

# block6b-nltk-textprocessing

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## 1 Block 6b: NLTK

```
In [ ]: import collections
```

```
        freq = collections.Counter(text)
```

```
In [ ]: print(freq.most_common(25))
```

```
In [ ]: import string
```

```
def remove_punctuation(text):
    punctuation = string.punctuation
    for marker in punctuation:
        text = text.replace(marker, "")
    return text
```

```
In [ ]: import nltk
```

```
with open("grundgesetz.txt", encoding="utf-8") as infile:
    text_raw = infile.read()
```

```
text = text_raw.lower()
text = remove_punctuation(text)
text = text.split()
text = nltk.Text(text)
```

```
In [ ]: text.concordance("freiheit")
```

```
In [ ]: text.similar("freiheit")
```

```
In [ ]: text.dispersion_plot(["artikel", "gesetz", "freiheit"])
```

### 1.1 NLTK-Beispiel

(aus: <http://www.nltk.org/book/ch02.html>)

```
In [ ]: import nltk
        from nltk.corpus import inaugural

        cfd = nltk.ConditionalFreqDist(
            (target, fileid[:4])
            for fileid in inaugural.fileids()
            for w in inaugural.words(fileid)
            for target in ['america', 'citizen']
            if w.lower().startswith(target))
        cfd.plot()
```