

# Applied Text Mining in Python

*Basic Natural Language Processing*

# What is Natural Language?

- Language used for everyday communication by humans
  - English
  - 中文
  - हिन्दी
  - русский язык
  - español

c u 2nite



compared to the artificial computer languages

# What is Natural Language Processing?

- Any computation, manipulation of natural language
- Natural languages evolve
  - new words get added
  - old words lose popularity
  - meanings of words change
  - language rules themselves may change

selfie

thou

learn

position of verbs in  
sentences!

# NLP Tasks: A Broad Spectrum

- Counting words, counting frequency of words
- Finding sentence boundaries
- Part of speech tagging
- Parsing the sentence structure
- Identifying semantic roles
- Identifying entities in a sentence
- Finding which pronoun refers to which entity

and much more ...