



Python 3 Beginner's Reference Cheat Sheet

Alvaro Sebastian
<http://www.sixthresearcher.com>

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
****** exponent
% modulus
// floor division

Comparison operators

== equal
!= different
> higher
< lower
>= higher or equal
<= lower or equal

Boolean operators

and logical AND
or logical OR
not logical NOT

Special characters

comment
\n new line
\<char> scape char

String operations

string[i] retrieves character at position i
string[-1] retrieves last character
string[i:j] retrieves characters in range i to j

List operations

list = [] defines an empty list
list[i] = x stores x with index i
list[i] retrieves the item with index i
list[-1] retrieves last item
list[i:j] retrieves items in the range i to j
del list[i] removes 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
del dict[k] removes 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
string.format(x) returns a string that includes formatted x

List methods

list.append(x) adds x to the end of the list
list.extend(L) appends L to the end of the list
list.insert(i,x) inserts x at i position
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.clear() removes all items from the list
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
list.copy() returns a copy of the list

Dictionary methods

dict.keys() returns a list of keys
dict.values() returns a list of values
dict.items() returns a list of pairs (key,value)
dict.get(k) returns the value associated to the key k
dict.pop() removes the item associated to the key and returns its value
dict.update(D) adds keys-values (D) to dictionary
dict.clear() removes all keys-values from the dictionary
dict.copy() returns a copy of the dictionary

Legend: x,y stand for any kind of data values, s for a string, n for a number, L for a list where i,j are list indexes, D stands for a dictionary and k is a dictionary key.