Python RegEx Cheat Sheet



Expression	Action	Example
		x="Hello world" print(x)
		print(x)
print()	Display the result of a command	output: Hello world
		print(input("what is your name?"))
input()	Collect inputs from users	output: what is your name?
		x="Regular expressions"
		type(x)
type()	Find the type of a variable	output: <class 'str'=""></class>
		len([1, 2, 3])
len()	Find the number of items in a variable	output: 3
	Face and the state of the state	print("I want you to add\"\"")
1	Escape a character that changes the intent of a line of code	output: I want you to add""
	of a line of code	print("This is a line \n This is a
		second line")
		output:
	Break a string character to start on the next	This is a line
\n dof	line	This is a second line
<pre>def function_name(parameter):</pre>	Initiate a function with an optional	def yourName(x):
commands	parameter	print(x+1)
		add_3_to = lambda y: y+3 print(add_3_to(4))
		print(add_3_to(4))
lambda	Call an anonymous function	output: 7
return	Return a result from a function	def yourName(x): return x+1
rotarri	netarii a result iroin a fanotion	class myClass:
class	Create a Python object	def myFunc(x):
definit	Initialize the attrributes of a class	class myClass: definit(self, attributes)
		Rename a file containing a module
	Save a file containing a module so that it's	as:
"initpy	read successfully in another Python file	"initpy
		int(1.234)
int()	Convert a variable to integer	output: 1
()		str(1.234)
otr()	Convert a variable to string	output: 11.22.41
str()	Convert a variable to string	output: '1.234' float(23)
float()	Convert a variable to float	output: 23.0 from collections import Counter
		dict(Counter([1,1,2,1,2,3,3,4]))
dist(Ossert O)	Convert a list or a tupple into a dictionary	
dict(Counter())	after sorting with a Python built-in Counter	output: {1: 3, 2: 2, 3: 2, 4: 1} round(23.445)
	Round up the output of an operation to the	
round()	nearest whole number	output: 23
round(operation or	Round up the output of an operation to a	round(23.4568, 2)
number, decimal places)	specific number of decimal places	output: 23.46
if:	Initiate a conditional statement	if 2<3: print("Two is smaller")
11.	miliale a conditional statement	if 2<3:
		print("Two is smaller")
elif:	Make a counterstatement when the if statement is False	elif 2==3: print("Go on")
Oill.	Statement is I disc	if 2<3:
		print("Two is smaller")
		elif 2==3: print("Go on")
	Make a final counterstatement if other	else:
else:	conditions are False	print("Three is greater")

		a=[1, 4, -10, 6, 8]
		for b in a: if b<=0:
		continue
		print(b)
		output:
		1
	Ignore a condition and execute the rest of	4 6
continue	the loop	8
		a=[1, 4, -10, 6, 8] for b in a:
		if b>=6:
		break print(b)
		print(b)
		output:
	Terminate the flow of a loop with a given	1
break	condition	-10
pass	Ignore a set of prior instructions	for b in a: pass
pace	ignore a cot or prior metractions	try:
		print(a)
		except:
	True block of code clos roice a defined	print("An error occured!")
try, except	Try a block of code, else, raise a defined exception	output: An error occured!
		try:
		print(a)
		except:
		print(d) finally:
		print("You can't print an undefined
		variable")
	Execute a final code when the try and the	output: You can't print an
finally	except blocks fail	undefined variable a=7+2
		if a<10:
raise Exception()	Raise an exception that stops the command when execution isn't possible	raise Exception("Oh! You didn't get a score of 10")
import x	Import a whole module or library	import math
from x import y	Import a library x from a file, or a class y	from scipy.stats import mode
as	Customize an expression to your preferred name	import pandas as pd
as	Hame	x=[1, 4, 6, 7]
		if 5 in x:
		print("There is a five") else:
		print("There is no five")
in	Check if a value is present in a variable	output: There is no five
		x=[1, 4, 6, 7]
	Check if two variables refer to a single	x=b print(x is b)
is	element	True
None	Declare a null value	x=None 5<10
<	Check if one value is lesser than another	output: True 5>10
		3/10
>	Check if one value is more than another	output: False 2*2<=3
	Check if a value is lesser or equal to	2 2 - 3
<=	another	output: False 2*2>=3
	Check if a value is greater or equal to	L L/-3
	another	output: True

