



Anaconda Installation Guide

Machine Learning in Python and Jupyter for Beginners

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Starting the Installation

Welcome!

The following is a walkthrough of installation for Anaconda, for use in the "Machine Learning in Python and Jupyter for Beginners" course.

The platform shown is Windows 10, but the process is similar to all platforms.

Students are encouraged to download Anaconda, in advance of the class. If you want to install it - please follow these instructions closely to make sure you can run the demonstrations provided later in the course. We will cover installation during the course.



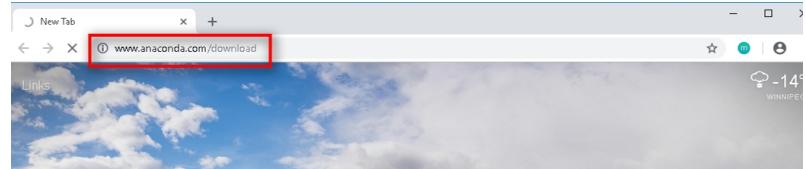
I look forward to sharing this exciting field with you!

Dave Valentine
www.tbdatascientist.com

Start your web browser of choice

Start up your web browser of choice. I've started chrome.

Visit: <https://www.anaconda.com/download/>



Select your platform and distribution.

I've selected Windows as my platform.



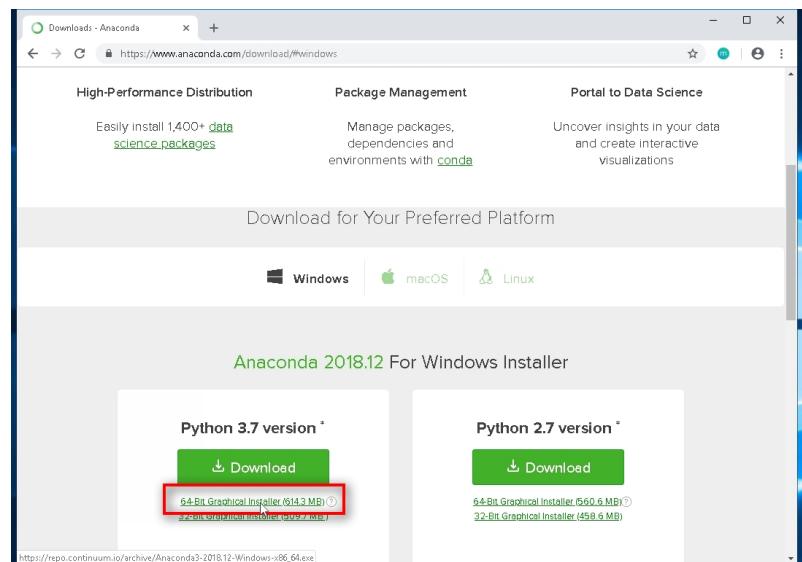
Select your distribution.

I've selected 64 bit (2) as my workstation is 64 bit.

Select what is appropriate for your workstation.

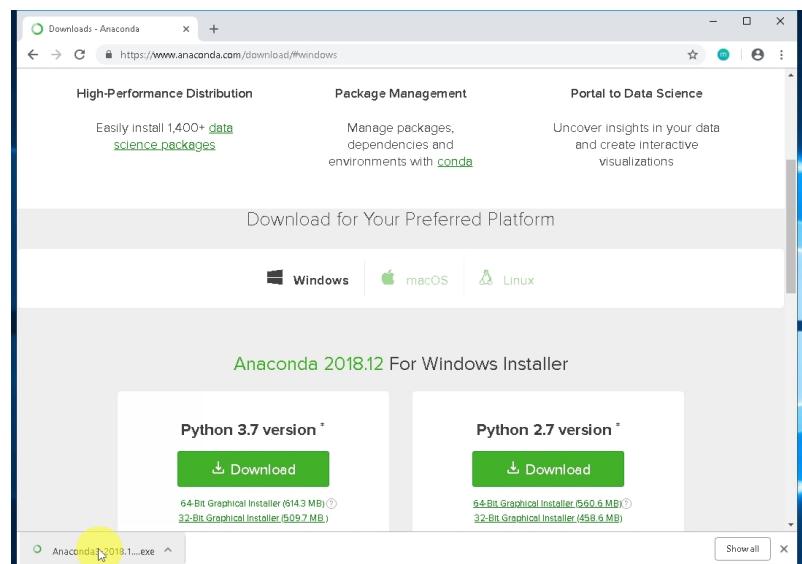
However, be sure to install the Python 3.x version.

