

INTRODUCTION TO PYTHON

DAY TWO CHEATSHEET: CONTROL FLOW

LOGICAL OPERATORS AND KEYWORDS

Symbol	What it does	Examples		
==	Equal to	5 == 5 True	5 == 7 False	
!=	Not Equal to	5 != 5 False	5 != 7 True	
>	Greater than	5 > 3 True	5 > 6 False	5 > 5 False
<	Less than	5 < 3 False	5 < 6 True	5 < 5 False
>=	Greater than or equal to	5 >= 3 True	5 >= 6 False	5 >= 5 True
<=	Less than or equal to	5 <= 3 False	5 <= 6 True	5 <= 5 True
and	Join logical statements with "and" rules	5 >= 2 and 3 == 3 True	5 >= 2 and 3 != 3 False	
or	Join logical statements with "or" rules	5 >= 2 and 3 == 3 True	5 >= 2 and 3 != 3 True	

IF-ELIF-ELSE STATEMENTS

```
if <logical condition> == True:
    do this command
```

```
if 7.5 > 3:
    print "yes!"
```

yes

```
if <logical condition> == True:
    do this command
else:
    do that command
```

```
if 7.5 == 3:
    print "yes!"
else:
    print "no :("
```

no :(

```
if <logical condition> == True:
    do this command
elif:
    do that command
else:
    do other command
```

```
if 7.5 < 3:
    print "less!"
elif 7.5 > 3:
    print "greater!"
else:
    print "equal!"
```

greater!

FOR-LOOPS

```
for item in container:  
    do this command
```

```
my_list = [45, 48, 51, 54.5]  
for entry in my_list:  
    print entry
```

```
45  
48  
51  
54.5
```

```
for i in range(5):  
    print "Iteration" + str(i)
```

```
Iteration 0  
Iteration 1  
Iteration 2  
Iteration 3  
Iteration 4
```

NESTED FOR-LOOPS

```
for item in container:  
    for item2 in container2:  
        do this command
```

```
count = 0  
for i in range(4):  
    for j in range(3):  
        count += 1  
        print count, ":", i, j, i*j
```

```
1: 0 0 0  
2: 0 1 0  
3: 0 2 0  
4: 1 0 0  
5: 1 1 1  
6: 1 2 2  
7: 2 0 0  
8: 2 1 1  
9: 2 2 4  
10: 3 0 0  
11: 3 1 3  
12: 3 2 0
```