	Chook if a value is exactly equal to the	3==4
"==	Check if a value is exactly equal to the other	ouput: False
	Ascertain that a value is not equal to the	3!=4
!=	other	ouput: True import re
import re	Import Python's built-in regular expressions	re.findall("strings", variable)
		import re someText="Hello regular
		expression" a=re.findall("regular Hello",
		someText)
	Check if either of two elements are present	print(a)
a b	in a string	output: ['Hello', 'regular'] import re
		someText="Hello regular
		expression" a=re.findall("expression\$",
		someText)
string\$	Check if a variable ends with a set of strings	output: ['expression']
U	0	import re
		someText="Hello regular expression"
		a=re.findall("^Hello", someText) print(a)
	Check if a variable starts with a set of	
^string	strings	output: ['Hello'] a= "Hello World"
	Check the index position of a string	a.index('H')
string.index()	Check the index position of a string character	output: 0
		a= "Hello World" a.capitalize()
	Capitalize the first character in a set of	•
string.capitalize()	strings	output: 'Hello world' a= "Hello World"
		a.swapcase()
	Print the first letter of each word as a lower	output:
string.swapcase()	case and the others as upper case	'hELLO wORLD' a= "Hello World"
		a.lower()
string.lower()	Convert all the strings to a lowercase	output: 'hello world'
		a= "Hello World" a.upper()
string.upper()	Convert all strings to uppercase	output: 'HELLO WORLD'
string.upper()	Convert an strings to uppercase	a= "Hello World"
	Check if a string starts with a particular	a.startswith('a')
string.startswith()	character	output: False
		a= "Hello World" a.endswith('d')
string.endswith()	Check if a string ends with a particular character	output: True
5g.5()		a= "Hello World"
		a.split()
string.split()	Separate each word into a list	output: ['Hello', 'world'] a=3+4
		print("The answer is {}".format(a))
strings {}'.format()	Display an output as string	output: The answer is 7
		def checknull(a): if a is not None:
		return "its full!"
is not None	Check if the value of a variable is not empty	else: return "its empty!"
		9%4
x%y	Find the remainder (modulus) of a division	output: 1

