PYTHON

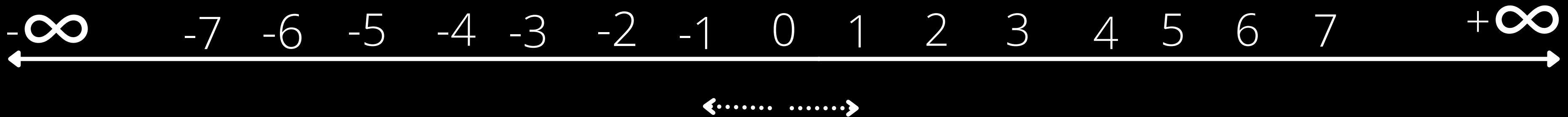## Data Types

Python Setup Information

▶ **Version** : 3.8.6

▶ **IDE** : PyCharm (Community Edition Open Source)

Number System

$$-\infty \quad -7 \quad -6 \quad -5 \quad -4 \quad -3 \quad -2 \quad -1 \quad 0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad +\infty$$

INTEGER

▶ **Key Word** : int

▶ **DESCRIPTION** : Integers are whole numbers
tends -∞ to +∞

FLOAT

▶ **Key Word** : float

▶ **DESCRIPTION** : Float are specified with a decimal point
numbers tends   - ∞   to   + ∞

STRINGS

► **Key Word** : str

► **DESCRIPTION** : Strings are sequences of character data.

LISTS

► **Key Word** : list

DESCRIPTION :
List are one out of 4 built-in data types in Python
Which is used to store multiple items in a single variable.
Where all items are indexed, ordered, changeable, and allow duplicate values.

DICTIONARY

► **Key Word** : dist

DESCRIPTION :

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

TUPLES

► **Key Word** : tup

► **DESCRIPTION** :

Tuples are used to store multiple items in a single variable.
Where items are ordered and unchangeable.

SETS

► **Key Word** : set

► **DESCRIPTION** :
   Sets are used to store multiple items in a single variable.
   Where items is unordered, unchangeable* (Can be removed), and unindexed.

BOOLEAN

► **Key Word** : bool

► **DESCRIPTION :**

Booleans represents one of the two values i.e. True or False.

Data Types Use

Uses	Name	Data Types
Text Operation	String	str
Numeric Operation	Integer, Float , complex(real, imaginary)	int, float, complex
Sequence Operation	Lists,Tuples,range(start, stop, step)	list, tuple, range
Mapping Operation	Dictionary	dict
Set Operation	Sets,frozenset(iterable)	set, frozenset
Boolean Operation	Booleans	bool
Binary Operation	bytes(x, encoding, error), bytearray(x, encoding, error), memoryview(obj)	bytes, bytearray, memoryview

THANK YOU