Python Cheat Sheet

by Roger Wüttenhofer

Math

```
a = 10 // 3              # a = 3 (integer division)
b = 10 % 3               # b = 1 (remainder of division)
c = 10 / 3               # c = 3.3333333333333335 (automatic float)
d = (3 * 0.1) == 0.3     # d = False (floats are not exact!)
e = 2 ** 1000            # (power results in big number? no problem!)
1 + 1                    # - 2 (interactive: use _ for last result)
```

Strings & Lists

```
s = 'abcdefgh'
a = len(s)                      # a = 8
b = s[0]                        # b = 'a'
c = s[-1]                       # c = 'h'
d = s[1:3]                      # d = 'bc' (slicing)
e = s[3:-1]                     # e = 'defg'
f = s[3:-1:2]                   # f = 'df'
g = s[::-1]                     # g = 'hgfedcba'

x = list(range(5))              # x = [0, 1, 2, 3, 4] (range: lazy)
y = [3, 5, 8]                   # y = [3, 5, 8] (direct construction)
z = [i*i for i in range(1,6)]   # z = [1, 4, 9, 16, 25] (list compr.)
z.append(77)                    # (appending element to list)
z.extend([88,99])               # (extending list with another list)
```

Sets & Dictionaries

```
s = set([2,1,3,2,1])
s.add(4); s.remove(2)           # s = {1, 3, 4}
print(3 in s)                   # - True

d = {'alice': 24, 'bob': 22, 'charlie': 23}  # (dictionary)
d['eve'] = 26                   # (add or change entry)
v = d.pop('charlie',None)       # v = 23 (remove)
```

Control

```
if 3*x < y or x > 3*y:          # if, elif, else as usual
  print("far")                  # no braces but indents
elif x == y:
  print("equal")
else:
  print("near")

for item in d:                  # traverse keys (also: list, set)
  for i in range(len(d)):       # traverse over indexes
    for i, item in enumerate(d):# both index and item
      break                     # break current loop

while x > 3:                    # while loops as usual
  print(x)
  x -= 1                        # x = x - 1

print("hello") if x == 5 else print("x =",x)  # cond. expression
```

Functions

```
def square(x):                  # function definition
  return x*x                    # with return value

f = lambda x : x*x              # lambda is one line function
print(f(5))                     # - 25
l = [i*i for i in range(1,6)]
l.sort(key=lambda v : v % 10)   # l = [1, 4, 25, 16, 9]
```

Scope

```
x = y = z = 1           # globally: set all = 1

def foo():
  global x              # keyword global: global x is used
  x, y = 2, 2           # x is global, y is local, z is unchanged
  print(x,y,z)          # - 2 2 1 (x is accessible)

foo()
print(x,y,z)            # - 2 1 1 (note that global y was unchanged)
```

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Daniela Niemeyer

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