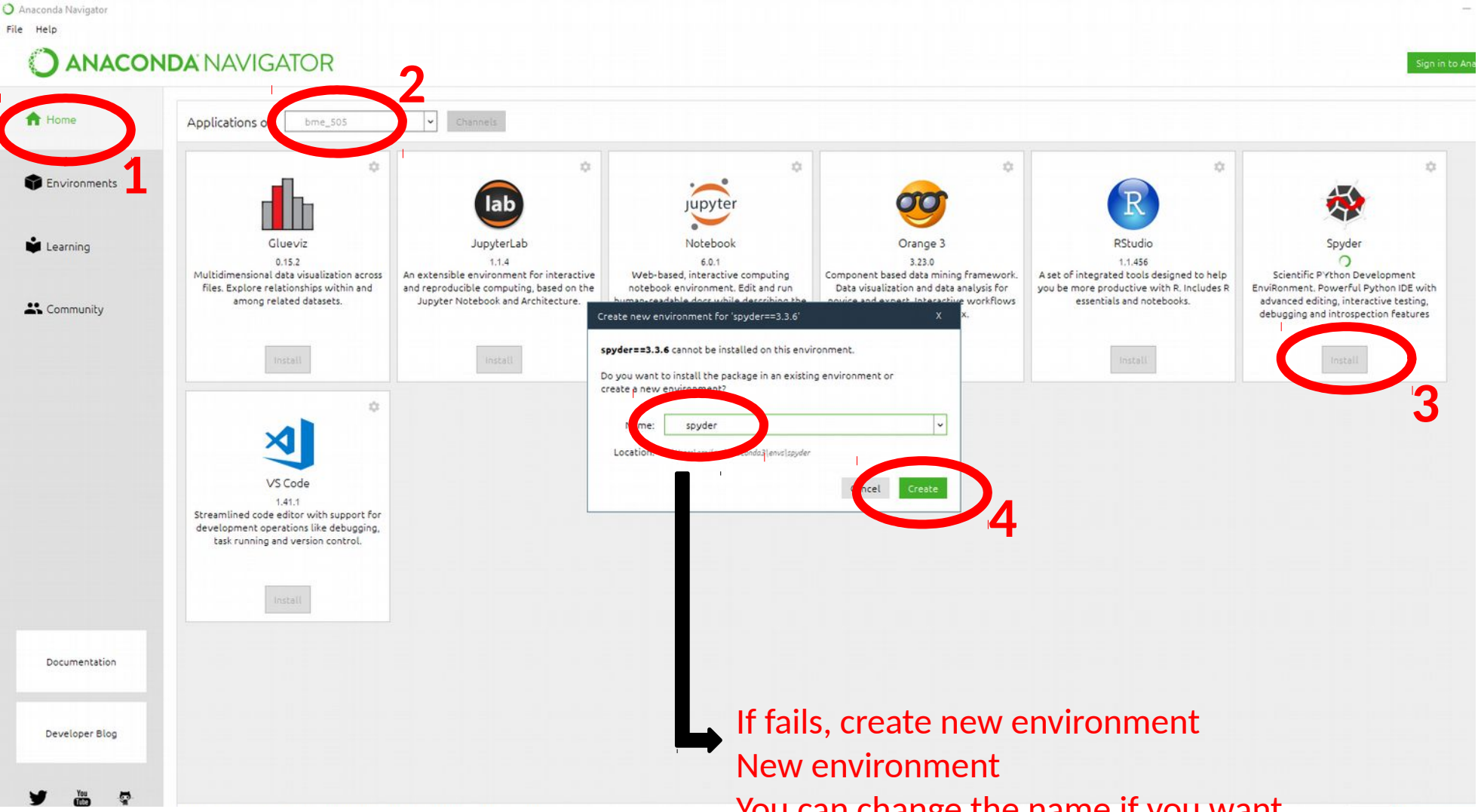


1) Go to ttps://www.anaconda.com/distribution/
2) Download python 3.7 for your system (Windows my case)

