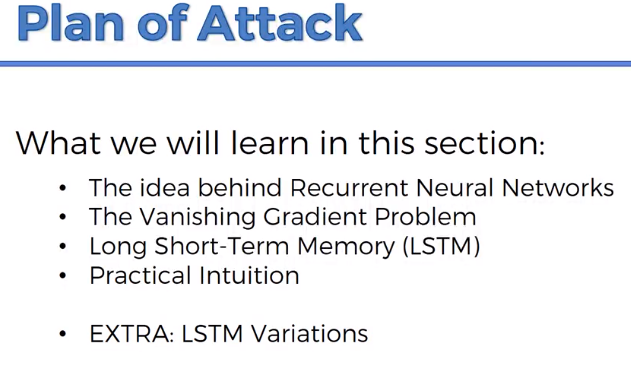
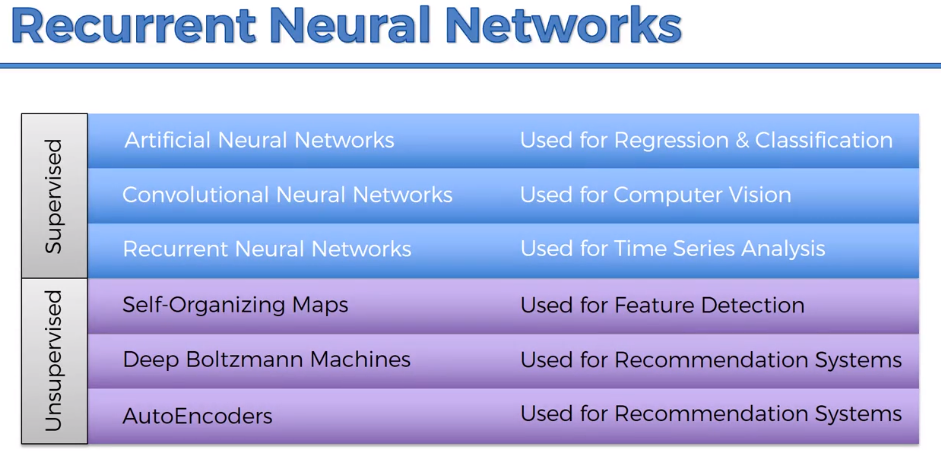
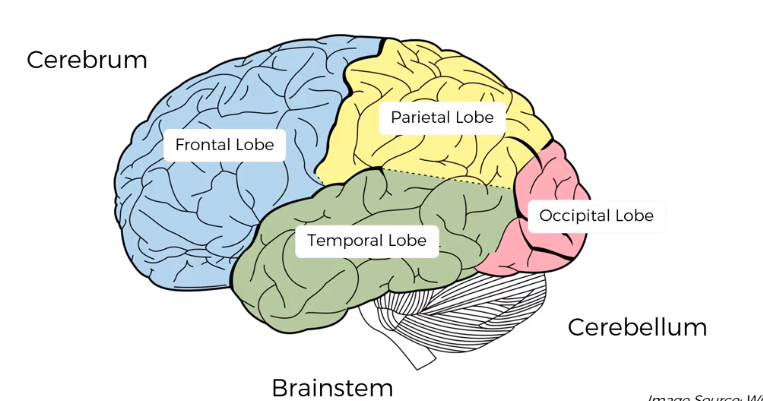
RNN



