

Text and Sequences

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1 Embeddings

- Similar words occur in similar contexts
- words \rightarrow embeddings
- Word2Vec : Predict context of a word using its vector hence learning this vector
- tSNE (t-distributed stochastic neighbor embedding): nonlinear dimensionality reduction
- Better to measure closeness using cosine distance rather than l_2 norm
- Sampled softmax

2 RNN

- Share parameters across time
- Backprop through time
- Exploding/Vanishing Gradients - gradient clipping/LSTMs