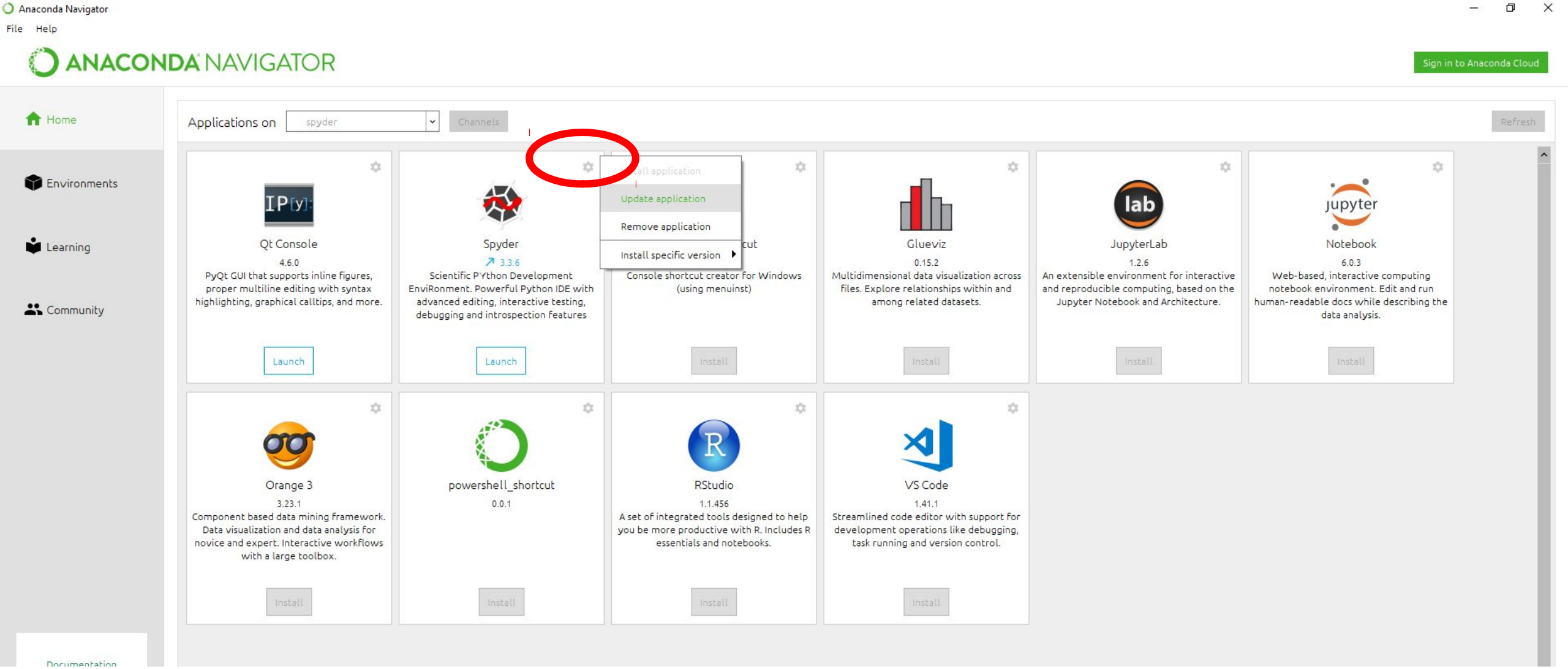


1) After installing Anaconda, open Anaconda Navigator

