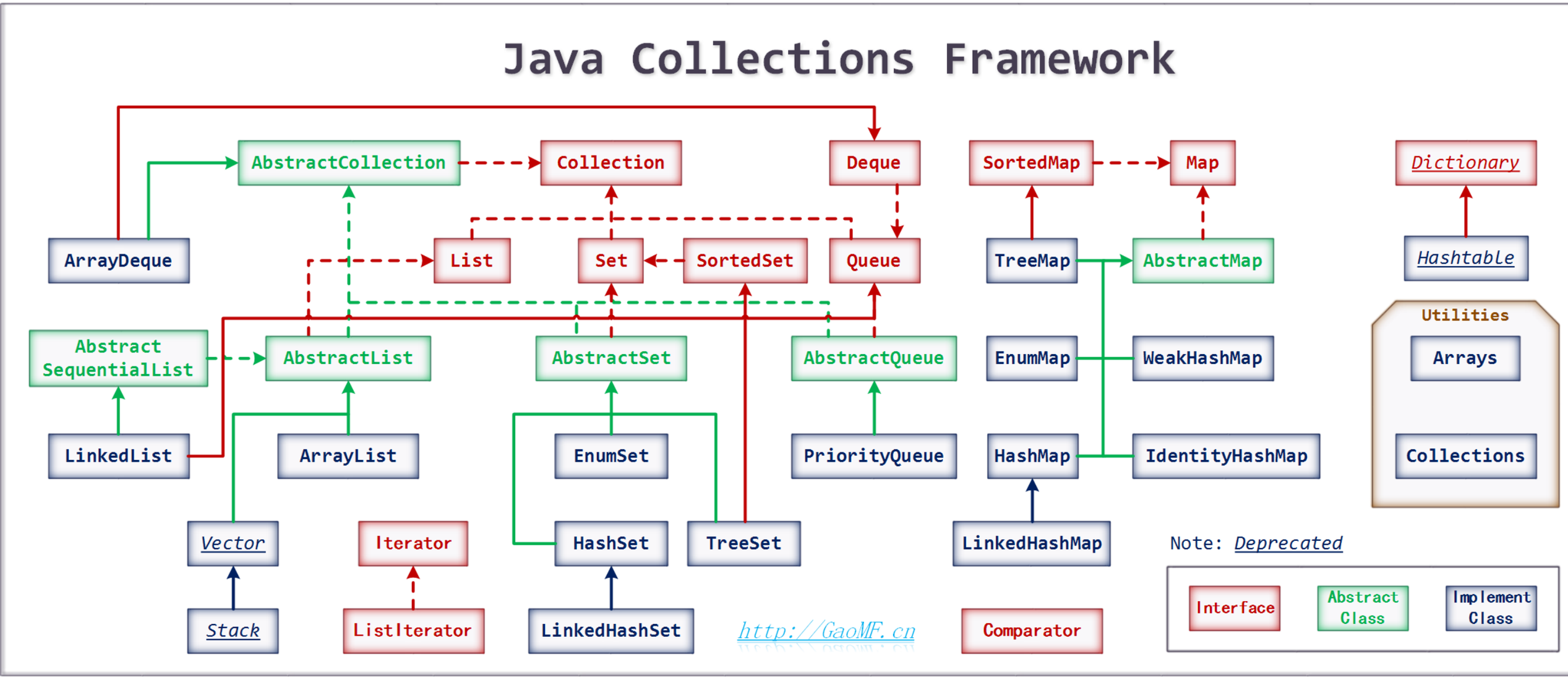
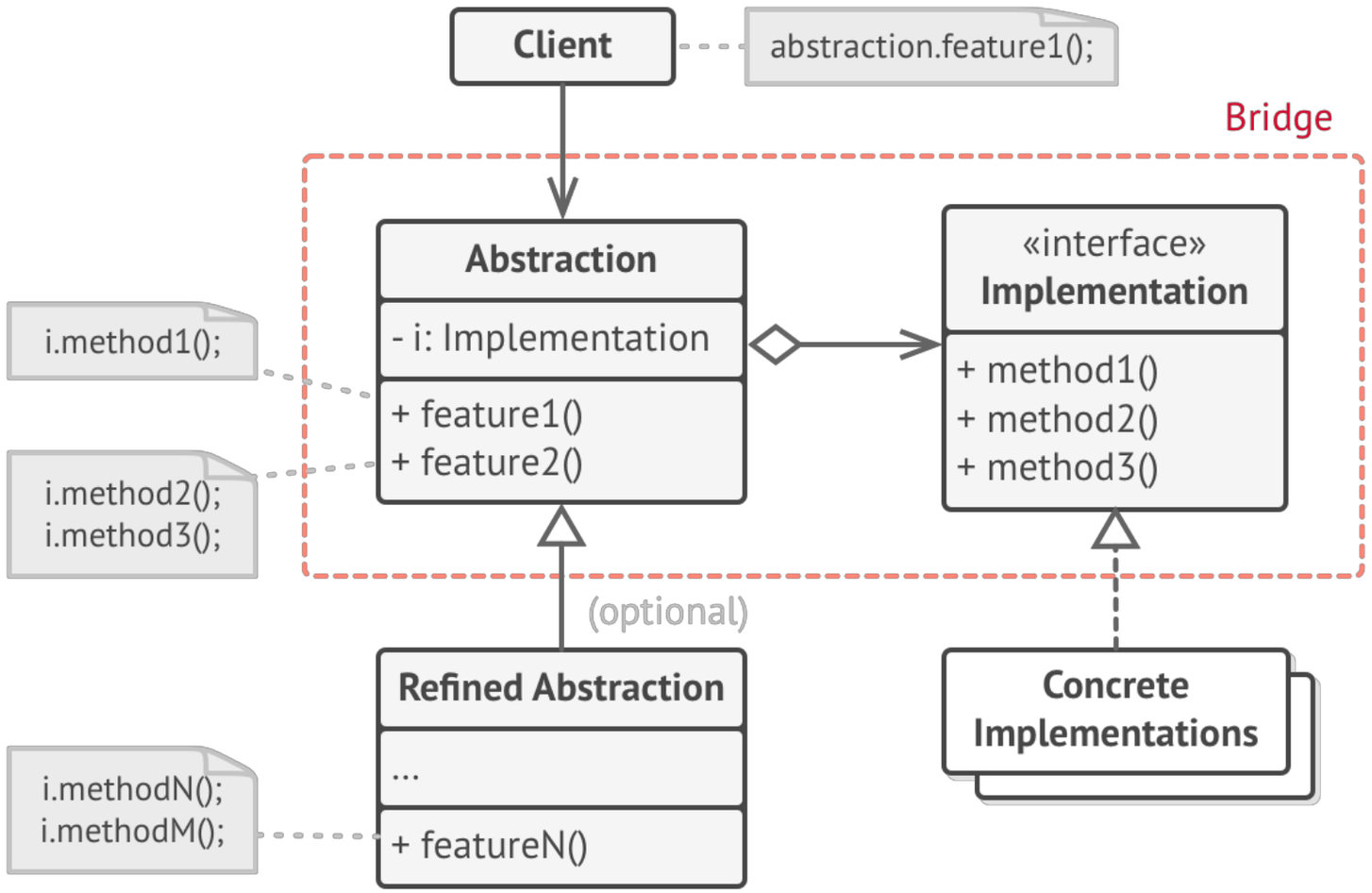
