WHAT ARE DATA TYPES

DATA TYPES

Data Type defines the type and behaviour of a data, it tells to the compiler about the type of data which is going to be stored and the compiler reserves the fixed number of bytes for that particular variable/constant.

Common Data Types:

- **Integer:** A data type representing whole numbers.

- **Floating:** A data type representing numbers with fractional parts

- **String :** A data type representing a sequence of characters.

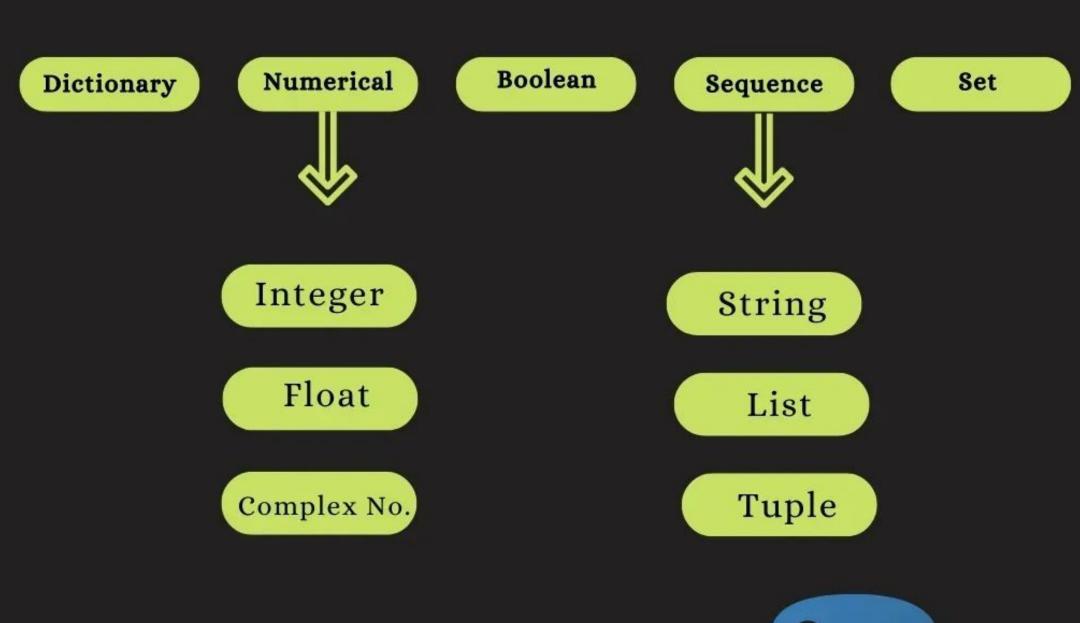- **Boolean:** A data type representing logical true or false.

- **Char:** The char data type is used to store a single character

- **Array:** An array is a special variable, which can hold more than one value

- **Function:** A function is a block of code which only runs when it is called

- **Pointer:** The pointer is a variable which stores the address of another variable

- **Union:** It is a collection of variables of different datatypes in the same memory location.

- **Class :** A class is a user-defined data type that we can use in our program, and it works as an object constructor, or a "blueprint" for creating objects.

PYTHON Data Types

Dictionary

Numerical

Boolean

Sequence

Set

Integer

String

Float

List

Complex No.

Tuple

JAVA Data Types

Primitive Data Type

Integer

Floating Point

Character

Boolean

Non-Primitive Data Type

Object

Classes

Interfaces

Array

String

Java

C/C++ Data Types

User defined

- Structure
- Union
- Enum

Built-in

- Integer
- Float
- Char
- Double
- Void

Derived

- Array
- Function
- Pointer

PHP Data Types

Scalar

- Integer
- String
- Boolean
- Float

Compound

- Object
- Array

Special

- Null
- Resource

php