At the time of this guide creation that's 3.7. It may be later for you, but that should work as long as it's 3.x.

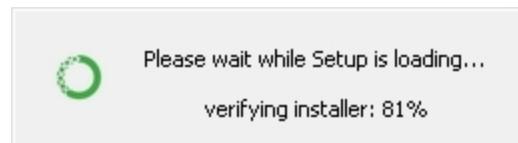


Once downloaded

Click on "Anaconda3-2018.12-Windows-x86_64.exe", or your equivalent to start the installer.



Setup will load



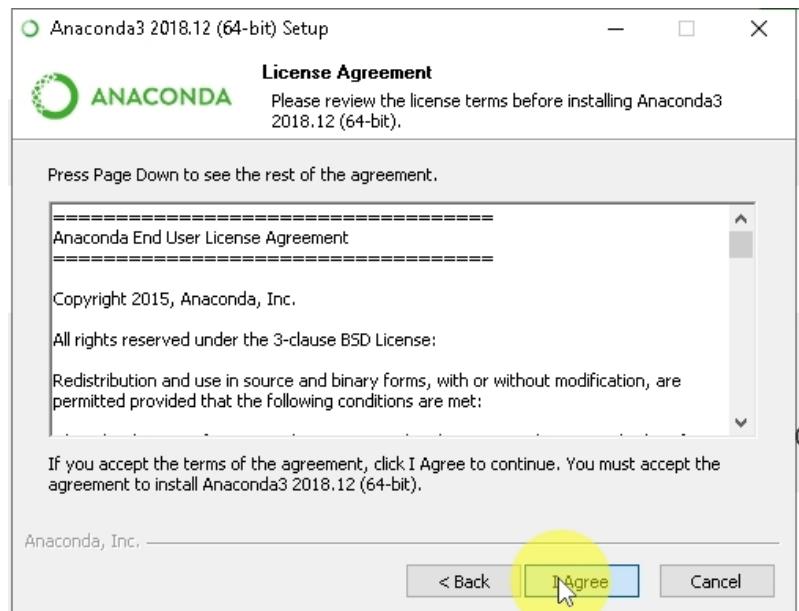
Click next to begin the installation

Click next on "Anaconda3 2018.12 (64-bit) Setup" dialog.



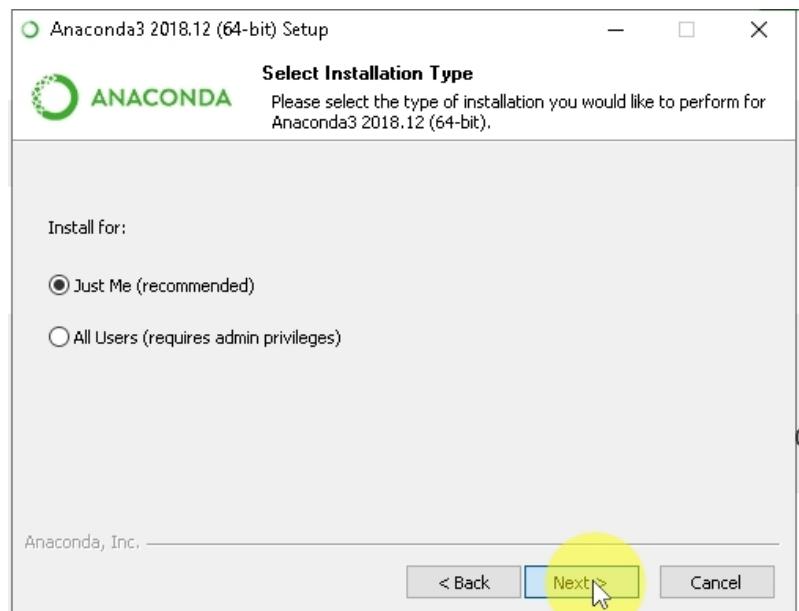
License Agreement

Click on "I Agree" button if you accept the terms of the License Agreement.



