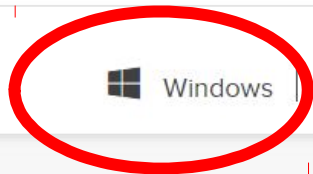


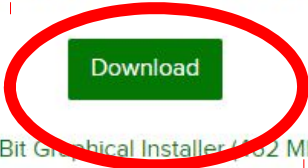
1



Anaconda 2019.10 for Windows Installer

Python 3.7 version

2



64-Bit Graphical Installer (432 MB)
32-Bit Graphical Installer (410 MB)

Python 2.7 version



64-Bit Graphical Installer (413 MB)
32-Bit Graphical Installer (356 MB)

Get Started with Anaconda Distribution

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

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EEG

ML_workshop

Installed

Channels

Update index...

Search Packages

Create new environment

Name: New environment name

Location:

Packages: Python 3.6 R

Cancel

Create

Name your environment
and click create

Create

Clone

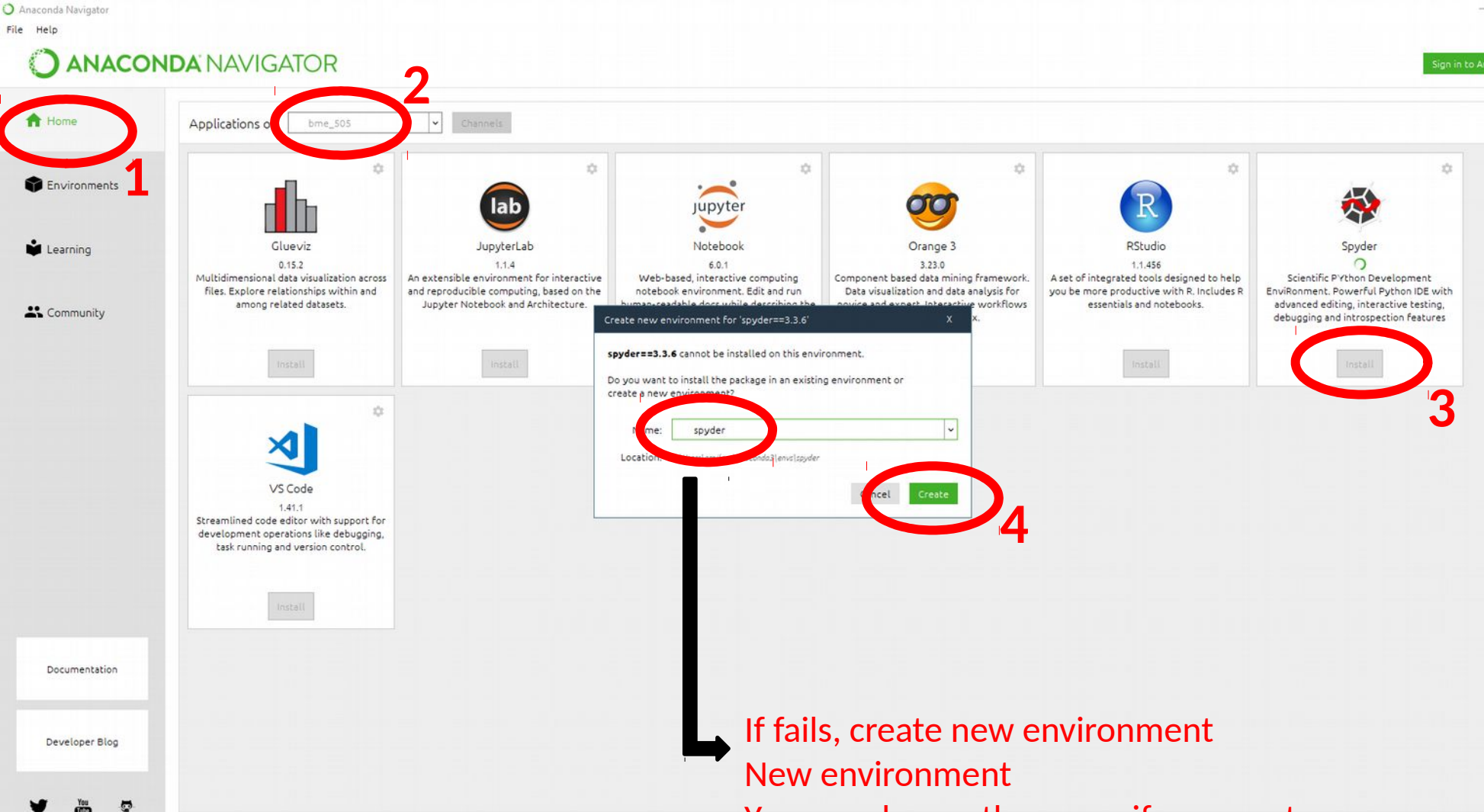
Import

Remove

216 packages available

1) After installing Anaconda, open Anaconda Navigator

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



If fails, create new environment
New environment
You can change the name if you want

- 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.

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Applications on spyder

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Refresh

The screenshot shows the Anaconda Navigator application marketplace. A red circle highlights the gear icon for the Spyder application. A context menu is open over the Spyder application, showing the following options: "Install application", "Update application" (highlighted in green), "Remove application", and "Install specific version". The Spyder application card shows version 3.3.6 and a "Launch" button. Other application cards include IPyQt Console (4.6.0), Qt Console (4.6.0), Orange 3 (3.23.1), powershell_shortcut (0.0.1), RStudio (1.1.456), VS Code (1.41.1), Glueviz (0.15.2), JupyterLab (1.2.6), and Jupyter Notebook (6.0.3). Each application card has an "Install" button.

Application	Version	Action
IPyQt Console	4.6.0	Launch
Qt Console	4.6.0	Launch
Orange 3	3.23.1	Install
