

Laptop Prep for “Hands-on: Introduction to Text Analytics with Python”

Overview

Laptop preparation for the class consists of three steps, with detailed instructions below:

1. Download course files from GitHub
2. Installation of Anaconda Python
3. NLTK downloads

NOTE – Administrator permission may be required to complete laptop prep. Also, often it is necessary to disable anti-virus software to allow for the installation. As such, disabling any anti-virus is recommended before laptop prep. Lastly, installing the latest version of Anaconda Python is recommended – even if you have Python already installed.

The GitHub repository with all required course files is located here:

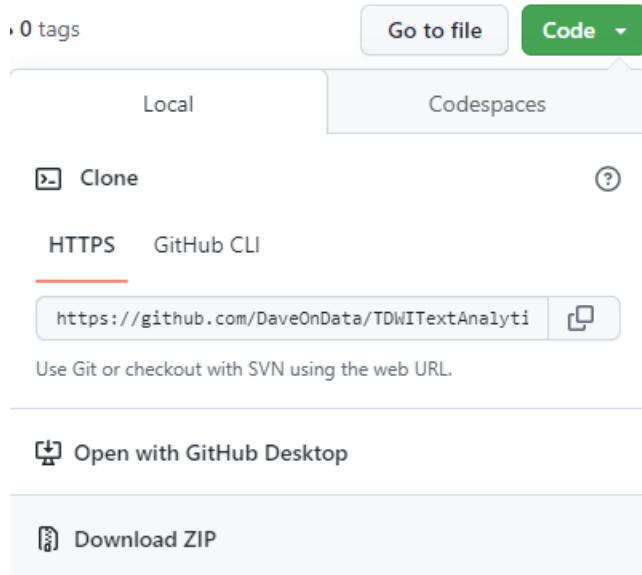
- <https://github.com/DaveOnData/TDWITextAnalyticsWithPython>

Hardware Requirements

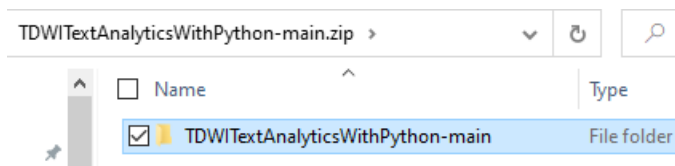
1. Windows or Mac OS X preferred (instructors have no experience with Linux)
2. 64-bit operating system
3. 8GB of RAM, 16GB preferred
4. 4GB of free drive space

Step 1 - Download the files from GitHub

1. Within the GitHub repository page, click on the “Code” button and select “Download ZIP”:



2. Copy the file folder within the downloaded ZIP to a well-known location on your laptop (e.g., the Desktop):



3. Open the file folder. You should see the following files:

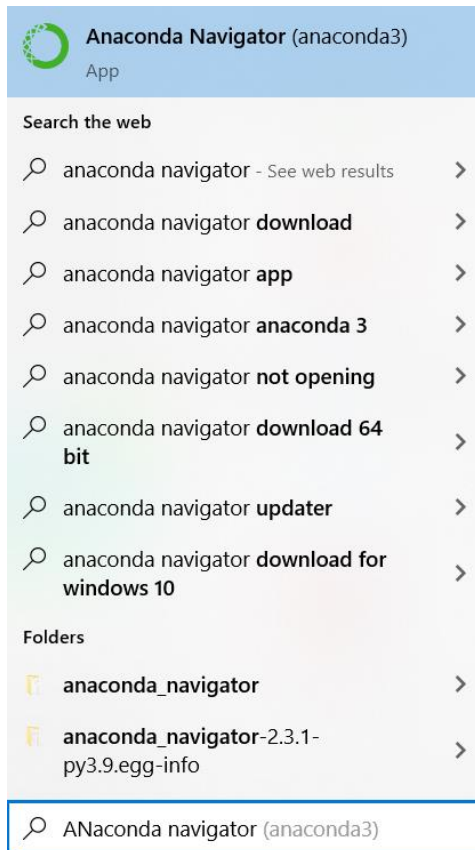
- Hands-On Lab 1 - Tokenization.ipynb
- Hands-On Lab 2 - Token Normalization.ipynb
- Hands-On Lab 3 - Vector Space Model.ipynb
- Hands-On Lab 4 - Grouping Documents.ipynb
- Hands-On Lab 5 - Document Classification.ipynb
- HotelReviews.zip
- HotelReviewsTest.zip
- LaptopPrepTextAnalyticsWithPython.pdf
- NLTK Installation.ipynb
- README.md
- SarcasticHeadlines.zip
- SarcasticHeadlinesTest.zip

