Collection types

- Very useful in data science because datasets are the collection of data
 - List
 - Ordered changeable, duplicates allowed
 - Dictionary
 - Ordered, chanageable, duplicates not allowed
 - Set
 - Unordered, unchangeable*, duplicates not allowed
 - o Tuple
 - Unordered, unchangeable, duplicates allowed

Representing Datasets with Code

- Column-oriented:
 - Grouping by features
- Row-oriented:
 - o Grouping by a single observation

Indexing

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

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

Iteration

- You can repeat processes with loops or recursion in python.
 - Python loops:
 - While loops
 - For loops