Selecting the Installation Type

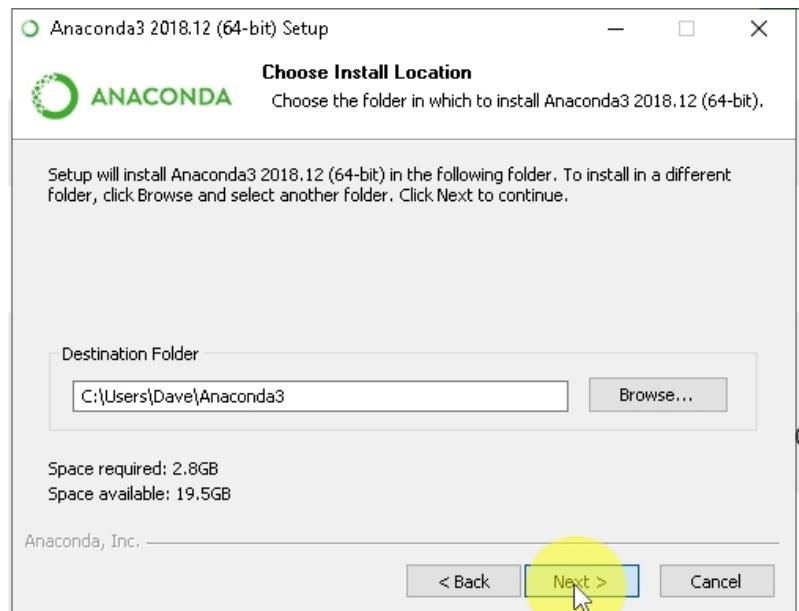
For the purposes of the course, "Just me" is perfect. Select "Just me" and continue the installation process.



Accepting the destination folder

You can choose where you install Anaconda. If you have a space in your user name, you may wish to provide it with an alternative location as that is known to confuse Anaconda.

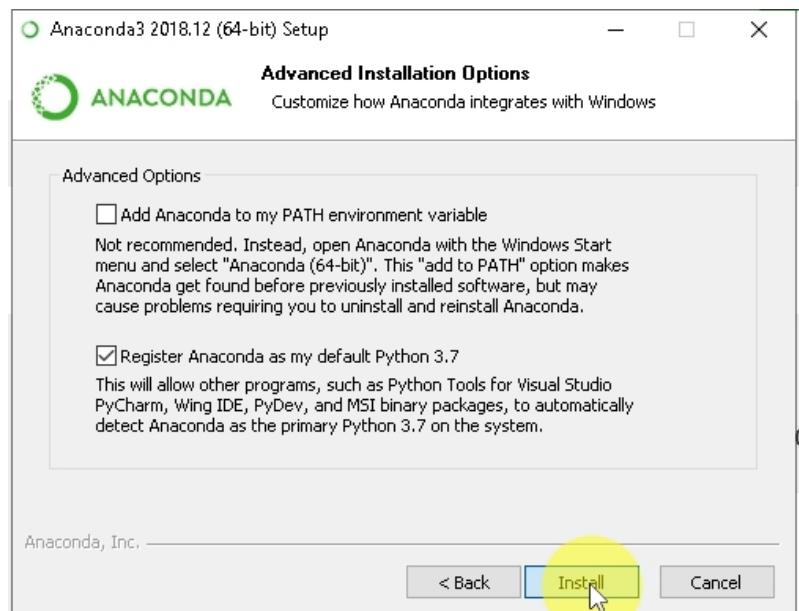
If not, you can accept the default folder destination as I have done here. Choose what works for you, you won't have problems with the course later on.



