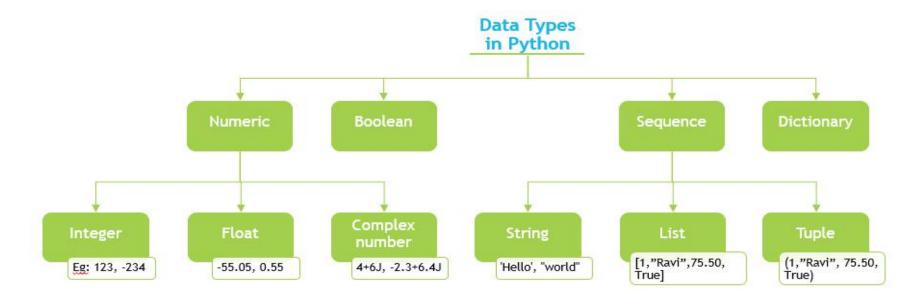
Data Types in Python

The built-in data types in Python are displayed below.



Numeric

Any representation of data which has numeric value. Python identifies three types of numbers – integer, float and complex number.

Integer Positive and negative whole numbers.

Examples: 1234, -234, 0x46 (hexadecimal number), 0O123 (octal number))

Note: In C and related programming languages such as Python, a hexadecimal number is prefixed with 0x and an octal number is prefixed with 0O.

Float Real numbers with a floating point representation in which the fractional component is denoted by a decimal or scientific notation

Examples: -55.550, 0.005, 1.32E10 (scientific notation))

Complex A number with a real and imaginary component is represented number as a + bj in Python where a and b are floats and

 $j = \sqrt{-1}$

Examples: 4+6j, -2.3+6.4j

	Note: The common mathematical representation of a complex number uses a +bi with i being the imaginary part. But in electronics j is used because i already represent current and the next letter after i is j.
	Any representation of data which has two values denoted by True and False.
	An ordered collection of similar or different data types. The built-in Sequence data types in Python are – String, List and Tuple.
String	A collection of one or more characters put in single, double or triple quotes.
	Examples: 'Hello', "Hello", "'Hello", ""Hello""
List	An ordered collection of one or more data items, not necessarily of same type, put in square brackets.

Examples: [1,"Ravi",75.50, True]

Tuple

An ordered collection of one or more data items, not necessarily of same type put in parentheses. The contents of a tuple cannot be modified – it is immutable - after the tuple is created.

Examples: (1,"Ravi", 75.50, True)

Note: Refer to the Helper Text to learn more about mutability.

Dictionary

An unordered collection of data in key:value pair form. Collection of such pairs is enclosed in curly brackets.

Example: {1:"Superman", 2:"Wonder Woman", 3:"Thor", 4: "Hulk", 5:"Black Widow"}