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Strings in Java

Strings in Java are Objects that are backed internally by a char array. Since arrays are immutable(cannot grow), Strings are immutable as well. Whenever a change to a String is made, an entirely new String is created.

Below is the basic syntax for declaring a string in **Java programming** language.

Syntax:

`<String_Type> <string_variable> = "<sequence_of_string>";`

Example:

```
String str = "Geeks";
```

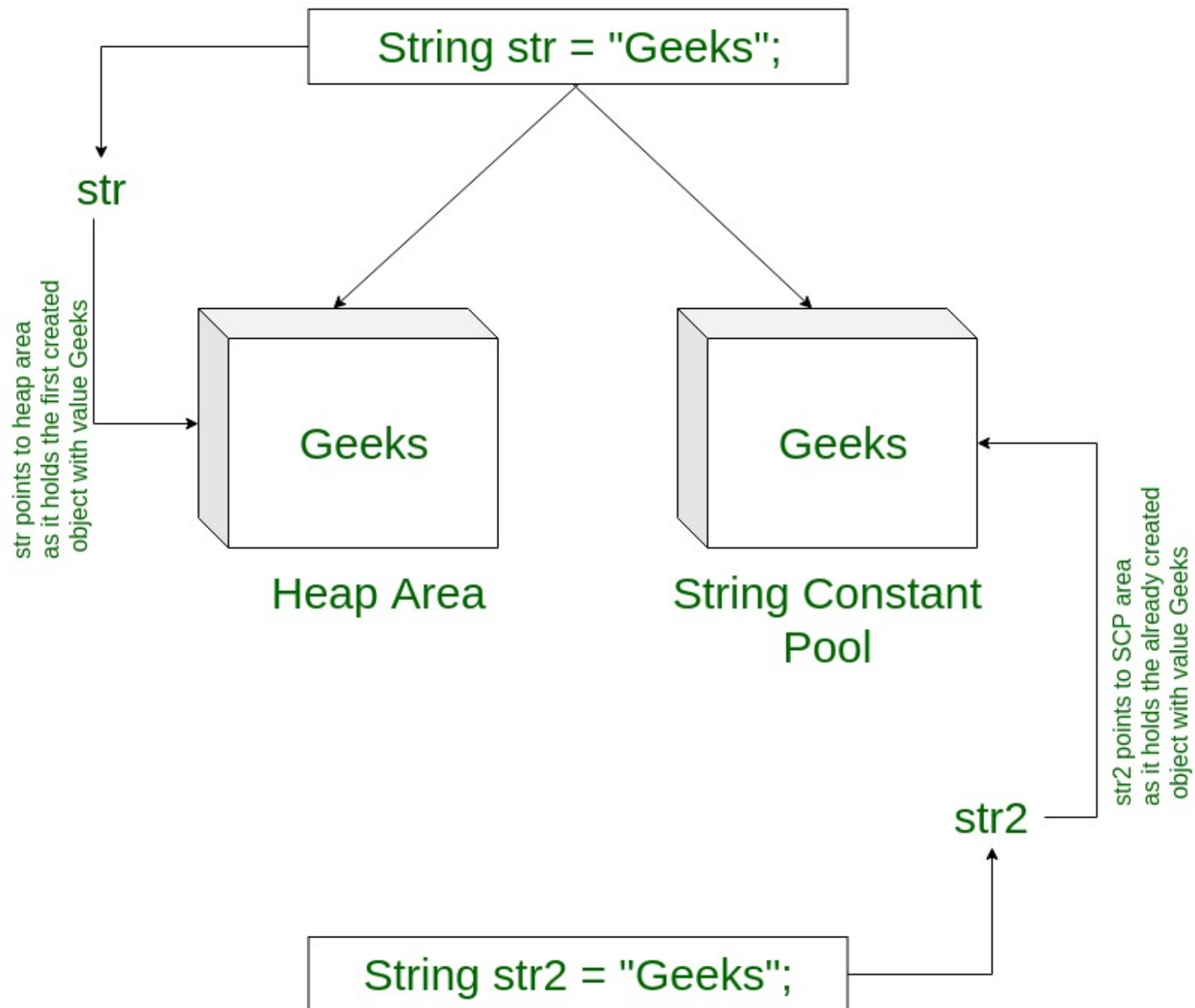
	0	1	2	3	4	5
str	G	e	e	k	s	\0
Address	0x23452	0x23453	0x23454	0x23455	0x23456	0x23457

Memory allotment of String





Whenever a String Object is created, two objects will be created- one in the Heap Area and one in the String constant pool and the String object reference always points to heap area object.

