Python Cheat Sheet
by Roger Wattenhofer

Math

```python
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

```python
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.)
x.append(77)                   # (appending element to list)
x.extend([88,99])              # (extending list with another list)
```

Sets & Dictionaries

```python
a = set([2,1,3,2,1])
a.add(4); a.remove(2)          # a = {1, 3, 4}
print(3 in a)                  # → 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

```python
if 2*x < y or x > 2*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

```python
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

```python
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 (z is accessible)

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

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