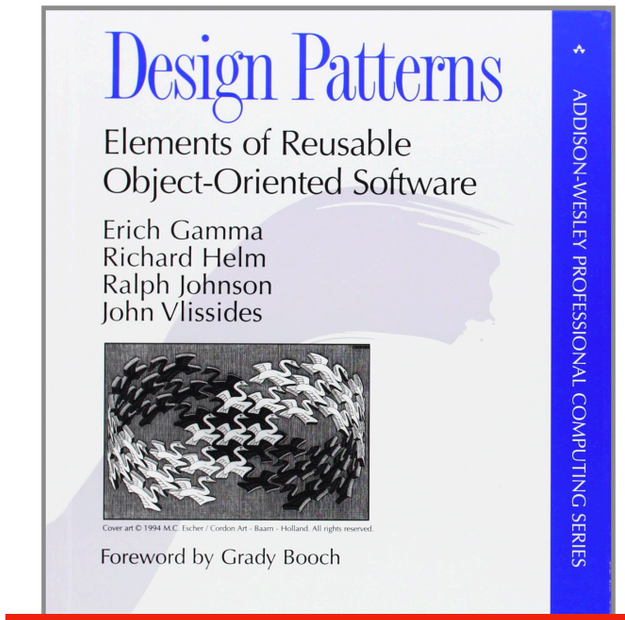
Collection与迭代器

