













Object

String is a Java object

Characters

Represents a sequence of characters

Class

java.lang.String class is used to create and manipulate strings

Immutable

A string is immutable in nature









With Strings in Java you can perform various operations, some of which are:

Search

The quick brown fox jumps over the lazy dog

Create Substring

The quick brown fox jumps over the lazy dog

Create new strings

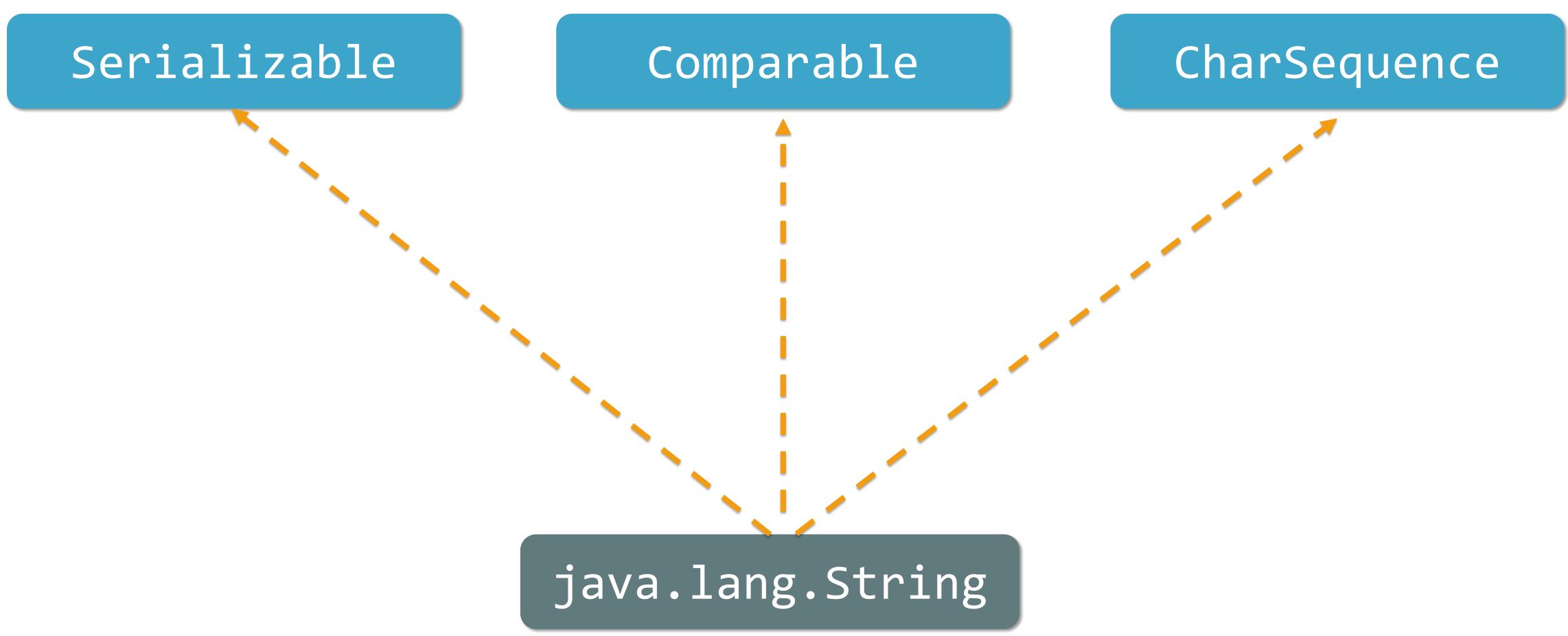
The quick brown fox jumps over the lazy dog











public final class String
 extends Object
 implements Serializable, Comparable<String>, CharSequence









Serializable

Serializable is a marker interface that contains no data member or method. It is used to "mark" the java classes so that objects of these classes may get a specific capability

