Cheatography

Python Cheat Sheet

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Arithmetic Operators

+ Addition	print(3 + 5) # 8
- Subtraction	print(8 - 6) # 2
***** Multiplication	print(1 + 2 + 3 * 3) # 12
/ Division	print(8 / 4) # 2
% Mod (the remainder after dividing)	print(9 % 2) # 1
****** Exponentiation	print(3 ** 2) # 9
// Divides and rounds down to the nearest integer	print (16 // 3) # 5

Logical Operators

`and` Evaluates if all provided statements are True	5 < 3 and 5 == 5 # False
`or` Evaluates if at least one of many statements is True	5 < 3 or 5 == 5 # True
`not` Flips the Bool Value	not 5 < 3 # True

Data Structures

```
months = ['January', 'February',
'March', 'April', 'May', 'June',
'July', 'August', 'September',
'October', 'November',
'December']
print( mon ths[0]) # January
print( mon ths[1]) # February
print( mon ths[7]) # August
print( mon ths [-1]) # December
print( mon ths [25]) # IndexE -
rror: list index out of range
```

Assignment Operators

x = 3 y= 4 z=5	x, y, z = 3, 4, 5
+= Addition Assignment	a += 1 # a = a + 1
-= Subtraction Assignment	a -= 3 # a = a - 3
*= Multiplication Assignment	a *= 4 # a = a*4
/= Division Assignment	a /= 3 # a = a / 3
%= Remainder Assignment	a %= 10 # a = a % 10
**= Exponent Assignment	a **= 10 # a = a ** 10

Strings

```
my_string = 'this is a string!'
my_string2 = "this is also a string!!!"
this_string = 'Simon\'s skateboard is in the garage.'
print(first_word + ' ' + second_word) >> Hello There
print(len(first_word)) >> 5
print(first_word * 5) >> HelloHelloHelloHelloHello
index into strings >> first_word[0] >> H, first_word[1] >> e
```

Comparison Operators

== Is Equal To	3 == 5 # False
!= Not Equal To	3 != 5 # True
> Greater Than	3 > 5 # False
< Less Than	3 < 5 # True
>= Greater Than or Equal To	3 >= 5 # False
<= Less Than or Equal To	3 <= 5 # True

Strings methods

len(), returns the length of an object, like a string	print(len("ababa") / len("ab")) >> 2.5
type(), check the data type of any variable	print(type('Hello')) >> str
'sebastian thrun'.**islower()**	True
'Sebastian Thrun'..**count('a')**	2
'Sebastian Thrun'..**find('a')**	3
'Sebastian Thrun'..**rfind('a')**	7
animal = "dog" action = "bite" print("Does your {} {}?".**format(animal, action)**)	Does your dog bite?
"The cow jumped over the moon.".**split()**	['The', 'cow', 'jumped', 'over', 'the', 'moon.']
"The cow jumped over the moon.".**split(' ', 3)**	['The', 'cow', 'jumped', 'over the moon.']
"The cow jumped over the moon.".**split('.')**	['The cow jumped over the moon', '']
"The cow jumped over the moon.".**split(-None, 3)**	['The', 'cow', 'jumped', 'over the moon.']

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Page 1 of 1.