

Getting Started

The preferred method of executing the notebooks is locally with [Anaconda](#) or in the cloud using [Azure Notebooks](#).

Using Anaconda

Download notebook zip file and extract its contents.

Download [Anaconda](#) and follow the [installation instructions](#) to install the software.

After installation is complete, the run the *Jupyter Notebook* program from the Start Menu, browse to the location to which the notebooks were extracted, and open the desired notebook.

Near the beginning of most notebooks, one cell contains code necessary to install third-party libraries using `pip`. Because some of these libraries require non-Python code to be compiled, this step can fail in Windows. An alternative method of installing the libraries using the Anaconda Prompt and `conda` is provided.

To install all the required libraries for all the notebooks at once, open the Anaconda prompt and execute the following command.

```
conda install -c conda-forge --yes pandas lxml requests xlrd geopandas
seaborn statsmodels beautifulsoup4 textblob tinydb folium python-docx plotly
boto3
```

After executing the `conda install` command, execute the following in Anaconda prompt.

```
pip install requests_oauthlib squarify dash dash-renderer dash-html-
components dash-core-components
```

These installation commands have been verified on Windows 10 64-bit and may not work with other versions of Windows.

Using Azure Notebooks

Note that while most of the content of the notebooks can be run in Azure Notebooks, the Python dashboard code in [Unit 7](#) will not run correctly.

To begin, download notebook zip file.

Sign into [Azure Notebooks](#) with a Microsoft account - a CSCC email address will work. Once logged in, select *Libraries* from the menus.

Select Libraries from the Menu

On the *Libraries* screen, click the **+New Library** button. Enter a library name and a library ID. Click the **Create** button.

Create New Library



New

From GitHub

Library Name

Analytics

Library ID ?

/libraries/ analytics☒ Public library☒ Create a README.md

Create

Cancel

New Library Details

To upload the notebook zip file, click the + button. In the pop-up window, select the *From Computer* tab. Click the **Choose Files** button, select the previously downloaded notebook zip file, and click the **Upload** button. Depending on the speed of your Internet connection, the upload could take some time.

Add Items to Library



New

From computer

From URL

Choose files from your local computer to upload to your library. You can choose more than one file at a time.

notebooks.zip

Choose files

Upload

Cancel

Add Items

With the zip file uploaded, we now have to extract its contents. To do this, we'll use a new notebook. Click the + button again, enter an item name like "unzip" and select "Python 3.6" as the type. Click **New**.

Add Items to Library



New

From computer

From URL

Item Name

unzip.ipynb

Item type Python 3.6 Notebook

New

Cancel

Create New Notebook

Click the newly created notebook file to open it. In the first cell, enter the following and execute it by pressing SHIFT and ENTER.

```
!unzip *.zip
```











This will take a few minutes. Execution is complete when `In [*]` is replaced with `In [1]`. Once complete, close the notebook by closing the browser tab. Return to the library page and refresh it. You should now see a new folder created from the zip file; click the folder name to open it.

To open a notebook, double-click on the notebook file.

▶ Run + ⚙️ 🔗 Share 📄 Clone 0 Clones ★ Star (0) 📁 ■ 🖨️ Preview 📄 Edit File

↓ 🗑️

🔍 Show hidden items

FILE NAME ▼	FILE TYPE	MODIFIED
 01-Requirements-Data-Identification.ipynb	Notebook	Apr 22, 2018
 02-Clean-Merge.ipynb	Notebook	Apr 22, 2018
 03-Exploration.ipynb	Notebook	Apr 22, 2018
 04-Trends-Models.ipynb	Notebook	Apr 22, 2018
 05-Text-Analysis.ipynb	Notebook	Apr 22, 2018
 06-Visualization.ipynb	Notebook	Apr 22, 2018
 07-Reporting-Dashboards.ipynb	Notebook	Apr 22, 2018
 08-Automation.ipynb	Notebook	Apr 22, 2018
 completed	Folder	
 data	Folder	

Showing 1 to 10 of 12 search results (1 hidden) < 1 2 >

List of Notebook Files


After opening a notebook, make sure it is running with Python 3.6 or later by checking the upper, right corner of the notebook page.

My Libraries

Analytics

Azure Notebooks

Not Trusted

Python 3.6 

Python Version

To change the Python version, select *Kernel*, *Change kernel*, and *Python 3.6* (or a new version).

ear the beginning of most notebooks, one cell contains code necessary to install third-party libraries using `pip`. These cells should complete successfully in Azure Notebooks.