Advanced Installation Options

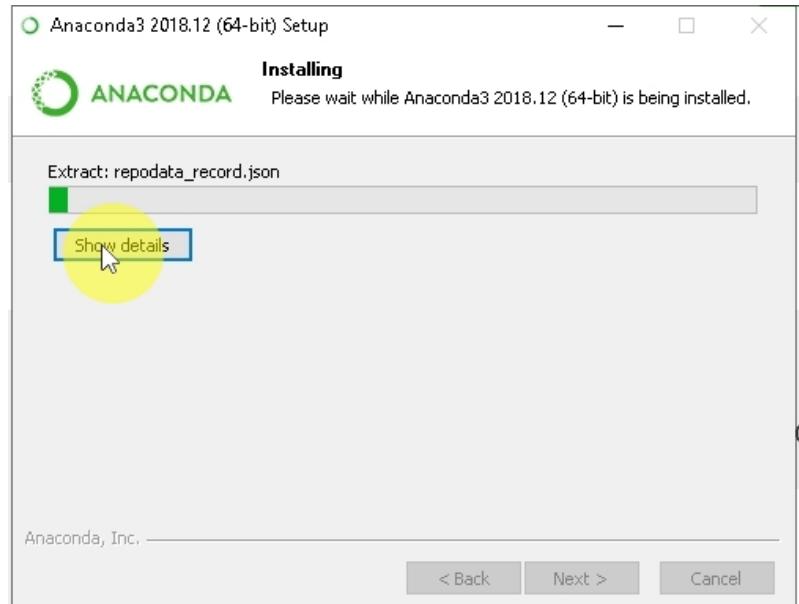
I have in the past chose the "Add anaconda to my Path", for the course but have standardized on not selecting it. We can run the Anaconda prompt for the examples that need the right version of python.

Leaving these options as-is is gives us the best flexibility. Importantly, we need to make sure that python 3.x is associated with Anaconda (and Jupyter) for our code examples to work, which will happen with our installation regardless.



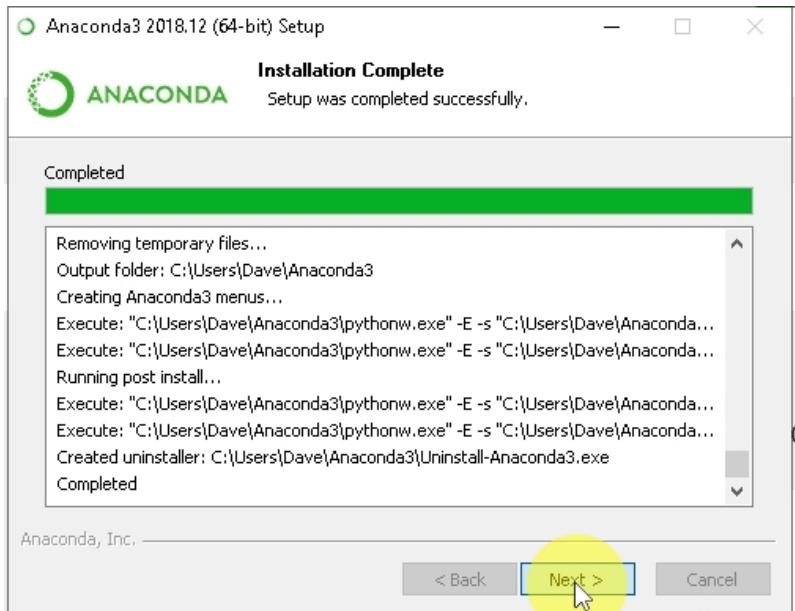
Installation will progress

This will take time! If you want, you can choose "show details" in order to see additional installation information.



