## 

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     Sandeep Suryaprasad cleanup
                                     Latest commit b4042cb 5 days ago (1) History
 ৪২ 0 contributors
 605 lines (495 sloc) 24.7 KB
                                                   Raw
                                                         Blame
   1
       import re
   2
       # ======= Characters ==========
       # . - Matches any character except new line
   3
   4
       \# \setminus . - Mathes a dot.
       # \\ - Matches backslash
   5
       # \* - Matches astrick
   6
       # ======= Character set ==========
   7
       # [abcd] - any character which matches either 'a' or 'b' or 'c' or 'd'
       # [^abcd] - any character but not 'a' or 'b' or 'c' or 'd'
   9
       # [a-z] - any character between 'a' through 'z'
  10
       # ====== Special Sequences =========
  11
       # \w - Word character. Same as [a-zA-Z0-9_]. Matches alphanumeric and undersc
  12
       # \W - Non-Word Character. Same as [^a-zA-Z0-9_]. Matches anything but word c
  13
       \# \d - Matches a digit. Same as [0-9]
  14
       # \D - Matches a Non-Digit. Same as [^0-9]
  15
       # \s - Matches only whitespace.
  16
       # \S - Matches only Non-Whitespace.
  17
       # ====== Anchors ===========
  18
       # ^ - Start of String
  19
  20
       # $ - End of String
       \# \b - Word boudary [a-zA-Z0-9]
  21
       # \B - Not a word Boundry
  22
       # [ ] - Matches characters in square brackets
  23
       # [^ ] - Matches characters Not in square brackets
  24
  25
  26
       # Meta Characters that needs to be Escaped
  27
       # . ^ $ * + ? { } [ ] \ | ( )
```

```
28
29
    # Quantifiers
    0.00
30
    1. The standard quantifiers (?, +, *, and {min,max}) are greedy.
31
    2. When one of these governs a subexpression, such as a?, (expr )+, [0-9]+,
32
33
       there is a minimum number of matches that are required before it can be co
34
       attempt it will ever attempt to match,
35
    3. They always attempt to match as many times as they can, up to that maximum
36
    4. The only time they settle for anything less than their maximum allowed is
37
       ends up causing some later part of the regex to fail.
    5. plus, question mark and star are called quantifiers, because they influence
38
39
40
    # * - Match expression 0 or more times
41
    # + - Match expression 1 or more times
    # ? - Match expression 0 or 1 times
42
    # {min, max} - Matches expression exactly 3 times
43
44
45
    # ====== Grouping ===========
    # ("A"| "B" | "C") - Either "A" or "B" or "C"
46
47
48
    # re.findall() # returns a list of all the matches
49
    # re.sub() # replaces one pattern with other
    # re.finditer() # returns an iterator object
50
    # re.search() # stops at the first match
51
52
    # Word Boundary (\b)
53
    # "start of word" boudary is simply the position where a sequence of alphanum
54
55
    # "end of word" is the position where a sequence of alphanumeric characters e
    # -----
56
    # Rule: The Match That Begins Earliest (from left to right) Wins
57
    # -----
58
59
    re.findall(r"the", "the theory of relativity")
60
    re.findall(r"cat", "The dragging belly indicates your cat is too fat")
61
62
    re.findall(r'python', 'python and java are object oriented')
63
64
    re.findall(r'aeiou', 'hello how are you doing anna')
65
66
    re.findall(r'aeiou', 'hello how are you doing anna, aeiou')
67
68
69
    # Character class or set
    # -----
70
71
    # Matches with both "Smith" and "smith"
    re.findall(r'[sS]mith', 'smith')
72
```

