Sets



How many unique sports do people play in your office?



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List_of_sports = ["Soccer", "Tennis", "Cricket", "Soccer", "Golf"]



How many unique sports do people play in your office?



List_of_sports = ["Soccer", "Tennis", "Cricket", "Soccer", "Golf"]

Set_of_unique_sports = {"Soccer", "Tennis", "Cricket", "Golf"}





Unordered collection of elements

```
my_set = {'A', 'B', 'C', 'D', 1, 'E', 2, 4}
my_set
{1, 2, 4, 'A', 'B', 'C', 'D', 'E'}
```



- Unordered collection of elements
- No duplicate element

```
my_set = {'A', 'B', 'C', 'D', 1, 'E', 2, 4}

my_set
{1, 2, 4, 'A', 'B', 'C', 'D', 'E'}
```



- Unordered collection of elements
- No duplicate element
- Mutable or modifiable

```
my_set = {'A', 'B', 'C', 'D', 1, 'E', 2, 4}

my_set
{1, 2, 4, 'A', 'B', 'C', 'D', 'E'}
```



- Unordered collection of elements
- No duplicate element
- Mutable or modifiable
- Set theory operations are possible

```
my_set = {'A', 'B', 'C', 'D', 1, 'E', 2, 4}

my_set
{1, 2, 4, 'A', 'B', 'C', 'D', 'E'}
```



Set theory operations

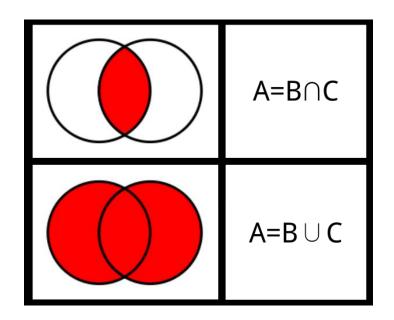
- Intersection of two sets:
 - set1.intersection(set2)

A=B∩C



Set theory operations

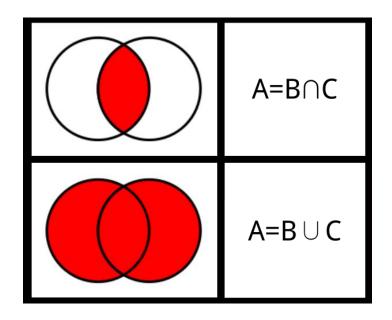
- Intersection of two sets:
 - set1.intersection(set2)
- Union of two sets:
 - o set1.union(set2)





Set theory operations

- Intersection of two sets:
 - set1.intersection(set2)
- Union of two sets:
 - set1.union(set2)
- Subsets etc..





Thank You!



What sets are?