杨亮

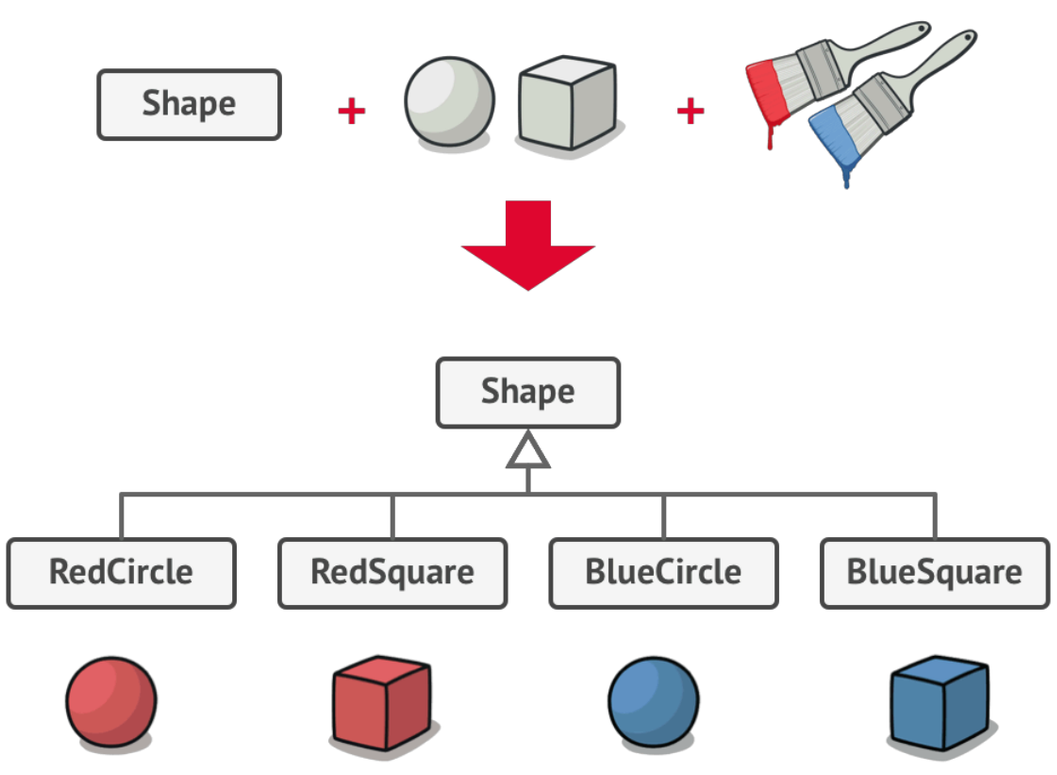


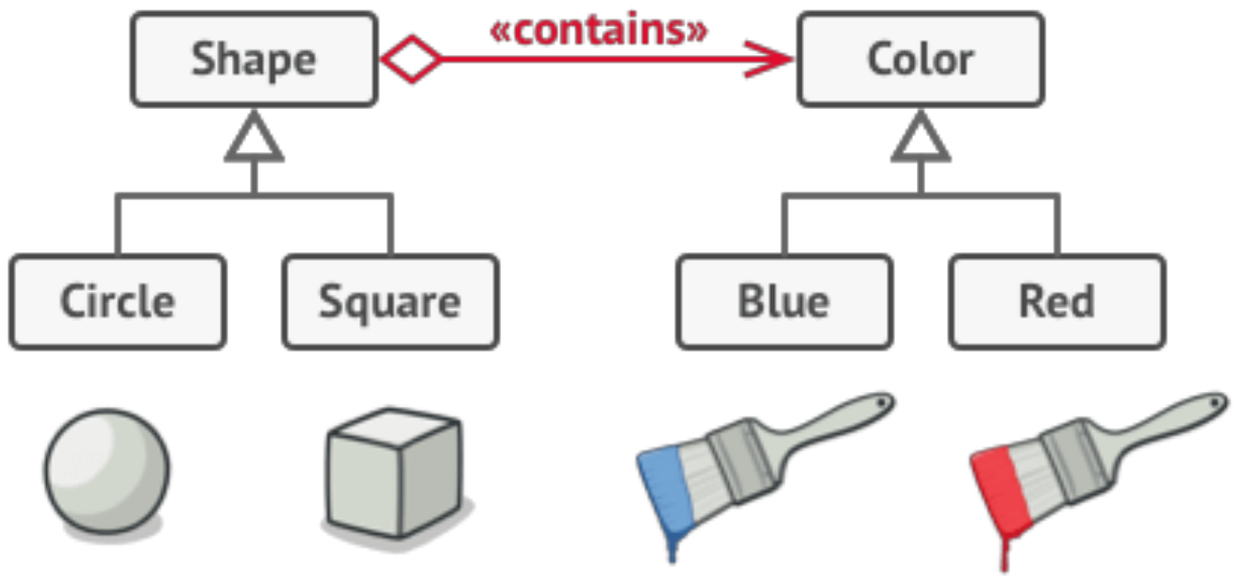
Interface	Hash Table	Resizable Array	Balanced Tree	Linked List	Hash Table + Linked List
Set	**HashSet**	-	**TreeSet**	-	LinkedHashSet
List	-	**ArrayList**	-	**LinkedList**	-
Deque	-	**ArrayDeque**	-	LinkedList	-
Map	**HashMap**	-	**TreeMap**	-	LinkedHashMap


Client
abstraction.feature1();
Bridge
Abstraction
- i: Implementation
+ feature1()
+ feature2()
«interface»
Implementation
+ method1()
+ method2()
+ method3()
i.method1();
i.method2();
i.method3();
(optional)
Refined Abstraction
...
+ featureN()
Concrete
Implementations
i.methodN();
i.methodM();

