iOS & Swift Collections Rolan Marat

What is Collection?

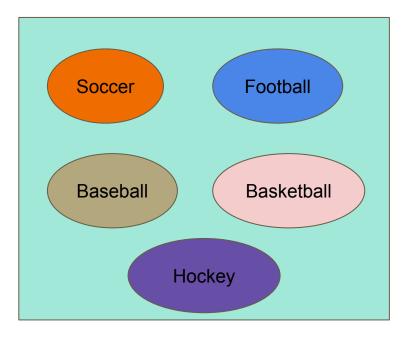
- A container containing different objects
 - Arrays
 - Sets
 - Dictionaries
- Implemented as generic collection

Arrays

0	Milk
1	Flour
2	Banana
3	Milk
4	Flour
N	

- Ordered collection of objects of the same type
- Array of
 - strings
 - integers
 - objects
 - arrays
 - 0 ...
- Array<Element>
- [Element]
- Same value can appear multiple times

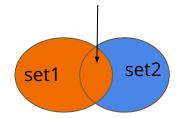
Sets



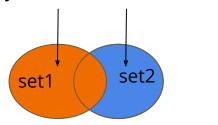
- Unordered collection of unique values/objects
- Type of objects should be hashable
- Set<Element>

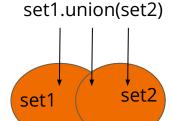
Sets (Operations)

set1.intersection(set2)

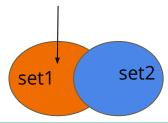


set1.symmetricDifference(set2)

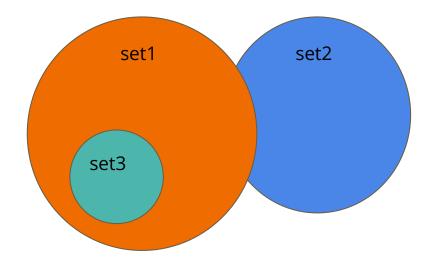








Sets (Membership & Equality)



Dictionaries

0	Milk
1	Flour
3	Banana
4	Apple
5	Sugar
N	

- Unordered collection of key-value associations
- Dictionary<Key, Value>
- [Key: Value]
- Fast look up of values using keys like real-life dictionary
- Keys type supposed to be hashable, like type of objects in Set

Demo

Helpful Resources, References and Take Home

- Exercise to do at home:
 - Implement a collection (array) that has 20 different numbers and print its content
- External References/Tutorials:
 - Collection Types