		9//4
x//y	Find the quotient of a division	output: 2
"=	Assign a value to a variable	a={1:5, 3:4}
		["a two"] + ["a one"]
		output: ['a two', 'a one']
		1+3
		_
"+	Add elements together	output=4
		3-4
п_	Find the difference between a set of	output 1
-	numbers	output=-1 3*4
		3 4
"*	Find the product of a set of numbers	output:12
	This the product of a set of hambers	a=2
		a+=3
	Add x to variable a without assigning its	
a+=x	value to a new variable	output: 5
		a=3
		a-=2
	Subsract x from variable a without	
a-=x	assigning it to a new variable	output: 1
		a=[1, 3, 4]
		a*=2
	Find the product of variable a and x without	
a*=x	assigning the resullt to a new variable	output: [1, 3, 4, 1, 3, 4]
		2**3
X**V	Daiga haga y ta nawar y	output: 0
x***y	Raise base x to power y	output: 8 pow(2, 3)
		pow(2, 3)
now(v, v)	Raise x to the power of y	autout. O
DOWLX VI		OUIDUI. 9
pow(x, y)	Raise x to the power of y	output: 8 abs(-5)
pow(x, y)	· ·	abs(-5)
abs(x)	Convert a negative integer to its absolute value	
	Convert a negative integer to its absolute	abs(-5)
	Convert a negative integer to its absolute value	abs(-5) output: 5
	Convert a negative integer to its absolute	abs(-5) output: 5
abs(x)	Convert a negative integer to its absolute value	abs(-5) output: 5 8**(1/3)
abs(x) x**(1/nth)	Convert a negative integer to its absolute value Find the nth root of a number	abs(-5) output: 5 8**(1/3) output: 2
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abs(x) x**(1/nth)	Convert a negative integer to its absolute value Find the nth root of a number	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2]
abs(x) x**(1/nth)	Convert a negative integer to its absolute value Find the nth root of a number	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3
abs(x) x**(1/nth)	Convert a negative integer to its absolute value Find the nth root of a number	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y)
abs(x) x**(1/nth) a=b=c=d=x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output:
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abs(x) x**(1/nth) a=b=c=d=x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a:
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abs(x) x**(1/nth) a=b=c=d=x x, y = y, x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables Swap variables	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a: print(b, "x", "2", "=", b*2) output: 1 x 2 = 2 3 x 2 = 6 5 x 2 = 10 a=4
abs(x) x**(1/nth) a=b=c=d=x x, y = y, x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables Swap variables	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a: print(b, "x", "2", "=", b*2) output: 1 x 2 = 2 3 x 2 = 6 5 x 2 = 10 a=4 b=2
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abs(x) x**(1/nth) a=b=c=d=x x, y = y, x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables Swap variables	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a: print(b, "x", "2", "=", b*2) output: 1 x 2 = 2 3 x 2 = 6 5 x 2 = 10 a=4 b=2 while b<=a: print(b, "is lesser than", a)
abs(x) x**(1/nth) a=b=c=d=x x, y = y, x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables Swap variables	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a: print(b, "x", "2", "=", b*2) output: 1 x 2 = 2 3 x 2 = 6 5 x 2 = 10 a=4 b=2 while b<=a:
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abs(x) x**(1/nth) a=b=c=d=x x, y = y, x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables Swap variables	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a: print(b, "x", "2", "=", b*2) output: 1 x 2 = 2 3 x 2 = 6 5 x 2 = 10 a=4 b=2 while b<=a: print(b, "is lesser than", a) b+=1 output:
abs(x) x**(1/nth) a=b=c=d=x x, y = y, x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables Swap variables Loop through the elements in a variable	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a: print(b, "x", "2", "=", b*2) output: 1 x 2 = 2 3 x 2 = 6 5 x 2 = 10 a=4 b=2 while b<=a: print(b, "is lesser than", a) b+=1 output: 2 is lesser than 4
abs(x) x**(1/nth) a=b=c=d=x x, y = y, x for	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables Swap variables Loop through the elements in a variable Keep looping through a variable, as far as a	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a: print(b, "x", "2", "=", b*2) output: 1 x 2 = 2 3 x 2 = 6 5 x 2 = 10 a=4 b=2 while b<=a: print(b, "is lesser than", a) b+=1 output: 2 is lesser than 4 3 is lesser than 4
abs(x) x**(1/nth) a=b=c=d=x x, y = y, x	Convert a negative integer to its absolute value Find the nth root of a number Assign the same value to multiple variables Swap variables Loop through the elements in a variable	abs(-5) output: 5 8**(1/3) output: 2 a=b=c=d="Hello world" x = [1, 2] y = 3 x, y = y, x print(x, y) output: 3 [1, 2] a=[1, 3, 5] for b in a: print(b, "x", "2", "=", b*2) output: 1 x 2 = 2 3 x 2 = 6 5 x 2 = 10 a=4 b=2 while b<=a: print(b, "is lesser than", a) b+=1 output: 2 is lesser than 4

		x=range(4) print(x) range(0, 4) for b in x:
		print(b)
		output: 0
	Create a range of positive integers	1 2
range()	Create a range of positive integers between x and y	3
		print(sum([1, 2, 3]))
sum()	Iterate through the elements in a list	output:6
	Return the sum of a list with an added	print(sum([1, 2, 3], 3))
sum(list, start)	element	output: 9
	Make a list of elements	x=['a', 3, 5, 'h', [1, 3, 3], {'d':3}]
0	Create a tuppletupples are immutable	x=(1, 2, 'g', 5)
0	Create a dictionary	a={'x':6, 'y':8} x=[1, 3, 5, 6]
		x[0:2]
x[a:b]	Slice through a list	output: [1, 3]
		a={'x':6, 'y':8} print(a['x'])
		print(a[x])
x[key]	Get the value of a key in dictionary x	output: 6
		x=[1] x.append([1,2,3])
		print(x)
x.append()	Add a list of values to an empty list	output: [1, [1,2,3]]
· · · · · · · · · · · · · · · · · · ·	μ,	x=[1,2]
		x.extend([3,4,6,2]) print(x)
	Add a list of values to continue an existing	print(x)
x.extend()	list without necessarily creating a nested list	output:
x.exteria()	list	[1, 2, 3, 4, 6, 2] x=[1,2,3,5]
		del(x[0:2]) print(x)
	Delete an item completely from a list at a	print(x)
del(x[a:b])	specific index	output: [2,3,5]
		y={1:3, 2:5, 4:6, 8:2} del(y[1], y[8])
		print(y)
del(x[key])	Delete a key and a value completely from a dictionary at a specific index	output= {2:5, 4:6}
ασι(λ[λογ])	alottomary at a opcome mack	a={1:3, 2:4, 5:6}
	Pop out the value of a key and remove it	a.pop(1)
dict.pop()	from a dictionary at a specific index	output: 3
		a={1:2, 4:8, 3:5}
		a.popitem()
		output: (3, 5)
dict.popitem()	Pop out the last item from a dictionary and delete it	print(a) output: {1:2, 4:8}
and approximity		a=[1, 3, 2, 4, 1, 6, 6, 4]
		a.pop(-2)
		output: 6
list.pop()	Pop out a given index from a list and remove it from a list	print(a) output: [1, 3, 2, 4, 1, 6, 4]
		x=[1, 3, 5]
		x.clear() print(x)
clear()	Empty the elements of a list or a dictionary	output: []
		x=[1, 5, 6, 7] x.remove(1)
remove()	Remove an item from a list	output: [5 6 7]
-	Remove an item from a list	output: [5, 6, 7]