Comparable

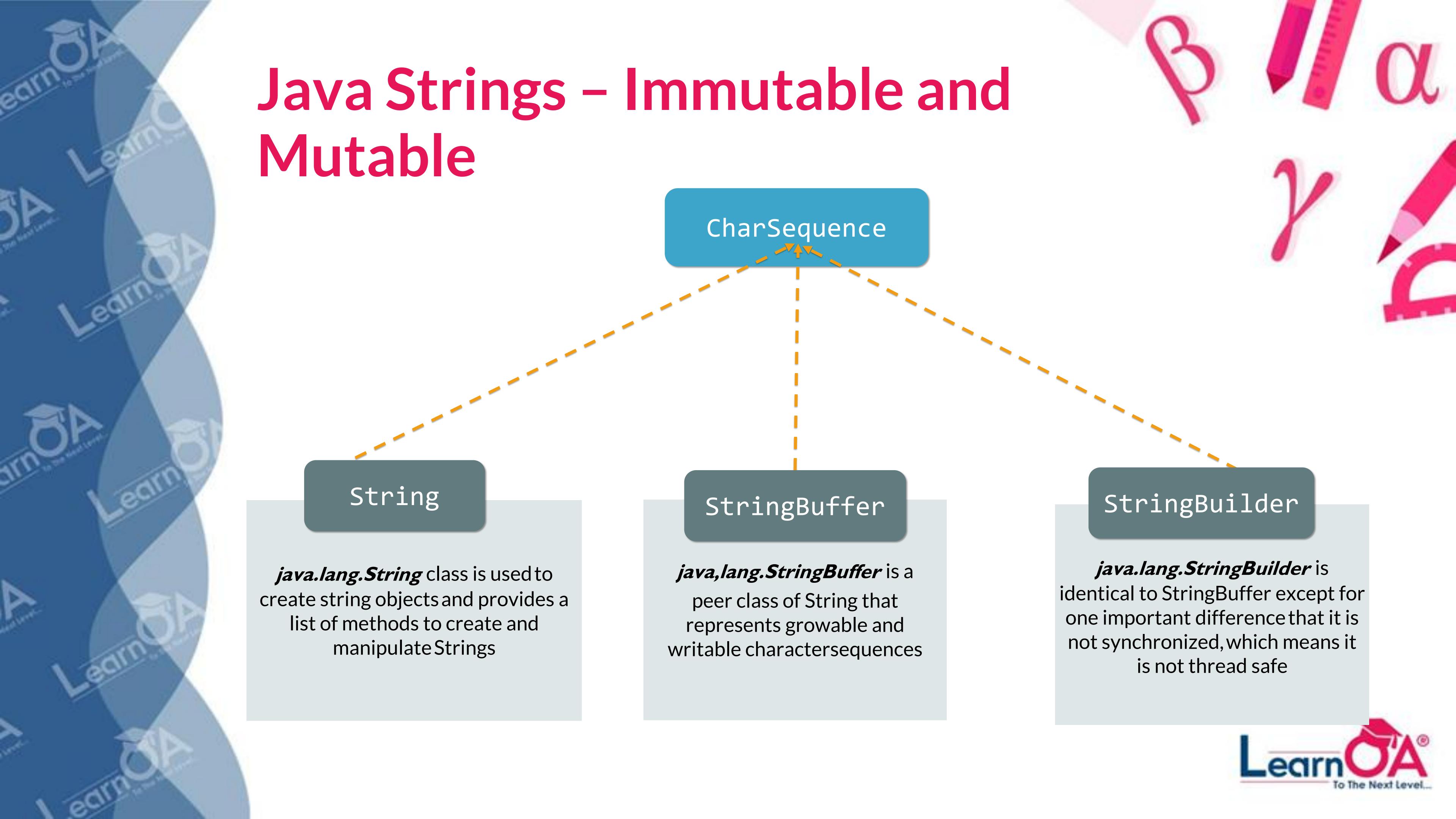
Comparable interface is used for ordering the objects of any user-defined class. This interface is found in <code>java.lang.package</code> and contains only one method named <code>compareTo(Object)</code>

CharSequence

A CharSequence interface is a readable sequence of characters.