powershell_shortcut	0.0.1	Install
RStudio	1.1.456	Install
VS Code	1.41.1	Install
Glueviz	0.15.2	Install
JupyterLab	1.2.6	Install
Jupyter Notebook	6.0.3	Install

Documentation

Update Spyder to get the most recent version

The screenshot shows the Anaconda Navigator interface. On the left sidebar, the 'Environments' icon is circled in red and labeled '1'. Below it, the 'spyder' environment is selected and circled in red, labeled '2'. In the main panel, the 'All' dropdown menu is circled in red and labeled '3', and the 'Update index...' button is circled in red and labeled '4'. The main panel displays a table of packages with columns for Name, Description, and Version.

Name	Description	Version
7za		920
_anaconda_depends		5.3.1
_ipyw_jlab_nb_ex...	A configuration metapackage for enabling anaconda-bundled jupyter extensions	0.1.0
_libarchive_static...		3.3.3
_libgcc_mutex		0.1
_low_priority		1.0
_mutex_mxnet	Mutex package to pin a variant of mxnet conda package	0.0.40
_py-xgboost-mutex		2.0
_pytorch_select		1.2.0
< _r-mutex		1.0.0
_r-xgboost-mutex		2.0
_tflow_1100_select		0.0.3
_tflow_190_select		0.0.2
_tflow_select		2.3.0
absl-py	Abseil python common libraries, see https://github.com/abseil/abseil-py .	0.8.1

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

The screenshot shows the Anaconda Navigator interface. On the left, there is a sidebar with navigation options: Home, Environments, Learning, and Community. The main area is divided into three sections: a search bar for environments, a list of environments, and a search for channels. The search bar contains the text 'numpy', which is circled in red with a large red '1' next to it. Below the search bar, there is a table of search results for channels. The table has columns for Name, Description, and Version. The 'numpy' entry is highlighted with a green background and has a green checkmark in the Name column, which is circled in red with a large red '2' next to it.

