

A mostly complete chart of Neural Networks

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○ Backfed Input Cell

● Input Cell

△ Noisy Input Cell

● Hidden Cell

○ Probabilistic Hidden Cell

△ Spiking Hidden Cell

● Output Cell

○ Match Input Output Cell

● Recurrent Cell

○ Memory Cell

△ Different Memory Cell

● Kernel

○ Convolution or Pool

Perceptron (P)



Feed Forward (FF)



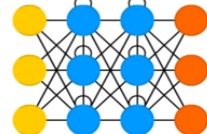
Radial Basis Network (RBF)



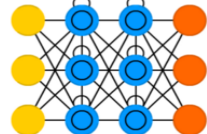
Deep Feed Forward (DFF)



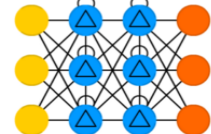
Recurrent Neural Network (RNN)



Long / Short Term Memory (LSTM)



Gated Recurrent Unit (GRU)



Auto Encoder (AE)



Variational AE (VAE)



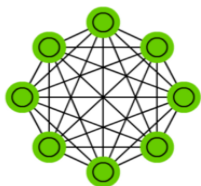
Denoising AE (DAE)



Sparse AE (SAE)



Markov Chain (MC)



Hopfield Network (HN)



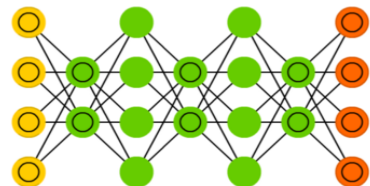
Boltzmann Machine (BM)



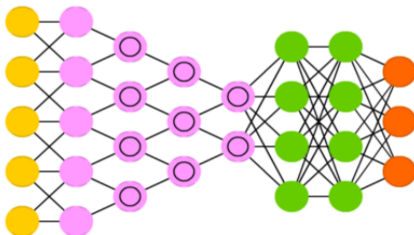
Restricted BM (RBM)



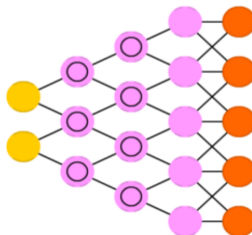
Deep Belief Network (DBN)



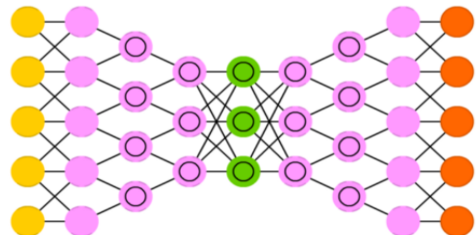
Deep Convolutional Network (DCN)



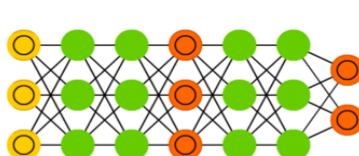
Deconvolutional Network (DN)



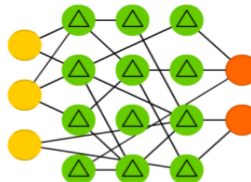
Deep Convolutional Inverse Graphics Network (DCIGN)



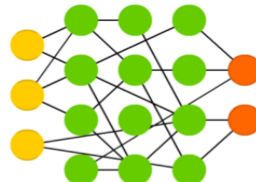
Generative Adversarial Network (GAN)



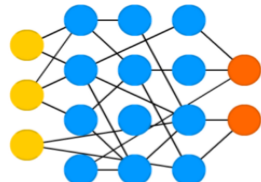
Liquid State Machine (LSM)



Extreme Learning Machine (ELM)



Echo State Network (ESN)



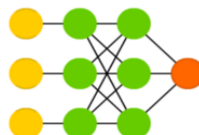
Deep Residual Network (DRN)



Kohonen Network (KN)



Support Vector Machine (SVM)

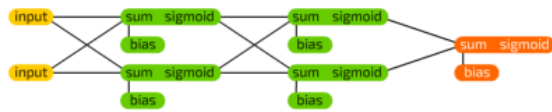


Neural Turing Machine (NTM)

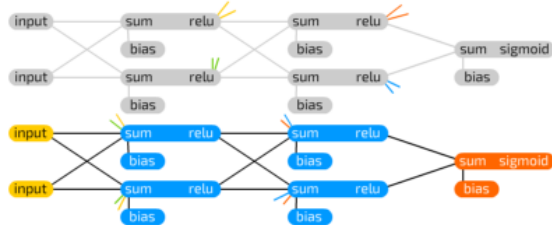
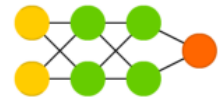


