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TECHIE GUY

## PYTHON SNIPPETS

### *Python Numbers*

**THERE ARE THREE NUMERIC TYPES  
IN PYTHON:**

**INT**

**FLOAT**

**COMPLEX**





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# COMPLEX

**COMPLEX NUMBERS ARE WRITTEN WITH A "J" AS THE  
IMAGINARY PART:**

```
x = 3+5j
y = 5j
z = -5j
w = -4j+6
print(type(x))
print(type(y))
print(type(z))
print(type(w))
```

```
<class 'complex'>
<class 'complex'>
<class 'complex'>
<class 'complex'>
```





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# TYPE CONVERSION

**YOU CAN CONVERT FROM ONE TYPE TO ANOTHER WITH THE INT(), FLOAT(), AND COMPLEX() METHODS:**

```
#convert from int to float:  
x = float(-1)  
  
#convert from float to int:  
y = int(2.8)  
  
#convert from int to complex:  
z = complex(x)  
  
print(x)  
print(y)  
print(z)  
  
print(type(x))  
print(type(y))  
print(type(z))
```

```
-1.0  
2  
(-1+0j)  
<class 'float'>  
<class 'int'>  
<class 'complex'>
```





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**NOTE: YOU CANNOT CONVERT  
COMPLEX NUMBERS INTO  
ANOTHER NUMBER TYPE.**



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## RANDOM NUMBER

**PYTHON DOES NOT HAVE A RANDOM() FUNCTION TO MAKE A RANDOM NUMBER, BUT PYTHON HAS A BUILT-IN MODULE CALLED RANDOM THAT CAN BE USED TO MAKE RANDOM NUMBERS**

```
import random  
  
print(random.randrange(1, 10))
```

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