Name	Description	Version
<input type="checkbox"/> blaze	Numpy and pandas interface to big data	0.11.3
<input type="checkbox"/> bottlechest	Fast numpy array functions specialized for use in orange	0.7.1
<input type="checkbox"/> bottleneck	Fast numpy array functions written in cython.	1.3.1
<input type="checkbox"/> cupy	Cupy is an implementation of a numpy-compatible multi-dimensional array on cuda.	6.0.0
<input type="checkbox"/> mkl_fft	Numpy-based implementation of fast Fourier transform using intel (r) math kernel library.	1.0.6
<input type="checkbox"/> mkl_random	Intel (r) mkl-powered package for sampling from common probability distributions into numpy arrays.	1.1.0
<input type="checkbox"/> msgpack-numpy	Numpy data serialization using msgpack	0.4.4.3
<input type="checkbox"/> numba	Numpy aware dynamic python compiler using llvm	0.48.0
<input type="checkbox"/> numexpr	Fast numerical expression evaluator for numpy.	2.7.1
<input checked="" type="checkbox"/> numpy	Array processing for numbers, strings, records, and objects.	1.9.3
<input type="checkbox"/> numpy-base	Array processing for numbers, strings, records, and objects.	1.9.3
<input type="checkbox"/> numpy-devel	Array processing for numbers, strings, records, and objects.	1.9.3
<input checked="" type="checkbox"/> numpydoc	Numpy's sphinx extensions	0.9.2
<input type="checkbox"/> opt_einsum	Optimizing einsum functions in numpy, tensorflow, dask, and more with contraction order optimization.	3.1.0
<input type="checkbox"/> pytables	Brings together python, hdf5 and numpy to easily handle large amounts of data.	3.6.1

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

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Search Environments

base (root)

bme_505

spyder

Create
 Clone
 Import
 Remove

All Channels Update index... matplo

Name	Description	Version
<input type="checkbox"/> basemap	Plot on map projections using matplotlib	1.2.0
<input type="checkbox"/> descartes	Use geometric objects as matplotlib paths and patches.	1.1.0
<input checked="" type="checkbox"/> matplotlib	Publication quality figures in python	3.1.3
<input type="checkbox"/> matplotlib-base		3.1.3
<input type="checkbox"/> mpl-scatter-density	Matplotlib helpers to make density scatter plots	0.6
<input type="checkbox"/> mpld3	D3 viewer for matplotlib.	0.3

6 packages available matching "matplo" 2 packages selected

Apply Clear

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- Environments
- Learning
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Search Environments

- base (root)
- bme_505
- spyder**

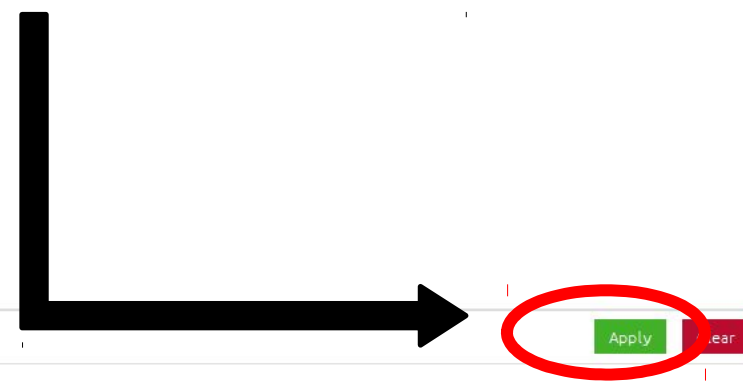
All Channels Update index... scipy

Name	Description	Version
<input type="checkbox"/> scikit-image	Image processing routines for scipy.	0.16.2
<input checked="" type="checkbox"/> scipy	Scientific library for python	1.3.2
<input type="checkbox"/> statsmodels	Statistical computations and models for use with scipy	0.9.0

Create Clone Import Remove

3 packages available matching "scipy" 3 packages selected

After adding the three dependencies, click apply



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base (root)

bme_505

spyder

All Channels Update index... scipy

Name	Description	Version
<input type="checkbox"/> scikit-image	Image processing routines for scipy.	0.16.2
<input checked="" type="checkbox"/> scipy	Scientific library for python	1.3.2
<input type="checkbox"/> statsmodels	Statistical models	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	*cyclar	-	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

Create Clone Import Remove

3 packages available matching "scipy" 3 packages selected

Apply Clear

 Home

1

Applications on

spyder

2

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Qt Console

4.6.0

PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.

Launch



Spyder

4.0.1

Scientific PYTHON Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features

Launch

3



console_shortcut

0.1.1

Console shortcut creator for Windows (using menuinst)

Install



Glueviz

0.15.2

Multidimensional data visualization across files. Explore relationships within and among related datasets.

Install



JupyterLab

1.2.6

An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.

Install



Jupyter Notebook

6.0.3

Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.

Install



Orange 3

3.23.1

Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.

Install



powershell_shortcut

0.0.1

Powershell shortcut creator for Windows (using menuinst)

Install



RStudio

1.1.456

A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.

