Data Structures

Intuition

- Height in Cm

Intuition

- Height in Cm

Ramesh = 150

Suresh = 145

Sudesh = 165

Intuition

- Height in Cm
- Weight in Kgs

Ramesh = 150

Suresh = 145

Sudesh = 165

Intuition

- Height in Cm
- Weight in Kgs

Ramesh_height = 150

Suresh_height = 145

Sudesh_height = 165

Ramesh_weight = 56

Suresh_weight = 60

Sudesh_weight = 65

Intuition

- Height in Cm
- Weight in Kgs
- Age in Years

Ramesh_height = 150

Suresh_height = 145

Sudesh_height = 165

Ramesh_weight = 56

Suresh_weight = 60

Sudesh_weight = 65

Ramesh_age = 23

Suresh_age = 46

Sudesh_age = 58

Intuition

- Height in Cm
- Weight in Kgs
- Age in Years

.

.

- Some info

Ramesh_height = 150

Suresh_height = 145

Sudesh_height = 165

Ramesh_weight = 56

Suresh_weight = 60

Sudesh_weight = 65

How Many Variables?

Ramesh_age = 23

Suresh_age = 46

Sudesh_age = 58

Analytics Vidhya

Learn everything about analytics

Why Data Structures?

Existing data types - int, float, bool, str

Problems with Existing Data types

- Data in a variable can be stored in a single format i.e either integers or decimals or strings etc.
- Large memory overhead by creating large number of variables.
- Unfit for storing large structured data.

What is a Data Structure?

What is a Data Structure?

- Efficient storage for large data

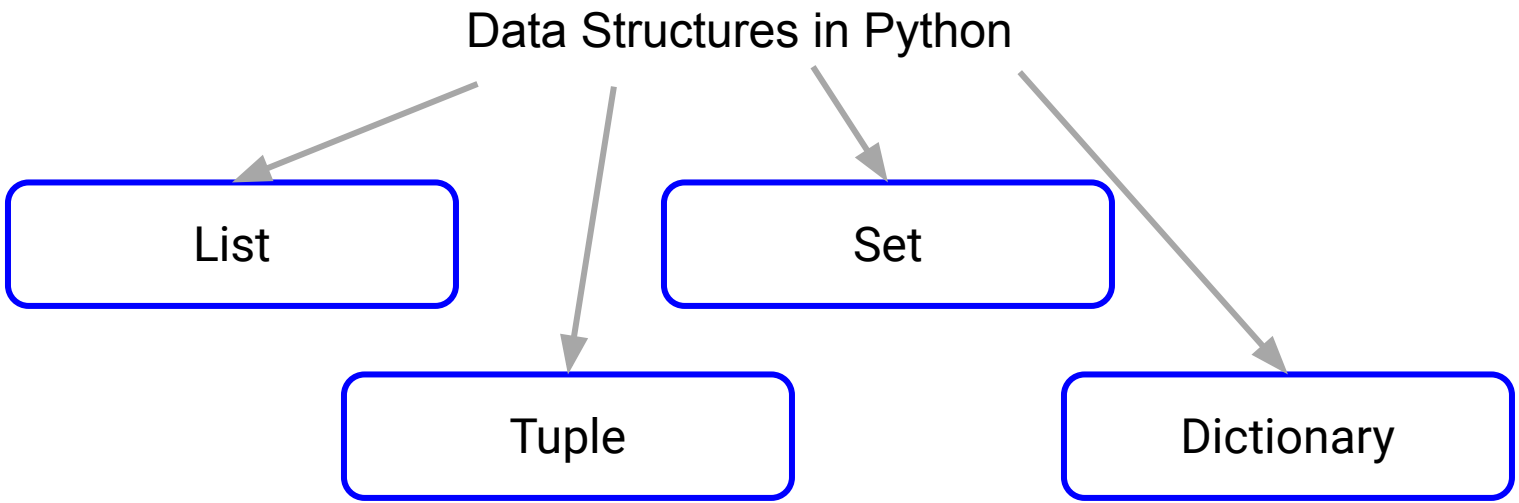
What is a Data Structure?

- Efficient storage for large data
- Manipulations/Operations on data

What is a Data Structure?

