Working With Text

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You are currently looking at **version 1.0** of this notebook. To download notebooks and datafiles, as well as get help on Jupyter notebooks in the Coursera platform, visit the Jupyter Notebook FAQ course resource.

1 Working With Text

```
In [ ]: text1 = "Ethics are built right into the ideals and objectives of the United Nations"
        len(text1) # The length of text1
In [ ]: text2 = text1.split(' ') # Return a list of the words in text2, separating by ' '.
        len(text2)
In [ ]: text2
  List comprehension allows us to find specific words:
In []: [w for w in text2 if len(w) > 3] # Words that are greater than 3 letters long in text2
In []: [w for w in text2 if w.istitle()] # Capitalized words in text2
In [ ]: [w for w in text2 if w.endswith('s')] # Words in text2 that end in 's'
  We can find unique words using set().
In [ ]: text3 = 'To be or not to be'
        text4 = text3.split(' ')
        len(text4)
In []: len(set(text4))
In []: set(text4)
In [ ]: len(set([w.lower() for w in text4])) # .lower converts the string to lowercase.
In [ ]: set([w.lower() for w in text4])
```

1.0.1 Processing free-text

```
In [ ]: text5 = '"Ethics are built right into the ideals and objectives of the United Nations" \
        #UNSG @ NY Society for Ethical Culture bit.ly/2guVelr'
        text6 = text5.split(' ')
        text6
   Finding hastags:
In [ ]: [w for w in text6 if w.startswith('#')]
   Finding callouts:
In [ ]: [w for w in text6 if w.startswith('0')]
In [ ]: text7 = 'QUN QUN_Women "Ethics are built right into the ideals and objectives of the Uni
        #UNSG @ NY Society for Ethical Culture bit.ly/2guVelr'
        text8 = text7.split(' ')
   We can use regular expressions to help us with more complex parsing.
  For example '@[A-Za-z0-9_]+' will return all words that: * start with '@' and are followed
by at least one: * capital letter ('A-Z') * lowercase letter ('a-z') * number ('0-9') * or underscore
('_')
In [ ]: import re # import re - a module that provides support for regular expressions
        [w for w in text8 if re.search('0[A-Za-z0-9_]+', w)]
```