Cheatography

PYTHON REGULAR EXPRESSION CHEATSHEET Cheat Sheet

by sahusourabh via cheatography.com/156407/cs/33247/

What you want do with regular expression?

| Regular | Regular | It also helps in |
|------------|---------|--------------------|
| expres- | expres- | finding out the |
| sions can | sions | correctness of the |
| be used to | are | data and even |
| check if a | used to | operations such as |
| string | remove | finding, replacing |
| contains | the | and formatting the |
| the | unnece | data is possible |
| specified | ssary | using Regular |
| search | words | Expressions |
| pattern. | | |

| Group/Ranges | | |
|--|-------------------------------|--|
| | any single character | |
| (a b) | a or b | |
| [abc] | Range (a or b or c) | |
| [^abc] | Not (a or b or c) | |
| [a-z] | Lower case letter from a to z | |
| [A-Z] Upper case letter from A to Z | Upper case letter from A to Z | |
| [0-10] | Digit from 0 to10 | |
| | | |

Escape Sequences

\x

| \ | Escape following character |
|----|----------------------------|
| \Q | Begin literal sequence |
| ١F | End literal sequence |

Group/subpattern

number "x"

| Assertions | |
|--|--------------------------|
| ?= | Lookahead assertion |
| ?! | Negative lookahead |
| ?<= | Lookbehind assertion |
| ?!= or ? </td <td>Negative lookbehind</td> | Negative lookbehind |
| ?> | Once-only Subexpression |
| ?() | Condition [if then] |
| ?() | Condition [if then else] |
| ?# | Comment |

USE

| import re | | |
|--|--|--|
| string = """I am Sourabh and my mobile no is 9479864026""" | | |
| regex = '\d+' | | |
| match = re.findall(regex, string) | | |
| print(match) | | |
| | | |

Anchors

- Start of string, or start of line in multiline pattern
- \A Start of string
- \$ End of string, or end of line in multi-line nattern
- \Z End of string
- \b Word boundary
- \B Not word boundary
- \< Start of word
- \> End of word

| Characters | | |
|------------|-------------------|--|
| /c | Control character | |
| \s | White space | |
| \S | Not white space | |
| \d | Digit | |
| \D | Not digit | |
| \w | Word | |
| \VV | Not word | |
| \x | Hexadecimal digit | |
| \O | Octal digit | |

Pattern Modifiers

| g | Global match |
|--------|------------------|
| i * | Case-insensitive |
| m * | Multiple lines |

- s * Treat string as single line
- Allow comments and whitespace in pattern
- e * Evaluate replacement
- U Ungreedy pattern

USE

import re string = 'hello 12 hi 89. Its me 343' pattern = '\d+' result = re.findall(pattern, string) print(result) output#1289343

USE

```
import re
phone = "MY phone is +91-9479--
86-40-26r"
# Remove anything other than
digits
num = re.sub(r'\D', "", phone)
print ("Phone Num : ", num)
```

By sahusourabh

Published 19th July, 2022. Last updated 19th July, 2022. Page 1 of 2. Sponsored by CrosswordCheats.com Learn to solve cryptic crosswords! http://crosswordcheats.com

cheatography.com/sahusourabh/



PYTHON REGULAR EXPRESSION CHEATSHEET Cheat Sheet

by sahusourabh via cheatography.com/156407/cs/33247/

USE (cont)

output Phone num : 9479864026

| Qu | Quantifiers | | |
|----|-------------|-------|--------------|
| * | 0 or more | {5} | exactly 5 |
| + | 1 or more | {5,} | 5 or more |
| ? | 0 or 1 | {1,5} | 1,2,3,4 or 5 |

| Special Characters | | |
|--------------------|---------------------|--|
| \n | New line | |
| \r | Carriage return | |
| \t | Tab | |
| \v | Vertical tab | |
| \f | Form feed | |
| \xxx | Octal character xxx | |
| \xhh | Hex character hh | |

| String Manipulation | | |
|---|-----------------------|--|
| \$` | Before matched string | |
| \$' | After matched string | |
| + | Last matched string | |
| \$& | Entire matched string | |
| import repattern = '^as\$' test_string = | | |
| 'abyss' result = re.match(pattern, test_string) | | |
| if result: print("Search successful.") else: | | |
| print("Search unsuccessful.") | | |

| String Manipulation | | |
|---------------------|-----------------------|--|
| \$` | Before matched string | |
| \$' | After matched string | |
| + | Last matched string | |
| \$& | Entire matched string | |

| posix | | |
|------------|--------------------------------|--|
| [:upper:] | Upper case letters | [A-Z] |
| [:lower:] | lower case letter | [a-z] |
| [:alpha:] | alphabets | [a-zA-Z] |
| [:alnum:] | alphan- umeric | [a-zA-z0-9] |
| [:digit:] | Digits | [0-9] |
| [:xdigit:] | Hexade- cimal | [A-Fa-f0-9] |
| [:punct:] | Punctu- ation | [!"\#\$%&'()*+, \/:;- <=>?@\[\\\]^_'{ }~] |
| [:blank:] | Space and tab | |
| [:space:] | Blank characters | |
| [:cntrl:] | Control characters | |
| [:graph:] | Printed characters | |
| [:print:] | Printed characters and spaces | |
| [:word:] | Digits, letters and underscore | |



By sahusourabh

cheatography.com/sahusourabh/

Published 19th July, 2022. Last updated 19th July, 2022. Page 2 of 2. Sponsored by CrosswordCheats.com Learn to solve cryptic crosswords! http://crosswordcheats.com