

Python Numeric Types

- There are **three numeric types** in Python
 - int
 - float
 - complex

```
x=1 # int  
y=2.8 # float  
z=2+3j # complex
```

Python Numeric Types

- You can convert from one type to another with the **int()**, **float()**, and **complex()**

#convert from int to float:

a = float(x)

x=1 # int

#convert from float to int:

b = int(y)

y=2.8 # float

#convert from int to complex:

c = complex(x)

(1+0j)

Could you guess what is the value of a , b and c from these statements?

Python Numeric Types

- Specify a float data type onto an int variable, this can be done with casting

```
x = int(1.3) # x will be 1  
y = int(3.5) # y will be 3
```

- The int data type can be converted to float:

```
x = float(1) # x will be 1.0  
y = float(2.8) # y will be 2.8
```



Python Numeric Types

- Convert a string data type to a numeric variable

```
y = int("3") # y will be 3  
w = float("4.2") # w will be 4.2  
z = float("3") # z will be 3.0
```

Python Numeric Types

- Convert a numeric data type to a string variable

```
y = str(2) # y will be '2'  
z = str(3.0) # z will be '3.0'  
w = str(2+3j) # w will be '(2+3j) '
```