NLP Basics: Learning how to use regular expressions

▼ Using regular expressions in Python

Python's re package is the most commonly used regex resource. More details can be found here.

```
import re

re_test = 'This is a made up string to test 2 different regex methods'

re_test_messy = 'This is a made up string to test 2 different regex methods'

re_test_messy1 = 'This-is-a-made/up.string*to>>>>test----2"""""different~regex-methods'
```

Splitting a sentence into a list of words

```
٠٠,
      'is',
      'a',
      'made',
      'up',
      ٠٠,
      ٠٠,
      'string',
      'to',
      'test',
      '2',
      'different',
      'regex',
      'methods']
re.split('\s+', re_test_messy)
     ['This',
      'is',
      'a',
      'made',
      'up',
      'string',
      'to',
      'test',
      '2',
      'different',
      'regex',
      'methods']
re.split('\s+', re_test_messy1)
     ['This-is-a-made/up.string*to>>>>test----2"""""different~regex-methods']
re.split('\W+', re_test_messy1)
     ['This',
      'is',
      'a',
```

```
'made',
      'up',
      'string',
      'to',
      'test',
      '2',
      'different',
      'regex',
      'methods']
re.findall('\S+', re_test)
     ['This',
      'is',
      'a',
      'made',
      'up',
      'string',
      'to',
      'test',
      '2',
      'different',
      'regex',
      'methods']
re.findall('\S+', re_test_messy)
     ['This',
      'is',
      'a',
      'made',
      'up',
      'string',
      'to',
      'test',
      '2',
      'different',
      'regex',
      'methods']
re.findall('\S+', re_test_messy1)
     ['This-is-a-made/up.string*to>>>>test----2"""""different~regex-methods']
```

```
re.findall('\w+', re_test_messy1)

['This',
    'is',
    'a',
    'made',
    'up',
    'string',
    'to',
    'test',
    '2',
    'different',
    'regex',
    'methods']
```

▼ Replacing a specific string

```
pep8_test = 'I try to follow PEP8 guidelines'
pep7_test = 'I try to follow PEP7 guidelines'
peep8_test = 'I try to follow PEEP8 guidelines'
import re
re.findall('[a-z]+', pep8_test)
     ['try', 'to', 'follow', 'guidelines']
re.findall('[A-Z]+', pep8_test)
     ['I', 'PEP']
re.findall('[A-Z]+[0-9]+', peep8_test)
     ['PEEP8']
re.sub('[A-Z]+[0-9]+', 'PEP8 Python Styleguide', peep8_test)
     'I try to follow PEP8 Python Styleguide guidelines'
```

Other examples of regex methods

- re.search()
- re.match()
- re.fullmatch()
- re.finditer()
- re.escape()

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