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# Deep Learning Resources

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## 1 Word Vectors

1. Mikolov, T., Chen, K., Corrado, G., and Dean, J. (2013). Efficient estimation of word representations in vector space. CoRR, abs/1301.3781. [*Word2Vec Algorithm*]
2. Collobert, R., Weston, J., Bottou, L., Karlen, M., Kavukcuoglu, K., and Kuksa, P. P. (2011). Natural language processing (almost) from scratch. CoRR, abs/1103.0398. [*Transforming Words into Word Vectors*]

## **2 Data Preprocessing**

### **2.1 Weight Initialization**

## **3 Loss Functions**

1. Mikolov et al., “Distributed Representations of Words and Phrases and their Compositionality”, ArXiv 2013 [*Hierarchical Softmax (Problem of Many Classes)*]

## **4 Architectures**

## **5 Hyperparameters**

### **5.1 Update Rules**

### **5.2 Regularization**

### **5.3 Dropout**