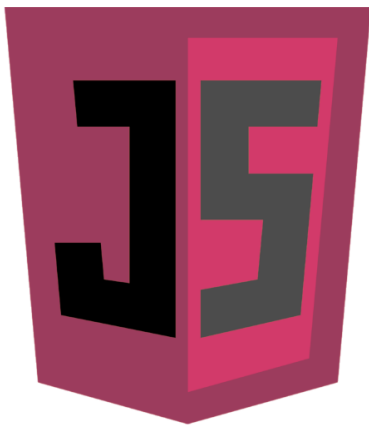


# Working With the String Type

In this lesson, we get introduced to the string type in JavaScript.  
Let's begin!

## WE'LL COVER THE FOLLOWING ^

- Character escape sequences
- Examples



## *The String Type*



When you intend to work with text or characters, you should use the `String` type. This data type represents a sequence of **16-bit Unicode** characters, including the empty string with zero length.

JavaScript allows you to define strings enclosed between two single quotes ( `' '` ) or two double quotes ( `" "` ).

So, the following string declarations are all valid:

```
var name1 = 'Steve';  
var name2 = "Jane";
```



Quotes must **match**, so these are invalid declarations.

Hence, the following code will not compile ✕

```
var name1 = "Steve';  
var name2 = 'Jane";
```



When you need to specify characters that are not available on the keyboard, or are non-printable, you can use character escape sequences that begin with a backslash ( \ ) character.

The table below summarizes the available escape sequences:

## Character escape sequences #

Sequence	Description
\n	New line character (U+000A)
\t	Horizontal tab (U+0009)
\v	Vertical tab (U+000B)
\b	Backspace (U+0008)
\r	Carriage return (U+000D)
\f	Form feed (U+000A)
\\	Backslash (\)
\'	Single quote (')
\"	Double quote (")
\0	Null character (U+0000)
\0ooo	A character represented by octal code <i>ooo</i> , where <i>o</i> is an octal digit (0-7).
\unnnn	A Unicode character represented by the hexadecimal code <i>nnnn</i> , where <i>n</i> is a hexadecimal digit (0-F).
\xnn	A character represented by hexadecimal code <i>nn</i> , where <i>n</i> is a hexadecimal digit (0-F).

## Examples #

Let's see a few examples:

```
// I'm here.
var str1 = 'I\'m here.';
// Greek alpha: α
var str2 = "Greek alpha: \u03b1";
// 42
var str3 = "4\00102";
// C:\Program Files\
var str4 = "C:\\Program Files\\";
```



If the string is very long, you can break it into multiple lines with a backslash character directly followed by a line terminator character:

```
// This is a long text broken into short lines
var str5 = "This is \
a long text \
broken into \
short lines";
```



Strings are **immutable**, so once they are created, their value cannot be changed.

## Achievement unlocked! 🎉

Congratulations! You've learned how to deal with the string type in JavaScript.

Great work! Give yourself a round of applause! :)



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In the *next lesson*, let's see how to convert other JavaScript types to string.