# Data Types in Python

Swipe

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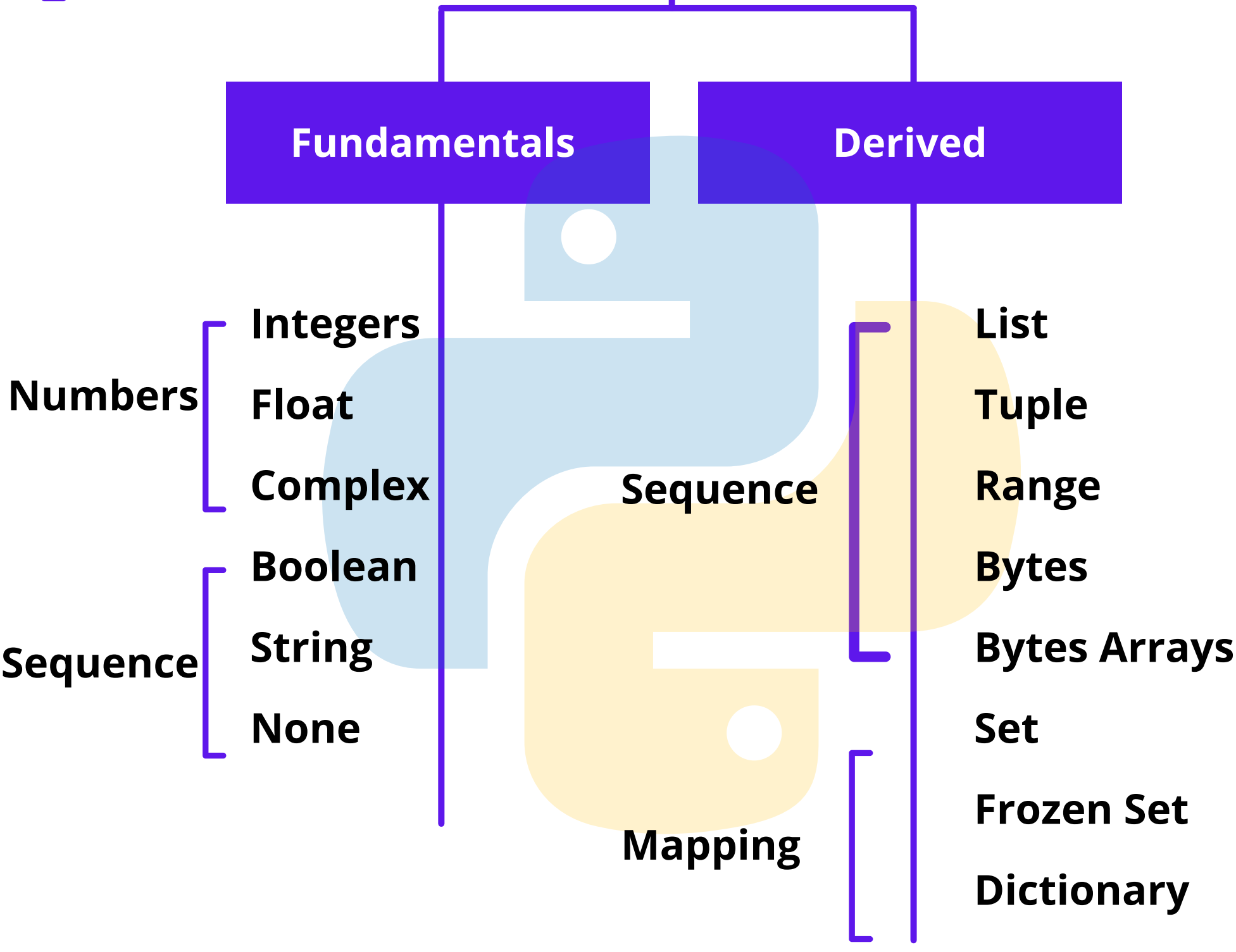

# List Data Type in Python

- **Lists are just like the arrays, declared in other languages which is an ordered collection of data.**

- **It is very flexible as the items in a list do not need to be of the same type.**

- **Creating List**:-
    - **Lists in Python can be created by just placing the sequence inside the square brackets[].**

# Tuple Data Type in Python

- **Just like list, tuple is also an ordered collection of Python objects.**

- **The only difference between type and list is that tuples are immutable.**

- **Tuples cannot be modified after it is created. It is represented by tuple class.**

- **In Python, tuples are created by placing a sequence of values separated by ‘comma’ with or without the use of parentheses for grouping of the data sequence.**

- **Tuples can contain any number of elements and of any datatype (like strings, integers, list, etc.).**

# Set Data Type in Python

- **In Python, Set is an unordered collection of data type that is iterable, mutable and has no duplicate elements.**

- **The order of elements in a set is undefined though it may consist of various elements.**

- **Sets can be created by using the built-in set() function with an iterable object or a sequence by placing the sequence inside curly braces, separated by ‘comma’.**

- **Type of elements in a set need not be the same, various mixed-up data type values can also be passed to the set.**

# Dictionary Data Type in Python

- **Dictionary in Python is an unordered collection of data values, used to store data values like a map, which unlike other Data Types that hold only single value as an element, Dictionary holds key:value pair.**

- **Key-value is provided in the dictionary to make it more optimized.**

- **Each key-value pair in a Dictionary is separated by a colon :, whereas each key is separated by a ‘comma’.**

## Topics for next Post

- **Type Casting/Type Conversion in Python**
- **Mutable vs Immutable Data type in Python**

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