# Types of Neural Networks



A mostly complete chart of
# Neural Networks
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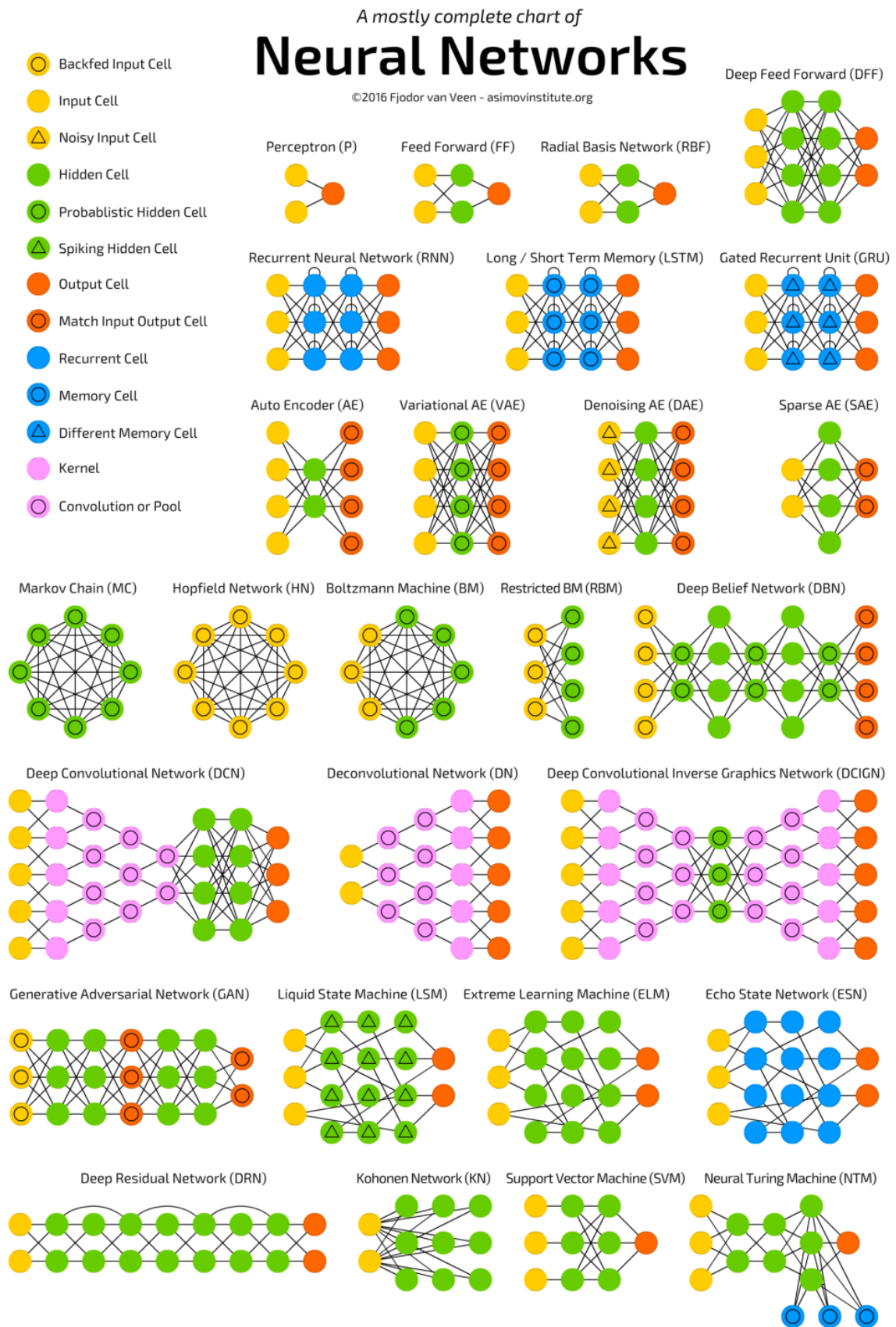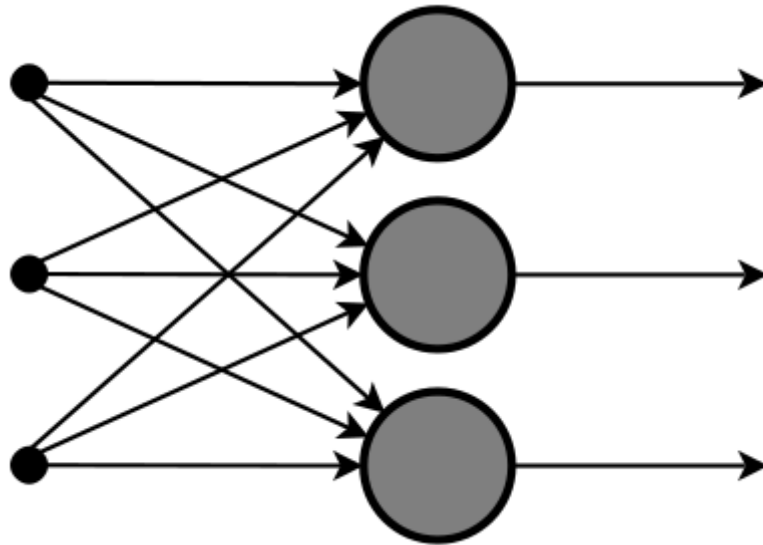