Java Collections Framework

Core *interfaces*, ***abstract classes***, and **classes**
(diagram excludes concurrent and other special-purpose interfaces and classes)

Collection
Groups of objects

Iterator
Sequential accessor

Comparable
Order relationship

Comparator
Order relationship

Map
Key-value relations

List
Sequential access

Queue
FIFO access

Set
No duplicates

ListIterator
Bidirectional

SortedMap
Ordered key traversal

Deque
Double-ended

SortedSet
Ordered traversal

NavigableMap
Bidirectional traversal

AbstractCollection
Skeletal implementation

NavigableSet
Bidirectional traversal

AbstractMap
Skeletal implementation

AbstractList
Skeletal implementation

RandomAccess
Performance marker

AbstractQueue
Skeletal implementation

AbstractSet
Skeletal implementation

TreeMap
Tree-based

HashMap
Hash table-based

Hashtable
Synchronized

Vector
Synchronized array

AbstractSequentialList
Skeletal implementation

PriorityQueue
Priority-ordered

HashSet
Hash table-based

TreeSet
Tree-based

LinkedHashMap
List-ordered key traversal

ArrayList
Array

LinkedList
Doubly-linked list

ArrayDeque
Resizeable array

LinkedHashSet
List-ordered traversal

Collections
Algorithms & utilities

Arrays
Algorithms & utilities