

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	Python v3.5	Free	--	--	Using Anaconda: https://www.continuum.io/downloads	-	Windows7 or higher/ Mac OS/ Linux
2	Tensorflow	Free	--	--	www.tensorflow.org	CPU- Architecture: x86_64 System Memory: 8- 32GB CPUs: 4-8 cores GPUs:(Optional, Minimum NVIDIA ® GTX 650)	Windows7 or higher/ Mac OS/ Linux
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Detailed installation steps (software-wise)

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. Software A:
 - a. Download anaconda from <https://www.continuum.io/downloads>
 - b. Verify installation: `conda --version`
2. Software B
 - a. Create conda environment: **`conda create -n tensorflow python=3.5`**
 - b. Activate environment: **`activate tensorflow`**
 - c. use `pip install --ignore-installed --upgrade $TF_BINARY_URL` , where \$TF_URL depends upon your OS and whether you are installing CPU only or GPU version: https://www.tensorflow.org/versions/r0.12/get_started/os_setup
 - d. Beside this following dependencies may be required to install depending upon the application:
 - i. Matplotlib: `pip install matplotlib` / `conda install -c conda-forge matplotlib`
 - ii. Pandas: `pip install pandas` / `conda install -c conda-forge pandas`
 - iii. Seaborn: `pip install seaborn` / `conda install seaborn`
 - iv. Hdf5: `conda install h5py`
 - v. PythonMagick: Binary can be downloaded from <http://www.imagemagick.org/script/download.php>
 - vi. TFlearn: `pip install tflearn`
 - vii. Keras: `pip install keras`