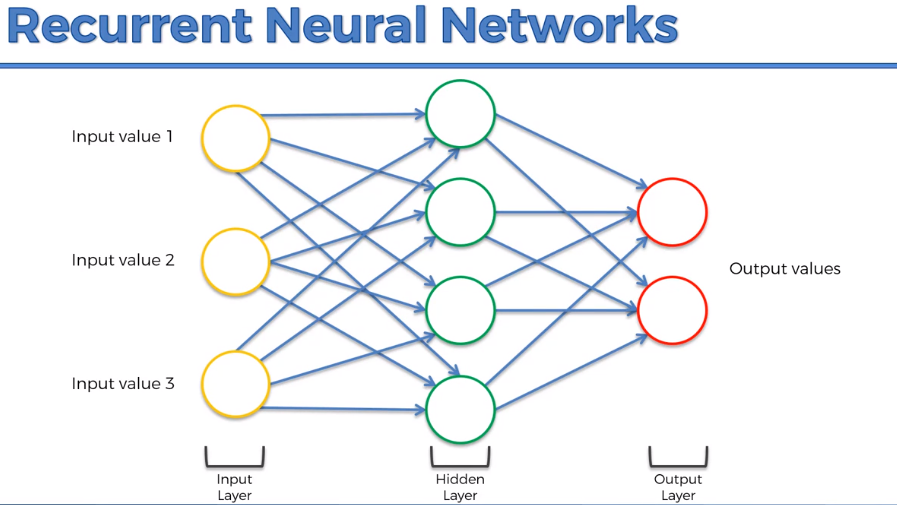


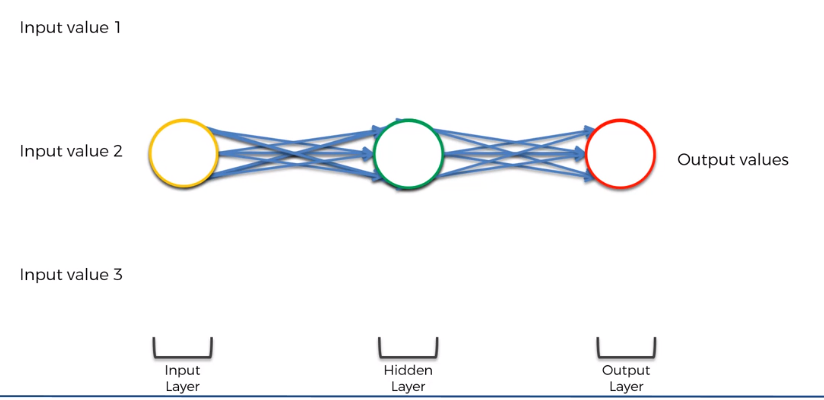


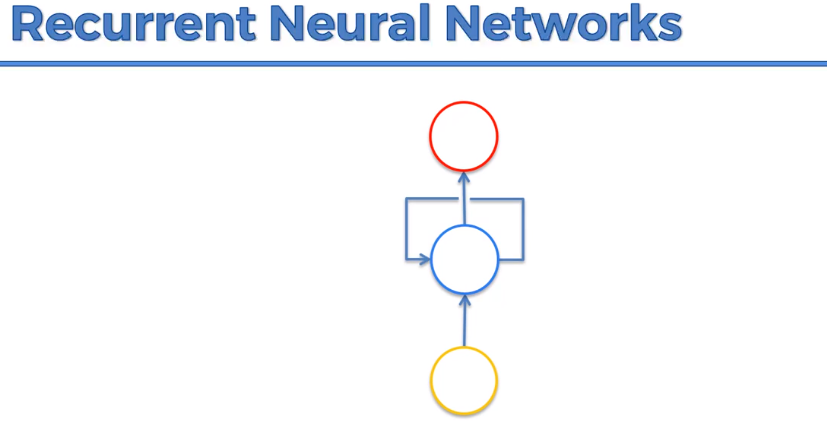


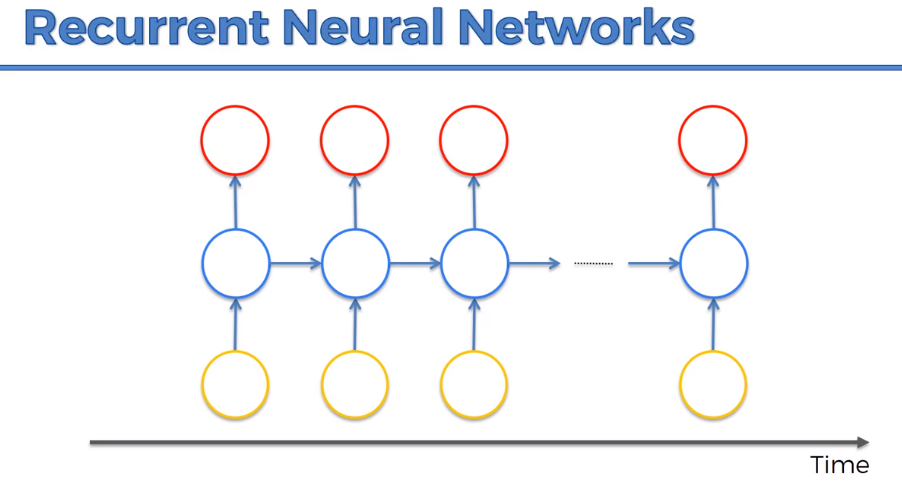
* Temporal Lobe🡪Long Term memory🡪 ANN
* Occipital Lobe🡪 Computer Vision🡪 CNN
* Frontal Lobe🡪 Short term memory🡪 RNN