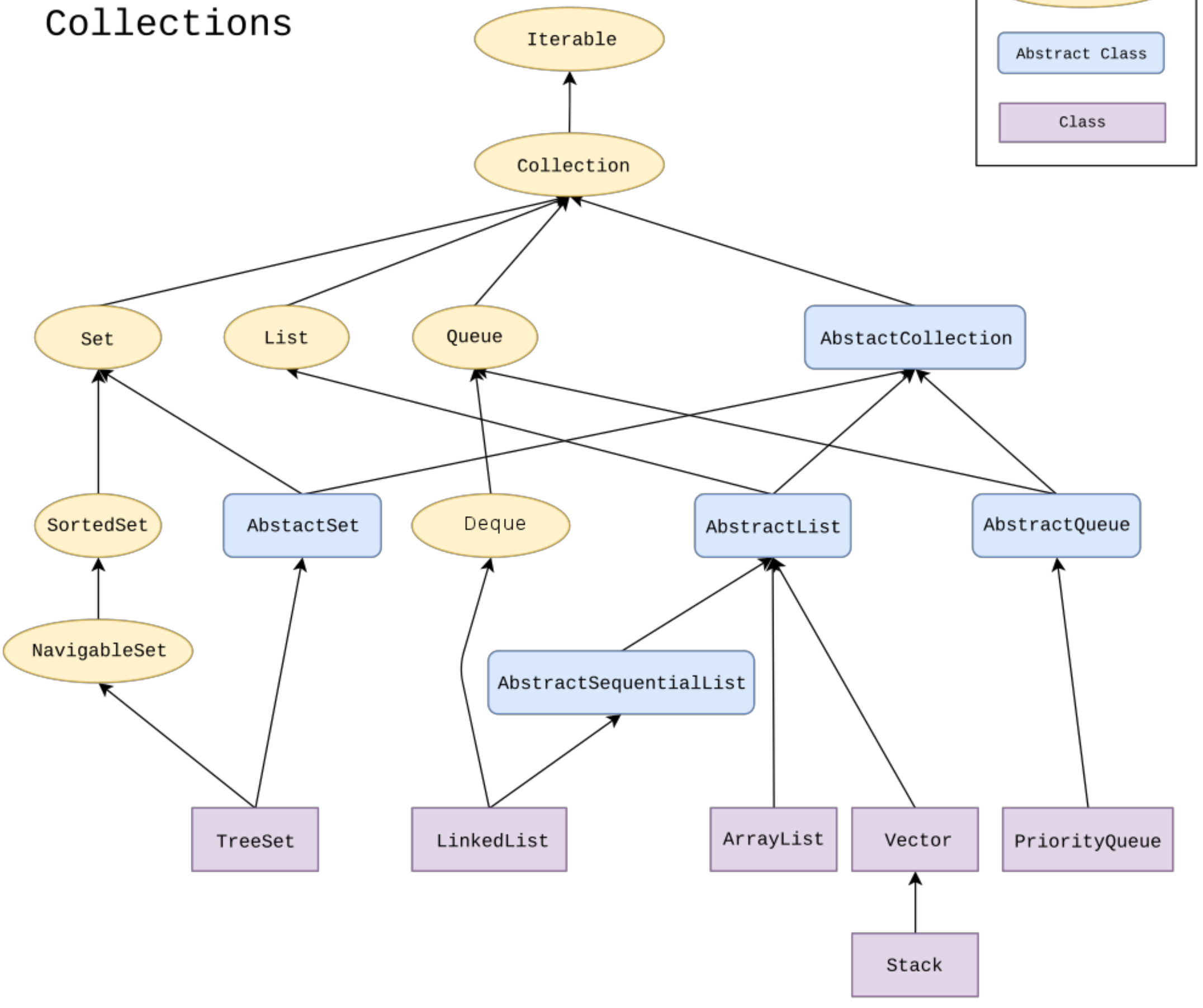

Design Patterns
Elements of Reusable
Object-Oriented Software
Erich Gamma
Richard Helm
Ralph Johnson
John Vlissides
Foreword by Grady Booch
ADDISON-WESLEY PROFESSIONAL COMPUTING SERIES