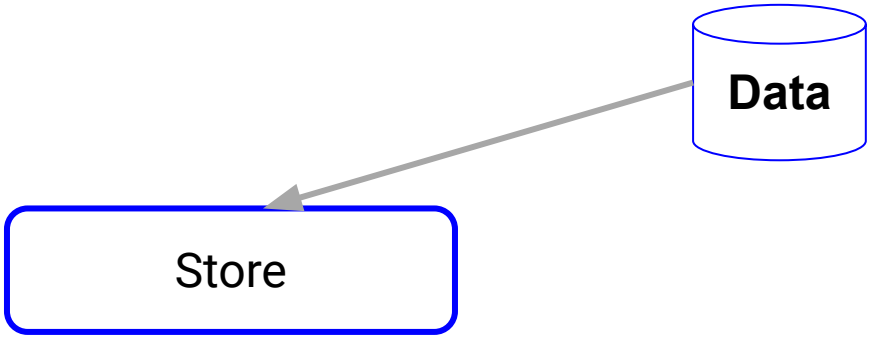
- Efficient storage for large data
- Manipulations/Operations on data
- Underlying Relationships of data

Different Data Structures in Python

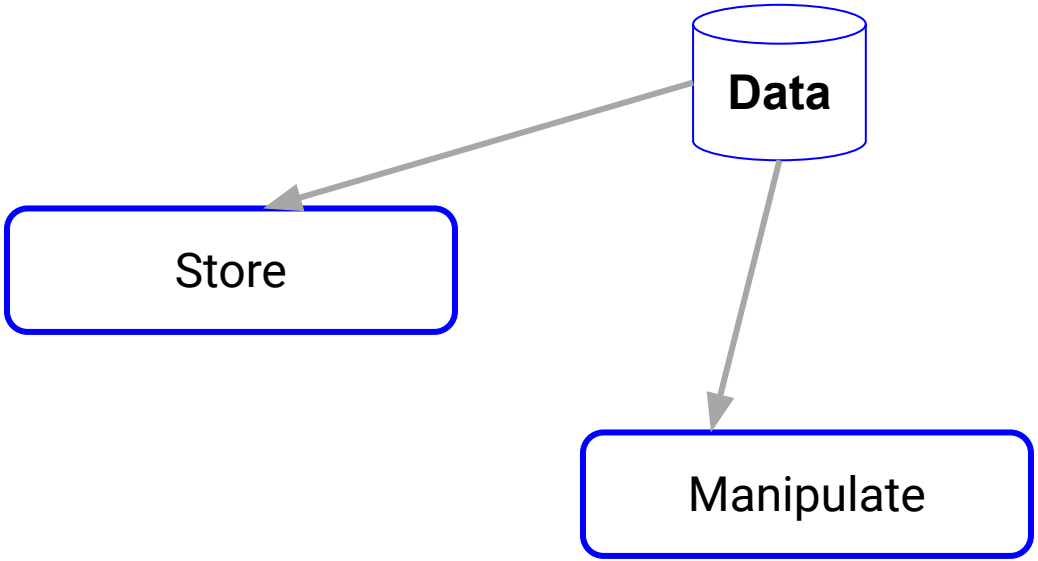


Thank You!

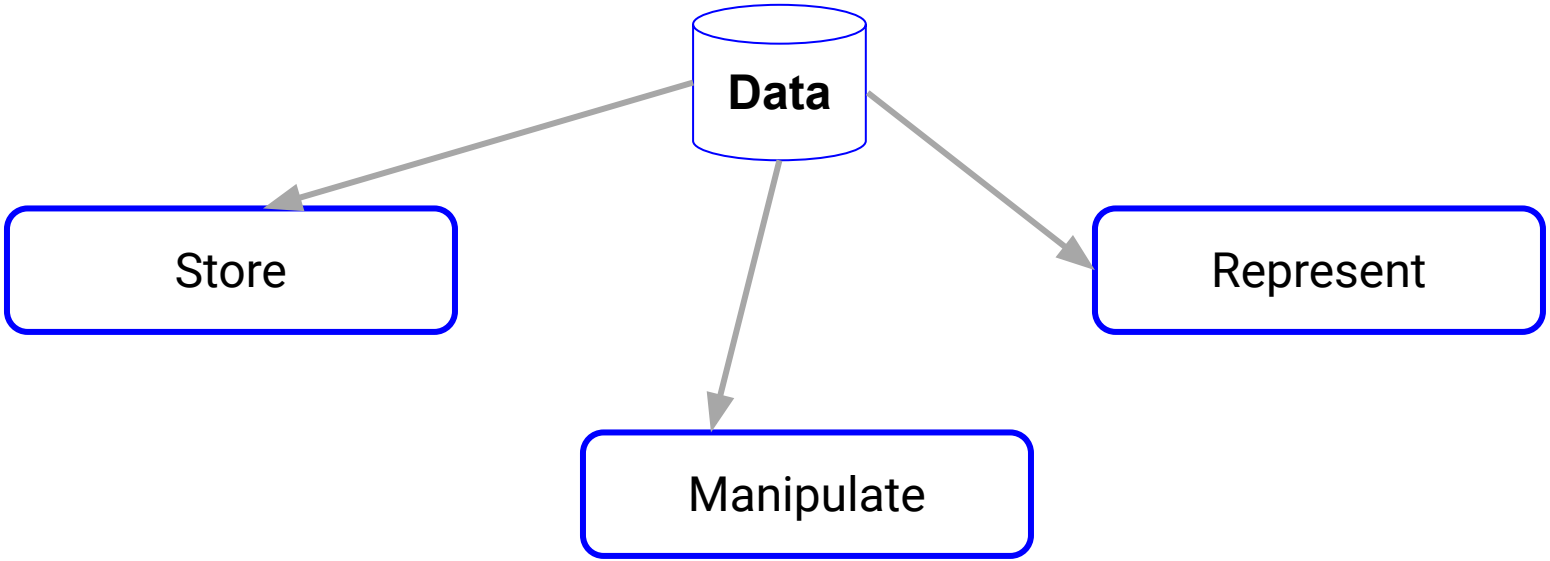
What is a Data Structure?