**Step 1:**

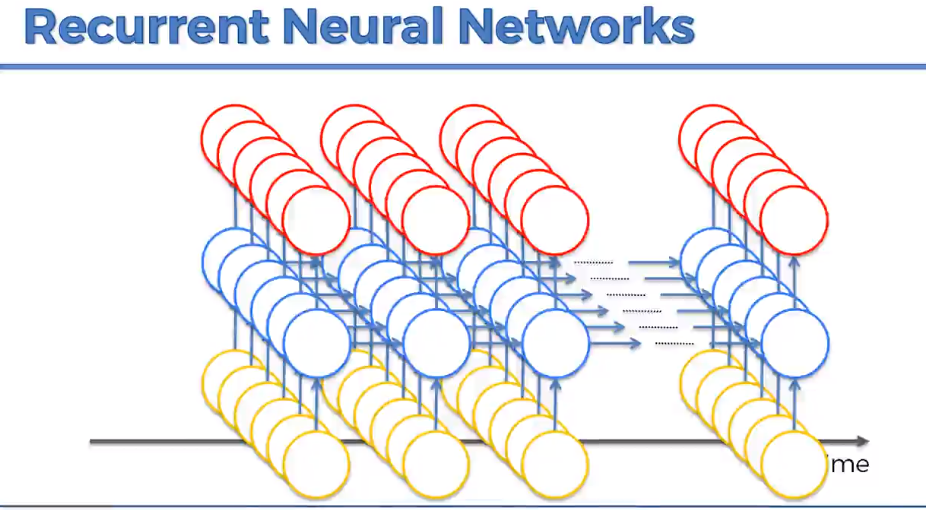






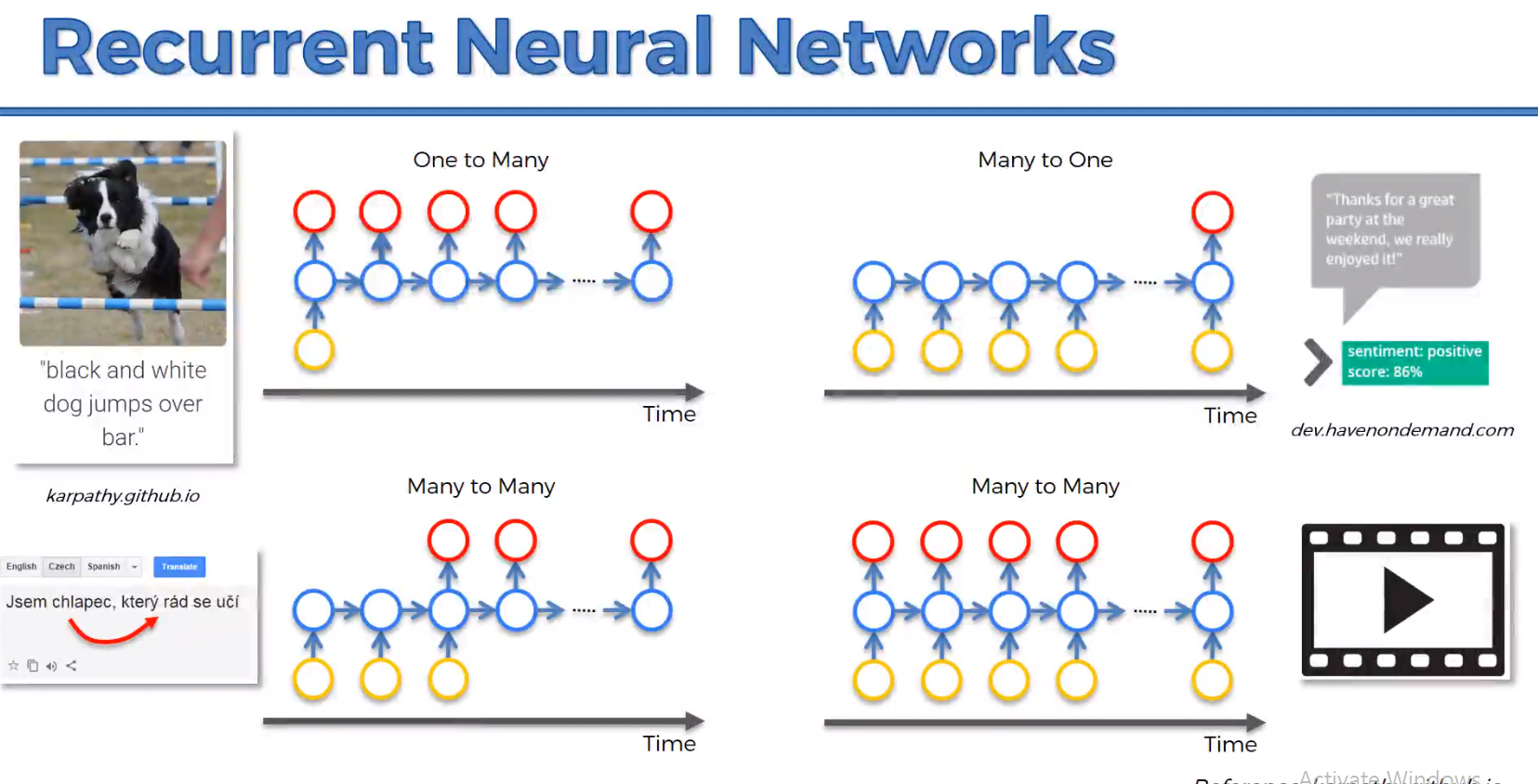


Layer of neurons:

