

Python 3 Beginner's Reference Cheat Sheet

Main data types

boolean = *True / False*

integer = 10

float = 10.01

string = "123abc"

list = [value1, value2, ...]

dictionary = { key1:value1, key2:value2, ...}

Numeric operators

addition

subtraction

multiplication

/ division

% modulus

Boolean operators

and logical ANDor logical ORnot logical NOT

Comparison operators

== equal

!= different

higher

>

<

lower

>= higher or equal

<= lower or equal

Special characters

coment
\n new line

List operations

list = [] defines an empty list

list[i] = x stores x with index i

list[i] retrieves the item with index I

Dictionary operations

dict = {} defines an empty dictionary
dict[k] = x stores x associated to key k
dict[k] retrieves the item with key k

String methods

string.upper() converts to uppercase string.lower() converts to lowercase string.count(x) counts how many times x appears string.find(x) position of the x first occurrence string.replace(x,y) replaces x for y string.strip(x) returns a list of values delimited by x string.join(L) returns a string with L values joined by string

List methods

list.append(x) adds x to the end of the list

list.remove(x) removes the first list item whose

value is x

list.pop(i) removes the item at position i and

returns its value

list.index(x) returns a list of values delimited

by x

list.count(x) returns a string with list values

joined by S

list.sort() sorts list items

list.reverse() reverses list elements

Dictionary methods

dict.keys()returns a list of keysdict.values()returns a list of valuesdict.items()returns a list of pairs (key,value)dict.get(k)returns the value associtated to

the key k



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Built-in functions

print(x, sep='y') prints x objects separated by y

len(x) returns the length of x (s, L or D)

range(n1,n2,n) returns a sequence of numbers

from n1 to n2 in steps of n

round(n1,n) returns the n1 number rounded

to n digits

str(x) converts x to string

list(x) converts x to a list

int(x) converts x to a integer number

float(x) converts x to a float number

Conditional statements

if <condition>:

<code>

else if <condition>:

<code>

else:

<code>

if <value> in <list>:

Loops

while < condition>:

<code>

for <variable> in <list>:

<code>

for <variable> in

range(start,stop,step):

<code>

for key, value in

dict.items():

<code>

Loop control statements

finishes loop break

execution

jumps to next continue

iteration

does nothing pass

Functions

def function(<params>):

<code>

return <data>

Modules

import module module.function()

from module import * function()

> Reading and writing files

f = open(<path>,'r')

f.read(<size>)

f.readline(<size>)

f.close()

f = open(<path>,'r') for line in f:

<code> f.close()

f = open(<path>,'w')

f.write(<str>)

f.close()