Numeric data types in Python

What are numeric data types in Python? How do you use numeric data types in Python? Let's find out together with TipsMake.com!

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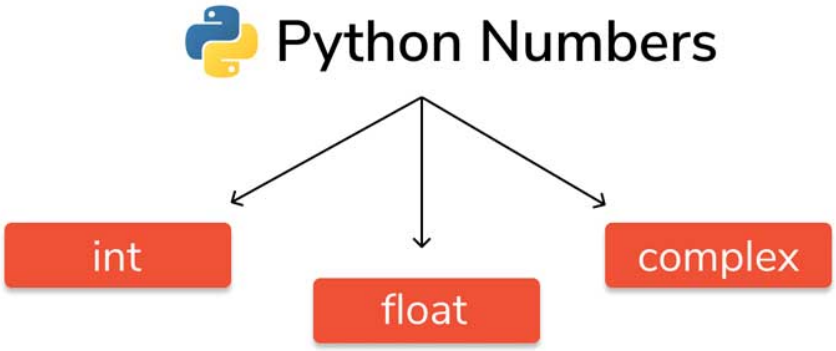

Python has three numeric data types:

1. `int`
2. `float`
3. `complex`

Numeric variables are created when you assign a value to them:

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

To validate the type of any object in Python, use the function `type()`:

```
print(type(x)) print(type(y)) print(type(z))
```

Int

Int, or integer, is a number, positive or negative, that is not a decimal and has unlimited length.

```
x = 1 y = 35656222554887711 z = -3255522 print(type(x)) print(type(y)) print(type
```

Float

A float, or 'floating point number,' is a positive or negative number containing one or more decimal places.

```
x = 1.10 y = 1.0 z = -35.59 print(type(x)) print(type(y)) print(type(z))
```

Float can also be a scientific number, with **'e'** representing a power of 10.

```
x = 35e3 y = 12E4 z = -87.7e100 print(type(x)) print(type(y)) print(type(z))
```

Complex

Complex numbers are written with **j** as the imaginary part:

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

Type conversion

You can convert from one type to another using the methods `int()`, `float()`, and `complex()`.

```
x = 1 # int y = 2.8 # float z = 1j # complex #convert from int to float: a = floa
```

Note: You cannot convert complex numbers to other number types.

Random number

Python doesn't have a built-in function `random()`to generate random numbers, but it does have a built-in module called `random` that you can use to generate random numbers:

For example:

Input a random modulo, and display a random number between 1 and 9:

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

Above are the things you need to know about **numbers in Python** . Hopefully, this Python lesson is useful to you.