

# Software / Hardware List

## Software specifications

Chapter number	Software required (With version)	Free/Proprietary	If proprietary, can code testing be performed using a trial version	If proprietary, then cost of the software	Download links to the software	Hardware specifications	OS required
1	Anaconda Python Distribution	Free	NA	NA	<a href="https://www.continuum.io/downloads">https://www.continuum.io/downloads</a>	RAM: Min 3GB; HDD Space: Min 100 MB	Windows XP, Vista, 7, 8, 10

## Detailed installation steps (software-wise)

The code samples of this book have been written in Python using the Jupyter Notebook development environment. All codes are in Jupyter notebook files having extension .ipynb and kept in the code folder of the Google Drive's shared folder:

<https://drive.google.com/drive/folders/0B3QmlLeoK03VaGZYQ21SQVVOMIU>

To run the Jupyter Notebooks, you need to install Anaconda Python Distribution which has the Python language essentials, interpreter, packages used for developing the examples and the Jupyter Notebook server. Download Python 3.6 version of the distribution from the URL given in the preceding table.

The steps should be listed in a way that it prepares the system environment to be able to test the codes of the book.

1. Install Anaconda Python Distribution. Follow the prompts of standard installation. The installer adds the path to Python executables to the PATH environment variable. The installer gives a prompt to add to the PATH variable. Make sure to click 'Yes' or 'OK' after reading the instructions which would allow the installer to update the PATH.

2. Open a new command prompt window and run the command

```
python --version
```

to ensure that Python executables have been added to the PATH variable.

3. Now it's time to setup the code environment for running the Jupyter Notebooks
  - a. Download the shared folder "Practical Time Series" from Google Drive to local disk e.g. D
  - b. Open a new command prompt and run the following commands  
D: (optional if default location is some other drive)  
cd "Practical Time Series"  
jupyter notebook --notebook-dir="."

4. Step 3 starts the Jupyter Notebook server and automatically opens the home page in the default browser. The home page shows the folders and files of the disk folder D:\Practical Time Series. Click on the folder "code" on the home page and you will see the Jupyter notebooks. Every notebook has the following code which set the current working directory for the notebook.

```
os.chdir('D:/Practical Time Series')
```

If you have saved the shared folder "Practical Time Series" in D drive then there is not need to change his line. Else this must be changed to reflect the actual current working directory. E.g. if the shared folder was saved as C:\Local\Practical Time Series then change the above line of code to the following.

```
os.chdir('C/Local/Practical Time Series')
```

5. Code snippets in a Jupyter notebook appears in rectangular cells with grey background as shown in the snap below. For code testing, run each cell sequentially from the top by clicking in the 'Run Cell' button (8<sup>th</sup> button from left on the buttons panel).

File Edit View Insert Cell Kernel Widgets Help



```
In [1]: import os
import sys
import pandas as pd
import re
import urllib.parse as urlparse
from nltk.corpus import stopwords
from nltk.stem.lancaster import LancasterStemmer
from nltk.stem import WordNetLemmatizer
import time
```