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Python Numbers

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Python Numbers

There are three numeric types in Python:

- int
- float
- complex

Variables of numeric types are created when you assign a value to them:

Example

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

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

Example

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

```
print(type(z))
```

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Int

Int, or integer, is a whole number, positive or negative, without decimals, of unlimited length.

Example

Integers:

```
x = 1
y = 35656222554887711
z = -3255522

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

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Float

Float, or "floating point number" is a number, positive or negative, containing one or more decimals.

Example

Floats:

```
x = 1.10
y = 1.0
z = -35.59
```

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

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Float can also be scientific numbers with an "e" to indicate the power of 10.

Example

Floats:

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

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Complex

Complex numbers are written with a "j" as the imaginary part:

Example

Complex:

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

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

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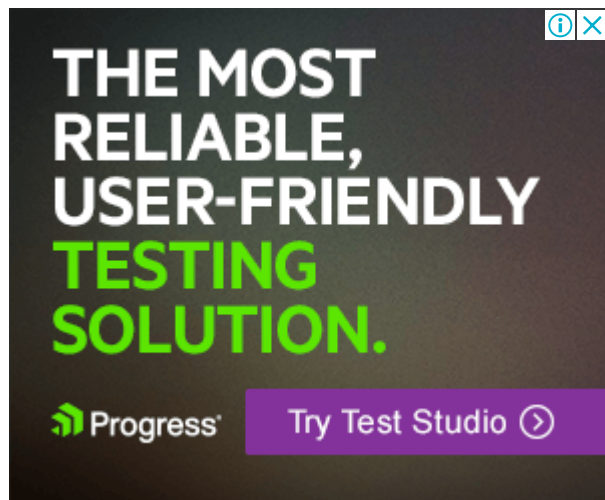
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