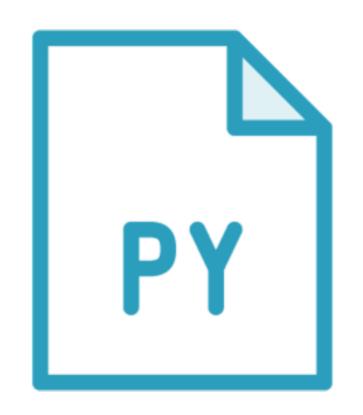
Working with Sets



Jeff Batt FOUNDER & HEAD TRAINER @jeffbatt01 www.learningdojo.net

Reviewing Data Collections

Data Collections in Other Languages



Python

Lists
Tuples
Dictionaries



Java

Lists Sets

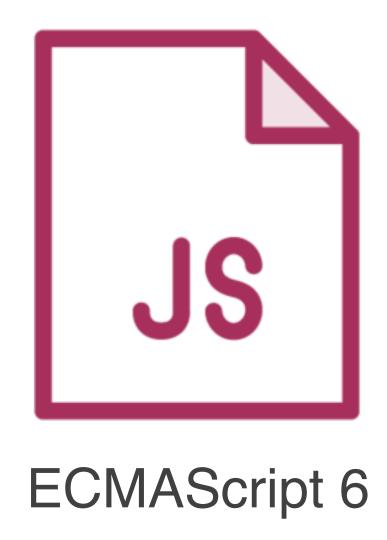
Maps

Queues



Ruby

Hashes Arrays



Released 17 June 2015

New features

New data collections

Data Collection

Stores and structures large amounts of data types for easy access. Provides methods to access that data.

Before and After ES6

Before

ECMAScript

Arrays

Sets

Objects

Maps

WeakSets

WeakMaps

8 Data Types

Boolean

Null

Undefined

Number

BigInt

String

Symbol

Objects

Primitives

Objects

Value in memory which could be referenced by an identifier.

Introducing Sets

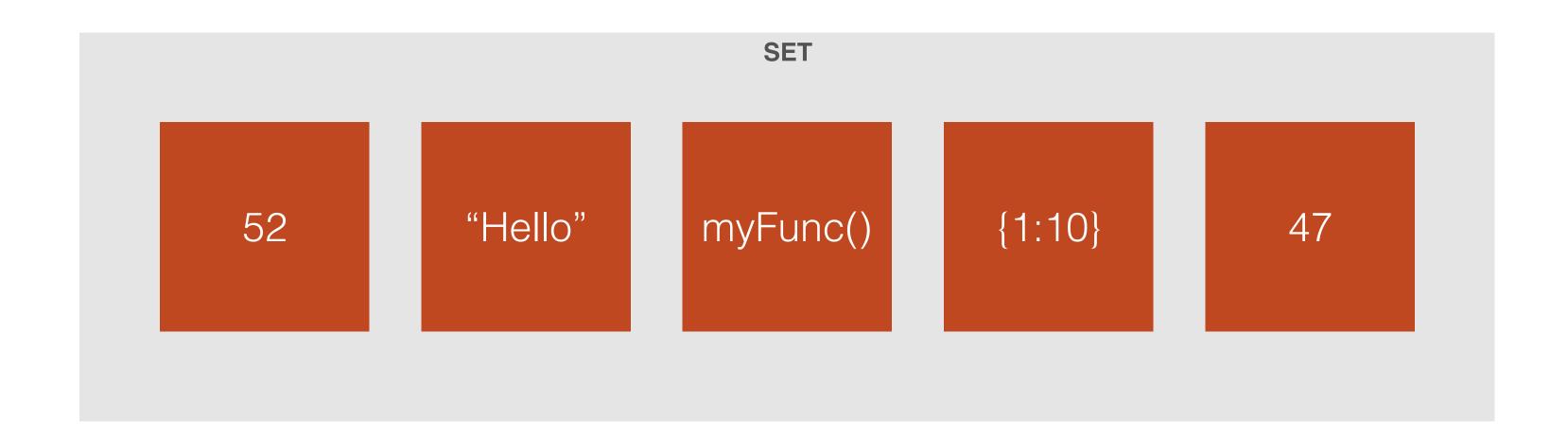
Sets

Enables you to store unique values of any type, whether primitive values or object references.

