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All software packages required for this book are free and open source. The following is a list of Python libraries required, in addition to the base libraries.

- tensorflow>=1.10.0
- matplotlib==2.2.2
- six==1.11.0
- requests==2.18.4
- tensorflow_serving_api==1.9.0
- numpy==1.14.5
- scipy==1.1.0
- grpcio==1.14.1
- jupyter_core==4.4.0
- Pillow==5.2.0
- GitPython==2.1.11
- grpc==0.3-19
- imageio==2.3.0
- nltk==3.3
- skimage==0.0
- scikit_learn==0.19.2
- jupyter==1.0.0 (optional, for using the jupyter notebooks provided in the online repository)

Detailed installation steps (software-wise):

To install the above libraries, a `requirements.txt` file is included in the github repositories. To install the libraries, follow the below steps.

1. Python 3:

1. Visit <https://www.python.org/downloads/> and download a Python 3 version.
2. The instructions vary based on the operating system used, so follow the instructions provided on the above site.

2. Python Libraries:

1. Get the `requirements.txt` file provided in the repository. The reader may do this by cloning the GitHub repository or manually downloading the specific file.

1. `$ git clone`

`https://github.com/nfmcclure/tensorflow_cookbook`

2. Use pip to install the libraries via the `requirements.txt` file:

1. `$ pip install -r requirements.txt`

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