This interface provides uniform, read-only access to various kind of character sequences







Creating a String





Creating a String - Using Literal

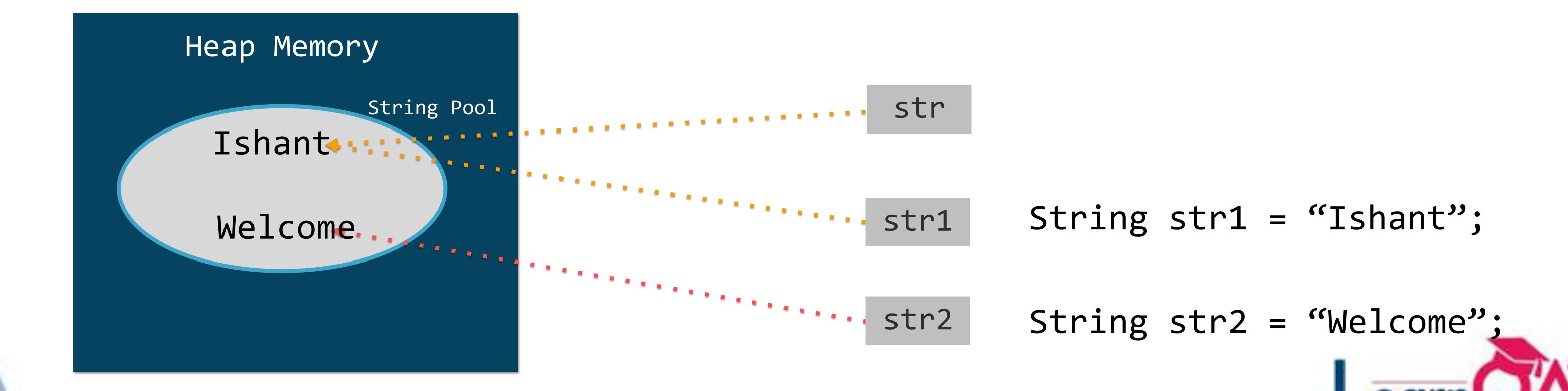


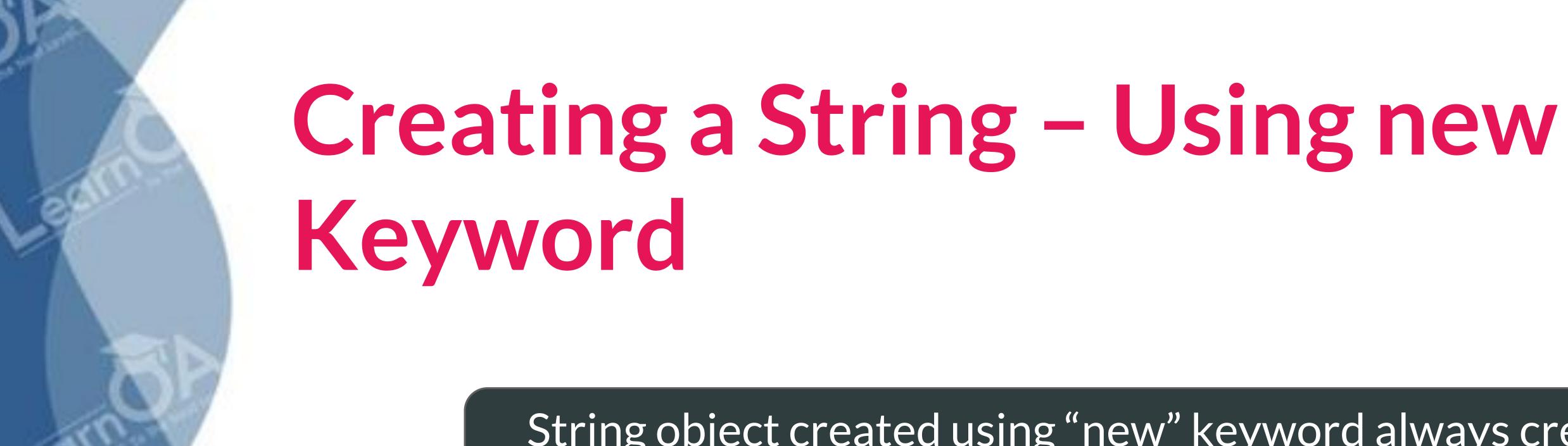


Java String literal is created by using double quotes

```
String str = "Ishant";
```