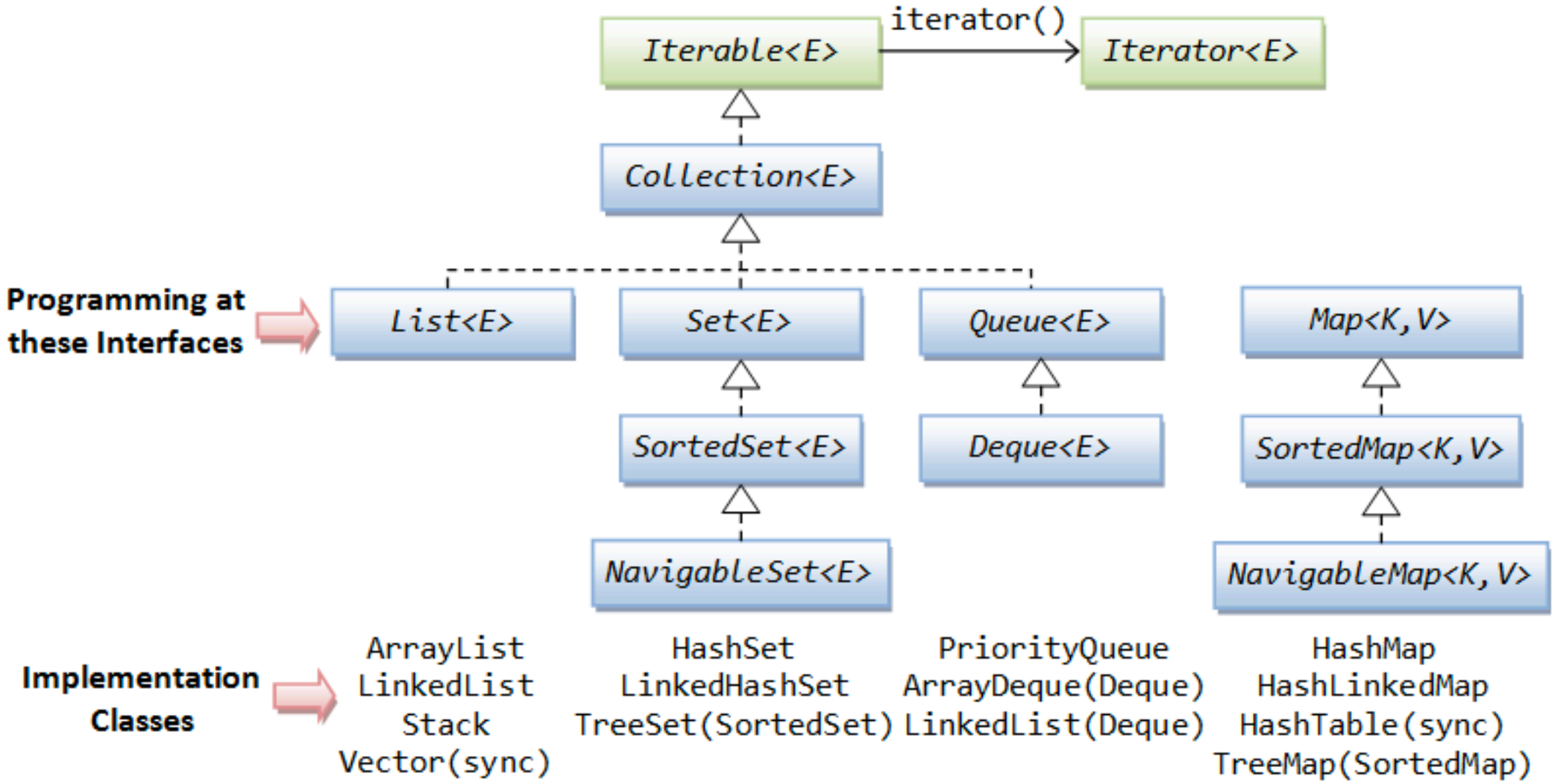
桥接模式


Shape
+
+
Shape
RedCircle
RedSquare
BlueCircle
BlueSquare


Shape
«contains»
Color
Circle
Square
Blue
Red

Collections





