

Defining and Iterating Collections



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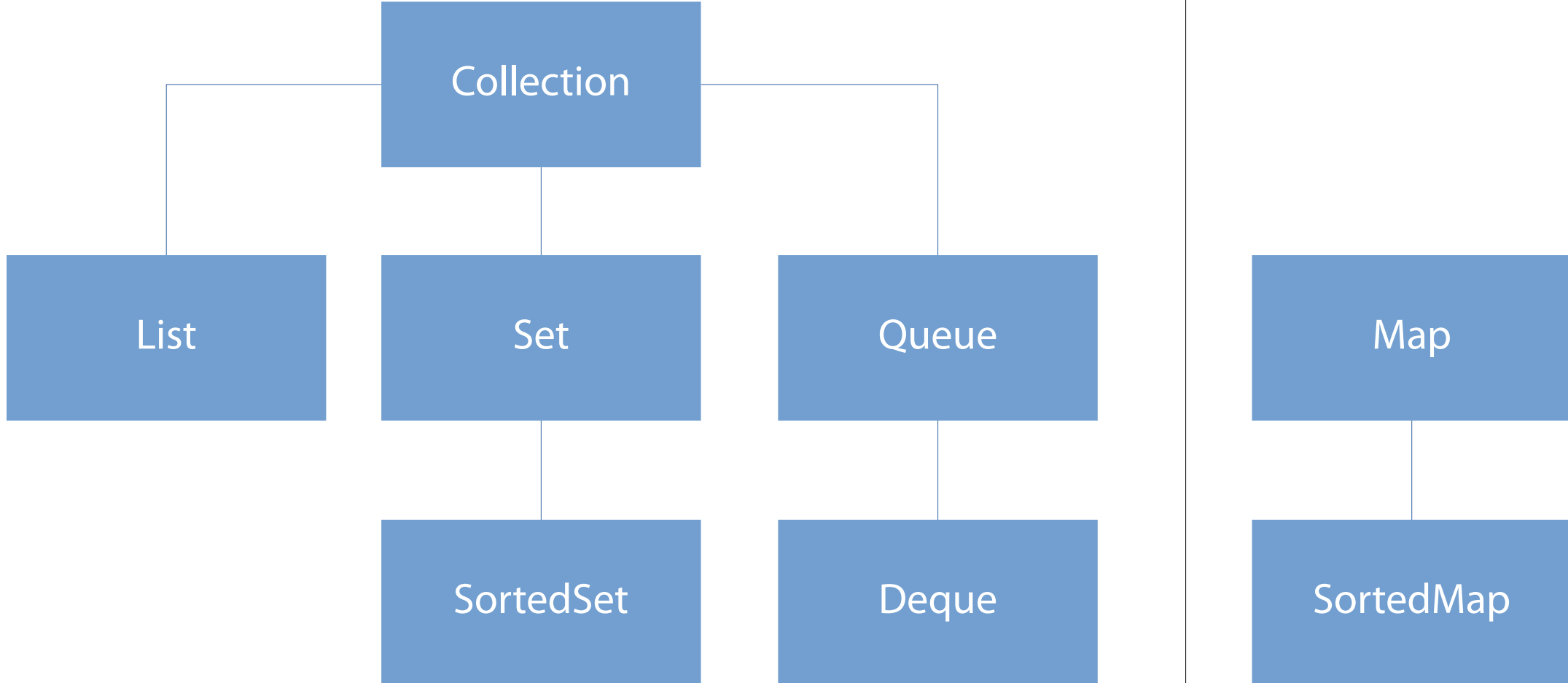
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Collection of
Collections

