```
In [ ]: |.
        .
\d
                - Any Character Except New Line
                - Digit (0-9)
                - Not a Digit (0-9)
        \D
        \W
                - Word Character (a-z, A-Z, 0-9, _)
        \W
                - Not a Word Character
        \s

    Whitespace (space, tab, newline)

        \S
                - Not Whitespace (space, tab, newline)
        \b
                - Word Boundary
        \B
                - Not a Word Boundary
                - Beginning of a String
                - End of a String
                - Matches Characters in brackets
                - Matches Characters NOT in brackets
                - Either Or
        ( )
               - Group
        Quantifiers:
               - 0 or More
                - 1 or More
                - 0 or One
        {3}
               - Exact Number
        {3,4} - Range of Numbers (Minimum, Maximum)
        #### Sample Regexs ####
        [a-zA-Z0-9.+-]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-.]+
```

```
In [24]: import re
          text_to_search = '''
          abcdefghijklmnopqurtuvwxyz
          ABCDEFGHIJKLMNOPQRSTUVWXYZ
         1234567890
         На НаНа
          MetaCharacters (Need to be escaped):
          . ^ $ * + ? { } [ ] \ | ( )
          coreyms.com
         321-555-4321
         123.555.1234
          350*555*1234
         800.555.1234
         900.555.1234
         Mr. Schafer
         Mr Smith
         Ms Davis
         Mrs. Robinson
         Mr. T
         cat
         bat
         pat
         mat
          sentence = 'Start a sentence and then bring it to an end'
In [3]: print('\tTab')
                 Tab
 In [4]: print(r'\tTab') #raw strings
         \tTab
 In [5]: pattern = re.compile(r'abc')
         matches = pattern.finditer(text_to_search)
         for match in matches:
              print(match)
         <re.Match object; span=(1, 4), match='abc'>
 In [6]: print(text_to_search[1:4])
         abc
```

```
In [7]: pattern = re.compile(r'coreyms\.com') #\. if there is . in sentence
         matches = pattern.finditer(text_to_search)
         for match in matches:
             print(match)
         <re.Match object; span=(142, 153), match='coreyms.com'>
In [9]: pattern = re.compile(r'\BHa') #ha without space
         matches = pattern.finditer(text to search)
         for match in matches:
             print(match)
         <re.Match object; span=(72, 74), match='Ha'>
In [10]: pattern = re.compile(r'^Start') #ha without space
         matches = pattern.finditer(sentence)
         for match in matches:
             print(match)
         <re.Match object; span=(0, 5), match='Start'>
In [11]: | pattern = re.compile(r'end$') #ha without space
         matches = pattern.finditer(sentence)
         for match in matches:
             print(match)
         <re.Match object; span=(41, 44), match='end'>
In [12]: pattern = re.compile(r'\d\d\d.\d\d\d\d\d\d\d\d') #search phone number
         matches = pattern.finditer(text_to_search)
         for match in matches:
             print(match)
         <re.Match object; span=(155, 166), match='321-555-432'>
         <re.Match object; span=(168, 179), match='123.555.123'>
```

New

In [16]: print(contents)

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```
In [17]: matches = pattern.finditer(contents)

for match in matches:
    print(match)
```

```
<re.Match object; span=(12, 23), match='615-555-716'>
<re.Match object; span=(102, 113), match='800-555-566'>
<re.Match object; span=(191, 202), match='560-555-515'>
<re.Match object; span=(281, 292), match='900-555-934'>
<re.Match object; span=(378, 389), match='714-555-740'>
<re.Match object; span=(467, 478), match='800-555-677'>
<re.Match object; span=(557, 568), match='783-555-479'>
<re.Match object; span=(647, 658), match='516-555-461'>
<re.Match object; span=(740, 751), match='127-555-186'>
<re.Match object; span=(829, 840), match='608-555-493'>
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<re.Match object; span=(3535, 3546), match='143-555-929'>
<re.Match object; span=(3624, 3635), match='903-555-987'>
<re.Match object; span=(3714, 3725), match='574-555-319'>
<re.Match object; span=(3802, 3813), match='496-555-753'>
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<re.Match object; span=(3971, 3982), match='900-555-959'>
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<re.Match object; span=(4945, 4956), match='800-555-242'>
```

```
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         <re.Match object; span=(6011, 6022), match='317-555-670'>
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         <re.Match object; span=(6803, 6814), match='332-555-544'>
         <re.Match object; span=(6889, 6900), match='900-555-775'>
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         <re.Match object; span=(8564, 8575), match='178-555-489'>
         <re.Match object; span=(8648, 8659), match='952-555-308'>
         <re.Match object; span=(8741, 8752), match='900-555-642'>
In [21]:
         pattern = re.compile(r'\d\d\d[-.]\d\d\d[-.]\d\d\d') #character search
         matches = pattern.finditer(text to search)
         for match in matches:
             print(match)
         <re.Match object; span=(155, 166), match='321-555-432'>
         <re.Match object; span=(168, 179), match='123.555.123'>
```