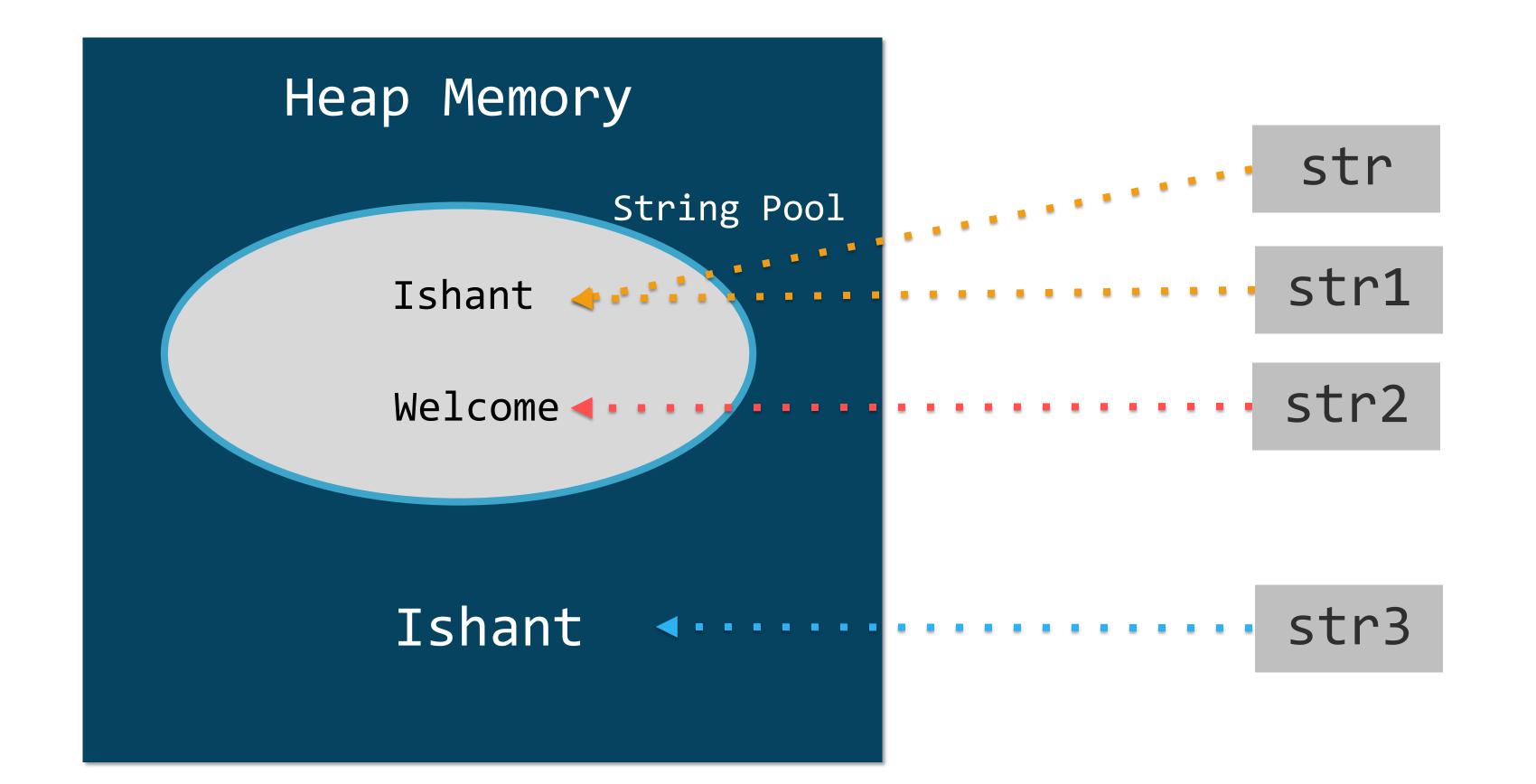
Before creating a String literal, Java first looks for a String with same value in the String pool. If found, it returns the reference; else it creates a new String in the pool & returns the reference





String object created using "new" keyword always creates a new object in heap memory

```
String str = new String ("Ishant");
```







