

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>