Vector semantics and embeddings unit

- Lexical semantics, words as vectors (Today)
- Word2Vec (Wednesday)
- Applications of embeddings (Friday)

Today:

- The idea of word embeddings
- Lexical semantics
- Human-crafted embeddings
- ML embeddings
Vector semantics is the standard way to represent word meaning in NLP. [Some linguists have proposed] The roots of the model lie in the 1950s when two big ideas converged: [using] a point in three-dimensional space to represent the connotation of a word, and the proposal . . . to define the meaning of a word by its distribution in language use, meaning its neighboring words or grammatical environments.

The idea of vector semantics is to represent a word as a point in a multi-dimensional semantic space that is derived from the distributions of word neighbors. Vectors for representing words are called embeddings.
Coming up:

- Do NBC programming assignment (Mon, Nov 6)
- Read J&M 6 (Wed, Nov 8)
- Do Semantle exercise (Fri, Nov 10)

Word2Vec assignment coming...