



## STATISTICAL MODELS DOWNLOAD STATISTICAL MODELS Predict part-of-speech tags, dependency labels, named entities and more. See here for available models. \$ python -m spacy download en\_core\_web\_sm CHECK THAT YOUR INSTALLED MODELS ARE UP TO DATE \$ python -m spacy validate LOADING STATISTICAL MODELS import spacy # Load the installed model "en\_core\_web\_sm" nlp = spacy.load("en\_core\_web\_sm")

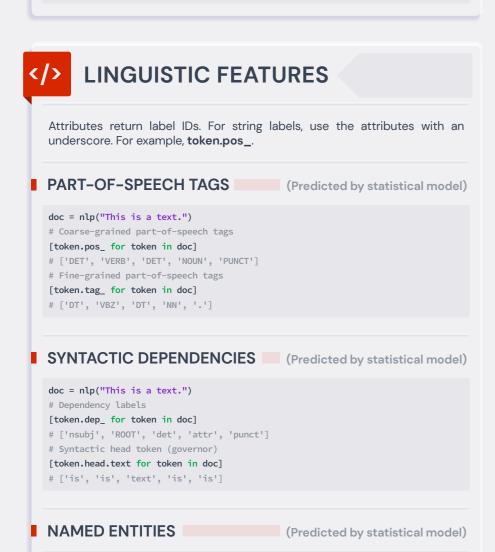
## PROCESSING TEXT Processing text with the nlp object returns a Doc object that holds all information about the tokens, their linguistic features and their relationships. doc = nlp("This is a text") ACCESSING TOKEN ATTRIBUTES doc = nlp("This is a text") # Token texts [token.text for token in doc] # ['This', 'is', 'a', 'text']



**SPANS** 

span.text

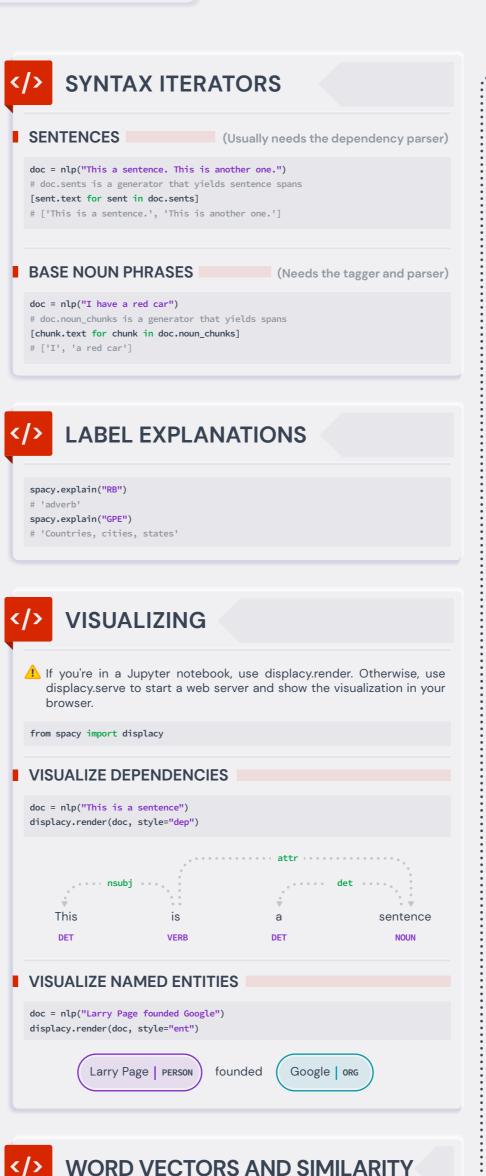
# 'New York'

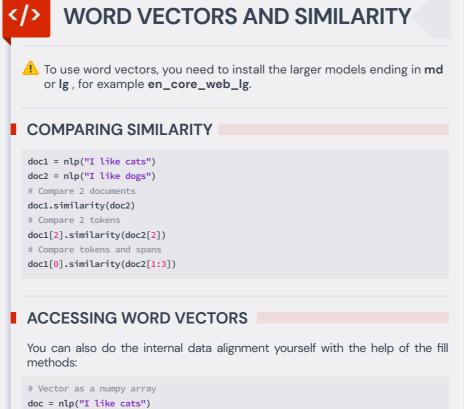


doc = nlp("Larry Page founded Google")

# [('Larry Page', 'PERSON'), ('Google', 'ORG')]

# Text and label of named entity span
[(ent.text, ent.label\_) for ent in doc.ents]

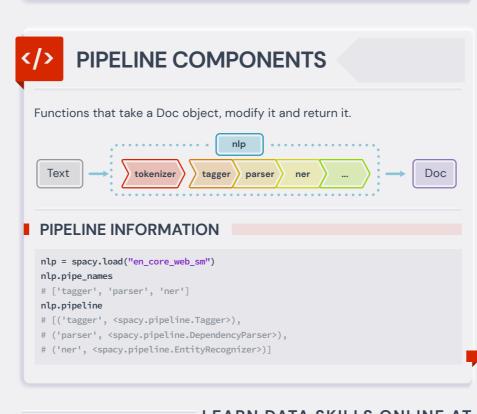




# The L2 norm of the token's vector

doc[2].vector

doc[2].vector\_norm



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