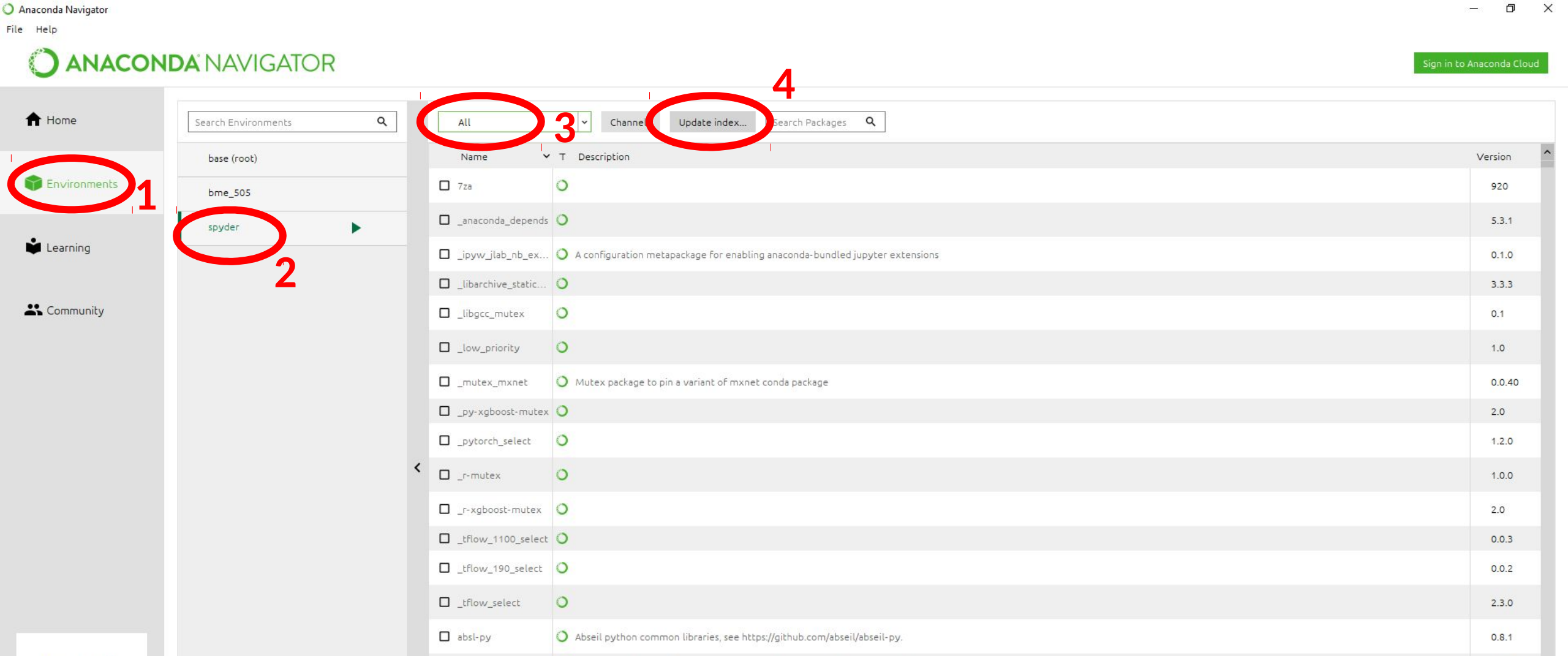
2) Then, go to environments and create a new one.



