## Laptop Prep for "Hands-on: Introduction to Text Analytics with Python"

#### Overview

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

- 1. Download course files from GitHub
- 2. Installation of Anaconda Python
- 3. Package downloads
- 4. Verify installation

<u>NOTE</u> – 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:

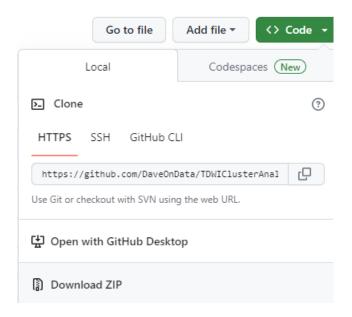
• https://github.com/DaveOnData/TDWIClusterAnalysisWithPython

#### **Hardware Requirements**

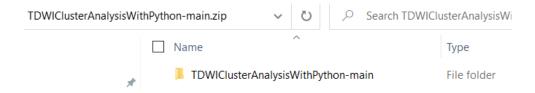
- 1. Windows or Mac OS X preferred (instructors have no experience with Linux)
- 2. 64-bit operating system
- 3. 8GB of RAM, 16GB preferred
- 4. 4GB of free drive space

#### Step 1 - Download the files from GitHub

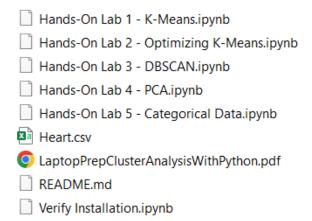
1. Within the GitHub repository page, click on the "Code" button and select "Download ZIP":



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:

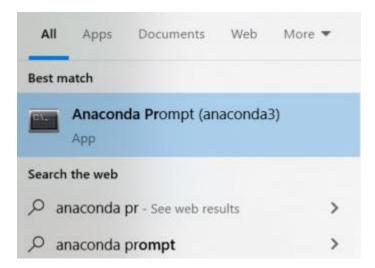


#### Step 2 - Anaconda Python Installation

- 1. Open your browser and navigate to: <a href="https://www.anaconda.com/products/distribution">https://www.anaconda.com/products/distribution</a>
- 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 – Package Downloads**

1. With Anaconda Python installed, start the Anaconda Prompt:



- 2. At the command prompt type the following without quotes and hit <enter>:
  - a. "conda install -c conda-forge prince-factor-analysis"

Anaconda Prompt (anaconda3)

(base) C:\Users\david>conda install -c conda-forge prince-factor-analysis

#### 3. If prompted, hit the "y" key and <enter> to proceed:

```
Anaconda Prompt (anaconda3) - conda install -c conda-forge prince-factor-analysis
(base) C:\Users\david>conda install -c conda-forge prince-factor-analysis
Collecting package metadata (current_repodata.json): done
Solving environment: done
## Package Plan ##
 environment location: C:\Users\david\anaconda3
 added / updated specs:
   - prince-factor-analysis
The following packages will be downloaded:
                                            build
   prince-factor-analysis-0.7.1
                                    pyhd8ed1ab_1
                                                           21 KB conda-forge
                                                           21 KB
                                           Total:
The following NEW packages will be INSTALLED:
 prince-factor-ana~ conda-forge/noarch::prince-factor-analysis-0.7.1-pyhd8ed1ab_1
Proceed ([y]/n)?
```

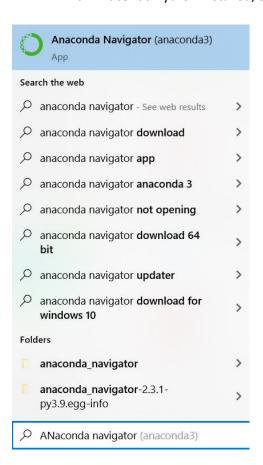
#### 4. You should see something like the following:

```
Anaconda Prompt (anaconda3)
                                                                                                              X
 environment location: C:\Users\david\anaconda3
 added / updated specs:
    - prince-factor-analysis
The following packages will be downloaded:
                                           build
   package
   prince-factor-analysis-0.7.1
                                    pyhd8ed1ab_1
                                                           21 KB conda-forge
                                                          21 KB
                                          Total:
The following NEW packages will be INSTALLED:
 prince-factor-ana~ conda-forge/noarch::prince-factor-analysis-0.7.1-pyhd8ed1ab_1
Proceed ([y]/n)? y
Downloading and Extracting Packages
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(base) C:\Users\david>
```