Interface vs
Implementation

Collection Behaviors

The Collection of Collections

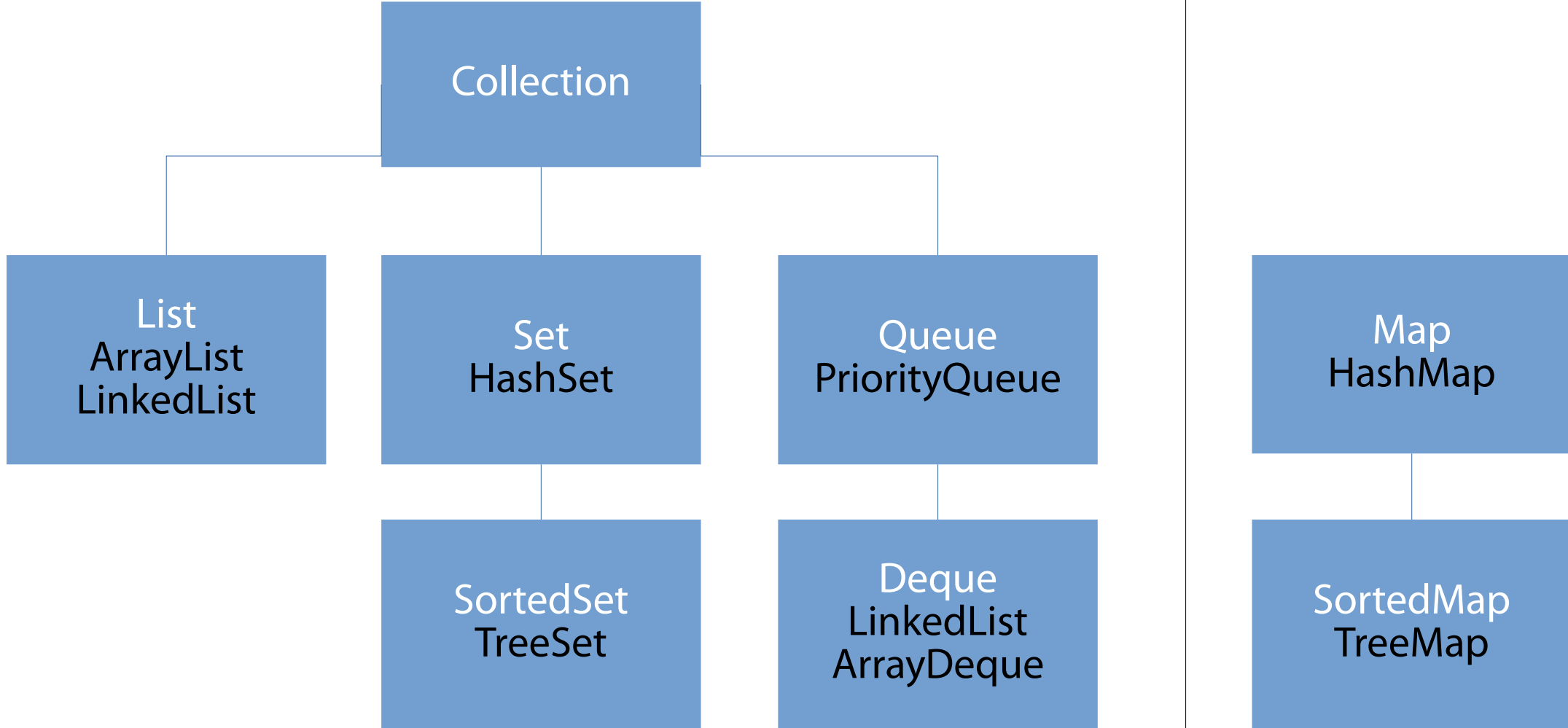


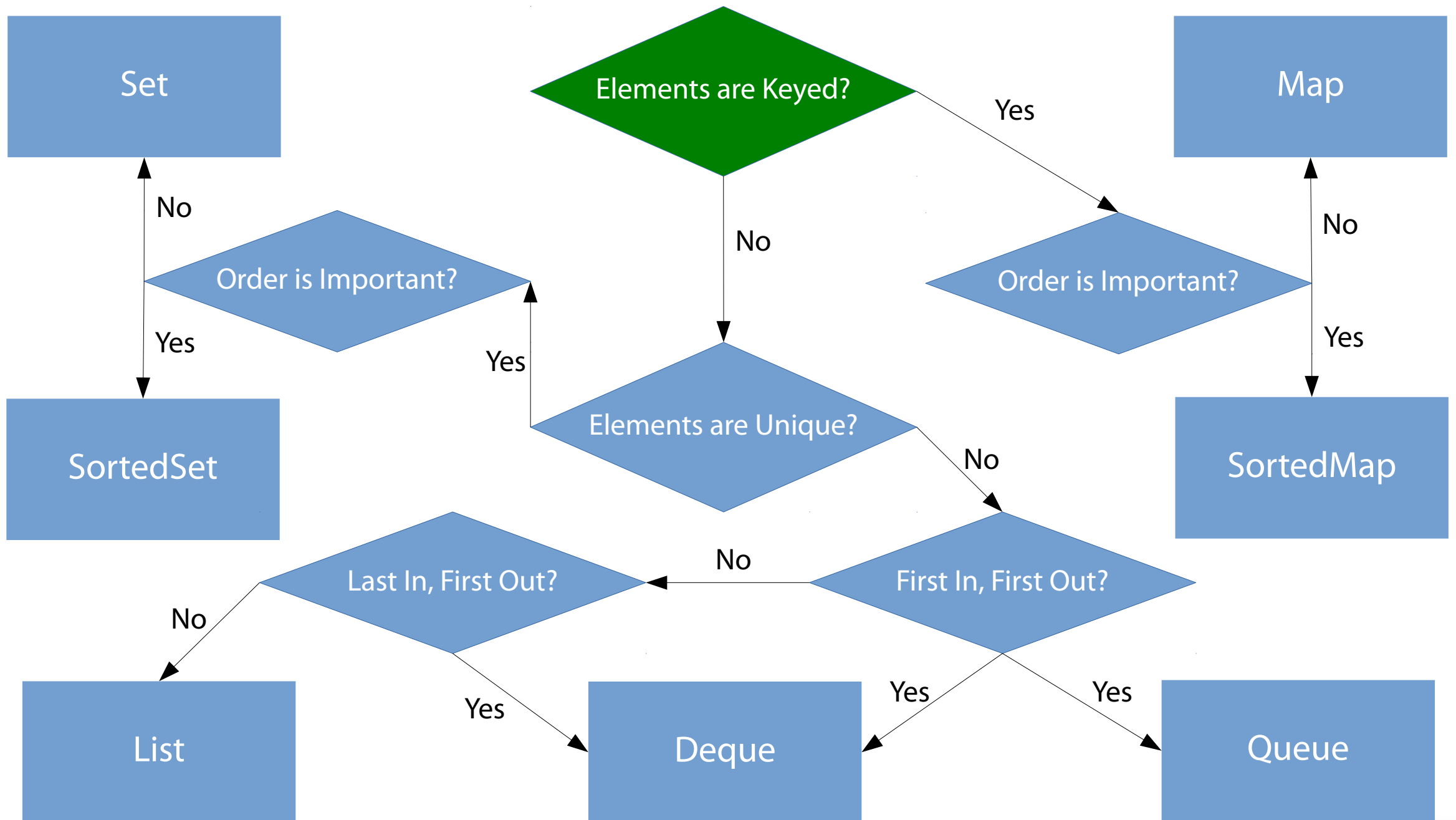
Interfaces

- Multiple Data Structures
- Functional Characteristics
- Prefer as variable type
- Often has a popular implementation

