Cheatography

python Cheat Sheet

by y.bahador via cheatography.com/34226/cs/10700/

Variables & Data Types

valid characters:	_ [a-z] [A-Z] [0-9]
must start with:	_ [a-z] [A-Z]
integer:	-2, 0, 200
float:	3.1415, -2.68
string:	'a message'
boolean:	True, False
list:	[value0, value1, value2, ...]
dictionary:	{key1: value1, key2: value2, ...}
variable assignment:	var_name = *data*

List Functions

length of list:	**len(***list_name***)**
total sum of list:	**sum(***list_name***)**
minimum value in list:	**min(***list_name***)**
maximum value in list:	**max(***list_name***)**
add value to end of list:	*list_name***.append(***value***)**
index access:	*list_name***[index_number]**

Dictionary Functions

key lookup:	dict[*key*]
storing/updating key, value:	dict[*key*] = *value*
list of keys:	**list(**dict**.keys())**
list of values:	**list(**dict**.values())**

Comparison / Conditional Expression

equal:	==
not equal:	!=
less than:	<
less or equal:	<=
greater than:	>
greater or equal:	>=
equal to multiple values:	*var_name* **in** [value0, value1, value2, ...]

Miscellaneous Functions

printing:	**print(**value0, value1, ...**)**
get input:	**input(**'hint message'**)**
convert to integer:	**int(**value**)**
convert to float:	**float(**value**)**
round a number:	**round(**value, decimal_points**)**

By **y.bahador**
cheatography.com/y-bahador/

Not published yet.
Last updated 21st February, 2017.

Cheatography

python Cheat Sheet

by y.bahador via cheatography.com/34226/cs/10700/

Plotting a Bar Chart

```
import matplotlib.pyplot as plt
%matplotlib inline
x = [1, 2, 3, 4, 5]
values = [20, 34, 12, 48]
plt.bar(x, values,
align='center')
plt.xticks(x, [label1, label2,
label3, label4, label5])
```

Defining and Calling a Function

```
def function_name(input1, input2):
    function's internal logic
    return result
--------------------------------
--------------
var1 = data1
var2 = data2
returned_value =
function_name(var1, var2)
```

If Statement / Making a Choice

```
if:
    block of code when cond is
True
--------------------------------
--------------
if cond:
    block of code when cond is
True
else:
    block of code when cond is
False
--------------------------------
--------------
if condition1:
    block of code when condition1
is True
elif condition2:
    block of code when condition1
is
    False and condition2 is True
elif condition3:
    block of code when condition1
and
    condition2 are False and
condition3 is True
else:
    block of code when condition1
and
    condition2 and condition3
are False
```

Loops / Iterating

```
Repeat n Times:
for var_name in range(n):
    block of code
Iterate Over List Values:
for var_name in list_name:
    block of code
Iterate Until Condition Becomes
False:
while condition:
    repeat until condition
becomes False
```

Filtering Data

```
list_of_data = [value0, value1,
value2, ...]
filtered_data = []
for value in list_of_data:
    if filtering_condition:
        filtered_data.append(va
lue)
```

By **y.bahador**
cheatography.com/y-bahador/

Not published yet.
Last updated 21st February, 2017.