## Cheatography

### PYTHON REGULAR EXPRESSION CHEATSHEET Cheat Sheet by sahusourabh via cheatography.com/156407/cs/33247/

What you want do with regular expression?			
Regular	It also helps in		
expres-	finding out the		
sions	correctness of the		
are	data and even		
used to	operations such as		
remove	finding, replacing		
the	and formatting the		
unnece	data is possible		
ssary	using Regular		
words	Expressions		
	Regular expres- sions are used to remove the unnece ssary		

Group/Ranges		
	any single character	
	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	Upper case letter	
letter from A to Z	from A to Z	
[0-10]	Digit from 0 to10	
\x	Group/subpattern	
	number "x"	

Escape Sequences		
١	Escape following character	
\Q	Begin literal sequence	
١E	End literal sequence	

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

- ٨ Start of string, or start of line in multiline pattern
- Start of string ١A
- \$ End of string, or end of line in multi-line pattern
- ١Z End of string
- \b Word boundary
- Not word boundary ١B
- \< Start of word

#### Characters \c Control character White space \s ١S Not white space \d Digit ١D Not digit

\W	vvord
\W	Not word
/x	Hexadecimal digit

\O	Octal digit
----	-------------

14/000

۱...

Patte	Pattern Modifiers		
g	Global match		
i *	Case-insensitive		
m *	Multiple lines		
s *	Treat string as single line		
х *	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 +91-94 -79- 86- 40- 26r " # Remove anything other than digits num = re.sub (r'D', " ", phone) print ("Phone Num : ", num)

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End of word \>

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USE (cont)			
> ol	utput Phone nu	um : 9479	864026
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 \r		New line Carriage return	
\t	Tab	Tab	
\v	Vertica	Vertical tab	
\f	Form f	Form feed	
\xxx	octal o	Octal character xxx	
\xhh	h Hex character hh		

Chains an	Maninulation	
SILIO	Manipulation	

- Sefore matched string
  After matched string
  Last matched string
- \$& Entire matched string

import repattern = '^a...s\$' 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



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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		

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