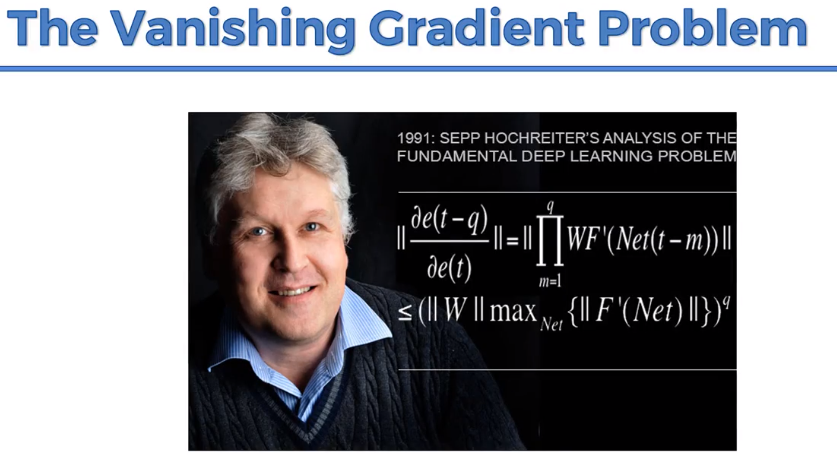


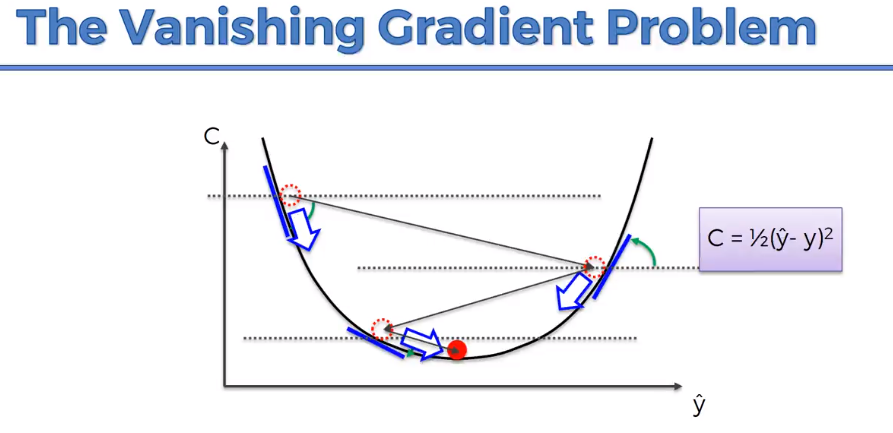
Neurons are connected to themselves through time.