```
re.findall(r'[sS]mith', 'Smith')
 73
 74
 75
      # Matches separate or saperate
      re.findall(r's[ea]p[ae]rate', 'seperate')
 76
      re.findall(r's[ea]p[ae]rate', 'saparate')
 77
 78
 79
      # Match any one character in the character set (either a, e, i, o, u)
      re.findall(r'[aeiou]', 'hello how are you doing anna')
 80
 81
 82
      # Match either a, b, c, d
      re.findall(r'[abcd]', 'hello world')
 83
      re.findall(r'[abcd]', 'abcdefghijk')
 84
 85
 86
      # Matching any number between 0-9
      re.findall(r'[0123456789]', 'The cost of the book is Rs.100')
 87
 88
      # Matching HTML headers
 89
 90
     re.findall(r'<h[123456]>', "<h1>")
      re.findall(r'<h[123456]>', "<h2>")
 91
      re.findall(r'<h[123456]>', "<h3>")
 92
      re.findall(r'<h[123456]>', "<h4>")
 93
      re.findall(r'<h[123456]>', "<h5>")
 94
     re.findall(r'<h[123456]>', "<h6>")
 95
      # -----
 96
 97
      # Range "-"
      # -----
 98
 99
      # Matches any number between 0-9
100
      re.findall(r'[0-9]', 'The cost of the book is Rs.100')
101
102
      # Matches only lower case letters
     re.findall(r"[a-z]", 'hello HOW ARE YOU')
103
104
105
      # Matches only upper case letters
      re.findall(r"[A-Z]", 'hello HOW ARE YOU')
106
107
108
      # Matches all upper case and lower case characters
109
      re.findall(r"[a-zA-Z]", 'hello HOW ARE YOU')
110
111
      # Matches any number between 1-6
112
     re.findall(r"<h[1-6]>", "<h1>")
      re.findall(r"<h[1-6]>", "<h2>")
113
      re.findall(r"<h[1-6]>", "<h3>")
114
     re.findall(r"<h[1-6]>", "<h4>")
115
116
     re.findall(r"<h[1-6]>", "<h5>")
117
     re.findall(r"<h[1-6]>", "<h6>")
```

```
118
119
      # Count total number of Upper case and Lower case letters
120
      sentence = "Hello World Welcome To Python"
121
      upper case = re.findall(r'[A-Z]', sentence)
      lower_case = re.findall(r'[a-z]', sentence)
122
123
124
      print(f'Total No of upper case letters {len(upper_case)}')
125
      print(f'Total No of lower case letters {len(lower_case)}')
126
127
      # Write a program to count the number of white spaces in a given string
128
      sentence = "Hello world welcome to Python Hi How are you. Hi how are you"
129
      spaces = re.findall(r' ', sentence)
130
131
      # Write a program to count the number of occurrences of each lower case and {\sf u}
132
      sentence = 'hello@world! welcome!!! Python$ hi how are you & where are you?'
      chrs = re.findall(r'[a-zA-Z]', sentence)
133
      d = {chr: chrs.count(chr) for chr in chrs}
134
135
136
137
      # Meta Character "+" (matches 1 or more occurances of previous expression)
138
      re.findall(r'[0-9]+', 'The cost of the book is Rs.100')
139
140
      re.findall(r'[abcd]+', 'abcdefg hijkab')
141
142
143
      re.findall(r'an+a', 'annnnnnnnnna')
144
145
      # Matches each word in the string
146
      re.findall(r"[a-zA-Z]+", "Hello World Welcome To Python Programming Pyt123on"
147
148
      # Count the characters in each word. Please ignore special characters if ther
149
      sentence = "Hi there! How are you:) How are you doing today!"
150
      words = re.findall(r'[a-zA-Z]+', sentence)
      word_len = { word: len(word) for word in words}
151
152
153
      # Sum all the numbers in the below string.
154
      word = "Pytho12nReg567exp2" \# 1 + 2 + 5 + 6 + 7 + 2
155
156
      numbers = re.findall(r'[0-9]', word)
157
      for number in numbers:
          total += int(number)
158
159
      # Adding 12 + 567 + 2
160
161
      word = "Pytho12nReg567exp2"
162
      total = 0
```