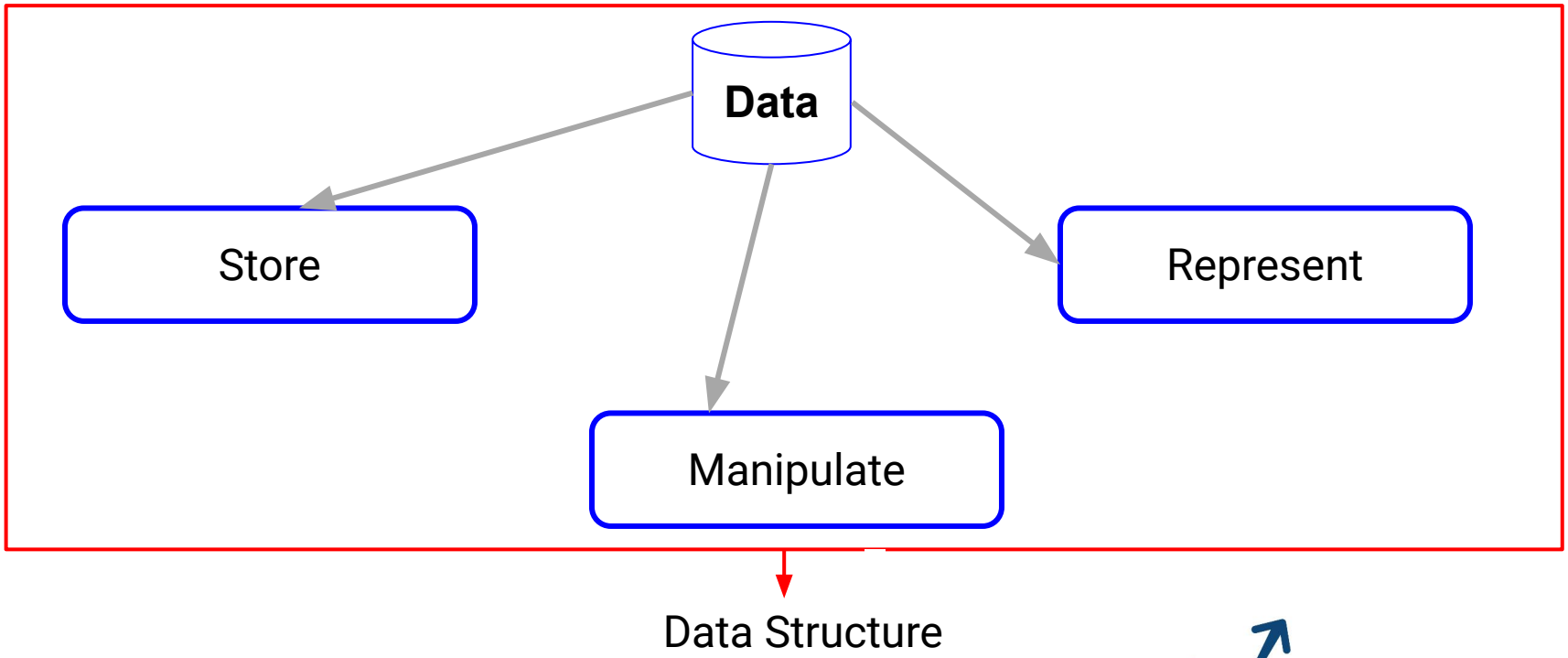
What is a Data Structure?



What is a Data Structure?



What is a Data Structure?



Analytics Vidhya
Learn everything about analytics