Unique Values



Any Type



Properties and Methods for Sets

Properties

Methods

Size

Add

Clear

Delete

Entries

forEach

Has

Keys

Values

Adding and Removing Values to a Set

Iterating a Set

Updating the Graphs

Differences between a Set and WeakSet

WeakSet

Only contain objects

NO primitive data types

Objects are held "weakly"

Not iteratable

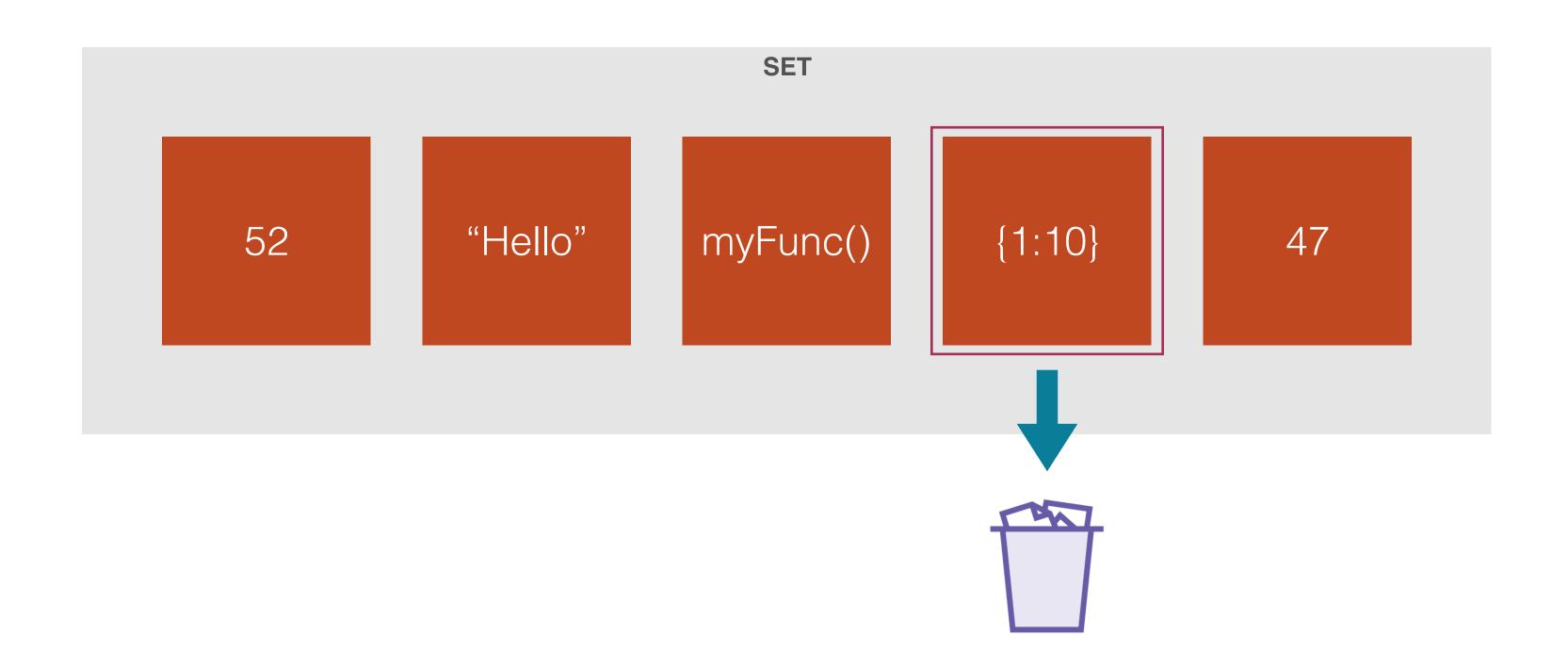
No access to size property

Garbage collected

Garbage Collection

Monitor memory allocation and determine when a block of allocated memory is no longer needed and reclaim it.

Garbage Collection



Set vs. WeakSet Methods

Set

WeakSet

Add

Add

Clear

Delete

Delete

Has

Entries

forEach

Has

Keys

Values

Working with WeakSets

Conclusion

Summary

Data collections

Intro to Sets

Adding/removing values

Iterating sets

Differences between Sets and WeakSets

WeakSets