Step 2 – Anaconda Python Installation

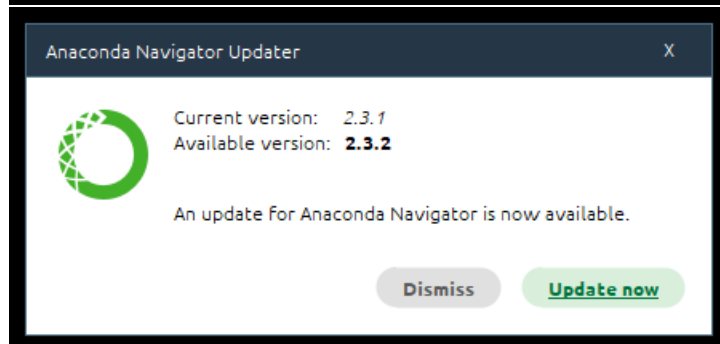
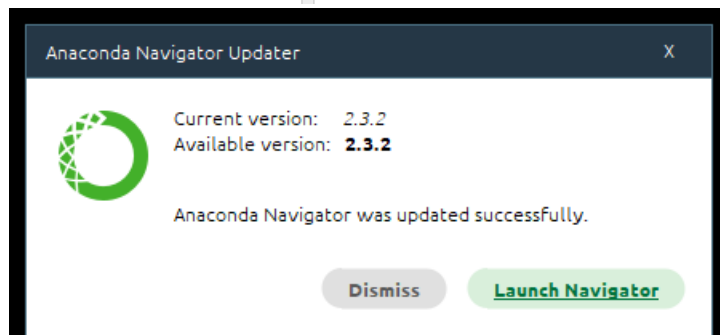
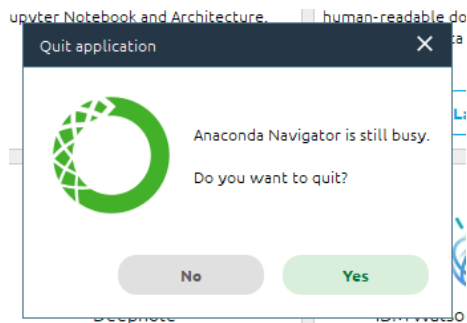
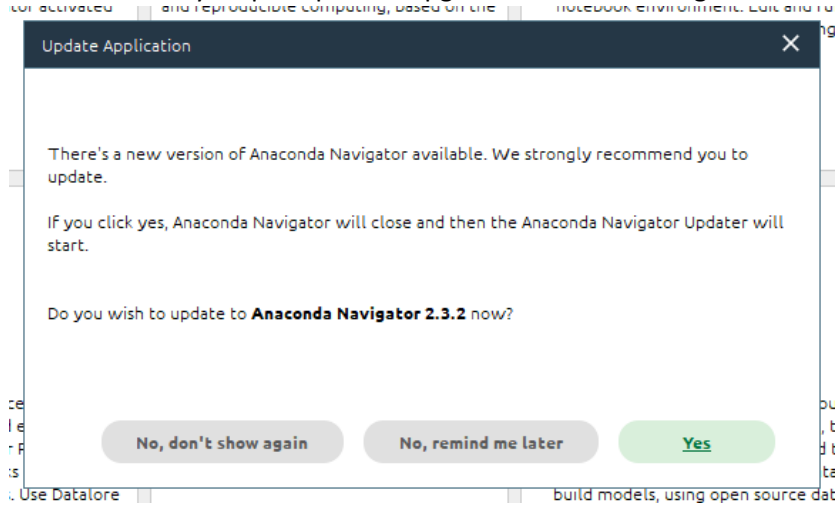
1. Open your browser and navigate to: <https://www.anaconda.com/products/distribution>
2. Click the download button.
3. When the installer has downloaded, start the installer and follow the instructions (accepting defaults) to complete the installation.

