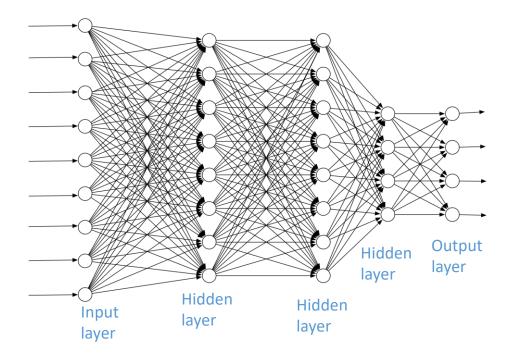
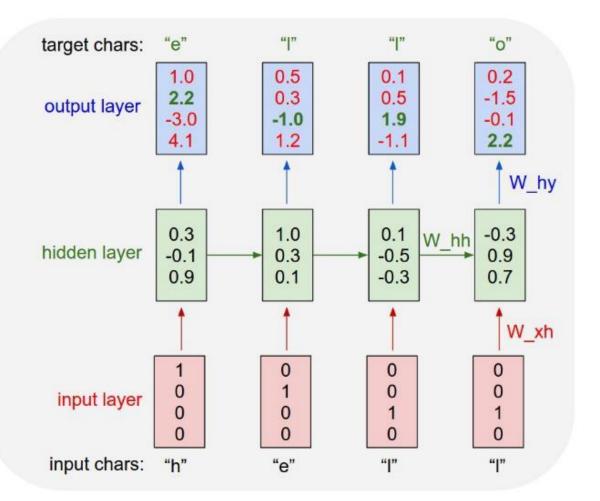
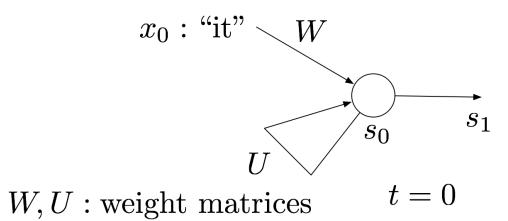
INFO 284 – Machine Learning Recurrent Neural Networks