For example:

```
String str = "Geeks";
```



An Example that shows how to declare String

 `// Java code to illustrate String`
 `import java.io.*;`
`import java.lang.*;`
 `class Test {`
 `public static void main(String[] args)`
 `{`
 `// Declare String without using new operator`
 `String s = "GeeksforGeeks";`

 `// Prints the String.`
 `System.out.println("String s = " + s);`

 `// Declare String using new operator`
 `String s1 = new String("GeeksforGeeks");`

 `// Prints the String.`
 `System.out.println("String s1 = " + s1);`
 `}`
`}`

Output:

```
String s = GeeksforGeeks
String s1 = GeeksforGeeks
```

Interfaces and Classes in Strings in Java

- **CharBuffer**: This class implements the CharSequence interface. This class is used to allow character buffers to be used in place of CharSequences. An example of such usage is the regular-expression package `java.util.regex`.

- **String**: String is a sequence of characters. In java, objects of String are immutable which means a constant and cannot be changed once created.

Creating a String

There are two ways to create string in Java:

- **String literal**

```
String s = "GeeksforGeeks";
```

- **Using new keyword**

```
String s = new String ("GeeksforGeeks");
```

- **StringBuffer**: **StringBuffer** is a peer class of **String** that provides much of the functionality of strings. String represents fixed-length, immutable character sequences while StringBuffer represents growable and writable character sequences.

Syntax:

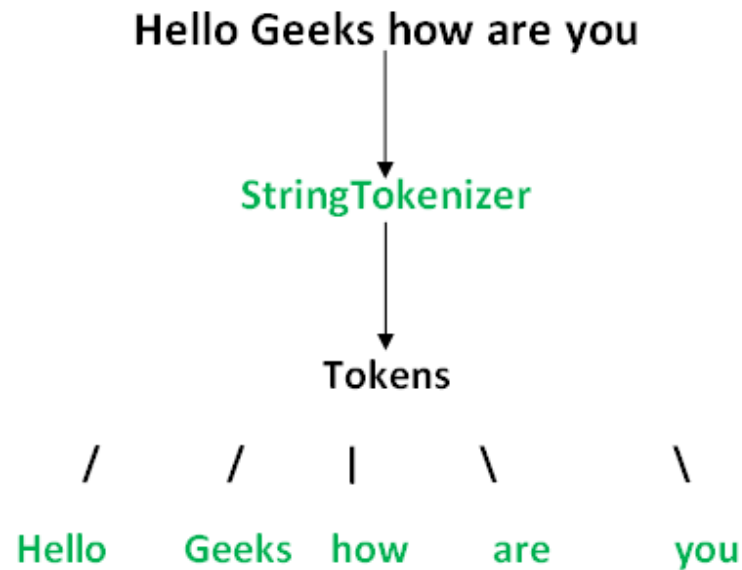
```
StringBuffer s = new StringBuffer("GeeksforGeeks");
```

- **StringBuilder**: The **StringBuilder** in Java represents a mutable sequence of characters. Since the **String Class** in Java creates and immutable sequence of characters, the **StringBuilder** class provides an alternate to **String Class**, as it creates a mutable sequence of characters.

Syntax:

```
StringBuilder str = new StringBuilder();  
str.append("GFG");
```

- **StringTokenizer**: **StringTokenizer** class in Java is used to break a string into tokens.

Example:

A **StringTokenizer** object internally maintains a current position within the string to be tokenized. Some operations advance this current position past the characters processed.

A token is returned by taking a substring of the string that was used to create the **StringTokenizer** object.

- **StringJoiner**: **StringJoiner** is a class in *java.util* package which is used to construct a sequence of characters(strings) separated by a delimiter and optionally starting with a supplied prefix and ending with a supplied suffix. Though this can also be with the help of

StringBuilder class to append delimiter after each string, StringJoiner provides an easy way to do that without much code to write.

Syntax:

```
public StringJoiner(CharSequence delimiter)
```

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