Step 3 – NLTK Downloads

1. With Anaconda Python installed, start the Anaconda Navigator application:

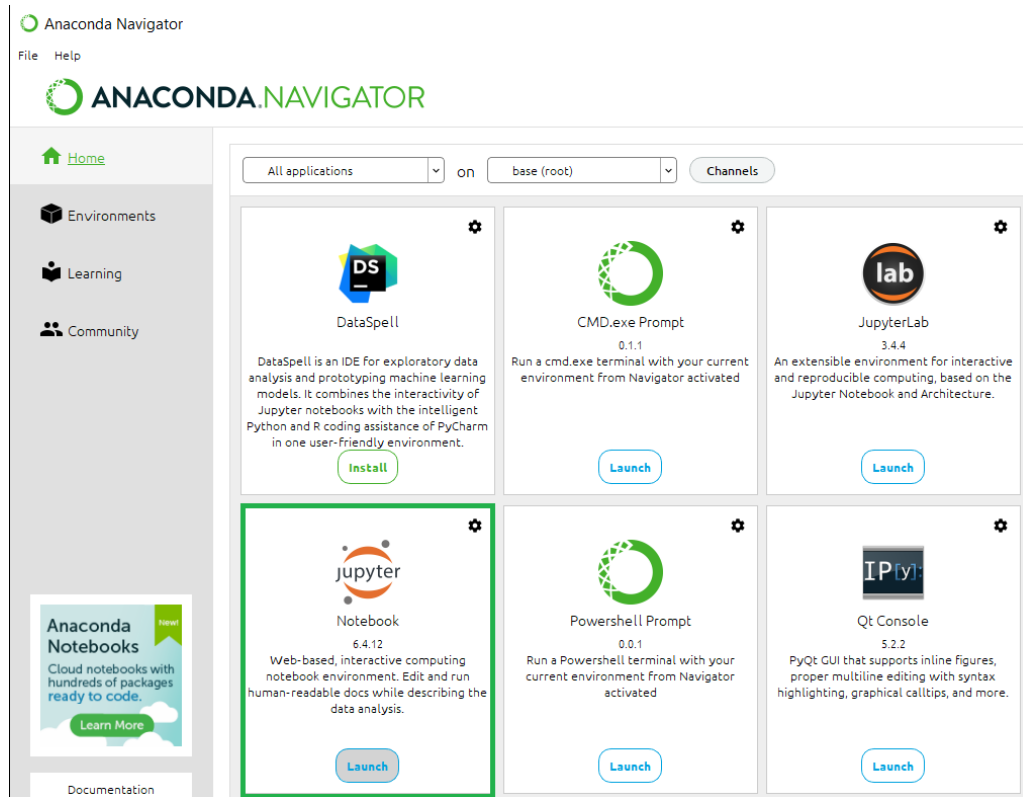


2. You may be prompted to upgrade Anaconda Navigator. Follow the dialogs to do so:

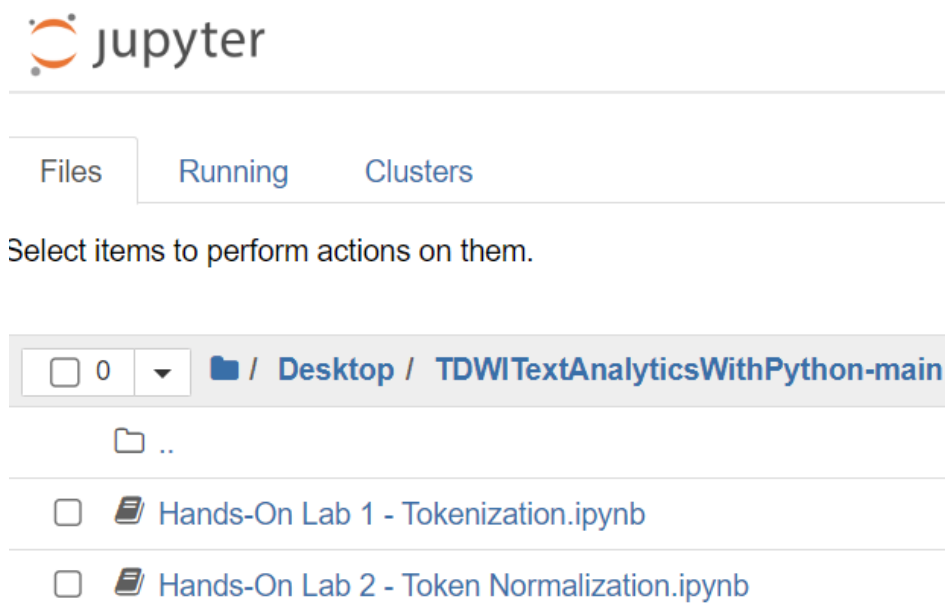


3. If needed, relaunch Anaconda Navigator

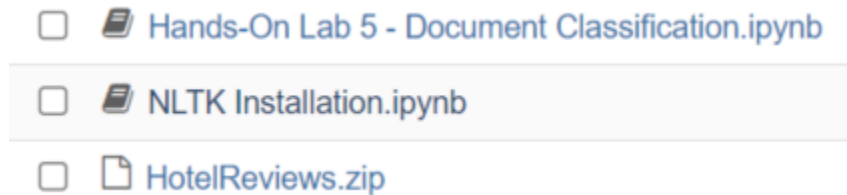
4. NOTE – Your Anaconda Navigator window might not look exactly like the following. Within Anaconda Navigator, launch Jupyter Notebook:



5. Within the Jupyter browser, navigate to where you copied the course file folder:



6. Click on the “NLTK Installation.ipynb” entry:



7. Run all the cells in the notebook:



8. All of the cells should have output similar to the following:

```
In [1]: ► import nltk

nltk.download('punkt')

[nltk_data] Downloading package punkt to
[nltk_data] C:\Users\david\AppData\Roaming\nltk_data...
[nltk_data] Unzipping tokenizers\punkt.zip.

Out[1]: True
```

Congratulations! You are now ready for the class!