

# spaCy Cheat Sheet

by Nuozhi via cheatography.com/122797/cs/22963/

### Init

from spacy.lang.en import English nlp = English()

### **Basic**

doc = nlp("SOME TEXTS") span = doc[i:j] token = doc[i]

### **Pre-trained Model**

spacy.load('en\_core\_web\_sm')  $doc = nlp(MY\_TEXT)$ 

### Name entity

doc.ents

.text .label

### Matcher

matcher = spacy.matcher.Matcher(nlp.vocab) matches = matcher(doc)

[(id, start, end)]

## Add pattern to matcher

pattern = [ { key: value } ] matcher.add("PATTERN\_NAME", None, pattern)

Two types of key:

1. regex pattern

2. label (i.e. POS, entity)

### spacy.tokens

Doc Doc(nlp.vocab, words=words, spaces = spaces)

Span Span(doc, i, j, label="-

PERSON")

index: i. i

words: a collection of words spaces: a collecture of booleans

### **Similarity**

word vector token.vector Doc similarity doc1.similarity(d-Span similaspan1.similarity(-

rity span2)

Token similatoken1.similarityrity (token2)

Doc-Token doc.similarity(tosimilarity

return a similarity score 0~1 NOT for small model cosine similarity by default

### **Pipeline**



nlp.pipe\_names nlp.pipeline

### Add pipeline component

def fn(doc): # function body return doc nlp.add\_pipe(fn, last, first, before, after)

### Set custom attributes

doc.\_.ATTR = "ATTRIBUTE metadata NAME"

register Doc.set\_extension("ATglobally TR", default=None)

set to doc, tokens, spans access property via .\_

### **Extension attribute types**

Token.set\_extension("-ATTR", defaut=Bool) Span.set\_extension("Pproperty ROP", getter=fn) method Doc.set\_extension("ME-THOD", method=fn)

#### **Boost up**

nlp.pipe(DATA)

### Passing in context

```
data = [ ("SOME TEXTS", {"KEY":
"VAL"}), (...), ]
# Method 1
for doc, ctx in nlp.pipe(data,
as_tuple=True):
    print( doc.ATTR, ctx[KEY] )
# Method 2
Doc.set_extension("KEY", defaul-
t=None)
for doc, ctx in nlp.pipe(data,
as_tuples=True):
    doc._.KEY = ctx["KEY"]
```

### Using tokenizer only

```
# Method 1
doc = nlp.make_doc("SOME TEXTS")
# Method 2
with nlp.disable_pipes("tag-
ger", "parser"):
   doc = nlp(text)
```



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