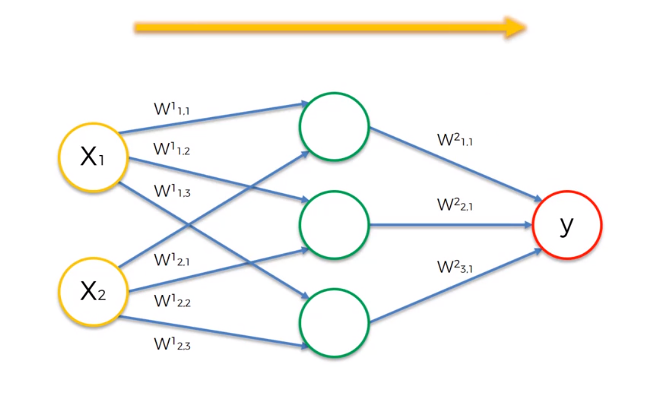
To build subtitles, we use RNN

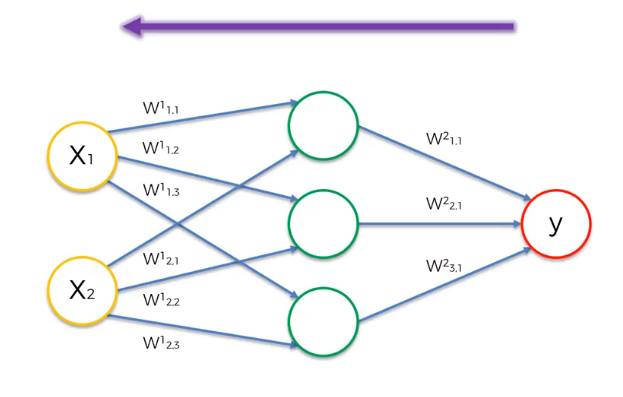




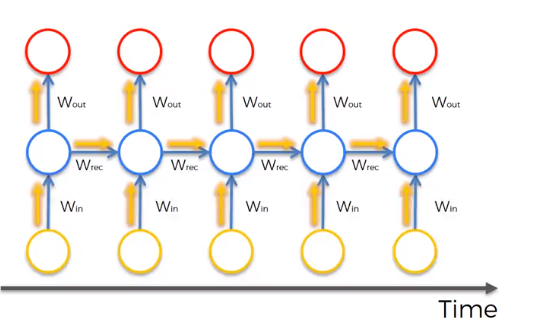




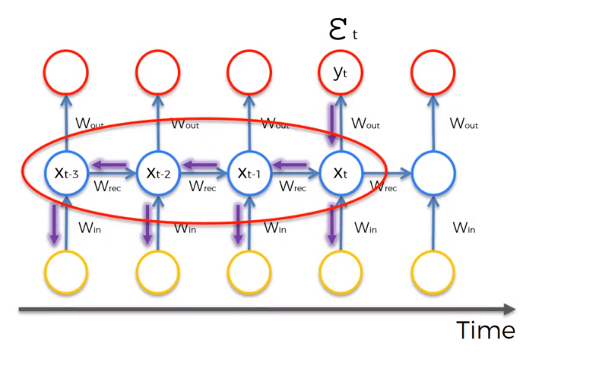


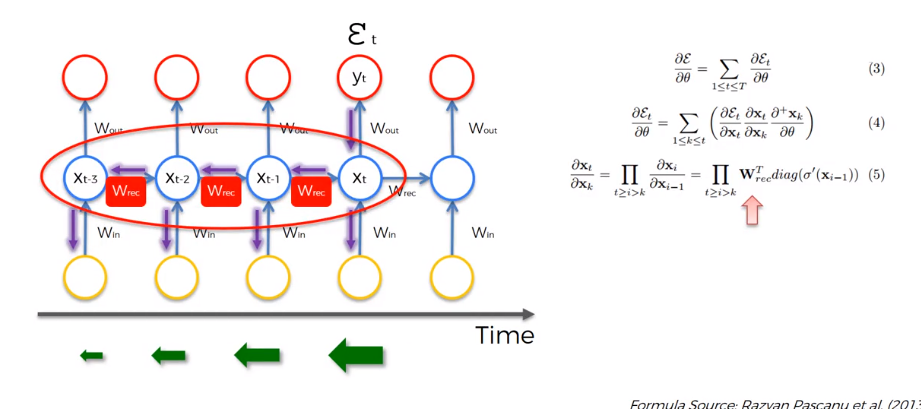


