

Tokenization

- Was umfasst ein Wort?
 - “they'll want to leave”
 - Format/Abkürzungen: U.S.A, \$200
- Regulärer Ausdruck: String mit Muster

pattern = r'\w+|[^\w\s]+'

- split(): trennt String bei Leerzeichen
- nltk.tokenize.regexp_tokenize(plain_text, pattern)

Satz Extraktion

- Was umfasst einen Satz?
- “Have you called me last week?”
- The method is quite novel: You put two potatoes in one pan.
- `nltk.tokenize regexp_tokenize(plain_text, pattern)`

Satz Extraktion

- Punkt Tokenizer
 - trennt Text in einzelne Sätze
 - unüberwachtes Lernverfahren, trainiert auf einem großen Textkorpus
 - 'tokenizers/punkt/english.pickle'
 - <http://nltk.org/doc/guides/tokenize.html>

Satz Extraktion

```
>>> import nltk.data
>>> text = """
... Punkt knows that the periods in Mr. Smith and Johann S. Bach
... do not mark sentence boundaries. And sometimes sentences
... can start with non-capitalized words. i is a good variable
... name.
...
...
>>> tokenizer = nltk.data.load('tokenizers/punkt/english.pickle')
>>> print '\n----\n'.join(tokenizer.tokenize(text))
Punkt knows that the periods in Mr. Smith and Johann S. Bach
do not mark sentence boundaries.

-----
And sometimes sentences
can start with non-capitalized words.

-----
i is a good variable
name.
```

Evaluation: Metriken

- Eigenes Ergebnis womit vergleichen?
 - `nltk.corpus.treebank.words()`
 - `nltk.corpus.treebank.sents()`
- `set(reference_set).intersection(test_set) / float(len(set(reference_set)))`
- `import math` (for floating point operations)