```
163
      numbers = re.findall(r'[0-9]+', word)
164
      for number in numbers:
165
         total += int(number)
166
      # Match file names and extensions
167
168
     message = "Downloading file archive.zip to downloads folder..."
169
      # image.jpeg
     # index.xhtml
170
     # python.py
171
172
     re.findall(r'[a-z]+\.[a-z]+', message)
173
174
      # Meta Character "?" (matches 0 or 1 occurance of previous expression)
175
176
      re.findall(r'colou?r', "what color do you like")
177
      re.findall(r'https?://', 'https://www.google.com')
178
179
180
     re.findall(r'https?://', 'http://www.google.com')
181
182
     re.findall(r'July?', "Jul the 26th day")
183
      re.findall(r'an?a', "ana")
184
185
     re.findall(r'an?a', "anna")
186
187
188
      # Meta Character "*" (matches 0 or more occurances of previous expression)
189
190
      re.findall(r"an*a", "hello ana")
191
192
     re.findall(r"an*a", "hello aa")
193
194
     re.findall(r"an*a", "hello annna")
195
      # Regular Expression for Matching Inbox, Inbox(1), .... Inbox(N)
196
      re.findall(r"Inbox\(?\d*\)?", "Inbox(10)")
197
      re.findall(r"Inbox\(?\d*\)?", "Inbox")
198
     # -----
199
      # Negation "^"
200
      # -----
201
202
      # Matches everything apart from numbers between 0-9
     re.findall(r'[^0-9]', 'The cost of the book is Rs.100')
203
204
      # Matches everything apart from alphabets 'a', 'b', 'c' and 'd'
205
206
     re.findall(r'[^abcd]', 'abcdefg hijkab')
207
```

```
208
      # Matches everything apart from numbers between 0-9
      re.findall(r'[^0-9]+', 'The cost of the book is Rs.100')
209
210
211
     re.findall(r'[^abcd]+', 'abcdefg hijkab')
212
213
      # Match only those characters excepts digits
214
     word = '@hello12world34welcome!123'
215
      re.findall(r'[^0-9]', word)
216
217
      # Count the number of special characters in the below string
218
      sentence = 'hello@world! welcome!!! Python$ hi26 how are you & where are you?
219
      re.findall(r"[^a-zA-Z0-9 \s]", sentence)
220
221
      # Starts with "^" and ends with "$"
222
223
      re.findall(r"^hello", "hello world")
224
225
     re.findall(r"^hello", "world hello")
226
227
      re.findall(r"hello$", "world hello")
228
      re.findall(r"hello$", "hello world")
229
230
     re.findall(r'hello$', 'hello world welcome to python')
231
232
      # Matching the only those lines which ends with "UDP"
233
234
     with open("./data files/sample.log") as f:
235
         for line in f:
236
             match = re.findall(r".*UDP$", line)
              if match:
237
                  print("".join(match))
238
239
240
      # string starts with "hello" and ends with "hello" (meaning exactly one word
      re.findall(r"^hello$", "hello")
241
242
243
      # Phone Number pattern (4DIGITS-3DIGITS)
244
      re.findall(r'\d{3}-\d{4}', '456-9832-098')
245
246
      # matching only 800 and 900 numbers
247
      re.findall(r"^[89]00-\d{3}-\d{4}", '800-123-123')
248
249
      # Word Boundary (\b) The expression should be a word boundry
250
      # (Transition between non-word character to word character or word character
251
252
      # starts with word boundry
```

```
253
      re.findall(r"\bday", "what a beautiful day today is")
254
255
      # ends with word boundry
      re.findall(r"day\b", "what a beautiful day today is")
256
257
258
      # starts and ends with word boundry
259
      re.findall(r"\bday\b", "what a beautiful day today is")
260
      re.findall(r"\b[0-9]{6}\b", 'Pincode of Bangalore is 560001 and the number is
261
262
263
      # Regular expression which matches words that starts with "h"
264
      re.findall(r"\bh[a-zA-Z0-9]+", 'hello world hi hello universe how are you ha
265
266
      # Regular expression which matches words that starts with "P or J"
      re.findall(r"\b[PJ][a-zA-Z0-9_]+", 'Python is a programming language. Python
267
268
269
      # Regular expression which matches words that ends with "y"
270
      re.findall(r"[a-zA-Z0-9_]+y\b", 'hello world hi hello universe how are you ha
271
272
      # print only those words starting with vowel character
273
      sentence = "hello hi american engieers and indian writers officers united sta
274
      words = re.findall(r"\b[aeiou][a-zA-Z0-9_]+", sentence)
275
276
      # Matches only Capital Letter words
277
      re.findall(r"\b[A-Z]+\b", "This is PYTHON programming LANGUAGE and REGEX")
278
279
      # Matches only lower case words
280
      re.findall(r"\b[a-z]+\b", "This is PYTHON programming LANGUAGE and REGEX")
281
282
      # Matching only pdf files
283
      re.findall(r"[a-zA-Z0-9]+\.pdf\b", "downloading apple.pdf to downloads folder
284
285
      # Regular expression for matching only 3 letter words in the given string
286
      sentence = "hello hi how are you what is your name he is older than me how ol
      re.findall(r'\b[a-zA-Z0-9_]{3}\b', sentence)
287
      # o/p ['how', 'are', 'you', 'how', 'old', 'are', 'you']
288
289
290
      # Extract only 4 digit numbers from the string
291
      re.findall(r"\b\d{4}\b", "Copyright 1998. All rights reserved")
292
293
      # Regular expression for matching the words which starts with "he"
294
      sentence = "he helps the community and he is the hero of the day"
      re.findall(r"\bhe[a-zA-Z0-9_]*", sentence)
295
296
297
      # Regular expression for matching the words which either starts with "he" or
```