Interface	Hash Table	Resizable Array	Balanced Tree	Linked List	Hash Table + Linked List
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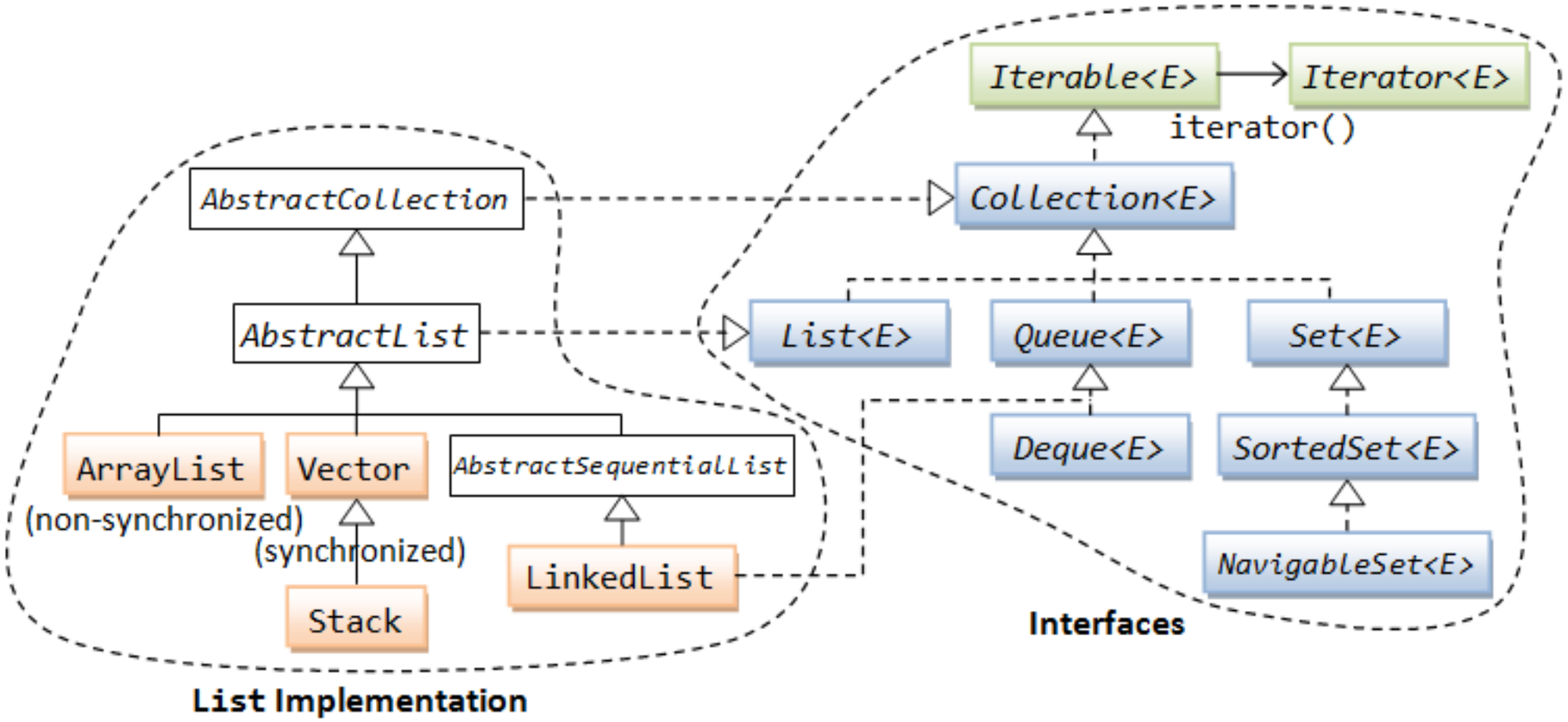
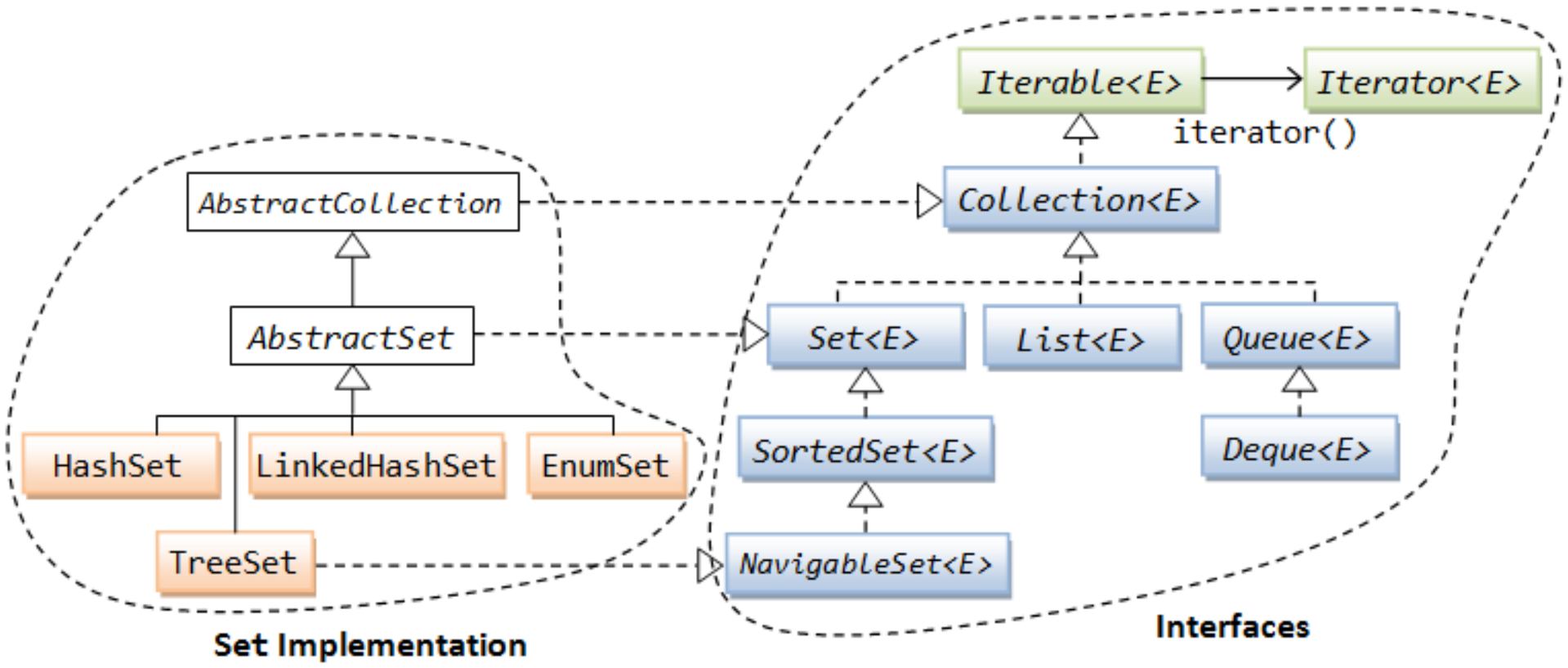