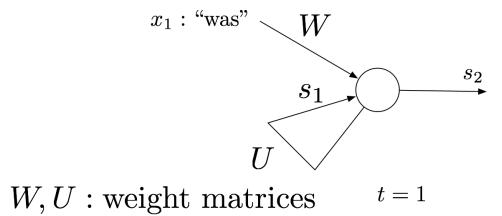
Marija Slavkovik & Bjørnar Tessem

UNIVERSITY OF BERGEN

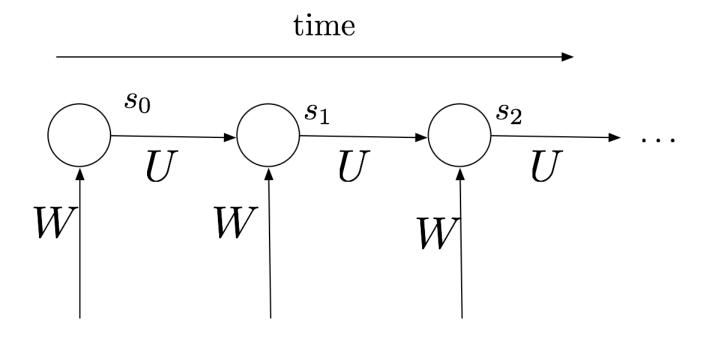


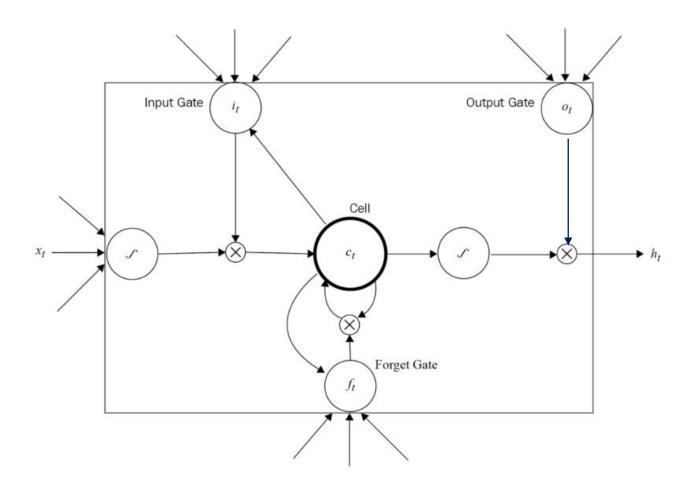


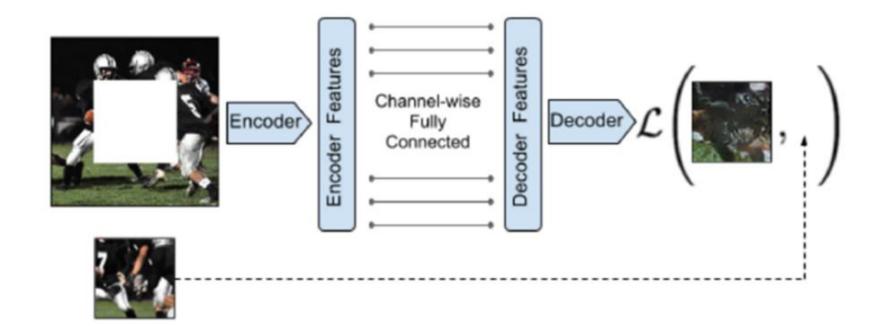




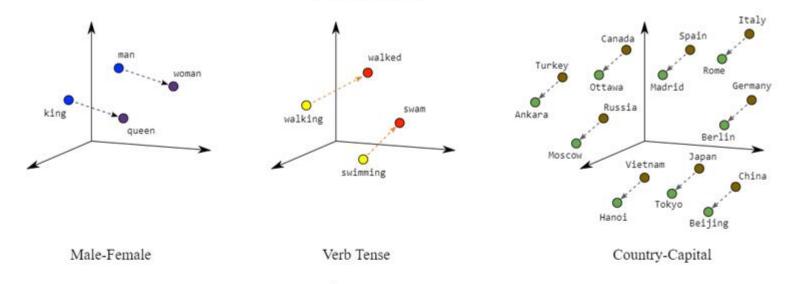
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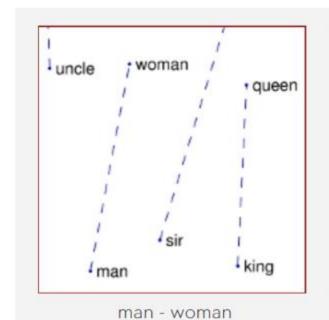


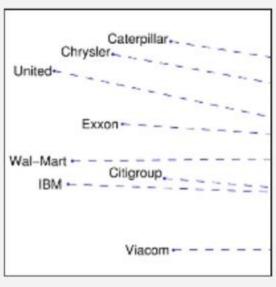


Word2Vec

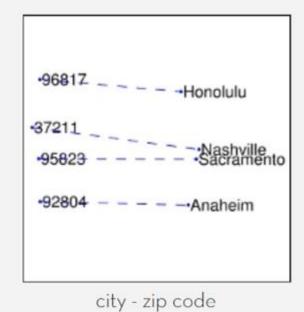


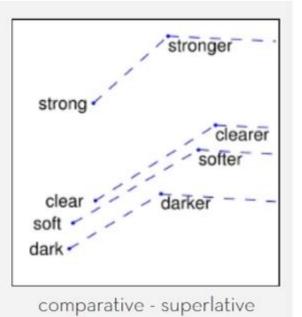
GloVe





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Neural networks

Types Perceptrons Feed-forward networks Hidden layers Convolutional networks Convolutional layers Pooling layers Recurrent networks Short term memory • LSTM

Concepts

- Activation functions
 - Sigmoid
 - Tanh
 - Relu
- Loss functions
 - L2
 - Cross entropy
 - Softmax
- Optimization
 - Gradient descent
 - Backpropagation
 - Adam
 - RMSprop
 - LBFGS
- Transfer learning
 - Vision models
 - Language models