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## ▪ Next lectures

- Word sense disambiguation
  - » Background from linguistics
    - ◆ Lexical semantics
  - » On-line resources
  - » Computational approaches

## Caveats

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- Problems with a compositional approach
  - a former congressman
  - a toy elephant
  - kicked the bucket

## Semantic analysis

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- Assigning meanings to utterances/sentences
- **Compositional semantics**: we can derive the meaning of the whole sentence from the meanings of the parts.
  - Marseille ate a green apple.
- Relies on knowing:
  - the meaning of individual words
  - how the meanings of individual words combine to form the meaning of groups of words
  - how it all fits in with syntactic analysis

## Introduction to lexical semantics

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- Lexical semantics is the study of
  - the systematic meaning-related connections among words and
  - the internal meaning-related structure of each word
- Lexeme
  - an individual entry in the lexicon
  - a pairing of a particular orthographic and phonological form with some form of symbolic meaning representation
- Sense: the lexeme's meaning component
- Lexicon: a finite list of lexemes

## Dictionary entries

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- right *adj.* located nearer the right hand esp. being on the right when facing the same direction as the observer.
- left *adj.* located nearer to this side of the body than the right.

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- red *n.* the color of blood or a ruby.
  - blood *n.* the red liquid that circulates in the heart, arteries and veins of animals.