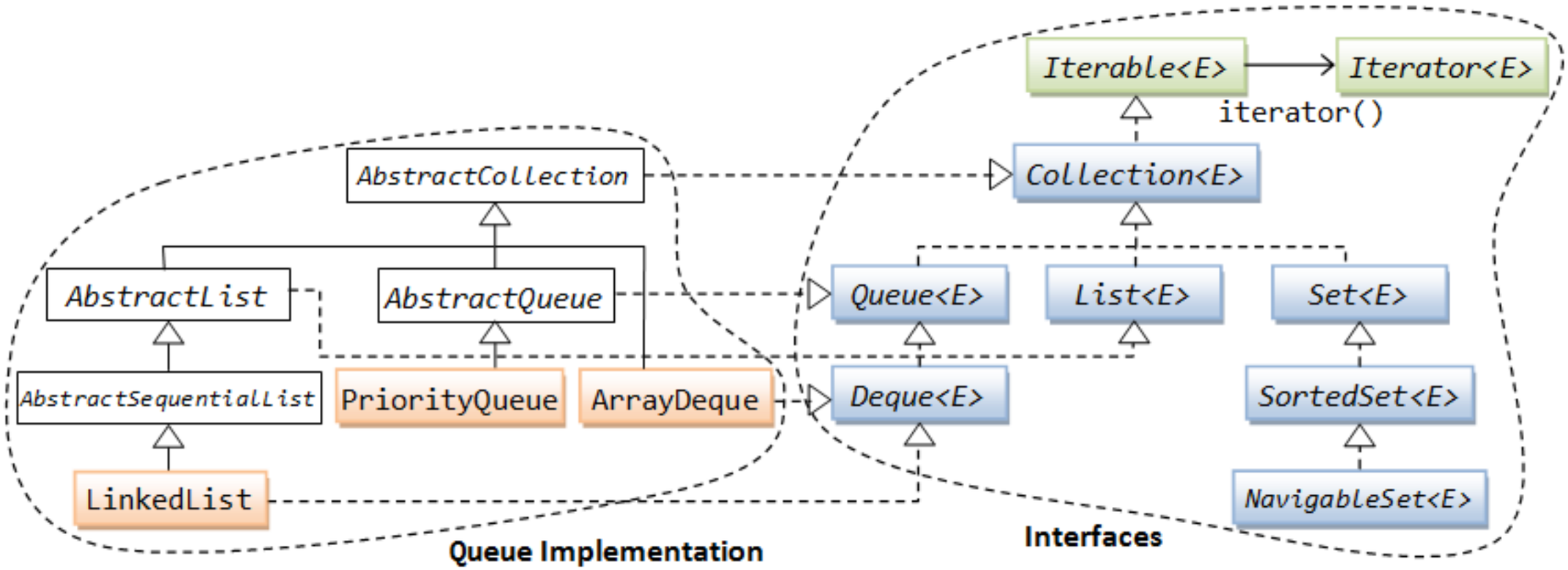
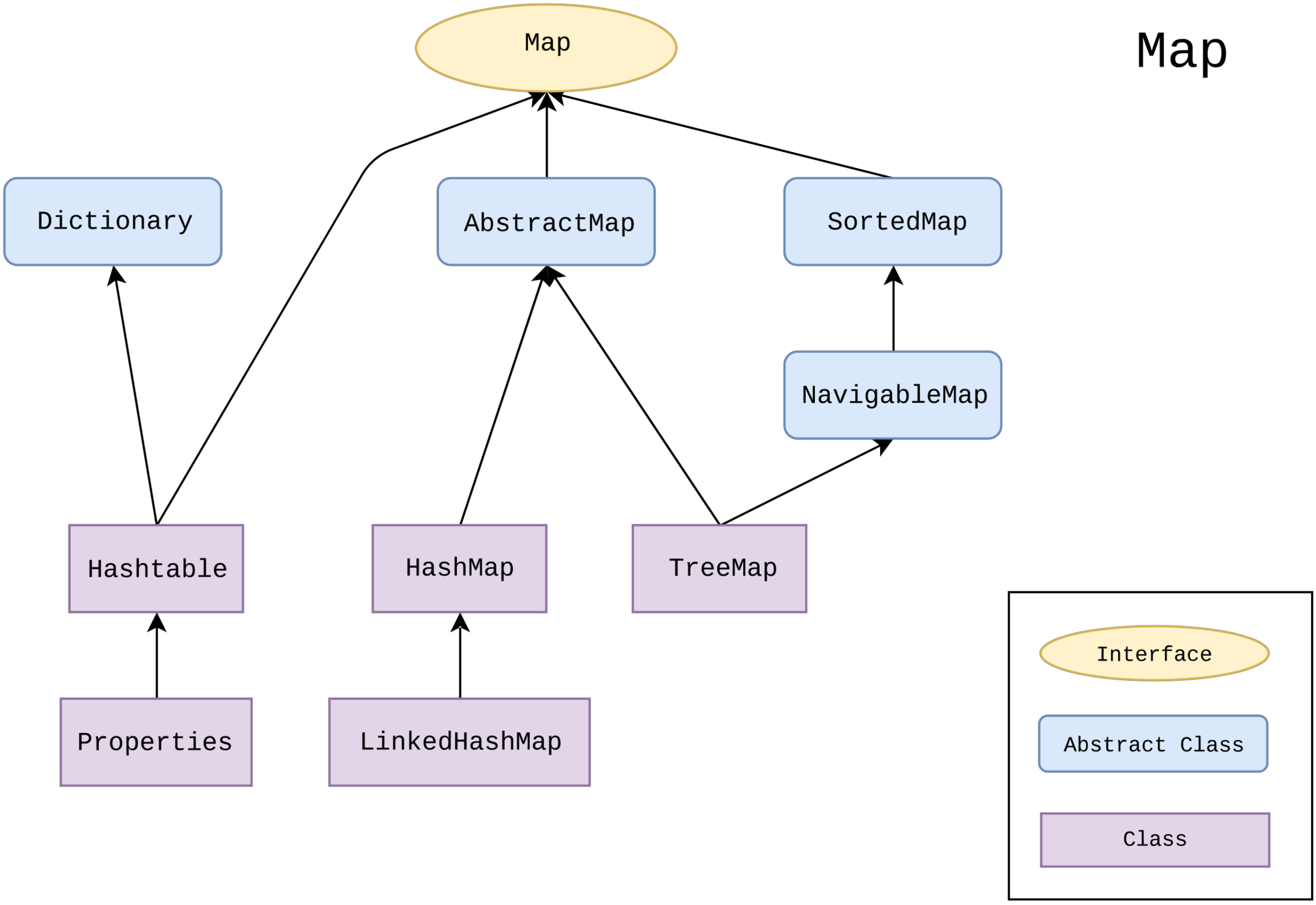
List	–	**ArrayList**	–	**LinkedList**	–
Deque	–	**ArrayDeque**	–	LinkedList	–
Map	**HashMap**	–	**TreeMap**	–	LinkedHashMap

