## HW: Word2Vec Applications

- Goal: figure out how word2vec works and come up with a scenario that is proper to apply word2vec
- Task: find/choose a certain data/problem, learn OOO embeddings by a modified word2vec, and do some evaluation
- Dataset: choose what you want / feed good to apply word2vec Note you cannot do the same things as original word2vec!
- Novelty (need to elaborate the details in your report!)
  - (1) How you cast your data/problem in the settings of word2vec? What is word, sentences, context? How to do negative sampling?
  - (2) How to modify word2vec (skip-gram or CBOW) to deal with your problem? It may be varied according your data/problem! Is your loss function changed? Why original word2vec cannot be directly appied?

## Evaluation

- Perform some downstream tasks (i.e., prediction/classification)
- t-SNE Visualization https://www.google.com/search?q=t-sne
- Similar search and Analogy test
- Submit your code (zip) and a report (at least 10 pages)