Strings and Regular Expressions in JavaScript

Diving into String Definition

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Strings and Regular Expressions in JavaScript

Version Check

Version Check

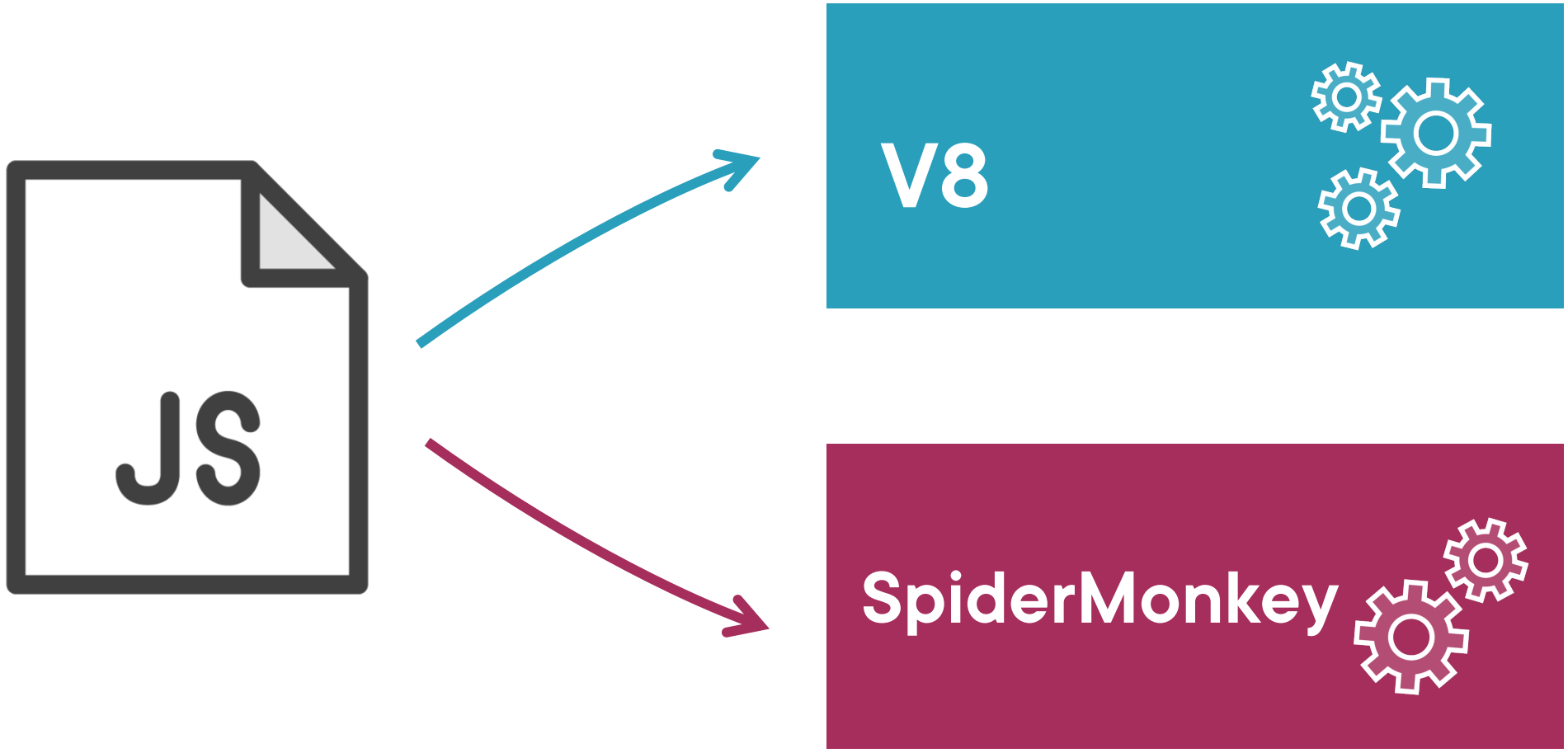
This course was created by using:

- ECMAScript 2022

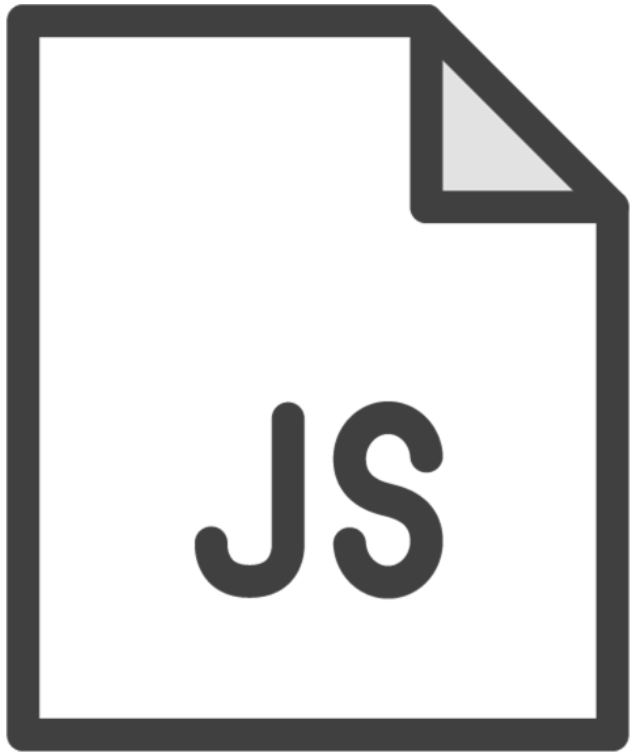
Version Check

This course is 100% applicable to:

- ECMAScript 2022


JS
V8
SpiderMonkey

New Relevant Features



- **BigInt**
- **.at()**
- **“d” flag**

Prerequisites

General programming concepts

- **Data types**
- **Functions or methods**
- **Statements (if-else, loops, etc.)**

HTML basics

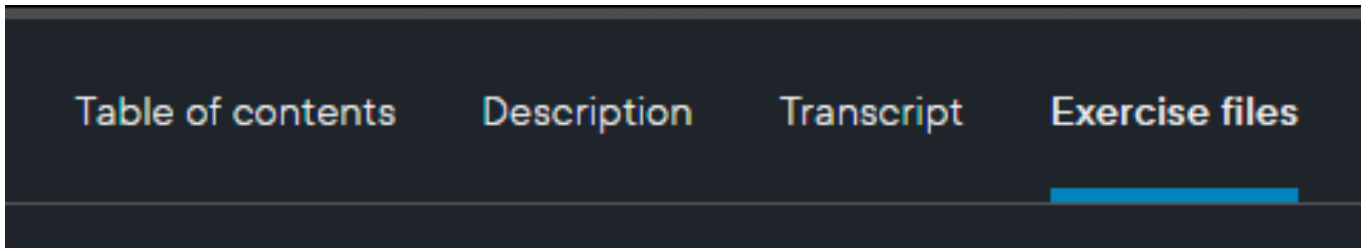
Code Editor

Setup

OS: Windows

IDE: VS Code

Node.js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Course Overview

Defining and creating strings

- App: currency converter

String methods

- Library of utility methods

Regular Expressions

- App: basic spell checker

Which way is better?

Just choose a style and use it consistently

```
{
  login: "js_lord",
  id: 123
}
```

```
{
  login: 'js_lord',
  id: 123
}
```

Rules

ESLint

SonarSource

String Interpolation

```
"The rate is " + 0.9;
```

```
const rate = 0.9;
```

```
`The rate is ${rate}`;
```

Best Practices

```
// avoid
"The rate is ${rate}";
```

```
"Dear ${user}, thank you for choosing
${company} to..."
```

Best Practices

```
// don’t put everything in a single template

`We ... ${expression? `${a}` : b}... text`;
```

```
const rate = 0.9;
String.raw`Our rate is \t \n ${rate}`;

// Output: Our rate is \t \n 0.9;
```

Use Cases

Tutorials and documentation

Print windows directory locations

- **C:\Users**

Unicode

Character/ Grapheme	Code Point	UTF-16	16-bit units
A	65	U+0041	
[…]	[…]	[…]	
z	122	U+007A	
[…]	[…]	[…]	
💸	128184	0xD83D, 0xDCB8	

How to remove emojis?

Use .replace(regex)

Use a library

An emoji exists?
It doesn't mean it will be supported everywhere.

(test accordingly)

Summary

Single or double quotes. Be consistent.

Use template literals

Be careful with special characters

String.raw`template ${literals}`

Emojis - use a library and test thoroughly

Avoid new String(“s”)

Up Next:
Achieving Tasks with the String API