```
In [23]: | pattern = re.compile(r'[89]00[-.]\d\d\d[-.]\d\d\d') #character search
         matches = pattern.finditer(text_to_search)
         for match in matches:
             print(match)
         <re.Match object; span=(194, 205), match='800.555.123'>
         <re.Match object; span=(207, 218), match='900.555.123'>
In [ ]: #[^a-zA-Z] ^ negate and - for range
In [25]: | pattern = re.compile(r'[^b]at') #character search
         matches = pattern.finditer(text to search)
         for match in matches:
             print(match)
         <re.Match object; span=(272, 275), match='cat'>
         <re.Match object; span=(280, 283), match='pat'>
         <re.Match object; span=(284, 287), match='mat'>
In [27]: #Quantifiers
         pattern = re.compile(r'\d{3}.\d{4}') #character search
         matches = pattern.finditer(text to search)
         for match in matches:
             print(match)
         <re.Match object; span=(155, 167), match='321-555-4321'>
         <re.Match object; span=(168, 180), match='123.555.1234'>
         <re.Match object; span=(181, 193), match='350*555*1234'>
         <re.Match object; span=(194, 206), match='800.555.1234'>
         <re.Match object; span=(207, 219), match='900.555.1234'>
In [30]: #Quantifiers
         pattern = re.compile(r'M(r|s|rs)).?\s[A-Z]\w*') #character search (| or) (?0 o
         r more after alpha) \s space \w* 0 or more words after word
         matches = pattern.finditer(text to search)
         for match in matches:
             print(match)
         <re.Match object; span=(221, 232), match='Mr. Schafer'>
         <re.Match object; span=(233, 241), match='Mr Smith'>
         <re.Match object; span=(242, 250), match='Ms Davis'>
         <re.Match object; span=(251, 264), match='Mrs. Robinson'>
         <re.Match object; span=(265, 270), match='Mr. T'>
```

```
emails = '''
In [31]:
         CoreyMSchafer@gmail.com
         corey.schafer@university.edu
         corey-321-schafer@my-work.net
         pattern = re.compile(r'[a-zA-Z0-9 .+-]+@[a-zA-Z0-9-]+\.[a-zA-Z0-9-.]+') #
In [36]:
         (r'[a-zA-Z0-9.-]+@[a-zA-Z-]+\.(com/edu/net)')
         matches = pattern.finditer(emails)
         for match in matches:
             print(match)
         <re.Match object; span=(1, 24), match='CoreyMSchafer@gmail.com'>
         <re.Match object; span=(25, 53), match='corey.schafer@university.edu'>
         <re.Match object; span=(54, 83), match='corey-321-schafer@my-work.net'>
In [37]: | urls = '''
         https://www.google.com
         http://coreyms.com
         https://youtube.com
         https://www.nasa.gov
In [41]: pattern = re.compile(r'https?://(www\.)?(\w+)'\) #?0 or s()group ? \w w
         matches = pattern.finditer(urls)
         for match in matches:
             print(match.group(2)) #() is group
         google
         coreyms
         youtube
         nasa
In [43]:
         pattern = re.compile(r'https?://(www\.)?(\w+)') #?0 or s()group ? \w w
         ord
         subbed_urls = pattern.sub(r'\2\3',urls) #substitution
         print(subbed_urls)
         google.com
         coreyms.com
         youtube.com
         nasa.gov
```

```
In [44]: | #findall
         pattern = re.compile(r'\d{3}.\d{4}') #character search
         matches = pattern.findall(text_to_search)
         for match in matches:
             print(match)
         321-555-4321
         123.555.1234
         350*555*1234
         800.555.1234
         900.555.1234
In [47]:
         #match
         sentence = 'Start a sentence and then bring it to an end'
         pattern = re.compile(r'Start')
         matches = pattern.match(sentence) #match finds only first character
         print(matches)
         <re.Match object; span=(0, 5), match='Start'>
In [46]: #search
         sentence = 'Start a sentence and then bring it to an end'
         pattern = re.compile(r'bring')
         matches = pattern.search(sentence)
         print(matches)
         <re.Match object; span=(26, 31), match='bring'>
In [50]:
         #FLags
         #Ignore case flag
         sentence = 'Start a sentence and then bring it to an end'
         pattern = re.compile(r'start', re.I) #/IGNORECASE
         matches = pattern.search(sentence)
         print(matches)
         <re.Match object; span=(0, 5), match='Start'>
In [ ]:
```