

Appendix B. Python cheat sheet

VARIABLE NAMES

- Case-sensitive
- Can't start with a number
- Can't be a Python keyword
- OK—name, my_name, my_1st_name, name2
- Not OK—13_numbers, print

Strings

Description	Operator	Example	Output
Equality	==	'me' == 'ME' 'you' == 'you'	False True
Inequality	!=	'me' != 'ME' 'you' != 'you'	True False
Less than	<	'A' < 'a' 'b' < 'a'	True False
Less than or equal	<=	'Z' <= 'a' 'a' <= 'a'	True True
Greater than	>	'a' > 'B' 'a' > 'z'	True False
Greater than or equal	>=	'a' >= 'a' 'a' >= 'z'	True False
Contains	in	'Go' in 'Gopher' 'py' in 'PYTHON'	True False
Length	len	len('program') len("")	7 0

String indexing for s = "Python Cheat Sheet"

Indexing/slicing	Result
s[0]	'P'
s[-1]	't'
s[6]	' '
s[2:10]	'thon Che'
s[7:15:2]	'CetS'
s[4:8:-1]	"
s[13:3:-2]	'SteCn'
s[::-1]	'Python Cheat Sheet'
s[::-1]	'teehS taehC nohtyP'

Lists for L = ['hello', 'hi', 'welcome']

Slice	Result
Indexing/slicing	Same as for strings
L[0][0]	'h'
len(L)	3
L.append([])	['hello', 'hi', 'welcome', []]
'hi' in L	True
L[1] = 'bye'	['hello', 'bye', 'welcome']
L.remove('welcome')	['hello', 'hi']

MUTABLE VS. IMMUTABLE

- Immutable—integer, float, string, Boolean.
- Mutable—list, dictionary.
- Be careful about mutating while iterating.

DICTIONARIES

- Keys can't be mutable objects.

