Python Basics Cheatsheet 1.0

Python is case sensitive. Python index starts from 0. Spaces/tabs indent code.

HELP

Homepage: help () Function: help (str.replace) Module: help (re)

INSTALL PYTHON







CHECK DATA TYPE

>>> type (variable)

IMPORT LIBRARIES

>>> import pandas



SELECTIVE IMPORT >>> from math import pi



Variables & Data Types

6 common Data Types booleans strings

nonetype(none) integers datetime floats

Variable Assignment

>>> x=10 >>> x >>> 10

Calculations with Variables

Summation	>>> x+5	15
Subtraction	>>> x-5	10
Multiplication	>>> x*5	50
Exponentian	>>> x**5	10000
Remainder	>>>x%5	0
Division	>>>x/float(5)	2

Type & Types Conversion

Variables to strings	str()	'5', '3.45', 'True'
Variables to integers	int()	5, 3, 1
Variables to floats	float()	5.0, 1.0
Variables to booleans	bool()	True, True, True

Strings

>>> my_string ='goodmorning' >>> my_string 'goodmorning'

Strings Operations

Strings Operations

>>> my_string * 2	>>> 'm' in my_string
'goodmorninggoodmorning'	TRUE
>>> my_string + 'Sir'	>>> my_string[3]
'goodmorningSir'	>>> my_string[4:9]

Strings Methods

String to uppercase	>>> my_string.upper()
String to lowercase	>>> my_string.lower()
Count String elements	>>> my_string.count('w')
Replace String elements	>>> my_string.replace('e', 'i')
Strip whitespaces	>>> my_string.strip()

Lists & List Operations

>>> a = 'you' >>> b = 'like' >>> my_list = [a, b, 'black', 'book'] >>> my_list2 = [[4,5,6,7], [3,4,5,6]]	>>> my_list + my_list ['you', 'like', 'black', 'book', 'you', 'like', 'black', 'book']
>>> my_list * 2 ['you', 'like', 'black', 'book', 'you', 'like', 'black', 'book'] >>> my_list2 > 4 TRUE	

Selecting List Elements

Subset:

>>> my_list[1]	Select item at index 1
>>> my_list[-3]	Select 3rd last item

Slice:

>>> my_list[1:3]	Select items at index 1 and 2
>>> my_list[1:]	Select items after index 0
>>> my_list[:3]	Select items before index 3
>>> my_list[:]	Copy my_list

Subset Lists of Lists:

>>> my_list2[1][0]	my_list[list][itemOfList]
>>> my_list2[1][:2]	

Lists & List Operations

Lists Methods

Get the index of an item	>>> my_list.index(a)
Count an item	>>> my_list.count(a)
Remove an item	>>> my_list.remove('!')
Reverse the list	>>> my_list.reverse()
Remove an item	>>> my_list.extend('!')
Insert an item	>>> my_list.insert(0,'!')
Sort the list	>>> my_list.sort()