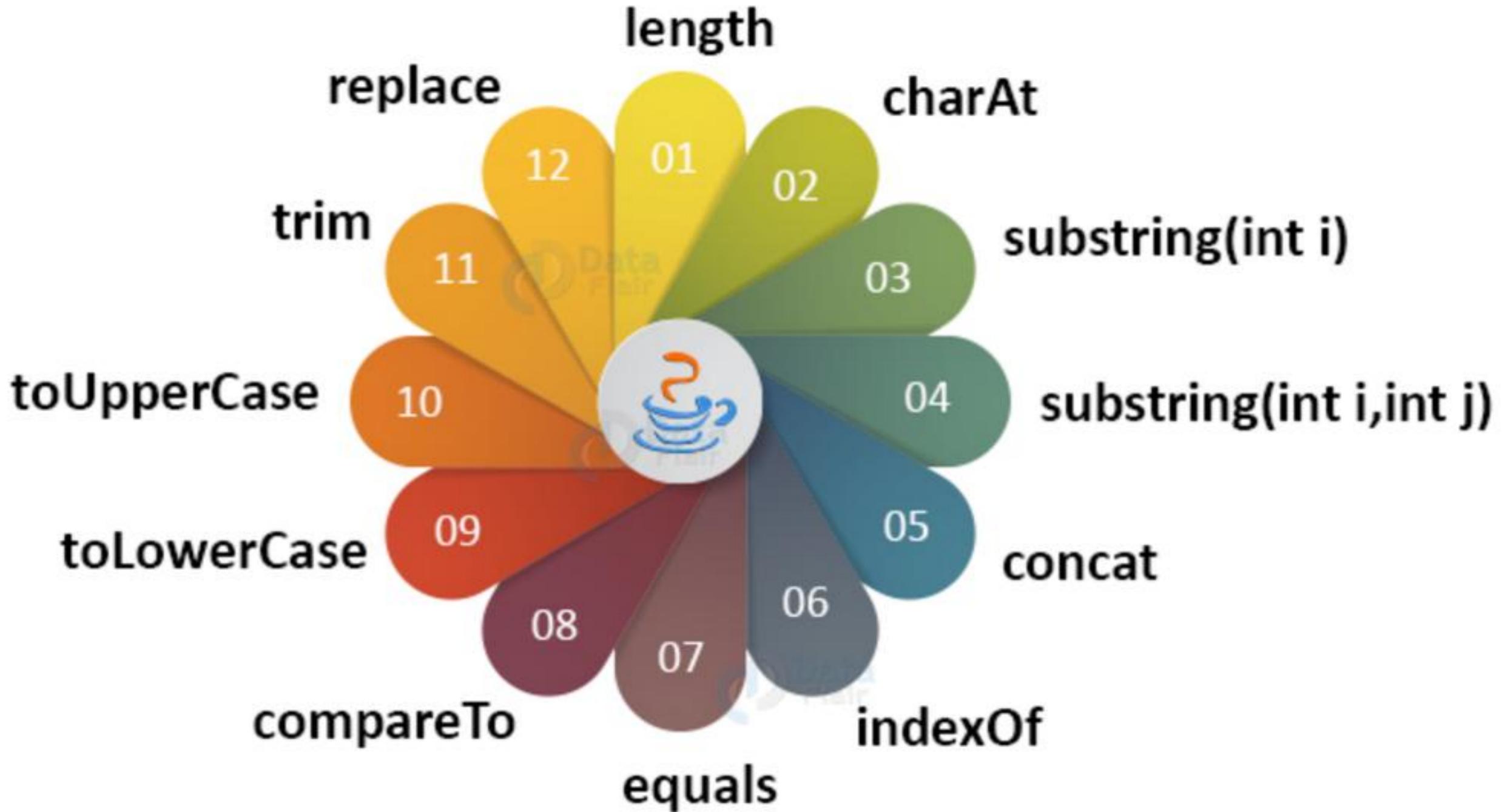


String Methods

















String Methods

boolean equals(Object another)
equalsIgnoreCase()
length()
charAt(i)
toUpperCase()
toLowerCase()
replace(oldVal, newVal)
trim()
contains("value")
toCharArray()
IsEmpty()
endsWith()
concat()

cks the equality of string with the given object pares another string without matching the case Returns a strings length Returns a character at a index 'i' Returns the string in uppercase Returns the string in lowercase currences of the specified char value with the given value white spaces from the beginning and ending of string matching sequence of char value and returns true/false Converts a string to a new character array Checks whether the string is empty or not cks if the string ends with the specified suffix Concatenates two strings





StringBuilder and StringBuffer





StringBuilder vs StringBuffer





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StringBuffer vs StringBuilder

StringBuffer is synchronized i.e. thread safe. It means two threads can't call the methods of StringBuffer simultaneously.

