



JavaScript Regex Lookbehind

Summary: in this tutorial, you'll learn how to use JavaScript regex lookbehind in regular expressions to match **X** if it is preceded by **Y**.

Introduction to the JavaScript regex lookbehind

In [regular expressions](#), a lookbehind matches an element if there is another specific element before it. A lookbehind has the following syntax:

```
(?<=Y)X
```

In this syntax, the pattern match **X** if there is **Y** before it.

For example, suppose you want to match the number **900** not the number **1** in the following string:

```
'1 computer costs $900'
```

To do it, you use a lookahead in the regular expression as follows:

```
/(?<=\$)\d+/'
```

In this regular expression:

- The **(?<=\\$)** matches an element if there is a literal string **\$** before it. Because **\$** is a special character in the regex, we need to use the backslash **** to escape it. By doing this, the regex engine treats **\\$** as a literal character **\$**.
- The **\d+** matches one or more digits.

The following example illustrates how to use a lookahead in a regular expression to match a number that has the **\$** sign before it:

```
const s = '1 computer costs $900';
const pattern = /(?<=\$)\d+/;

const match = s.match(pattern);
console.log(match);
```

Output:

```
[ '900', index: 18, input: '1 computer costs $900', groups: undefined ]
```

Negative lookahead

To negate a lookahead, you use a negative lookahead with the following syntax:

```
(?<!\Y)X
```

In this syntax, the regex engine matches **X** if there is **no** **Y** before it. The following example uses a regular expression with a negative lookahead to match a number that doesn't have the **\$** letter before it:

```
const s = '1 computer costs $900';
const pattern = /(?<!\$)\d+/;

const match = s.match(pattern);
console.log(match);
```

Output:

```
1
```

Summary

- A lookbehind `(?<!Y)X` matches `X` only if it is preceded by `Y`.
- A negative lookbehind `(?<Y)X` matches `X` only if it is not preceded by `Y`.