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Theory: Template literals

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If you ever tried to add variables to strings of text, you probably noticed that the resulting program looks difficult to read.

Previously, we only used single quotes '' or double quotes "" to create a string. This led to various restrictions and inconveniences, so it's time we learn to manage strings without unnecessary complications.

§1. Using template literals

Suppose we need to display a message about today's temperature in some city:

```
1 \mid Now, the temperature in \dots is \dots degrees Celsius.
```

In place of ... we need to write certain values.

We can do it this way:

```
let city = "Paris";
let temp = "24";

console.log("Now, the temperature in " + city + " is " + temp + " degrees Celsius.");
```

Here we declare two variables, for example, city and temp, and further build the result string using a sequence of concatenations. Of course, this code works correctly, but it is long, and we have to keep a close eye on gaps so that we don't accidentally get solid text in the output.

JavaScript provides a more convenient way to manage strings: template literals. To put a value of a variable to a string, write the dollar sign \$ before the variable's name, put it in curly brackets {}; enclose the string in reverse quotes instead of double or single:

```
let city = "Paris";
let temp = "24";

description of the semple of
```

This code is more readable than that with concatenations. You can run these scripts and see for yourself that they display the same message:

```
1 Now, the temperature in Paris is 24 degrees Celsius.
```

§2. Multi-line strings

Symbols of a new line are part of the template literals. Now you can quickly and effortlessly write a multi-line program. For example:

```
console.log(`String text line 1
String text line 2`);
```

The output of this code will be as follows:

```
1 | String text line 1
2 | String text line 2
```

This is quite handy, because now there is no need to duplicate functions or puzzle over where to put line break characters (\n).

```
Current topic:
```

<u>Template literals</u>

Topic depends on:

- × <u>Variables</u>
- × Arithmetic operators

Topic is required for:

```
ForEach method ...
```

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JavaScript Code Style
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§3. Syntactic sugar

Thanks to the template literals, it became convenient not only to insert values of variables, but also to insert whole expressions. Take a look at this example:

```
1  let a = 1;
2  let b = 2;
3  console.log(`The sum of numbers ${a} and ${b} is not equal to ${ 10 * a + b }.`);
4  // The sum of numbers 1 and 2 is not equal to 12.
```

Without the template literals, this code would look like this:

```
1  let a = 1;
2  let b = 2;
3  console.log("The sum of numbers " + a + " and " + b + " is not equal to "+ (10 * a + b) + ".");
4  // The sum of numbers 1 and 2 is not equal to 12.
```

Template literals are a truly useful innovation in ES6. It allows for flexible line management, easy creation of multi-line programs and easy insertion of expressions into strings.

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