TAKE 2 MINUTES TO LEARN JSON.STRINGIFY

You Must know

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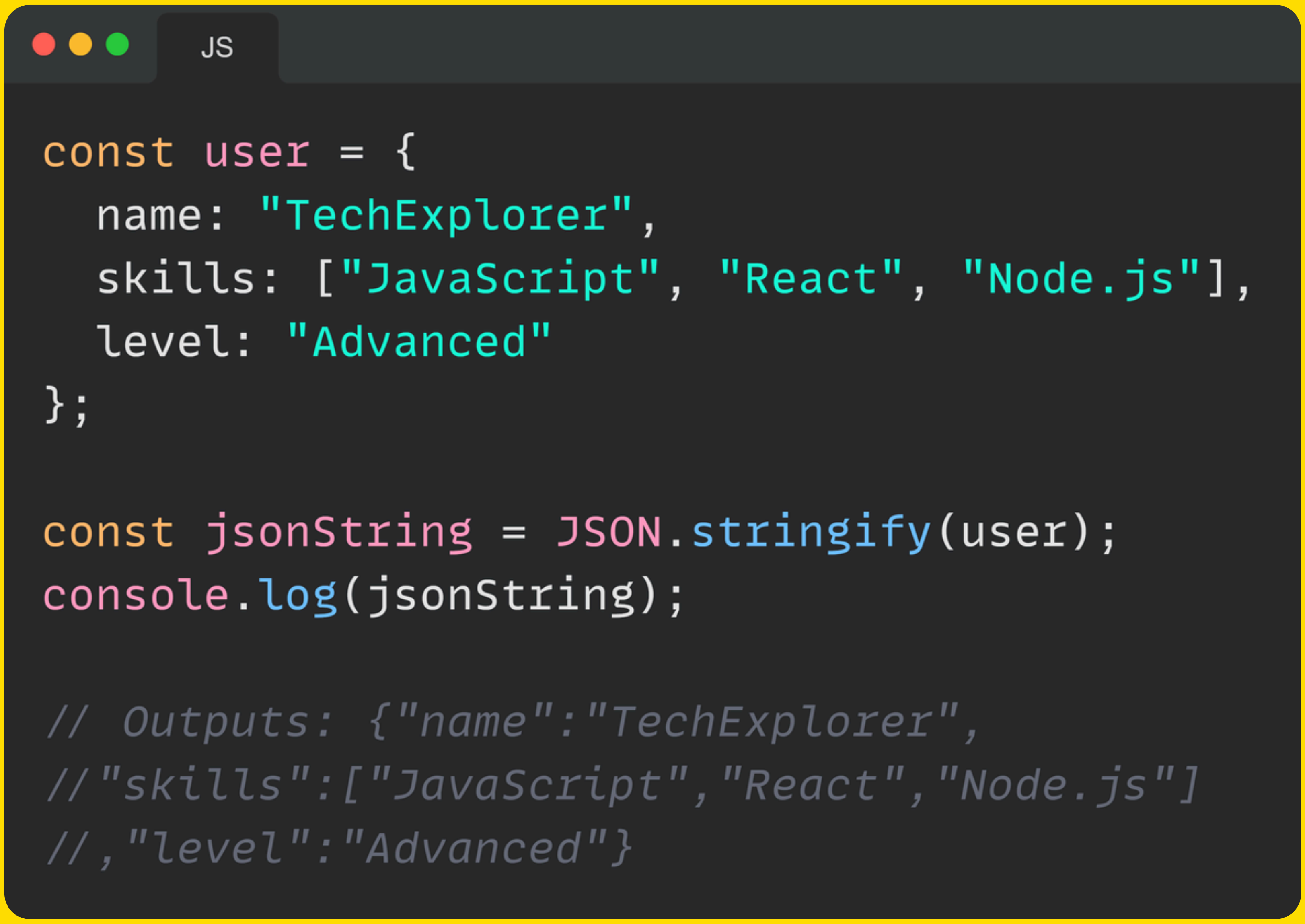
What is JSON.stringify() ?

- JSON.stringify() is a built-in method that converts a JavaScript object or value into a JSON string.
- It's a crucial tool for data interchange between a JavaScript application and a server or for storing data in a structured format.



