

# Java 13 API Docs

<https://docs.oracle.com/en/java/javase/13/docs/api/index.html>

## Basic

These are the basic classes that are used in most console applications.

- [System](#)  
Provides access to the runtime environment.
- [Scanner](#)  
Allows you to read user input from the console.
- [String](#)  
Stores a string of UTF-16 encoded characters. Strings are immutable.
- [StringBuilder](#)  
Stores a string of characters in a mutable manner. Call toString() to copy to a String.
- [Character](#)  
Boxed version of char primitive type. Provides some utility methods for working with characters.
- [Integer](#)  
Boxed version of int primitive type. Provides some utility methods for working with integers.
- [Double](#)  
Boxed version of double primitive type. Provides some utility methods for working with floating point numbers.
- [Math](#)  
Provides commonly used utility methods for working with numbers.
- [Random](#)  
Used to generate random numbers.

## Collections

Many of these classes were added/enhanced in Java 5. They provide standard ways of manipulating and storing collections of data.

- [java.util.Arrays](#)  
Provides static utility methods and common algorithms for working with **arrays**.
- [java.util.Collections](#)  
Provide static utility methods and common algorithms for working with **collections**.
- [java.util.Collection \(interface\)](#)  
All generic collections implement this interface. A collection is an **unordered** set of items.
- [java.util.List \(interface\)](#)  
A list an **ordered** sequence of items, that can be modified. List is a subclass of Collection.
- [java.util.ArrayList](#)  
An implementation of the List interface that backed by an **array**.
- [java.util.LinkedList](#)  
An implementation of the List interface that backed by a **linked list**.

- [\*\*java.util.Map \(interface\)\*\*](#)  
A map is an object that maps keys to values.
- [\*\*java.util.HashMap\*\*](#)  
An implementation of the Map interface that is backed by a hash table.
- [\*\*java.util.LinkedHashMap\*\*](#)  
A subclass of the HashMap class which keeps track of the order that entries are inserted in with an integrated linked list.

## Stream API

The Streams API was added as part of Java 8. It provides a lot of useful utility methods for working with collections in a functional and efficient manner.

<https://docs.oracle.com/en/java/javase/13/docs/api/java.base/java/util/stream/package-summary.html>

- [\*\*java.util.stream.Stream\*\*](#)  
Provides several useful utility methods for converting collections to streams and manipulating those streams.
- [\*\*java.util.stream.Collectors\*\*](#)  
Provides utility methods to work with the Stream.collect() method.
- [\*\*java.util.function.Function\*\*](#)  
Generic base class for lambda functions.