**Python datatype**

* Python has several built-in data types, including:

1. **Numeric types:**
   1. int: Integer values (e.g., 10, -5, 0)
   2. float: Floating-point values with decimal precision (e.g., 3.14, -2.5, 0.0)
   3. complex: Complex numbers with real and imaginary parts (e.g., 3 + 2j, -1.5 - 0.5j)
2. **Sequence types:**
   1. str: Strings of characters (e.g., "hello", 'world', "123")
   2. list: Ordered, mutable collections of objects (e.g., [1, 2, 3], ['a', 'b', 'c'])
   3. tuple: Ordered, immutable collections of objects (e.g., (1, 2, 3), ('a', 'b', 'c'))
3. **Mapping type:**
   1. dict: Unordered, mutable collections of key-value pairs (e.g., {'name': 'John', 'age': 25})
4. **Set types:**
   1. set: Unordered, mutable collections of unique elements (e.g., {1, 2, 3}, {'a', 'b', 'c'})
   2. frozenset: Unordered, immutable collections of unique elements (e.g., frozenset({1, 2, 3}), frozenset({'a', 'b', 'c'}))
5. **Boolean type:**
   1. bool: Represents truth values, either True or False
6. **NoneType:**
   1. None: Represents the absence of a value or a null value

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| Operator | Description | Example |
| + | Addition | 2 + 3 = 5 |
| - | Subtraction | 5 - 2 = 3 |
| \* | Multiplication | 2 \* 3 = 6 |
| / | Division | 6 / 3 = 2 |
| // | Floor Division | 7 // 2 = 3 |
| % | Modulo | 7 % 2 = 1 |
| \*\* | Exponentiation | 2 \*\* 3 = 8 |
| == | Equality | 3 == 3 (True) |
| != | Inequality | 3 != 3 (False) |
| > | Greater than | 5 > 3 (True) |
| < | Less than | 2 < 4 (True) |
| >= | Greater than or equal to | 4 >= 4 (True) |
| <= | Less than or equal to | 3 <= 3 (True) |
| and | Logical AND | True and False (False) |
| or | Logical OR | True or False (True) |
| not | Logical NOT | not True (False) |
| += | Addition assignment | x += 2 (same as x = x + 2) |
| -= | Subtraction assignment | x -= 2 (same as x = x - 2) |
| \*= | Multiplication assignment | x \*= 2 (same as x = x \* 2) |
| /= | Division assignment | x /= 2 (same as x = x / 2) |
| //= | Floor division assignment | x //= 2 (same as x = x // 2) |
| %= | Modulo assignment | x %= 2 (same as x = x % 2) |
| \*\*= | Exponentiation assignment | x \*\*= 2 (same as x = x \*\* 2) |