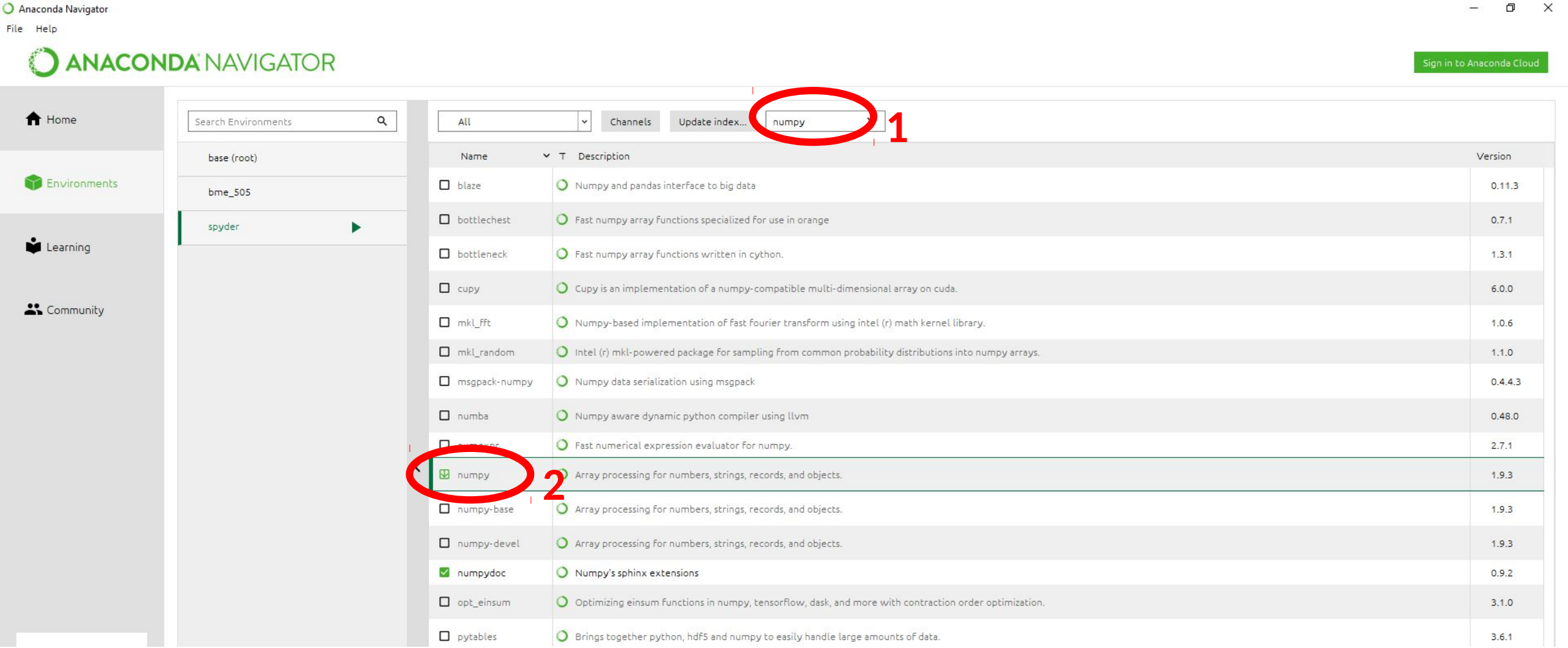
1) **Go back to home**
2) **Make sure the environment you created is selected**
3) **Install Spyder (do this before installing dependencies like numpy or matplotlib**
4) **In case Spyder installation fails, a pop-up will show up. In this window you can create a new environment that is compatible with Spider. Click create.**



Update Spyder to get the most recent version



1) **Go back to Environments**
2) **Make sure to select the environment that works with Spyder**
3) **Select all**
4) **Update Index**



1) **Search for numpy and select it**
2) **Do same for scipy and matplotlib**

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base (root)

bme_505

spyder

All | Channels | Update index... | matplo

	Name	T	Description	Version
☐	basemap		Plot on map projections using matplotlib	1.2.0
☐	descartes		Use geometric objects as matplotlib paths and patches.	1.1.0
☑	matplotlib		Publication quality figures in python	3.1.3
☐	matplotlib-base			3.1.3
☐	mpl-scatter-density		Matplotlib helpers to make density scatter plots	0.6
☐	mpld3		D3 viewer for matplotlib.	0.3

