#### **PYTHON TUTORIAL FOR BEGINNERS**

Source: www.youtube.com/@RishabhMishraOfficial

#### Chapter - 05

## **Data Types in Python**

- What are Data types
- Types of data types
- Data types examples



## **Data Types in Python**

In Python, a data type is a **classification** that specifies the **type of value** a variable can hold. We can check data type using type() function.

## Examples:

## **Basic Data Types in Python**

Python can be used as a powerful calculator for performing a wide range of arithmetic operations.

- 1. Numeric: Integer, Float, Complex
- 2. Sequence: String, List, Tuple
- 3. Dictionary
- 4. Set
- 5. Boolean
- 6. Binary: Bytes, Bytearray, Memoryview

**Data Types in Python** 

Numeric 1	Sequence 2	Dictionary 3	Binary 6	
The data that has a numeric value	Collection of similar or different Python data	A key-value pair set arranged in any order.	Used to work with binary data. Such as image,	
<ul><li>int: positive or negative whole numbers</li><li>float: real number with a decimal point</li></ul>	types		audio, mp3 files, etc.	
	string: Collection of one or more characters put in a quote/quotes.	Sets 4	bytes: immutable	
		Unordered collection of elements. It is iterable, mutable, and	sequence type to represent sequences of bytes (8-bit values).	
	<b>list:</b> can store objects of multiple data type, and encased inside square			
		has no duplicate elements	<b>bytearray:</b> similar to bytes but can be modified.	
complex: number contains an arranged pair, x + iy, (real part) + (imaginary part)i	sections []. Mutable.		but can be mounted.	
	<b>tuple:</b> store objects of multiple data type, and encased inside circle sections (). Immutable.	Boolean 5	Memoryview: Used to create a "view" of memory containing binary data.	
		<b>True</b> and <b>False</b> are the two default values		

# **Data Types Examples**

Numeric	Int	float		complex		
	26, 101, 108	0.5, 1.5, 101.2		complex(3, 5) -> 3+5i		
Sequence	str		list		tuple	
	"Madhav", "Rishabh", "26"		[1, 26, 101, 108]		(1, 26, 101, 108)	
<b>Dictionary</b>	dict					
	{'name': 'Madhav', 'age': 26, 'city': 'Prayagraj'}					
Sets	set					
	{1, 26, 101, 108}, {"abc", 34, True, 40, "male"}					
<b>Boolean</b>	bool					
	True, False					



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