**ES6 Template Literals**

Template literals are a powerful feature introduced in ES6 that provide a more flexible and readable way to create strings in JavaScript.

**Key Features:**

* **Multi-line Strings:**
  + Easily create multi-line strings using backticks (``) instead of single or double quotes.
  + No need for escape characters for newlines.

JavaScript

const message = `This is a

multi-line

string.`;

* **Embedded Expressions:**
  + Embed JavaScript expressions directly within the string using ${}.
  + This allows for dynamic string creation.

JavaScript

const name = "John";

const age = 30;

const greeting = `Hello, my name is ${name} and I am ${age} years old.`;

* **Tagged Templates:**
  + Create custom string processing functions (tag functions) that can manipulate the string before it's created.

JavaScript

function highlight(strings, ...values) {

return strings.reduce((acc, curr, i) =>

acc + `<span class="highlight">${values[i]}</span>` + curr

);

}

const message = highlight`This is a ${'highlighted'} message.`;

**Benefits of Template Literals:**

* **Improved Readability:**
  + Make strings more readable and easier to maintain.
  + Eliminate the need for string concatenation.
* **Enhanced Flexibility:**
  + Allow for dynamic string creation with embedded expressions.
  + Enable custom string processing with tagged templates.
* **Reduced Errors:**
  + Reduce the risk of errors caused by incorrect string concatenation or escaping.

**In Summary:**

Template literals are a valuable addition to the JavaScript language. They offer a more concise, readable, and flexible way to work with strings, making your code cleaner and easier to understand.