Data Type in Python

Numerical Type

Int

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

Examples :

x = 35656222554887711

y = -3255522

Float

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

Examples :

x = 1.10  
y = -35.59

Complex

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

Examples :

x = 3+5j  
z = -5j

Text Type

Strings

Strings in python are surrounded by either single quotation marks, or double quotation marks.

Sequence Type

List

Lists are used to store multiple items in a single variable. Lists are created using square brackets.

Example:

list = ["apple", "banana", "cherry"]

Tuple

Tuples are used to store multiple items in a single variable. A tuple is a collection which is ordered and unchangeable. Tuples are written with round brackets.

Example:

tuple = ("apple", "banana", "cherry")

Range

Range is a built-in datatype used to run a loop that returns a data sequence.

Example:

for i in range(2,20,2):

print(i)

Mapping Type

Dict

Dictionaries are used to store data values in key: value pairs.

A dictionary is a collection which is ordered\*, changeable and does not allow duplicates. As of Python version 3.7, dictionaries are ordered. Dictionaries are written with curly brackets.

Example :

dict = {

"brand": "Ford",

"model": "Mustang",

"year": 1964

}

Set Type

Set

Sets are used to store multiple items in a single variable. A set is a collection which is unordered, unchangeable, and unindexed. Sets are written with curly brackets.

Example :

set = {"apple", "banana", "cherry"}

Boolean Type

Bool

In programming, you often need to know if an expression is True or False. You can evaluate any expression in Python, and get one of two answers, True or False. When you compare two values, the expression is evaluated and Python returns the Boolean answer.

Examples :

print(10 > 9)

print(10 == 9)

print(10 < 9)

None Type

NoneType

NoneType does not return any data.

Example :