StringBuilder is non-synchronized i.e. not thread safe. It means two threads can call the methods of StringBuilder simultaneously.

StringBuffer is less efficient than StringBuilder.

StringBuilder is more efficient than StringBuffer.

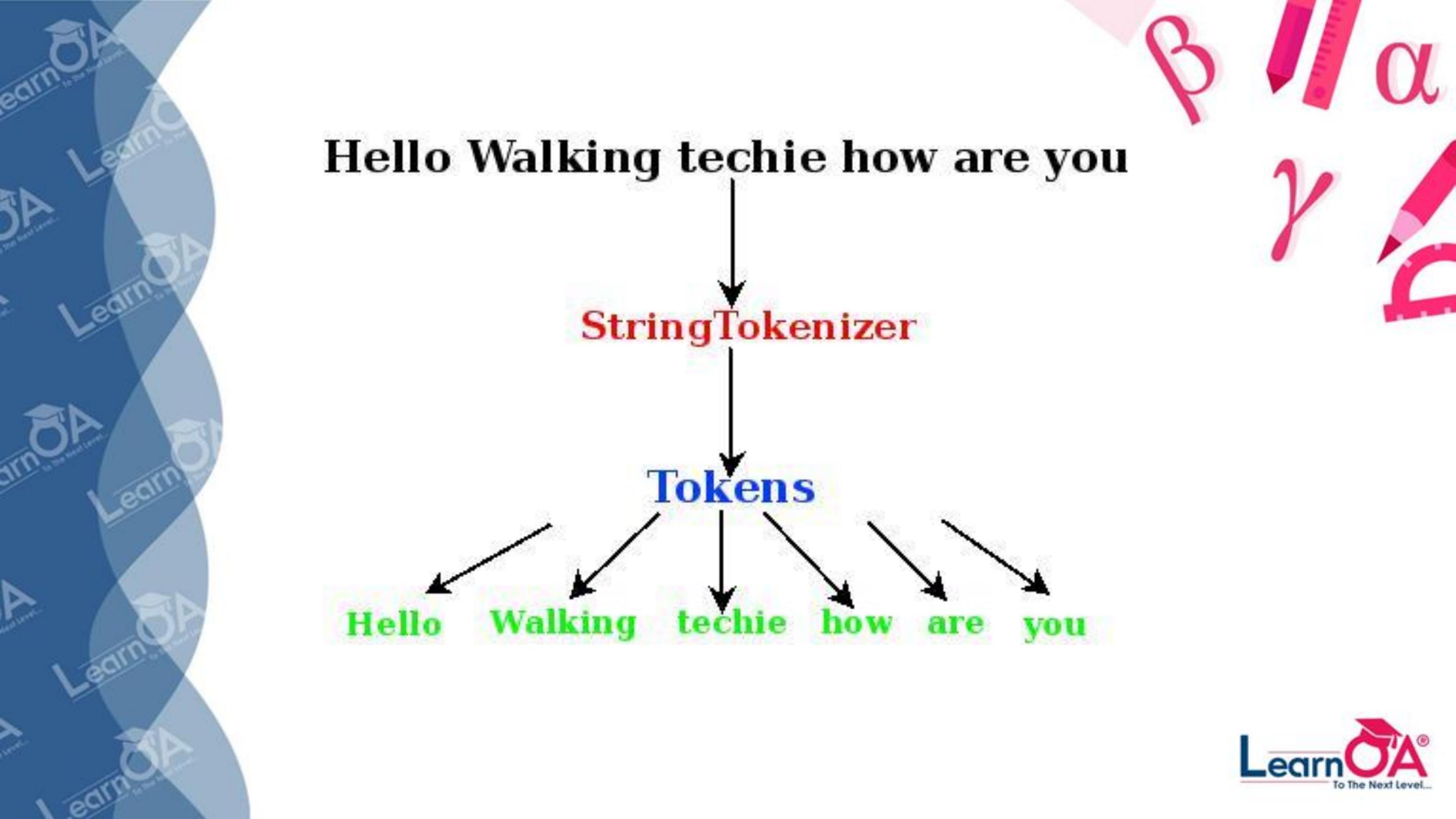




StringTokenizer











Thank You!