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		x=[3, 5, 6] x.insert(1, 4) print(x)
insert()	Insert elements into a Ilist	output: [1, 4, 3, 5, 6]
sort(reverse=condition)	Reverse the direction of the elements in a list	x=[1, 3, 5, 6] x.sort(reverse=True) print(x) output: [6, 5, 3, 1]
sort(reverse=condition)	list	x={1:3, 5:6}
undata()	Update a dictionary by changing its first element and adding any other item to its	x.update({1:4, 8:7, 4:4}) print(x)
update()	end	output: {1: 4, 5: 6, 8: 7, 4: 4} a={1:2, 4:8} a.keys()
keys()	Show all the keys in a dictionary	output: dict_keys([1, 4])
		a={1:2, 4:8} a.values()
values()	Show all the values in a dictionary	output: dict_values([2, 8])
	District the bours and the surburs in	a={1:2, 4:8} a.items()
items()	Display the keys and the values in a dictionary	output: dict_items([(1, 2), (4, 8)]) a={1:2, 4:8, 3:5} a.get(1)
get(key)	Get the value of an item in a dictionary by its key	output: 2
setdefault(key)	Return the original value of an element to a dictionary	a.setdefault(2)
		a={'x':6, 'y':8} b={'c':5, 'd':3} f={**a, **y} print(f)
f={**a, **b}	Merge two dictionaries	output:{'x': 6, 'y': 8, 'c': 5, 'd': 3}
	Remove the first matching value of an	a=[1, 3, 2, 4, 4, 1, 6, 6, 4] a.remove(4) print(a)
remove()	element from a list without minding its index	output: [1 3 2 4 1 6 6 4]
memoryview(x)	Access the internal buffers of an object	output: [1, 3, 2, 4, 1, 6, 6, 4] a=memoryview(object)
bytes()	Convert a memory buffer protocol into bytes	bytes(a[0:2])
bytearray()	Return an array of bytes	bytearray(object)
#	Write a single line of comment or prevent a line of code from being executed	# Python regex cheat sheet """The Python regex cheat sheet is
		good for beginners It's equally a great refresher for
	Write a multi-line comment	experts"""

Command Line

pip install package	Install an online library	pip install pandas
virtualenv name	Use virtaulenv to create a virtual environment	virtualenv myproject
mkvirtualenv name	Use virtual environment wrapper to create virtual environment	mkvirtualenv myproject
python file.py	Run the commands in a Python file	"python my_file.py
pip freeze	List out all the installed packages in a virtual environment	pip freeze
pip freeze > somefiles	Copy all installed libraries in a single file	pip freeze > requirements.txt
where	Find the installation path of Python	where python
version	Check the version of a package	pythonversion
.exe	Run a Python shell	python.exe
with open(file, 'w')	Write to an existing file and overwrite its existing content	with open('regex.txt', 'w') as wf: wf.write("Hello World!")
with open(file, 'r')	Open a file as read-only	with open('regex.txt', 'r') as rf: print(rf.read()
with open(file, 'a')	Write to a file without overwriting its existing content	with open('regex.txt', 'a') as af: af.write("\nHello Yes!")
file.close	Close a file if it's not in use	af=open('regex.txt') af.close
exit	Exit the Python shell	exit()