

DEEP LEARNING LIBRARY

FREE ONLINE BOOKS

1. [Deep Learning](#) by Yoshua Bengio, Ian Goodfellow and Aaron Courville
2. [Neural Networks and Deep Learning](#) by Michael Nielsen
3. [Deep Learning](#) by Microsoft Research
4. [Deep Learning Tutorial](#) by LISA lab, University of Montreal

COURSES

1. [Machine Learning](#) by Andrew Ng in Coursera
2. [Neural Networks for Machine Learning](#) by Geoffrey Hinton in Coursera
3. [Neural networks class](#) by Hugo Larochelle from [Université de Sherbrooke](#)
4. [Deep Learning Course](#) by CILVR lab @ NYU
5. [CS231n: Convolutional Neural Networks for Visual Recognition](#) On-Going
6. [Probabilistic Graphical Model](#) by Daphne Koller in Coursera
7. [Kevin Duh Class for Deep Net](#) Deep Learning and Neural Network

VIDEO AND LECTURES

1. [How To Create A Mind](#) By Ray Kurzweil - Is a inspiring talk
2. [Deep Learning, Self-Taught Learning and Unsupervised Feature Learning](#)
By Andrew Ng
3. [Recent Developments in Deep Learning](#) By Geoff Hinton
4. [The Unreasonable Effectiveness of Deep Learning](#) by Yann LeCun
5. [Deep Learning of Representations](#) by Yoshua bengio
6. [Principles of Hierarchical Temporal Memory](#) by Jeff Hawkins
7. [Machine Learning Discussion Group - Deep Learning w/ Stanford AI Lab](#) by Adam Coates
8. [Making Sense of the World with Deep Learning](#) By Adam Coates
9. [Demystifying Unsupervised Feature Learning](#) By Adam Coates
10. [Visual Perception with Deep Learning](#) By Yann LeCun

PAPERS

1. [ImageNet Classification with Deep Convolutional Neural Networks](#)
2. [Using Very Deep Autoencoders for Content Based Image Retrieval](#)
3. [Learning Deep Architectures for AI](#)
4. [CMU's list of papers](#)

TUTORIALS

1. [UFLDL Tutorial 1](#)
2. [UFLDL Tutorial 2](#)
3. [Deep Learning for NLP \(without Magic\)](#)
4. [A Deep Learning Tutorial: From Perceptrons to Deep Networks](#)

WEBSITES

1. [deeplearning.net](#)
2. [deeplearning.stanford.edu](#)
3. [deeplearning.cs.toronto.edu](#)

DATASETS

1. [MNIST Handwritten digits](#)
2. [Google House Numbers from street view](#)
3. [CIFAR-10 and CIFAR-100](#)
4. [IMAGENET](#)
5. [Tiny Images 80 Million tiny images](#)
6. [Flickr Data 100 Million Yahoo dataset](#)
7. [Berkeley Segmentation Dataset 500](#)

FRAMEWORKS

1. [Caffe](#)
2. [Torch7](#)
3. [Theano](#)
4. [cuda-convnet](#)

5. Ccv
6. NuPIC
7. DeepLearning4J

MISCELLANEOUS

1. Google Plus - Deep Learning Community
2. Caffe Webinar
3. 100 Best Github Resources in Github for DL
4. Word2Vec
5. Caffe DockerFile
6. TorontoDeepLEarning convnet
7. Vision data sets
8. Fantastic Torch Tutorial My personal favourite. Also check out [gfx.js](#)
9. Torch7 Cheat sheet

OTHER LINK

1. <https://ift6266h13.wordpress.com/home/resources/>
2. http://www.dmi.usherb.ca/~larocheh/projects_classrbm.html
3. <http://www.slideshare.net/hammawan/deep-neural-networks>
4. <http://www.iro.umontreal.ca/~bengioy/talks/mlss-austin.pdf>
5. <http://techtalks.tv/talks/lab/59461/>
6. <https://www.evernote.com/shard/s433/sh/52b77d5f-a2cf-46f5-9b4c-68620f1682be/73527274007c5fa123cd6cc0d8bb10df>
7. <http://cl.naist.jp/~kevinduh/a/deep2014/140116-ResearchSeminar.pdf>