Install



VS Code

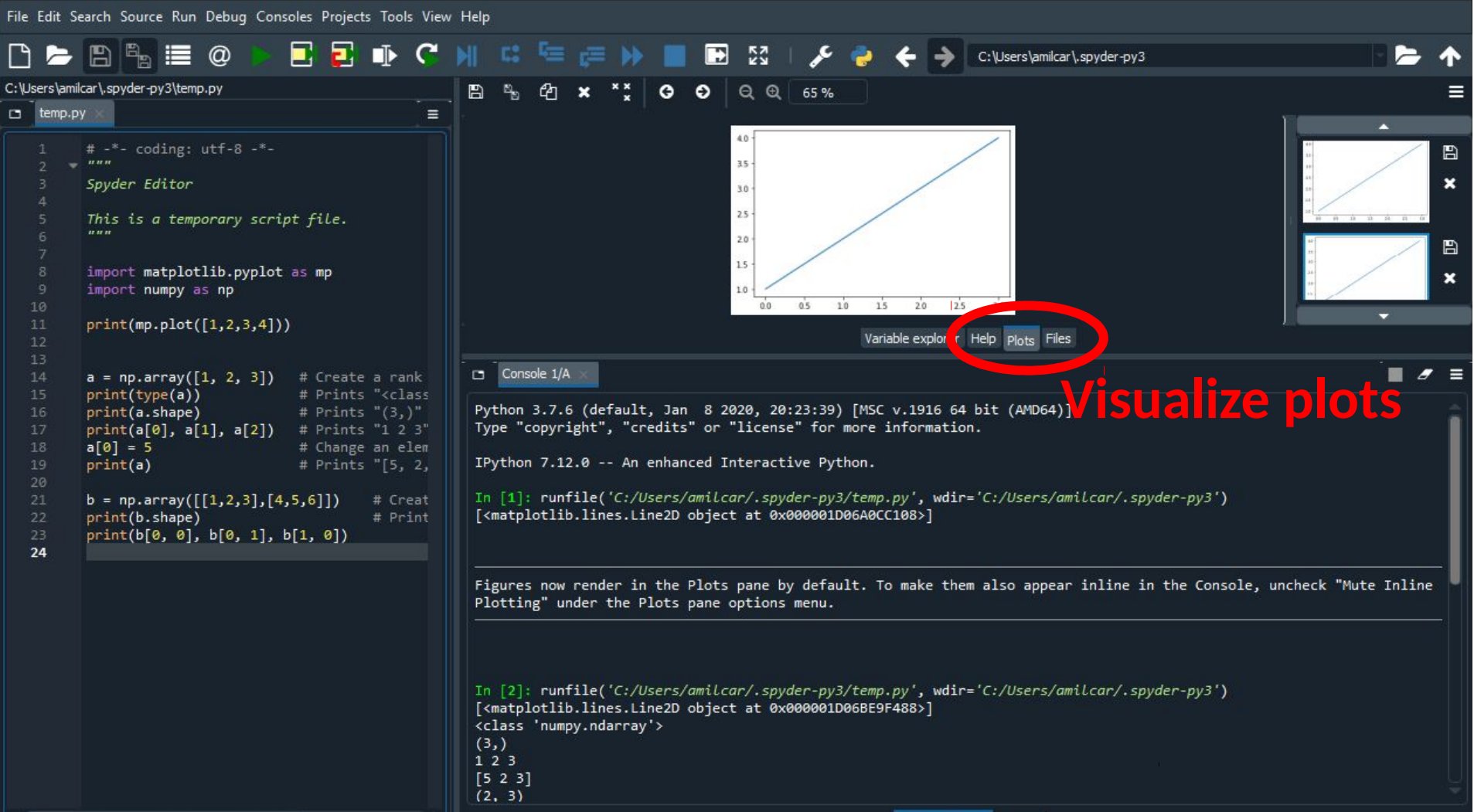
1.41.1

Streamlined code editor with support for development operations like debugging, task running and version control.

Install

Documentation

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



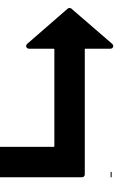
```
import matplotlib.pyplot as mp
import numpy as np
```

```
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 elemen
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])
```

Visualize plots



- 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