An informative chart to build Neural Network Graphs

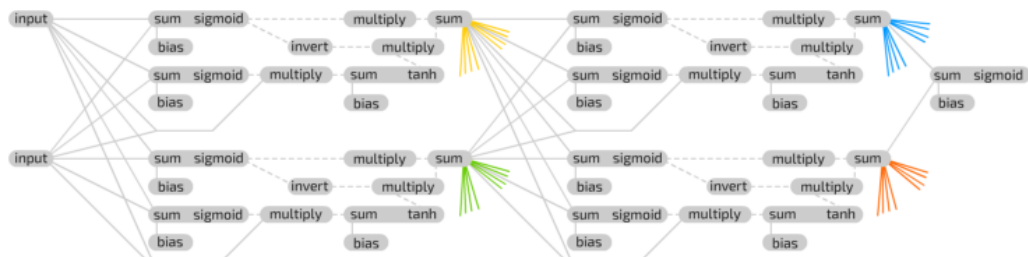
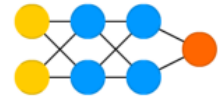
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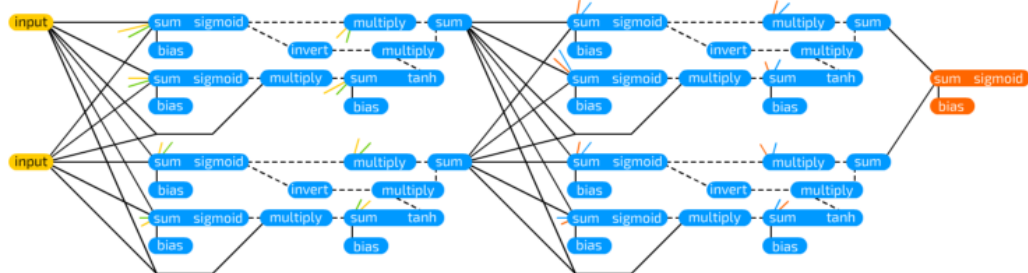
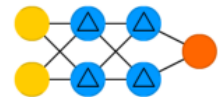
Deep Feed Forward Example



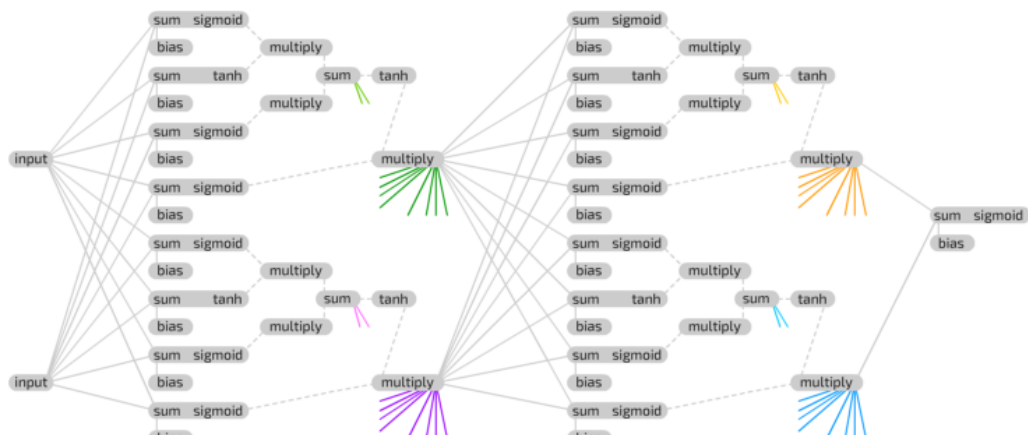
Deep Recurrent Example
(previous iteration)



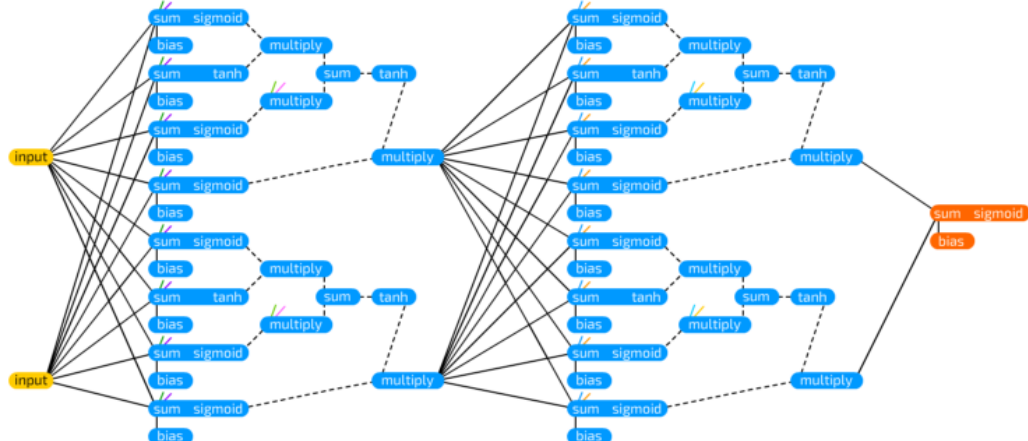
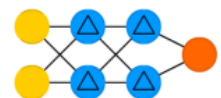
Deep GRU Example
(previous iteration)



Deep GRU Example



Deep LSTM Example
(previous iteration)



Deep LSTM Example