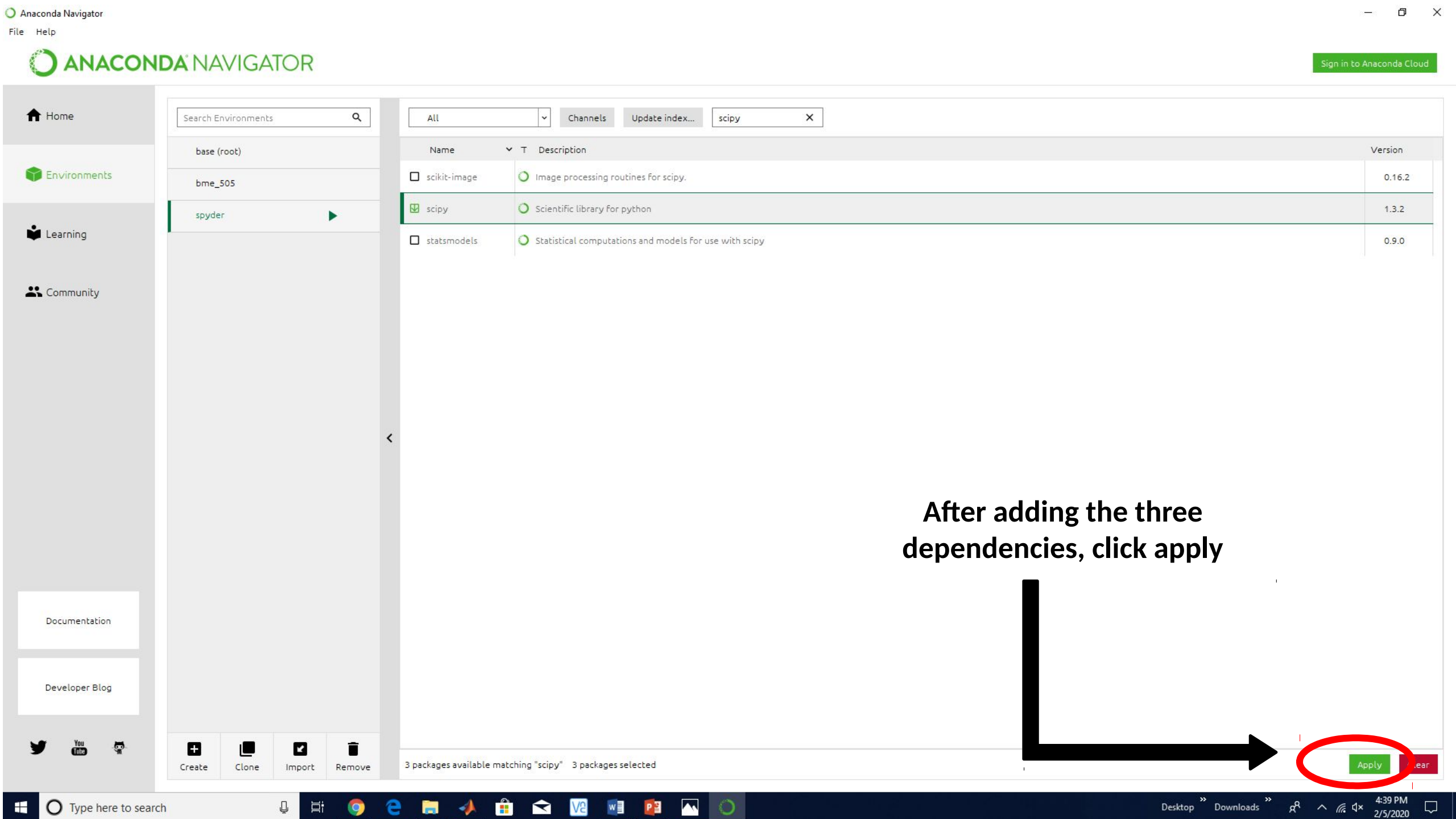
Create Clone Import Remove

6 packages available matching "matplo" 2 packages selected

Apply Clear

Type here to search

Desktop Downloads 4:39 PM 2/5/2020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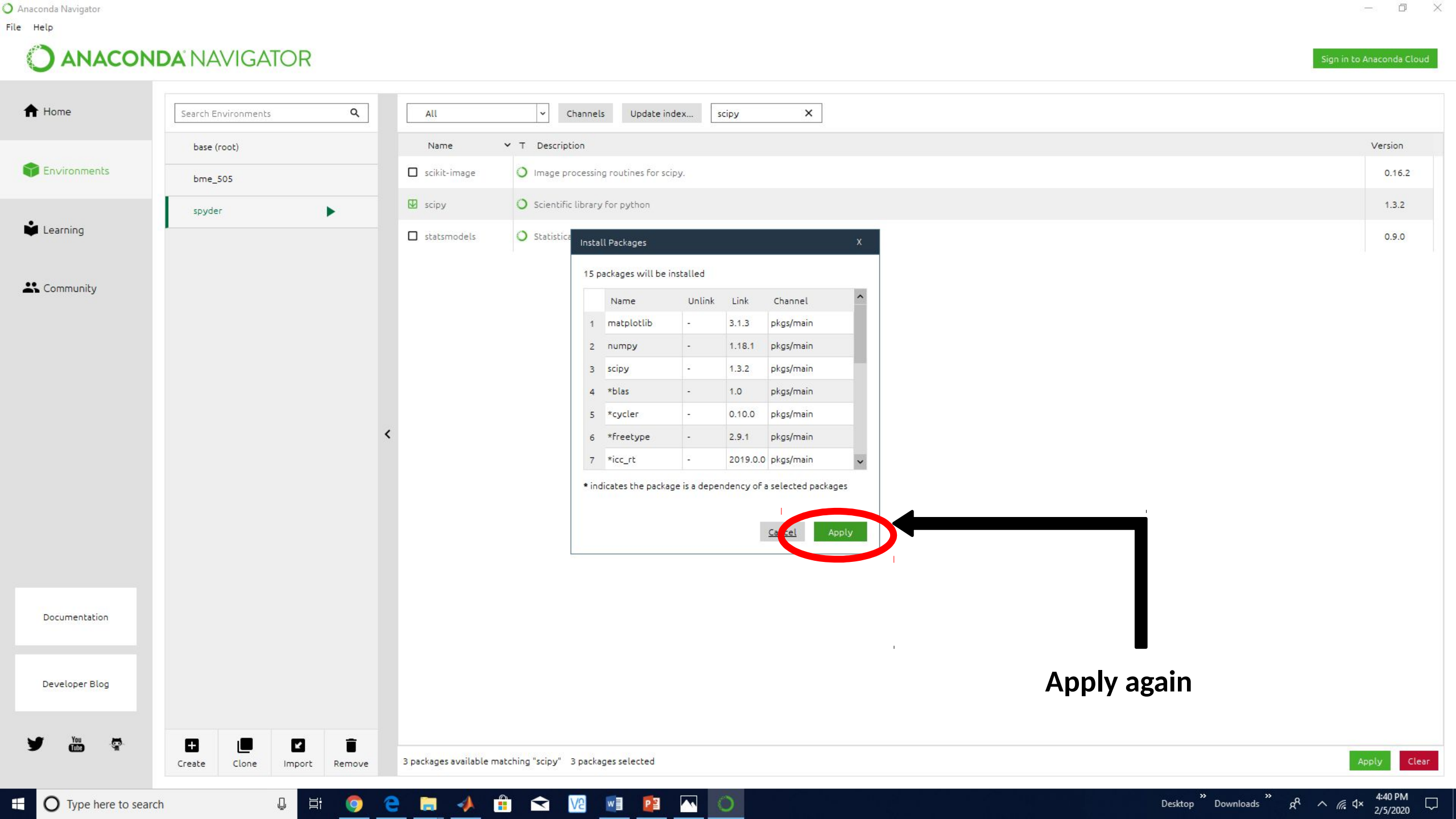
All
Channels
Update index...
scipy
Name
T
Description
Version
scikit-image
Image processing routines for scipy.
0.16.2
scipy
Scientific library for python
1.3.2
statsmodels
Statistical computations and models for use with scipy
0.9.0
3 packages available matching "scipy"
3 packages selected
Apply
