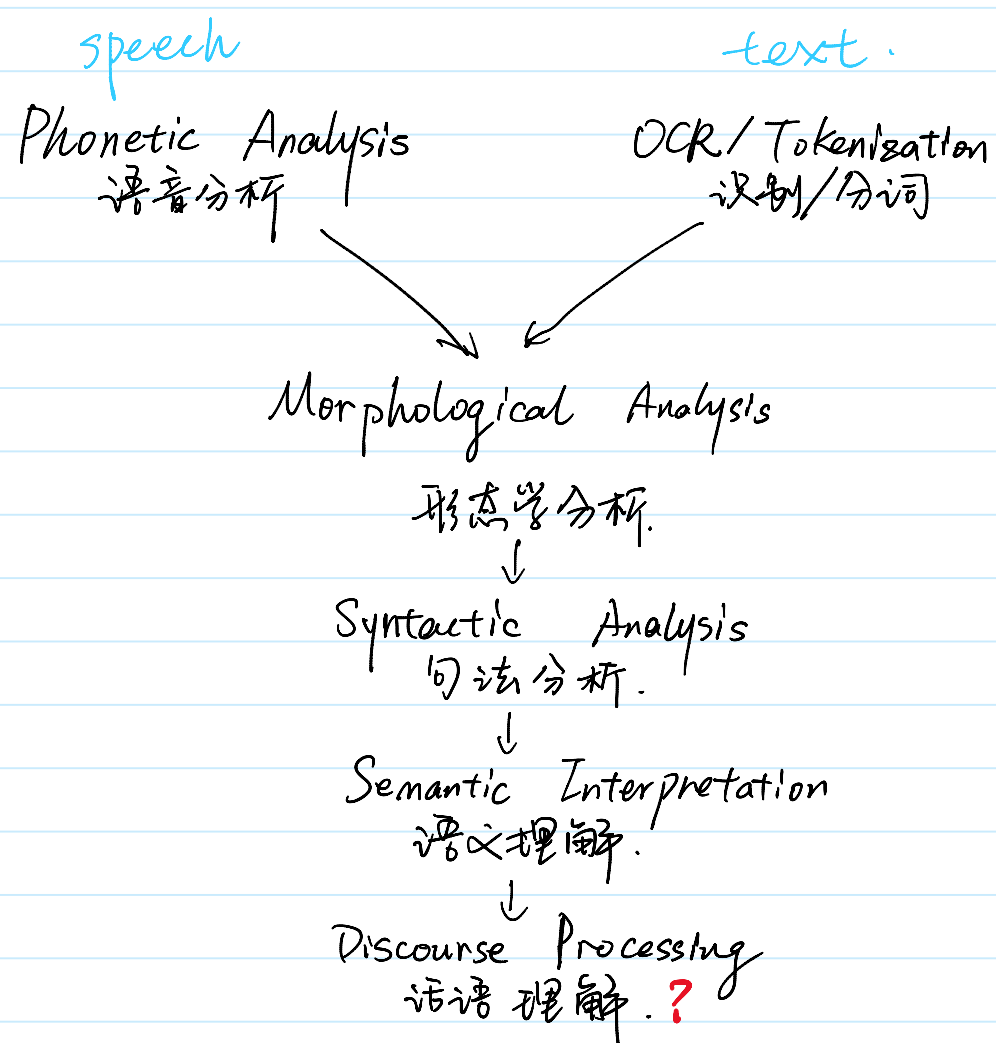


Lecture 1: Overview

2018年7月3日 星期二 下午4:37

NLP Levels



我们主要的方向是哪些部分呢?

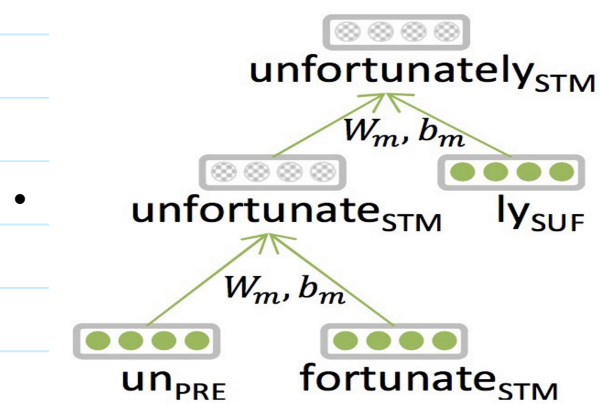
Brain → Language → Voice.
Continuous → symbolic → continuous

1. Morphology

- **Traditional Method:** 词素法
 - Prefix + Stem + Suffix

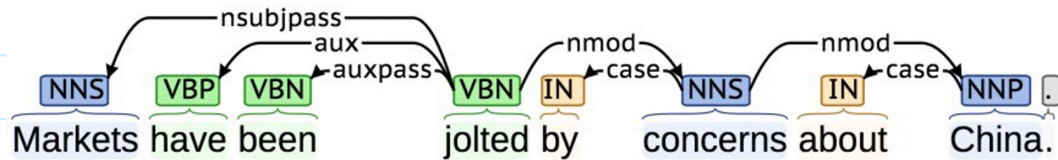
prefix	stem	suffix
un	interest	ed

- **Deep Learning:**
 - Morpheme Vector 词素向量
 - NN combines vectors into one



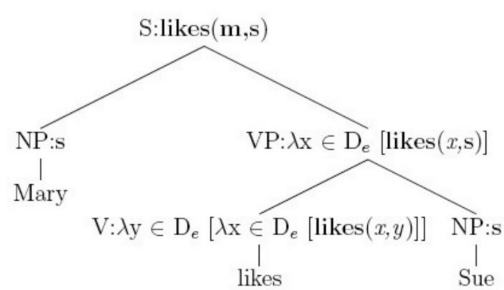
2.Syntactic

- Deconstruct sentences
- Disambiguation (消岐)

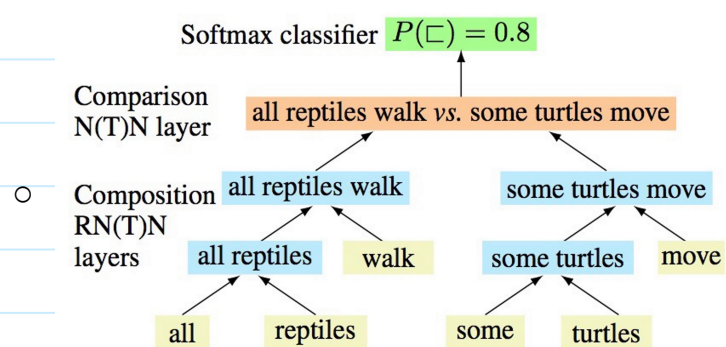


3.Semantic

- Traditional method** : Lambda calculus
 - Manually engineered lambda functions
 - Lots of specific rules



- Deep Learning**: Phrase Vector
 - Compositions of multiple vectors
 - Soft max Classifier



4.Applications

- Auto Complete on Smart phone
- Spell checking
- Extract Information on Websites
- Machine Translating
- Sentiment Analysis for Marketing
- Dialogue Agents