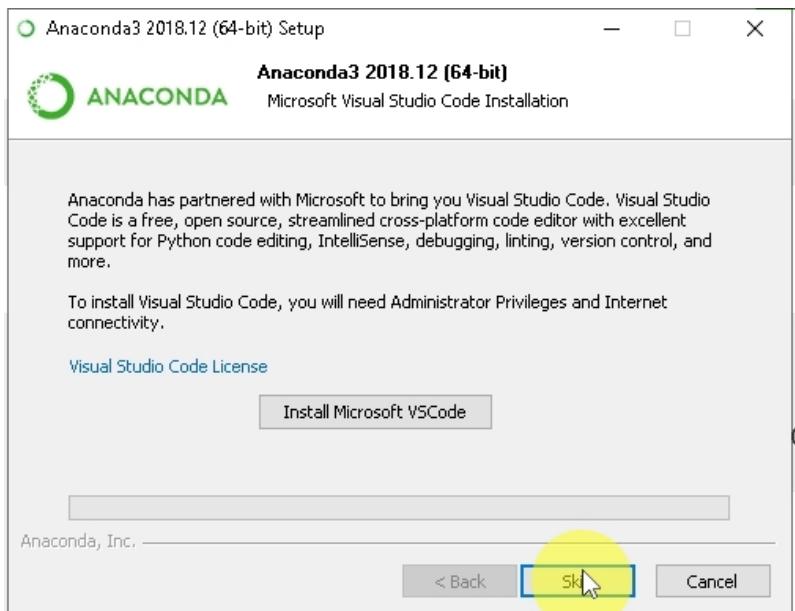
Installation will complete

Click on "Next >" button.



Visual Studio Code

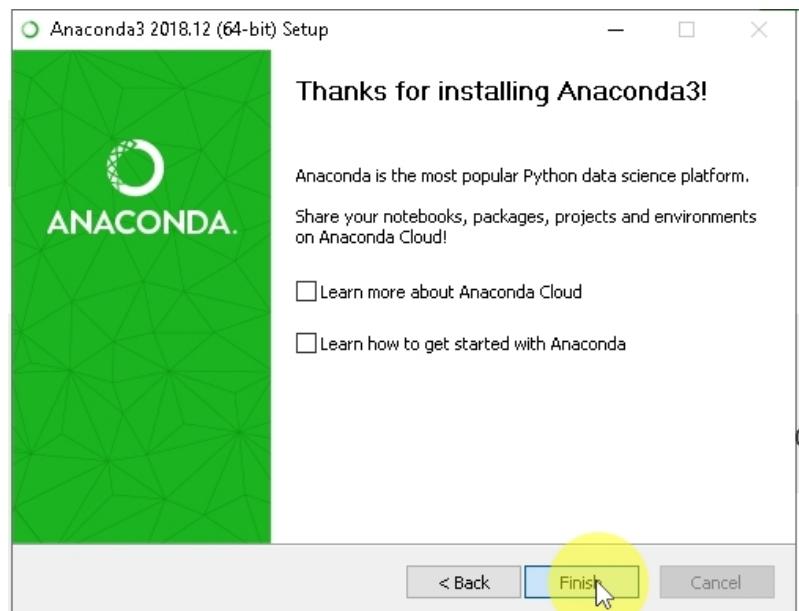
Click on "Skip" button, to skip this optional installation.
The course doesn't use it and you don't need to install it.



Installation is complete

You can Uncheck "Learn more about Anaconda Cloud", as well as "Learn how to get started with Anaconda", if you wish.