```
298
      sentence = "he helps the community and he is the hero of the day she sells se
      re.findall(r"\b(?:he|se)[a-zA-Z0-9_]*", sentence)
299
300
      # Regular Expression - PAN Number
301
302
      sentence = "my pan number is ABCDE1234X and the other number is XYZTR3104J id
303
      re.findall(r'\b[A-Z]{5}[0-9]{4}[A-Z]\b', sentence)
304
305
      # Different Combintations
      line = "03/22 08:51:06 WARNING :.....mailslot_create: setsockopt(MCAST_ADD) f
306
307
      re.findall(r"[A-Z]+", line)
308
      re.findall(r"\b[A-Z]+", line)
      re.findall(r"[A-Z]+\b", line)
309
310
      re.findall(r"\b[A-Z]+\b", line)
311
312
      # Matches all digits
      re.findall(r"\d", "654 this string is starting with 12 and ending with number
313
314
315
      # Matches whole numbers
316
      re.findall(r"\d+", "654 this string is starting with 12 and ending with numbe
317
318
      # Matches only 3 Digit numbers
319
      re.findall(r"\d{3}", "654 this string is starting with 12 and ending with num
320
      # Matches all digit numbers
321
322
      re.findall(r"\b\d{3}\b", "654 this string is starting with 12 and ending with
323
324
      # Matches the string that ends with 3 digit number
325
      re.findall(r"\b\d{3}\b$", "4632746327 this string is ending with 235")
326
327
      # Matches the string that starts with 3 digit number
      re.findall(r"^\b\d{3}\b", "654 this string is starting with and ending with n
328
329
330
      # Count the number of white spaces in the file
331
      def count_spaces():
332
         with open('./data_files/sample.log') as f:
333
              white spaces = 0
             for line in f:
334
335
                  count = len(re.findall(r"\s", line))
336
                  white_spaces += count
337
         return white_spaces
338
      # Count the number of Capital Letter words in the file
339
340
      def count_caps():
341
         with open('./data_files/sample.log') as f:
342
              capital_words = 0
```

```
for line in f:
343
344
                  count = len(re.findall(r"\b[A-Z]+\b", line))
345
                  capital words += count
346
          return capital_words
347
      # Count the number of Capital Letters in the file
348
349
      def count cap letters():
          with open('./data_files/sample.log') as f:
350
              capital_letters = 0
351
352
              for line in f:
353
                  count = len(re.findall(r"[A-Z]", line))
354
                  capital letters += count
355
         return capital_letters
356
      # Count the number of INFO, TRACE, WARNING, EVENT messages in the file
357
      def count_messages(message_name):
358
359
          with open('./data_files/sample.log') as f:
360
              message_count = 0
361
              for line in f:
362
                  count = len(re.findall(message_name, line))
363
                  message count += count
364
          return message_count
365
366
      def get_all_ip():
367
          """Extract all the ip addresses in the sample log file"""
368
          ips = []
          with open('./data files/sample.log') as f:
369
370
              for line in f:
371
                  ip = re.findall(r'\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}', line)
372
                  if ip:
373
                      for item in ip:
374
                          ips.append(item)
375
          return ips
376
377
      def count words():
          """Counts the number of words in the file"""
378
379
          word_count = 0
380
          with open('./data files/sample.log') as f:
381
              for line in f:
382
                  words = re.findall(r"\b[A-Za-z]+\b", line)
383
                  word_count += len(words)
384
          return word count
385
386
      def count total letters():
387
          """Counts number of lowecase and upper case characters in the file"""
```