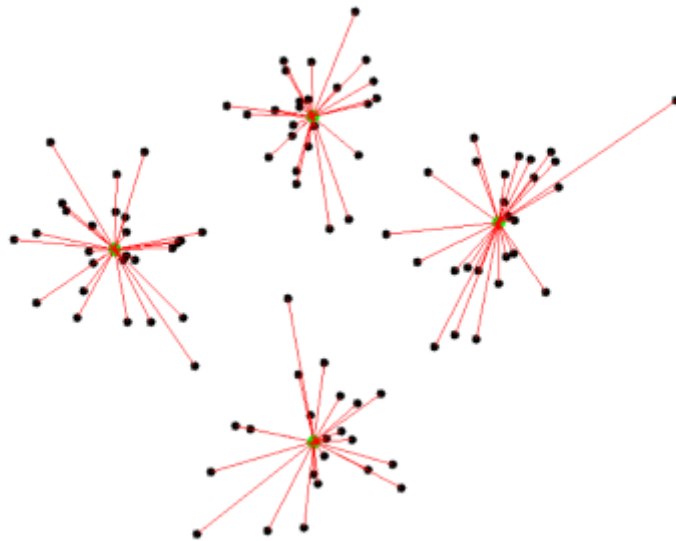
Below are descriptions of some of the most implemented types of networks.
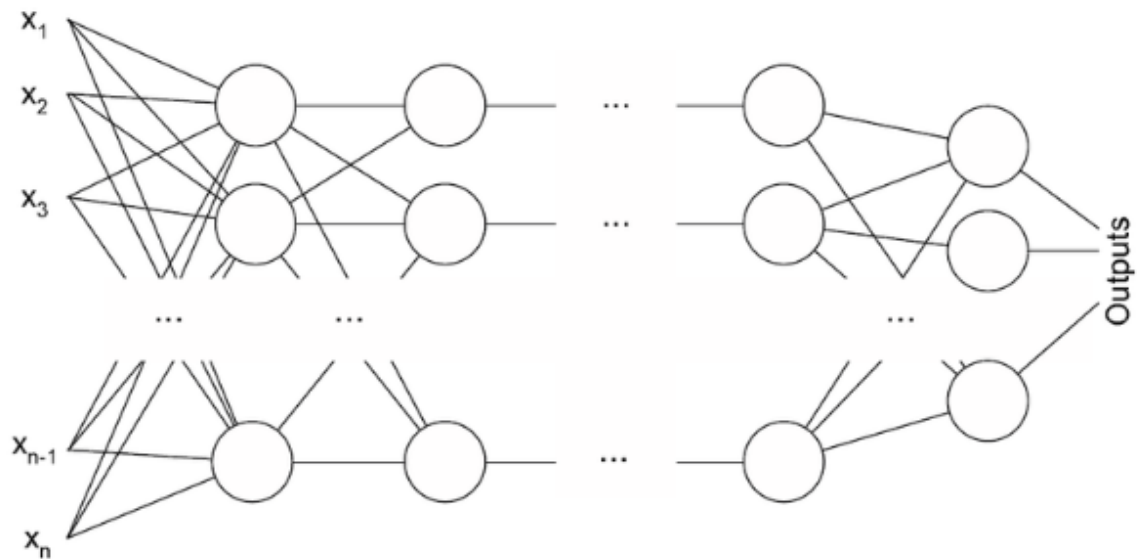
# Feedforward Neural Network

