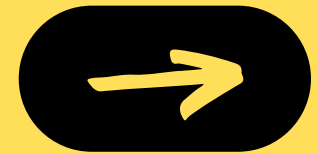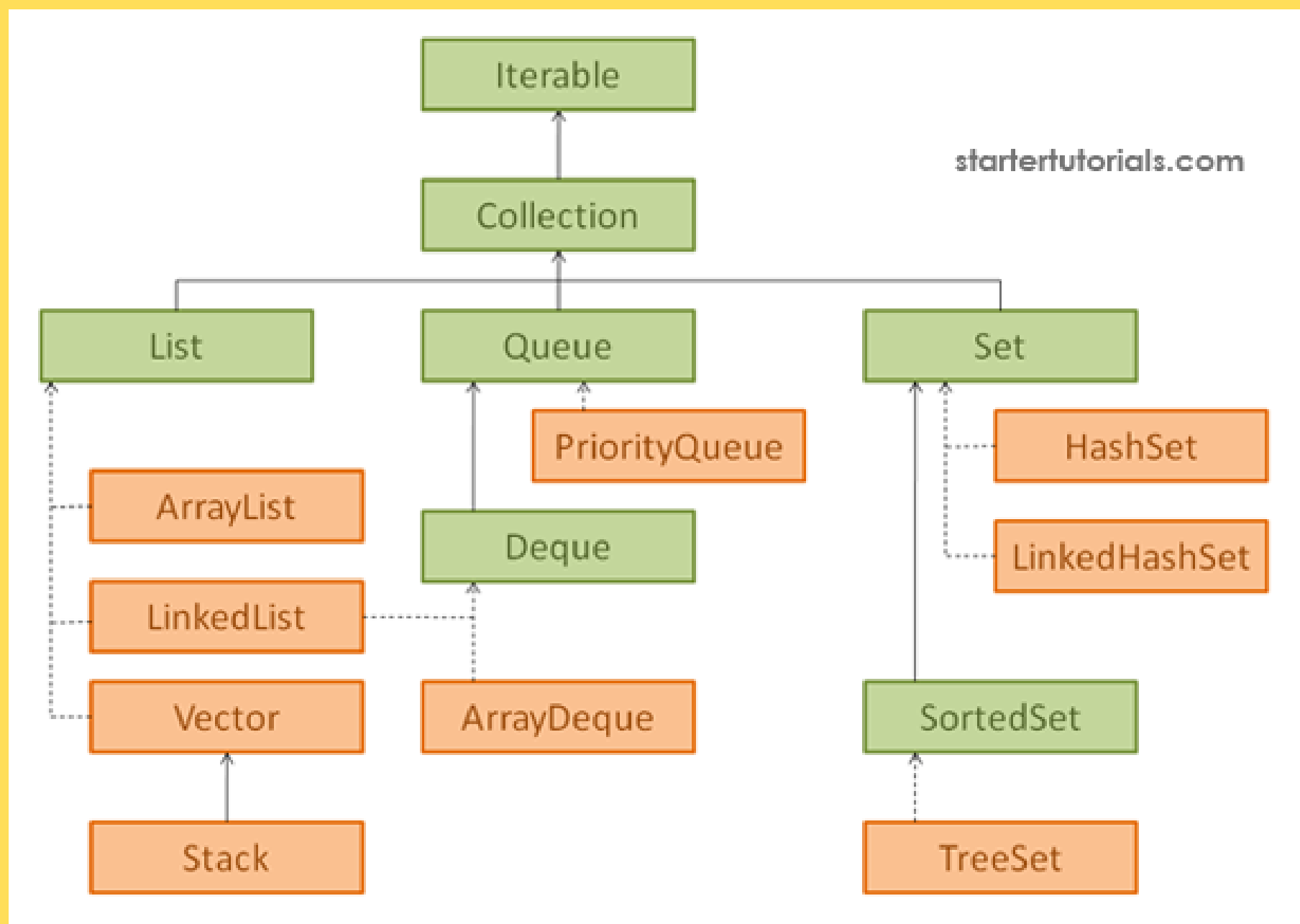# Overview of
Java Collections!

Introduction

Java Collections is a framework provided by Java programming language that helps in managing and storing data efficiently. It includes classes and interfaces for creating and manipulating collections of objects.

Collection Hierarchy

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Collection

Collection is the root interface of the Collection hierarchy, and it defines the basic operations that can be performed on a collection of objects.

List, Set, Queue and Deque are interfaces that extends the Collection.

List

List is useful when you need to maintain the order of elements and allow duplicates.

- ArrayList
- LinkedList
- Vector
- Stack

Queue

Queue interface maintains the FIFO(First In First Out) order similar to a real-world queue line.

- PriorityQueue
- LinkedList
- ArrayDeque

Deque

A double-ended queue, is a data structure where we can add and remove the elements from both the ends of the queue.

- LinkedList
- ArrayDeque

Set

Ideal when you want to ensure that there are no duplicates and order doesn't matter.

- HashSet
- LinkedHashSet
- TreeSet (sorted)

Map

This interface defines a mapping between keys and values. Each key in the map must be unique, and it is used to access the corresponding value.

- HashMap
- LinkedHashMap
- TreeMap (sorted by key)

was this post helpful to you?

Be sure to save it so you
can come back to it later!