After adding the three dependencies, click apply
Type here to search
Desktop
Downloads
4:39 PM
2/5/2020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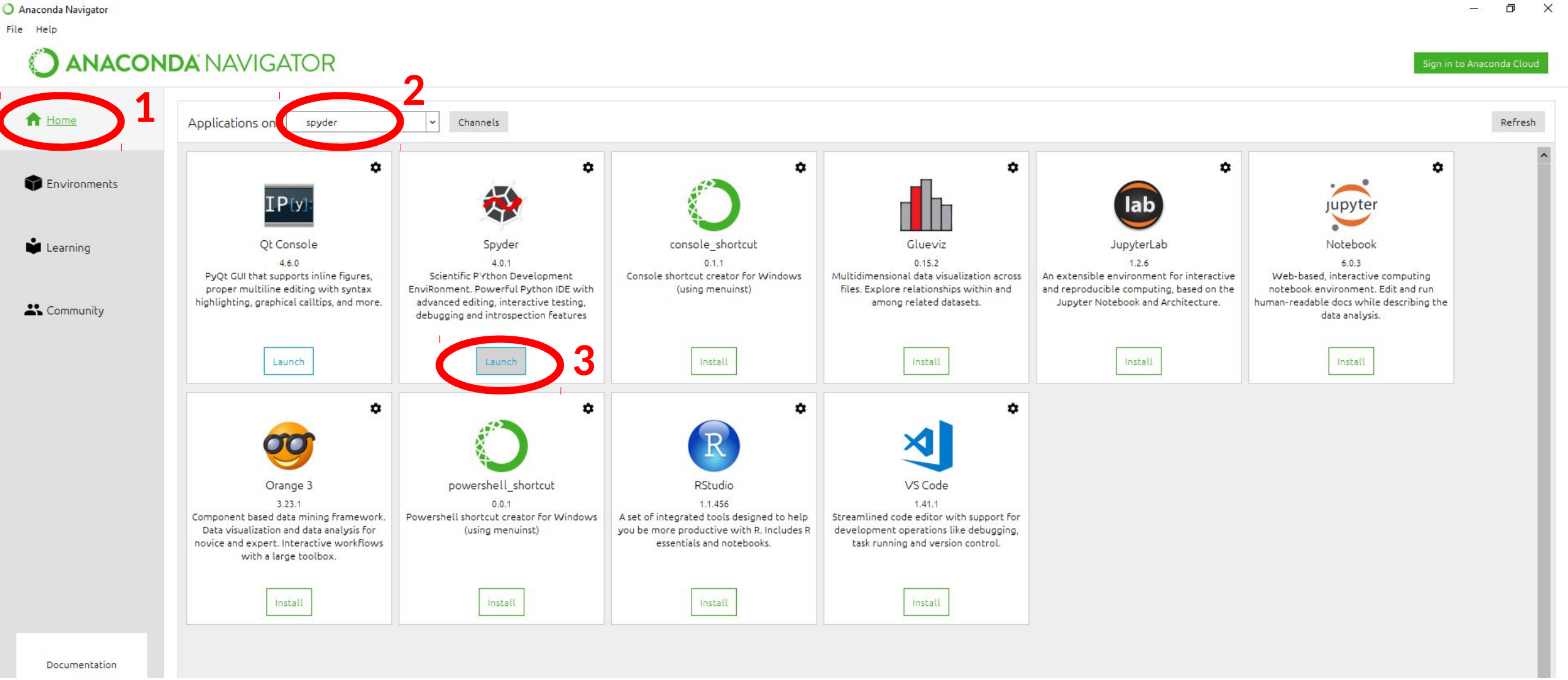
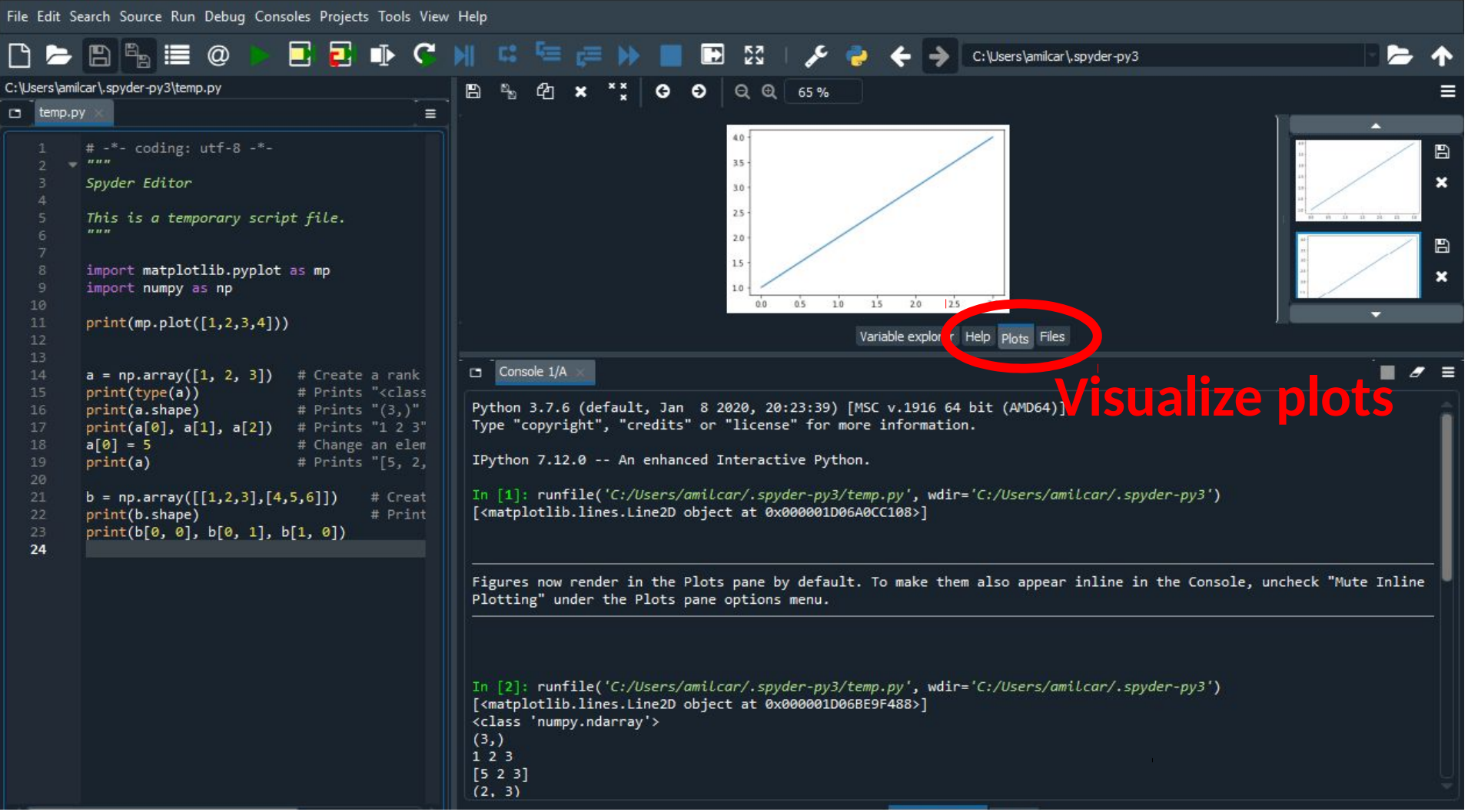
Update index...
scipy
Name
T
Description
Version
scikit-image
Image processing routines for scipy.
0.16.2
scipy
Scientific library for python
1.3.2
statsmodels
0.9.0
Install Packages
15 packages will be installed
Name Unlink Link Channel
1 matplotlib - 3.1.3 pkgs/main
2 numpy - 1.18.1 pkgs/main
3 scipy - 1.3.2 pkgs/main
4 *blas - 1.0 pkgs/main