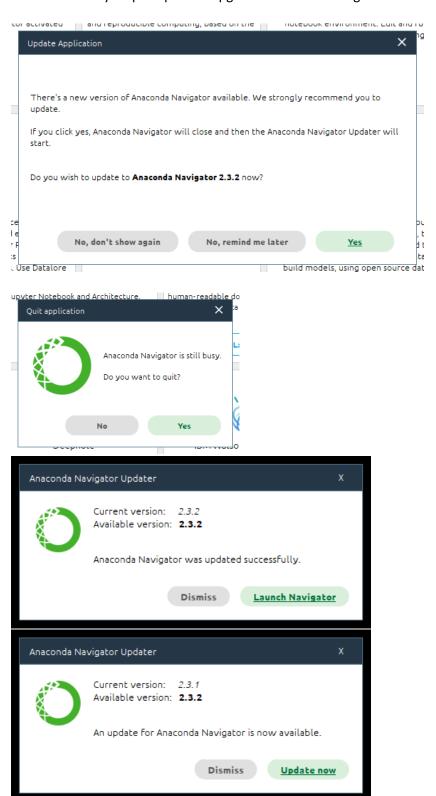
- 5. Repeat the above process by typing the following on the command line (without quotes) and hitting <enter>:
  - a. "conda install -c conda-forge plotnine"

## Step 4 - Verify Installation

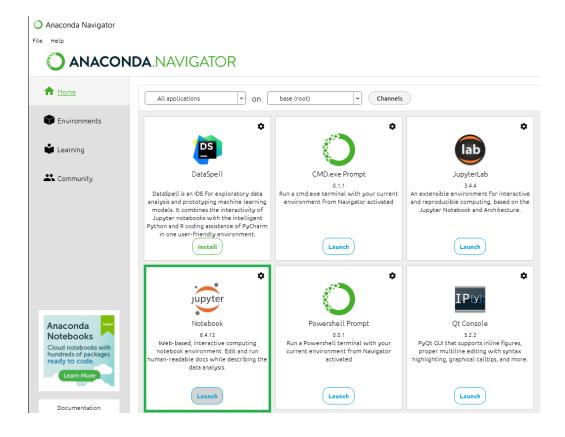
1. With Anaconda Python installed, start the Anaconda Navigator application:



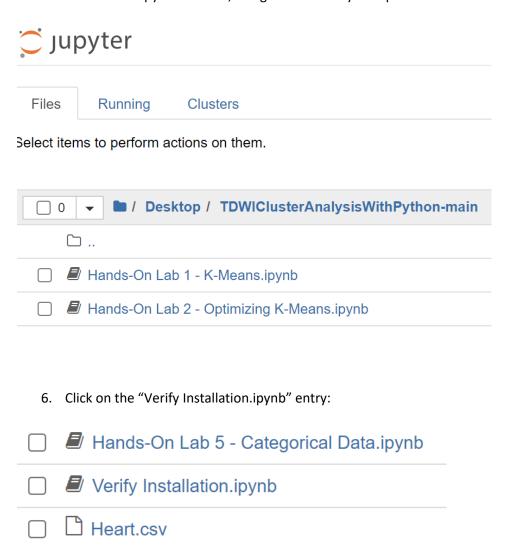
2. You may be prompted to upgrade Anaconda Navigator. Follow the dialogs to do so:



- 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:

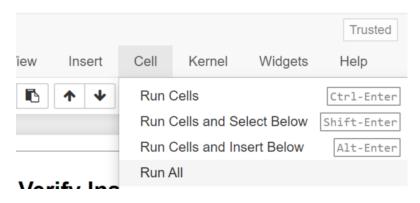


5. Within the Jupyter browser, navigate to where you copied the course file folder:



7. Run all the cells in the notebook:

# Verify Installation



8. Your output should look like the following, with no errors:

# **Verify Installation**

Run the following code cell you should see no errors as a result of the running the code.

Congratulations! You are now ready for the class!