Implementation

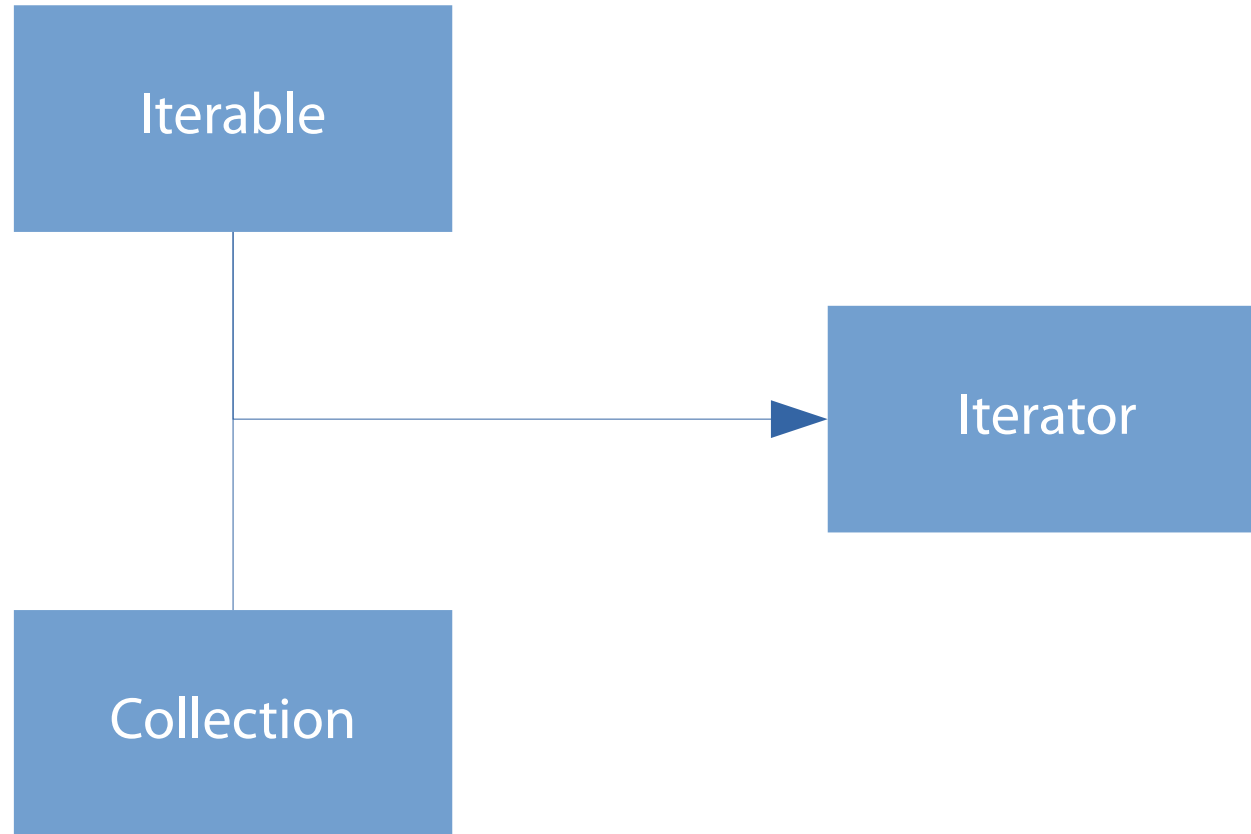
- Specific Data Structure
- Performance Characteristics
- Concrete and Instantiable





Collection Behaviors

Iteration, Sizing and Mutation



Outline of Collection Interface

<code>size()</code>	Get the number of elements in the Collection
<code>isEmpty()</code>	True if <code>size() == 0</code> , false otherwise
<code>add(element)</code>	Add the element at the beginning of this collection
<code>addAll(collection)</code>	Add all the elements of the argument collection to this collection
<code>remove(element)</code>	Remove the element from this collection
<code>removeAll(collection)</code>	Remove all the elements of the argument collection to this collection
<code>retainAll(collection)</code>	Remove all the elements of this collection not in the argument collection
<code>contains(element)</code>	True if the element is in this collection, false otherwise
<code>containsAll(collection)</code>	True if all the elements of the argument collection are in this collection
<code>clear()</code>	Remove all elements from this collection

Summary



The Collection of Collections
When to pick a certain collection
Common Collection Features