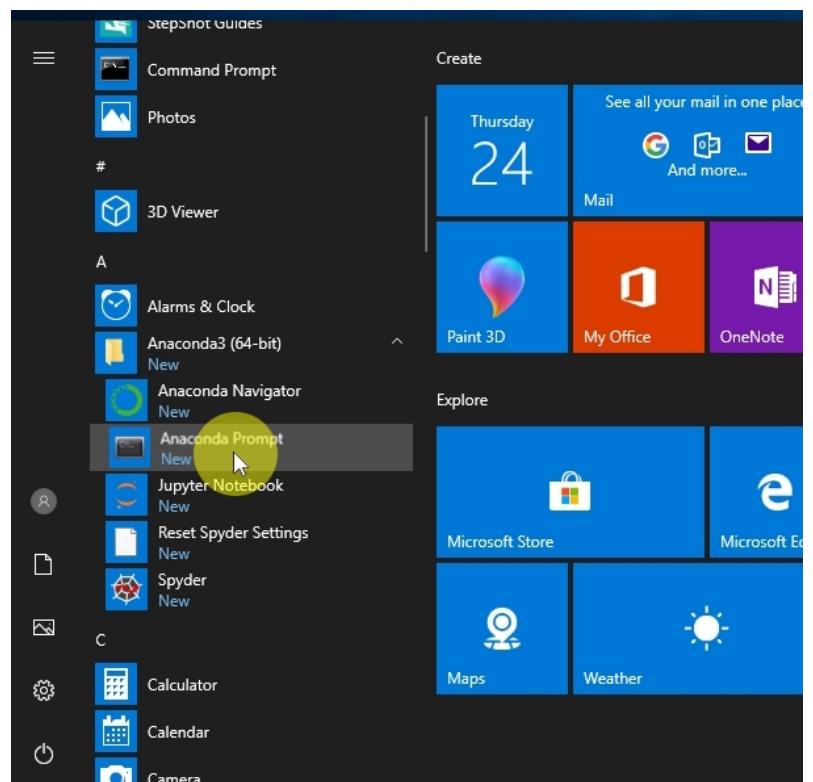
Finally, you click on Finish to close the installer.



Verifying the Installation

Starting Anaconda Prompt

Select "Anaconda3 (64-bit) (or equivalent)" folder from the windows menu, and then "Anaconda Prompt"



The Anaconda Prompt

Once the Anaconda prompt has started, enter the following command:
`conda --version`

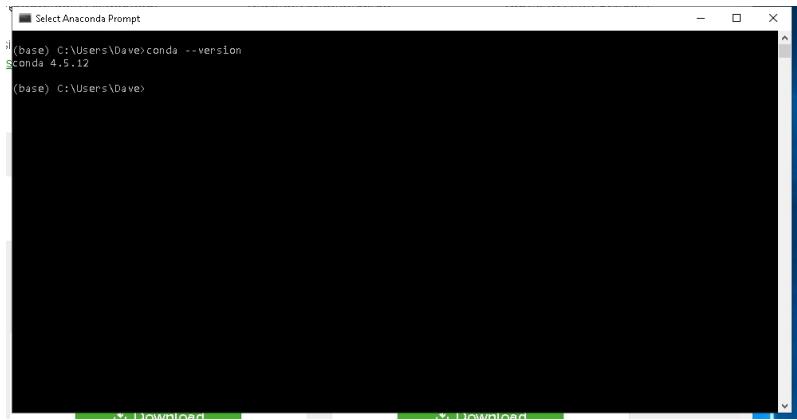


Verifying Version

*The following (or later) version should display.
Once you've verified this, we should check that installed packages to make sure everything looks clean.*

Enter:

conda list

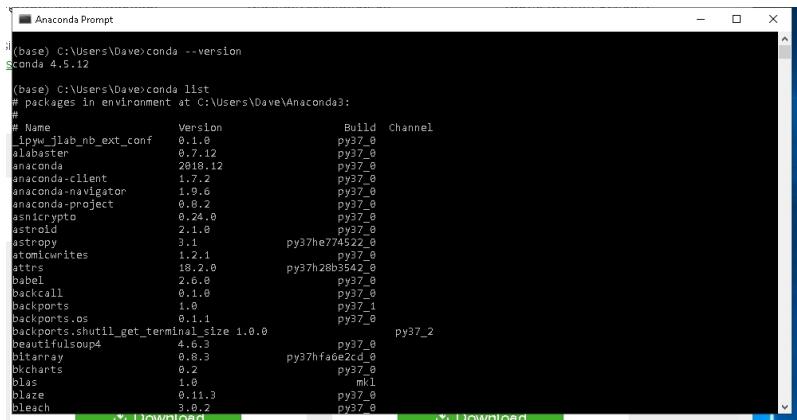


```
(base) C:\Users\Dave>conda --version
Conda 4.5.12

(base) C:\Users\Dave>
```

Packages!!!