```
388
          with open('./data files/sample.log') as f:
389
              total_letters = 0
390
              for line in f:
391
                  count = len(re.findall(r"[a-zA-Z]", line))
392
                  total_letters += count
393
          return total letters
394
395
      def get_log_lines():
          """Prints only those log lines which are logged in the year 98"""
396
397
          with open("../data_files/sample.log") as f:
398
              for line in f:
399
                  matches = findall(r"(?:0[1-9]|1[0-2])/98", line)
400
                  if matches:
401
                      print(line, end="")
402
403
      def regex strip(line):
          """Strips leading and trailing whitespaces and returns a new string"""
404
405
          stripped_line = sub(r"(^\s*|\s*$)", "", line)
406
          return stripped_line
407
      def count_leading_trailing_spaces(line):
408
409
          """Returns a tuple of leading and trailing whitespaces"""
          leading spaces = findall(r"\s+\$", line)
410
          trailing_spaces = findall(r"^\s+",line)
411
412
          # join the list
413
          count_leading_spaces = len("".join(leading_spaces))
414
          count_trailing_spaces = len("".join(trailing_spaces))
415
          return (count_leading_spaces, count_trailing_spaces)
416
      # Flitering only floating point values from file
417
      with open("./data_files/points.txt") as f:
418
          floats = []
419
420
          for line in f:
421
              match = re.findall(r''-?[0-9]+\.[0-9]+", line)
422
              # match = re.findall(r"-?[0-9]+\.[0-9]{3}", line) # matches 3 digits
              for item in match:
423
424
                 floats.append(item)
425
426
      # Groups ( )
427
      # Matches either "python" or "java"
428
429
      re.findall('(python|java)', 'python and java are object oriented')
430
431
      # Matches 09:00 am/pm or 9:00 am/pm
432
      sentence = 'The meeting is between 9:00 am and 12:30 pm'
```

```
433
      re.findall(r'[0-9]?[0-9]:[0-9][0-9] \setminus s(?:am|pm)', sentence)
434
435
      # Regular Expression - YYYY-MM-DD date format
436
      dates = ['2019-01-02', '2019-13-02', '2019-12-26', '26-08-2019', '20-19-20',
      re.findall(r'\d{4}-(?:0[1-9]|[12][0-9]|3[01])-(?:0[1-9]|[12][0-9]|3[01])', '2'
437
438
439
      # Regular Expression - 24hr time format
      _formats = ['00:00:00', '23:59:59', '24:00:00', '1:59:20', '12:9:10', '10:20:
440
441
      re.findall(r"(?:[01]\d|2[0-3]):[0-5]\d:[0-5]\d",'23:59:59')
442
443
      # Replacing patterns
444
      # -----
445
      # Replace whitespaces with newline character in the below string
446
      sentence = "Hello world welcome to python"
      words = re.sub(r'\s', '\n', sentence)
447
      print(words)
448
449
450
      # Replace all vowels with "*"
451
      sentence = "hello world welcome to python"
452
      words = re.sub(r'[aeiou]', '*', sentence)
453
      print(words)
454
      # Replace all occurances of digits with "*"
455
      sentence = 'hello123world welcome456to python012'
456
457
      words = re.sub(r'\d', '*', sentence)
458
      # Replace all occurances of special characters with "*"
459
460
      sentence = 'hello#$%world welcome@!#$%to python*&^%'
      words = re.sub(r'[^a-zA-Z\s]', "*", sentence)
461
462
463
      # Replace "And" with "&"
464
      sentence = "Java and Python are programming languages"
465
      _sentence = re.sub(r"\sAnd\s", " & ", sentence)
466
467
      # Replace all occurances of "Java" with "Python" in a file
      with open('java.txt', 'r') as jf:
468
469
         with open('python.txt', 'a') as pf:
470
              for line in if:
471
                  new_line = re.sub('Java', 'Python', line)
472
                  pf.write(new_line)
473
      # re.finditer()
474
      # -----
475
476
      matches = re.finditer(r"hello", 'hello world welcome to python hello world')
477
      for match in matches:
```

