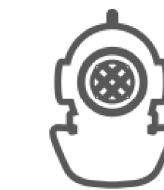


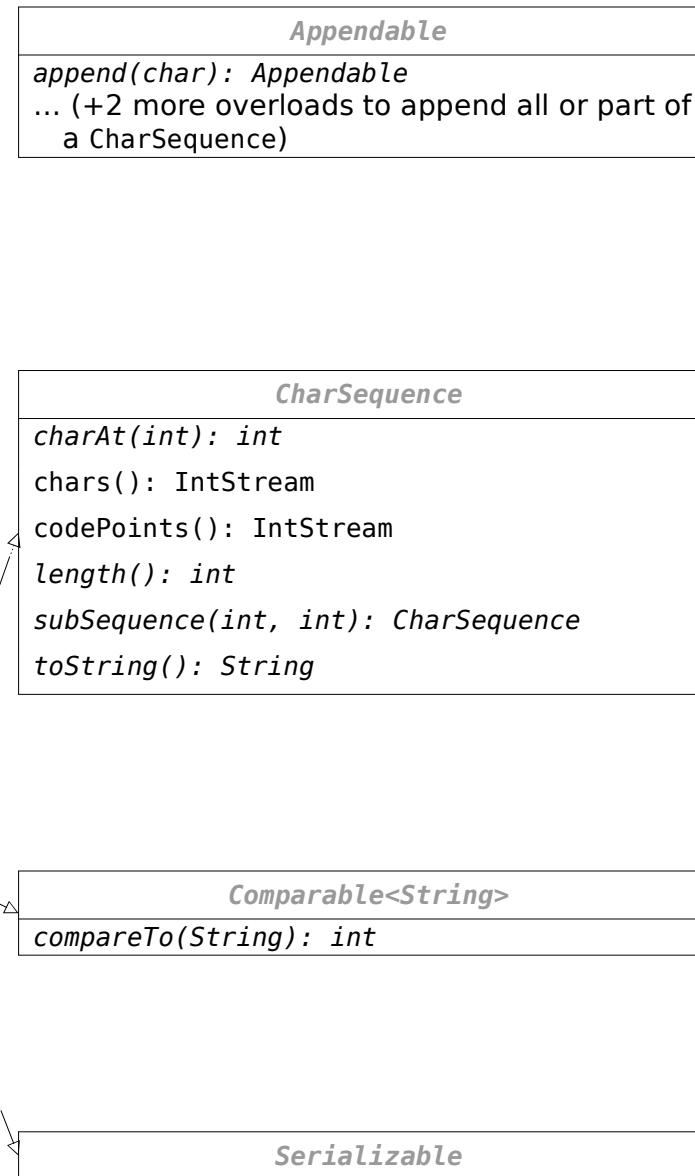
Java Strings

Key String-related *interfaces*, *classes*, and methods in `java.lang`



DEEP DIVE
Coding Bootcamps

String
<code>String()</code> ... (+14 more constructors for initializing from <code>String</code> , <code>StringBuffer</code> , <code>StringBuilder</code> , <code>byte[]</code> , <code>char[]</code> , and <code>int[]</code>) ... <code>compareTo(String): int</code> <code>compareToIgnoreCase(String): int</code> ... <code>equals(String): boolean</code> <code>equalsIgnoreCase(String): boolean</code> <code>format(Locale, String, Object...): String</code> <code>format(String, Object...): String</code> ... <code>indexOf(char): int</code> ... (+3 more overloads to search for <code>String</code> and specify starting position) <code>intern(): String</code> <code>isEmpty(): boolean</code> <code>join(CharSequence, CharSequence...): String</code> <code>join(CharSequence, Iterable<? extends CharSequence>): String</code> <code>lastIndexOf(char): int</code> ... (+3 more overloads to search for <code>String</code> and specify ending position) ... <code>matches(String): boolean</code> <code>replace(char, char): String</code> <code>replace(CharSequence, CharSequence): String</code> <code>replaceAll(String, String): String</code> <code>replaceFirst(String, String): String</code> <code>split(String): String</code> <code>split(String, int): String</code> ... <code>substring(int): String</code> <code>substring(int, int): String</code> <code>toCharArray(): char[]</code> <code>toLowerCase(): String</code> <code>toLowerCase(Locale): String</code> ... <code>toUpperCase(): String</code> <code>toUpperCase(Locale): String</code> <code>trim(): String</code> <code>valueOf(boolean): String</code> ... (+8 more overloads for primitives, <code>char[]</code> , and <code>Object</code>)



StringBuffer (and <code>StringBuilder</code> - see notes)
<code>StringBuffer()</code> ... (+3 more constructors for initializing from <code>String</code> , <code>CharSequence</code> , or with specified capacity) <code>append(boolean): StringBuffer</code> ... (+12 more overloads for primitives, <code>char[]</code> , <code>CharSequence</code> , <code>String</code> , <code>StringBuffer</code> , <code>Object</code>) <code>appendCodePoint(int): StringBuffer</code> <code>capacity(): int</code> ... <code>delete(int, int): StringBuffer</code> <code>deleteCharAt(int): StringBuffer</code> <code>ensureCapacity(int): void</code> <code>getChars(int, int, char[], int): void</code> <code>indexOf(String): int</code> <code>indexOf(String, int): int</code> <code>insert(int, boolean): StringBuffer</code> ... (+11 more overloads for primitives, <code>char[]</code> , <code>CharSequence</code> , <code>String</code> , <code>Object</code>) <code>lastIndexOf(String): int</code> <code>lastIndexOf(String, int): int</code> <code>length(): int</code> ... <code>replace(int, int, String): StringBuffer</code> <code>reverse(): StringBuffer</code> <code>setCharAt(int, char): void</code> <code>setLength(int): void</code> ... <code>substring(int): String</code> <code>substring(int, int): String</code> <code>trimToSize(): String</code>

Notes

- Since `String` instances are immutable, `String` concatenations are generally compiled into `StringBuilder`-based operations.
- The `String.valueOf()` overloads that take primitive parameters return the same results as the static `toString()` methods of the wrapper classes. The `String.valueOf()` overloads that take object parameters return the same results as the `toString()` methods of the relevant types – except for a null argument value: `String.valueOf(null)` returns the `String` value "null".
- `StringBuffer` and `StringBuilder` have functionally identical APIs – that is, they have matching constructors and methods. `StringBuffer` methods are synchronized for thread-safety; if multi-threaded use is not needed, `StringBuilder` should be used instead, as it has better performance.

`CharSequence` is also implemented by `java.nio.CharBuffer` and `javax.swing.text.Segment`, and extended by `javax.lang.model.element.Name`. However, these special-purpose constructs are beyond the scope of this summary.