

Dataset Type	Fun Facts
List	Ordered, changeable, duplicates allowed
Dictionary	“, “, duplicates not allowed
Set	Unordered, unchangeable*, duplicates not allowed
Tuple	“, “, duplicates allowed

Dataset Representation:

Column Oriented (grouping by features)

Name	City	Age
Matt	LA	27
Dave	San Fran	30
Tim	Oakland	33

Row-Oriented (grouping by a single observation)

Matt	Dave	Tim
LA	San Fran	Oakland
27	30	33

## Indexing

In order to access values in a collection type, we need to **index** into it.

- [List](#)
- [Set](#)
- [Dictionary](#)
- [Tuple](#)

Type	Indexing Pattern
List	name[index]
Dictionary	name[key]
Set	For Loop (next slide)
Tuple	name[index]

## Useful Methods

### Dictionaries:

- values()
- items()
- keys()

### Lists:

- len()
- append()
- sort()

### Other:

- range()
- print()
- split()
- type()
- int()
- str()