```
478
          print(match.group())
479
480
      # Write a program to find the index of nth occurrence of a sub-string in a st
481
      sentence = "hello world welcome to python hello hi how are you hello there"
      matches = re.finditer(r'hello', sentence)
482
483
      positions = [ (match.start(), match.end()) for match in matches]
484
485
486
      # re.search()
      # -----
487
488
      match = re.search(r"hello", 'hello world hello world')
489
      print(match.group())
490
491
492
      # dot "." matches with everything
493
      re.findall(r'.', "hello world")
494
495
496
      re.findall(r'h.', "hello")
497
498
      re.findall(r'h.', "hello world hi how how are you")
499
      re.findall(r'a.b', "acb")
500
501
502
     re.findall(r'a.b', "a b")
503
      re.findall(r'a.b', "ab")
504
505
      re.findall(r'a.b', "a*b a?b")
506
507
508
      re.findall(r'a.b', "abcde")
509
510
     re.findall(r'a.a', "ana")
511
512
      re.findall(r'a..a', "anna")
513
514
      re.findall(r'a.*a', "annnnnna")
515
516
      re.findall(r'a.*a', 'aa')
517
      re.findall(r"^a.*a$", "anna")
518
519
      re.findall(r"^a.*a$", "hello anna")
520
521
522
      re.findall(r'a.*a', 'abcad')
```

```
523
524
      re.findall(r'a.*a$', 'abcad')
525
526
     re.findall(r'a.*a$', 'abcada')
527
528
      re.findall(r'a.+a', 'ana')
529
530
      re.findall(r'a.+a', 'aa')
531
                        ----- Back-referencing -----
532
      0.00
533
534
      1. Back-referencing is a regular-expression feature which allows you to match
535
      matched earlier in the expression without specifically knowing the text when
536
      2. Back-references provide a convenient way to identify a repeated character
      For example, if the input string contains multiple occurrences of an arbitrar
537
      first occurrence with a capturing group, and then use a backreference to matc
538
539
      3. \1 will try to match what ever is matched in the first bracket
      0.000
540
541
      # Repeated word sequences
542
      m = re.findall(r"(world)\1", "thethe python hello worldworld the")
543
544
      # Repeated words
      m = re.findall(r"([a-z]+\s))1", "the the python hello world world the")
545
546
547
      # Repeated words for 2 consegutive times
548
      m = re.finditer(r"([a-z]+\s))1{2}", "the the python hello world world the the
549
550
      # Repeated characters
551
      m = re.findall(r"([a-z])\1", "hello hurry programming")
552
553
      # Repeated numbers
554
      n = re.findall(r"([0-9])\1", "hello 123345, welcome to 001 98799")
555
556
      # Repeated numbers pattern
557
      n = re.findall(r"([0-9]+\s)\1", "hello 12345 12345 , welcome to 001 98799")
558
559
      n = re.findall(r"([0-9])+", "hello 1234512345 , welcome to 00198799")
560
561
      # finding the words that are repeated at the beginning and at the end of the
562
      sentence = "hello world welcome to regex hello"
      re.findall(r"^([a-z]+).*\1$", sentence)
563
564
      # Regular Expression - IP Addresses
565
566
567
      id_address_format = '\d{1,3}\.\d{1,3}\.\d{1,3}\.\d{1,3}'
```

```
ips = ['10.1.2.3', '127.0.0.0', '199.99.9.9', '199.9.9999.9', '127-0-0-0']
568
569
570
     # Regular Expression - Email format
571
572
     email_pattern = r'[\w-]+\.?[\w-]@[\w]+\.(com|edu|in|gov)'
573
     emails = ['test.user@company.com',
574
               'test.user2@company.com',
               'test_user@company.com',
575
576
               'testing@company.com',
577
               'test-T.user@company.com',
578
               'testing@company',
579
               'testingcompany.com'
580
581
     # Regular Expression - URL Pattern
582
583
     url_pattern = r'https?://[\w.]+'
584
     urls = ['http://www.youtube.com',
585
             'https://www.google.com',
             'http://www.amazon.in',
586
587
             'https://www.mail.yahoo.com',
             'ftp://test.com'
588
             'https://www.facebook.com/'
589
590
591
592
     # -----
593
     # ----- LookAhead and LookBehind Anchors ----
594
595
             # Under development ...
596
597
     # Misc
598
     # -----
599
     # Finding the all the links in a html document using regex
600
     from requests import request
     response = request("GET", "http://demowebshop.tricentis.com/")
601
602
     html code = response.text
     links = re.findall(r"\s*<a\s.+", html code)</pre>
603
     links = [ link.strip() for link in links ]
604
605
```