<https://machinelearningmastery.com/what-are-word-embeddings/>

### Predefine word embedding:

### Word2Vec

Word2Vec is a statistical method for efficiently learning a standalone word embedding from a text corpus.

* Continuous Bag-of-Words, or CBOW model.
* Continuous Skip-Gram Model.

### GloVe-Global Vectors for Word Representation

Word embeddings are in fact a class of techniques where individual words are represented as real-valued vectors in a predefined vector space

Each word is mapped to one vector and the vector values are learned in a way that resembles a neural network, and hence the technique is often lumped into the field of deep learning.

Each word is represented by a real-valued vector, often tens or hundreds of dimensions. This is contrasted to the thousands or millions of dimensions required for sparse word representations, such as a one-hot encoding.

There is deeper linguistic theory behind the approach, namely the “distributional hypothesis” by Zellig Harris that could be summarized as: words that have similar context will have similar meanings. For more depth see Harris’ 1956 paper “[Distributional structure](http://www.tandfonline.com/doi/pdf/10.1080/00437956.1954.11659520)“.

Scan examples:

<https://github.com/lamblin/ccw_tutorial/blob/master/Scan_W2016/scan_tutorial.ipynb>