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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Ying Liu

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Table of Contents Non Programmer39s Guide To Python

1. Understanding the eBook Non Programmer39s Guide To Python
    - The Rise of Digital Reading Non Programmer39s Guide To Python
    - Advantages of eBooks Over Traditional Books
2. Identifying Non Programmer39s Guide To Python
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Non Programmer39s Guide To Python
    - User-Friendly Interface
4. Exploring eBook Recommendations from Non Programmer39s Guide To Python
    - Personalized Recommendations
    - Non Programmer39s Guide To Python User Reviews and Ratings
    - Non Programmer39s Guide To Python and Bestseller Lists

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