RNN:

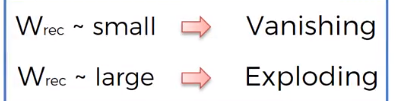


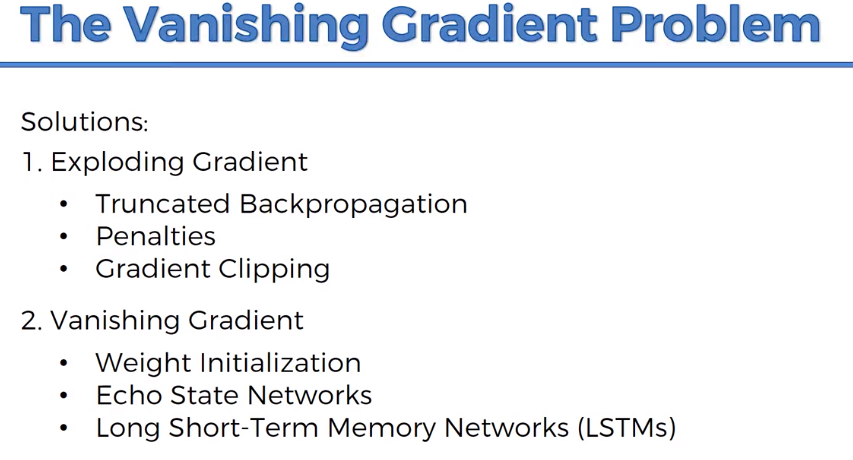
**Problem: backward propagation to update**





The gradient goes back in the network, it reduces the gradient.





https://dl.acm.org/citation.cfm?id=3043083