You'll be presented with a huge list of packages!



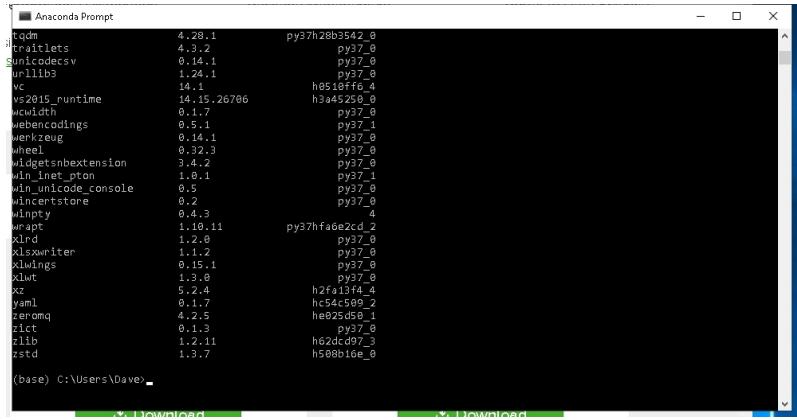
```
(base) C:\Users\Dave>conda list
# packages in environment at C:\Users\Dave\Anaconda3:
#
# Name           Version      Build Channel
_ipyw_jlab_nb_ext_conf  0.1.0        py37_0
jupyter         1.0.2        py37_0
anaconda        2018.12     py37_0
anaconda-client 1.7.2        py37_0
anaconda-navigator 1.9.6        py37_0
anaconda-project 0.8.2        py37_0
asnincrypto    0.24.0       py37_0
astroid         2.1.0        py37_0
astropy         3.1          py37he774522_0
atomicwrites   1.2.1        py37_0
attrs           18.2.0      py37hb0b3542_0
babel           2.6.0        py37_0
backcall        0.1.0        py37_0
backports       1.9          py37_1
backports.os    0.1.1        py37_0
backports.shutil_get_terminal_size 1.0.0      py37_2
beautifulsoup4  4.6.3        py37_0
bitarray        0.8.3        py37hf46e2cd_0
bkcharts        0.2          py37_0
blas            1.0          mkl
blaze           0.11.3       py37_0
bleach          3.0.2        py37_0
(base) C:\Users\Dave>
```

All done!

At this point, you've completed the verification of Anaconda installation.

Close the window. You now have it fully set up for the course!

Looking forward to seeing you there!



```
tqdm          4.28.1      py37h28b3542_0
traitlets      4.3.2        py37_0
unicodecsv    0.14.1       py37_0
urllib3       1.24.1      py37_0
vc             14.1        he510ff6_4
vs2015_runtime 14.15.26706  h3a45250_0
wcwidth        0.1.7        py37_0
webencodings  0.5.1        py37_1
weldcraug    0.14.1       py37_0
wheel          0.32.3       py37_0
widgetsnbextension 3.4.2      py37_0
win_inet_pton  1.0.1        py37_1
win_unicode_console 0.5        py37_0
wincertstore  0.2          py37_0
wimpy          0.4.3        py37_4
wrapt          1.10.11     py37hf46e2cd_2
xlrd           1.2.0        py37_0
xlsxwriter    1.1.2        py37_0
xmldom        0.1.1        py37_0
xml.etree     1.1.0        py37_0
xz             5.2.4        h2fa13f4_4
yaml           0.1.7        hc54c509_2
zeromq        4.2.5        he025d6b_1
zict           0.1.3        py37_0
zlib           1.2.11       h62dd97_3
zstd           1.3.7        h508b16e_0
(base) C:\Users\Dave>
```