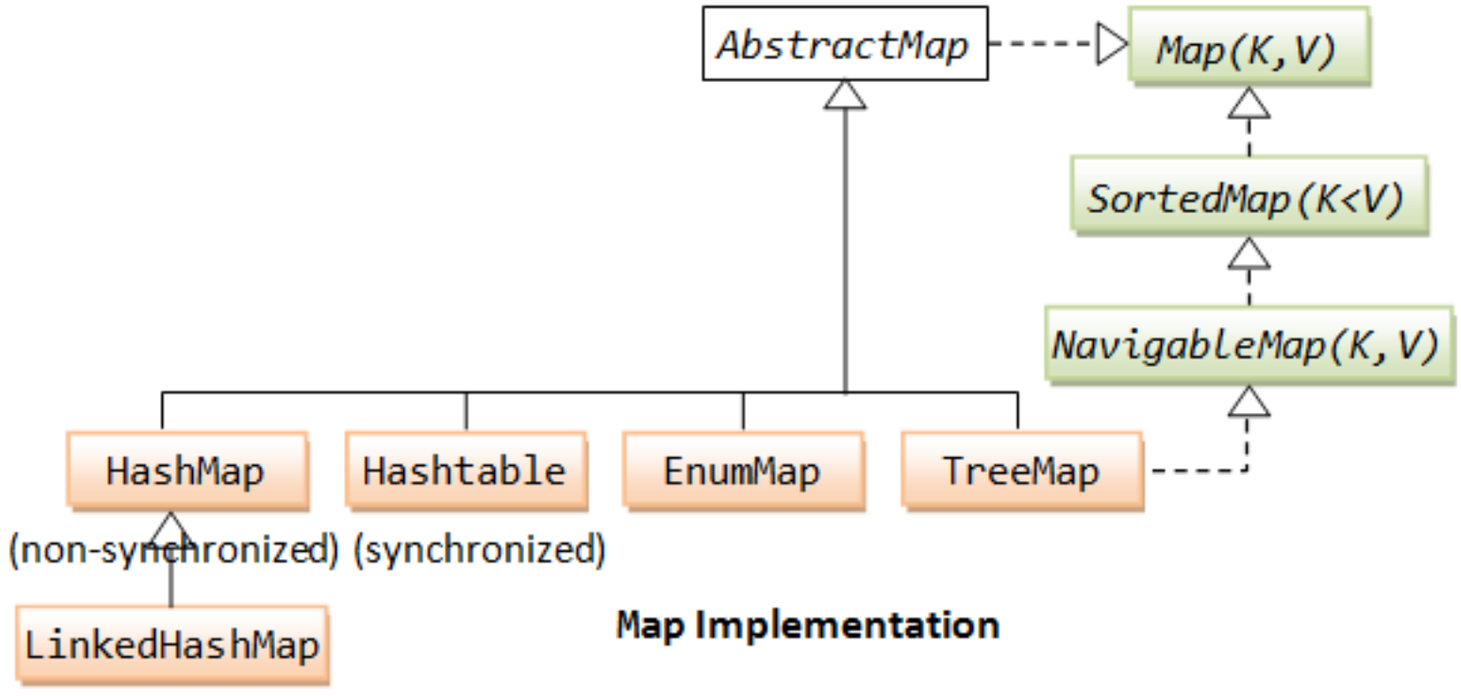

Iterable<E>
Iterator<E>
iterator()
AbstractCollection
Collection<E>
AbstractList
List<E>
Queue<E>
Set<E>
ArrayList
Vector
AbstractSequentialList
Deque<E>
SortedSet<E>
(non-synchronized)
(synchronized)
LinkedList
NavigableSet<E>
Stack
Interfaces
List Implementation


Iterable<E>
Iterator<E>
iterator()
AbstractCollection
Collection<E>
AbstractSet
Set<E>
List<E>
Queue<E>
HashSet
LinkedHashSet
EnumSet
SortedSet<E>
Deque<E>
TreeSet
NavigableSet<E>
Set Implementation
Interfaces


Iterable<E>
Iterator<E>
iterator()
AbstractCollection
Collection<E>
AbstractList
AbstractQueue
Queue<E>
List<E>
Set<E>
AbstractSequentialList
PriorityQueue
ArrayDeque
Deque<E>
SortedSet<E>
LinkedList
NavigableSet<E>
Queue Implementation
Interfaces

Map


Map
Dictionary
AbstractMap
SortedMap
NavigableMap
Hashtable
HashMap
TreeMap
Properties
LinkedHashMap
Interface
Abstract Class
Class



Map Implementation