5 *cycler - 0.10.0 pkgs/main
6 *freetype - 2.9.1 pkgs/main
7 *icc_rt - 2019.0.0 pkgs/main
* indicates the package is a dependency of a selected packages
Cancel
Apply
Apply again
3 packages available matching "scipy" 3 packages selected
Apply
Clear
Type here to search
Desktop
Downloads
4:40 PM
2/5/2020



1) **Go back home**
2) **Select the environment where you installed the dependencies**
3) **Launch Spyder**



Visualize plots

```
import matplotlib.pyplot as mp
import numpy as np

print(mp.plot([1,2,3,4]))


a = np.array([1, 2, 3])   # Create a rank 1 array
print(type(a))            # Prints "<class 'numpy.ndarray'>"
print(a.shape)            # Prints "(3,)"
print(a[0], a[1], a[2])   # Prints "1 2 3"
a[0] = 5                  # Change an element of the array
print(a)                  # Prints "[5, 2, 3]"

b = np.array([[1,2,3],[4,5,6]])   # Create a rank 2 array
print(b.shape)                    # Prints "(2, 3)"
print(b[0, 0], b[0, 1], b[1, 0])
```

1) To check if the dependencies work, copy the code and run it

2) For matplotlib, you should be able to see the graph in the plot tab
3) For numpy, you should be able to see the same output I got in the Console