

Installing Anaconda

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Lecture Objectives

After this lecture, you should be able to:

- ☐ explain what Anaconda is
- ☐ install the Anaconda
- ☐ use Anaconda

Why Anaconda?

- ❑ Unlike with R, with Python you need multiple packages: NumPy, SciPy, Scikit-Learn, ...
- ❑ Package management gets difficult
- ❑ Anaconda contains all you need for ML with Python
- ❑ Also contains a package management system
- ❑ Lets you create multiple “environments”

Anaconda and packages

```
(C:\Users\Glenn\Anaconda3) C:\Users\Glenn>conda list
# packages in environment at C:\Users\Glenn\Anaconda3:
#
_license                1.1                py36_1
alabaster                0.7.10            py36_0
anaconda                4.4.0            np112py36_0
anaconda-client         1.6.3            py36_0
anaconda-navigator      1.6.2            py36_0
anaconda-project        0.6.0            py36_0
asn1crypto              0.22.0            py36_0
astroid                 1.4.9            py36_0
astropy                 1.3.2            np112py36_0
babel                   2.4.0            py36_0
...
```

Listing all the packages in the default environment

Anaconda environments

```
(C:\Users\Glenn\Anaconda3) C:\Users\Glenn>activate tensorflow  
(tensorflow) C:\Users\Glenn>
```

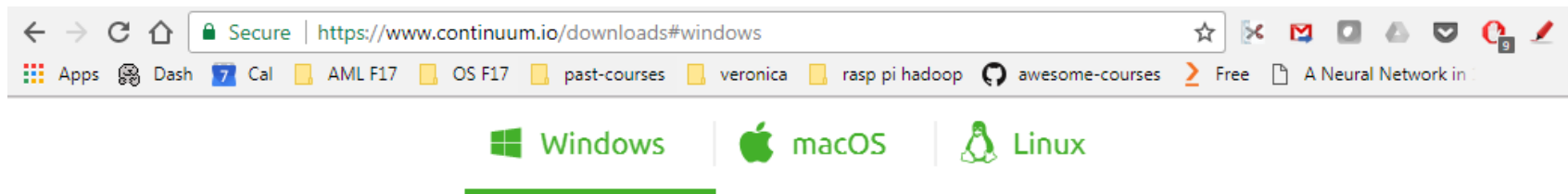
Activating the tensorflow environment I previously created

Installing into an environment

```
(C:\Users\Glenn\Anaconda3) C:\Users\Glenn>conda install --name tensorflow  
jupyter
```


This installs jupyter in the 'tensorflow' environment

Installing Anaconda




Anaconda 4.4.0 For Windows Graphical Installer

Python 3.6 version *
64-Bit (437 MB) ?

 **DOWNLOAD**

Download 32-bit (362 MB)

Python 2.7 version *
64-Bit (430 MB) ?

 **DOWNLOAD**

Download 32-bit (354 MB)

Use the Python 3.6 version

Installing on Macs should be similar

Anaconda Navigator


Anaconda Navigator


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jupyter

5.0.0

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

Launch



qtconsole

4.3.0

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

Launch

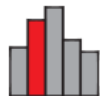


spyder

3.1.4

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

Launch



glueviz

0.10.4

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



orange3

3.4.1

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



rstudio

1.0.136

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

Summary

- ❑ Anaconda provides Python and many machine learning packages
- ❑ Much harder to install all the packages you need by hand (I tried it ☹)
 - mini-conda can be used if you must
- ❑ Anaconda supports environments