This is the simplest type of neural network where data passes through each layer until it gets to the output layer. Unlike more complicated neural networks, three is no back propagation. However, they work well with noisy data and are simple to maintain. The **primary application for feedforward neural networks is face recognition and computer vision**.

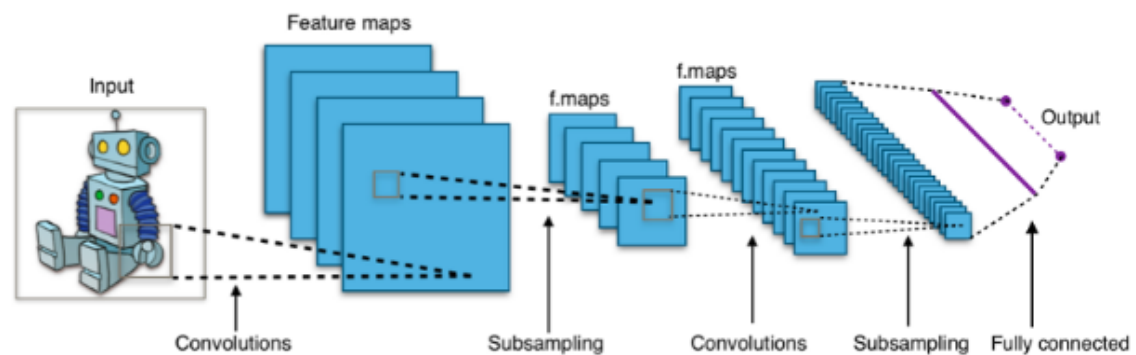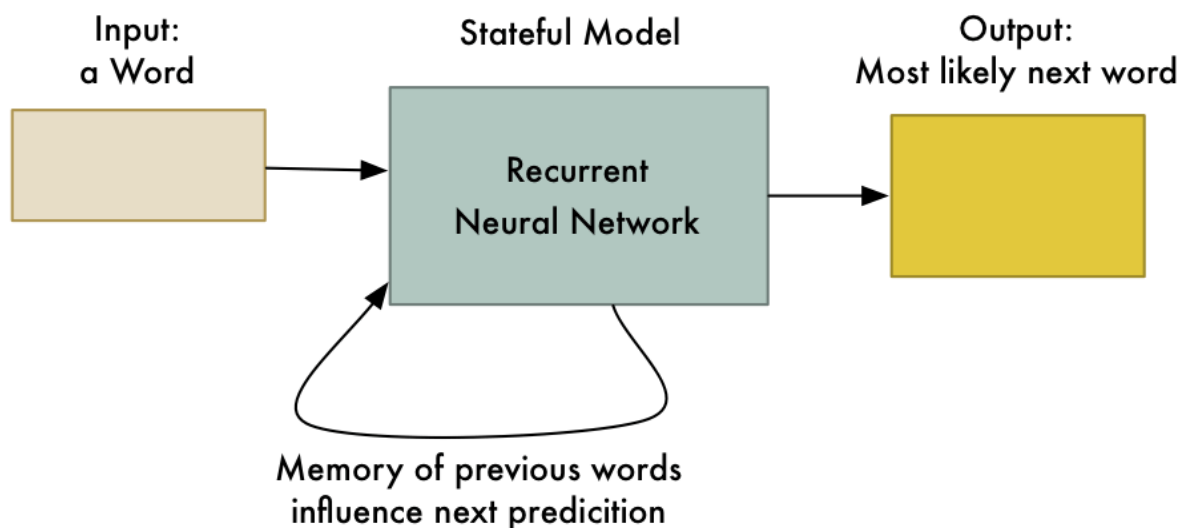

# Radial Basis Function Neural Network



# Multilayer Perceptron
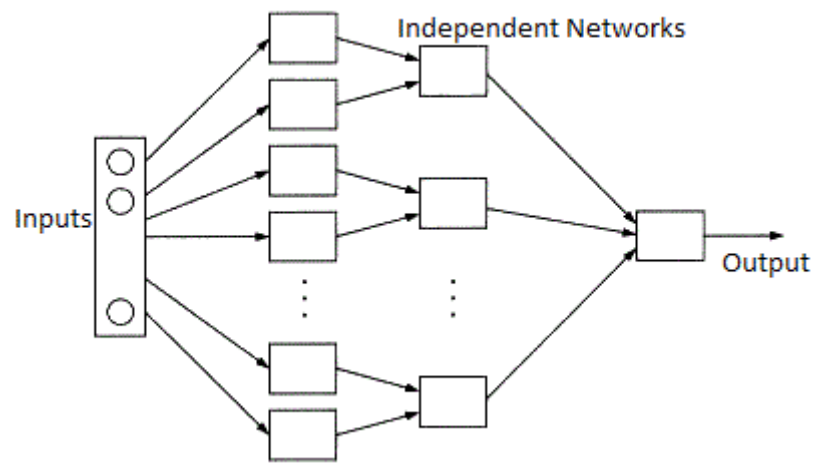
## Convolutional Neural Network (CNN)



Input — Convolutions — Feature maps — Subsampling — f.maps — Convolutions — f.maps — Subsampling — Fully connected — Output

## Recurrent Neural Network (RNN) – Long Short Term Memory



Input:
a Word

Stateful Model

Output:
Most likely next word

Recurrent
Neural Network

Memory of previous words
influence next predicition

Output so far:

Machine

## Modular Neural Network

# Sequence-To-Sequence Models

**Sources**

https://www.digitalvidya.com/blog/types-of-neural-networks/

https://youtu.be/l0foB9mUrc4