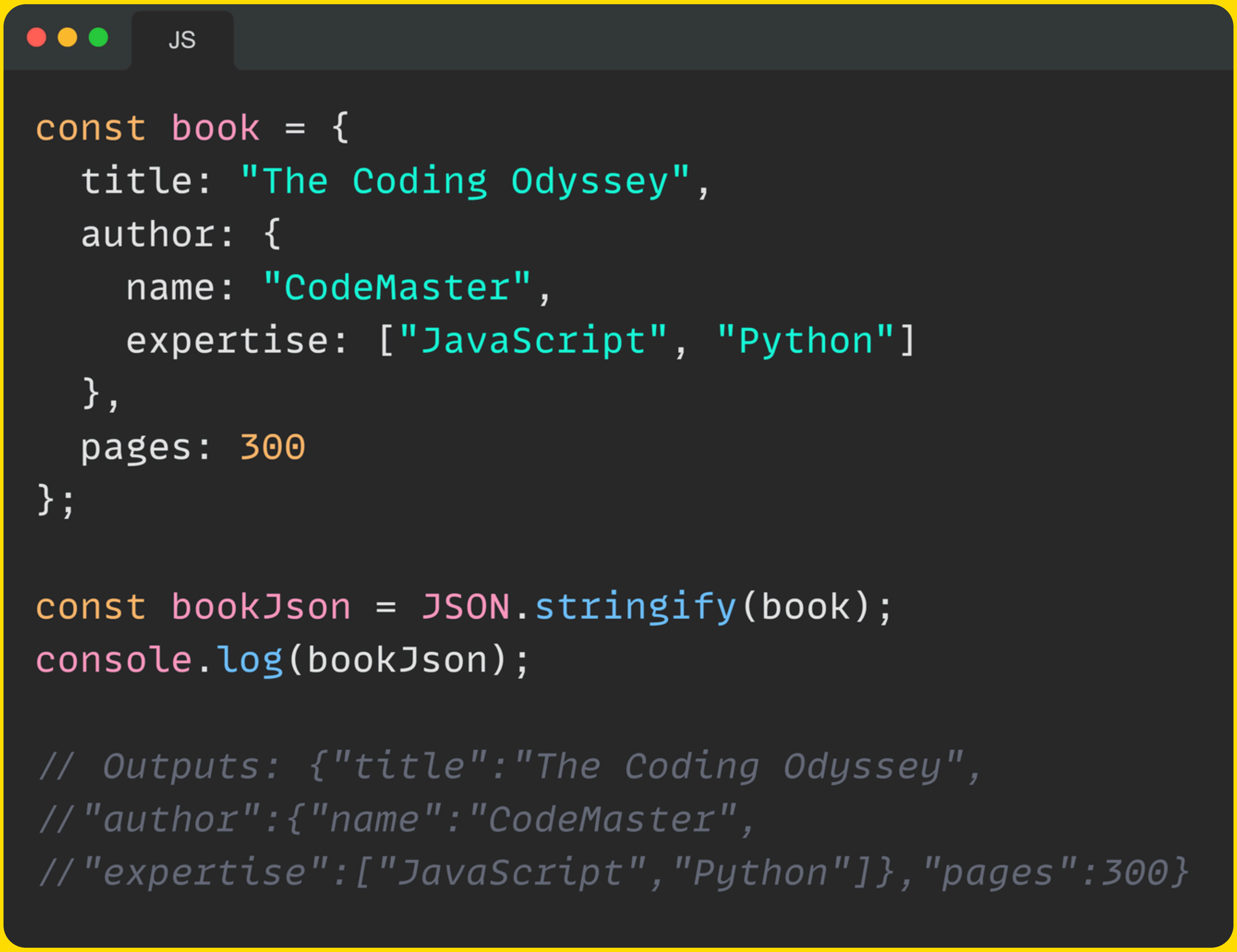
```
const user = {
  name: "TechExplorer",
  skills: ["JavaScript", "React", "Node.js"],
  level: "Advanced"
};

const jsonString = JSON.stringify(user);
console.log(jsonString);

// Outputs: {"name":"TechExplorer",
//"skills":["JavaScript","React","Node.js"]
//,"level":"Advanced"}
```

Nested Objects and Arrays

- JSON.stringify() gracefully handles nested structures, ensuring a comprehensive transformation.



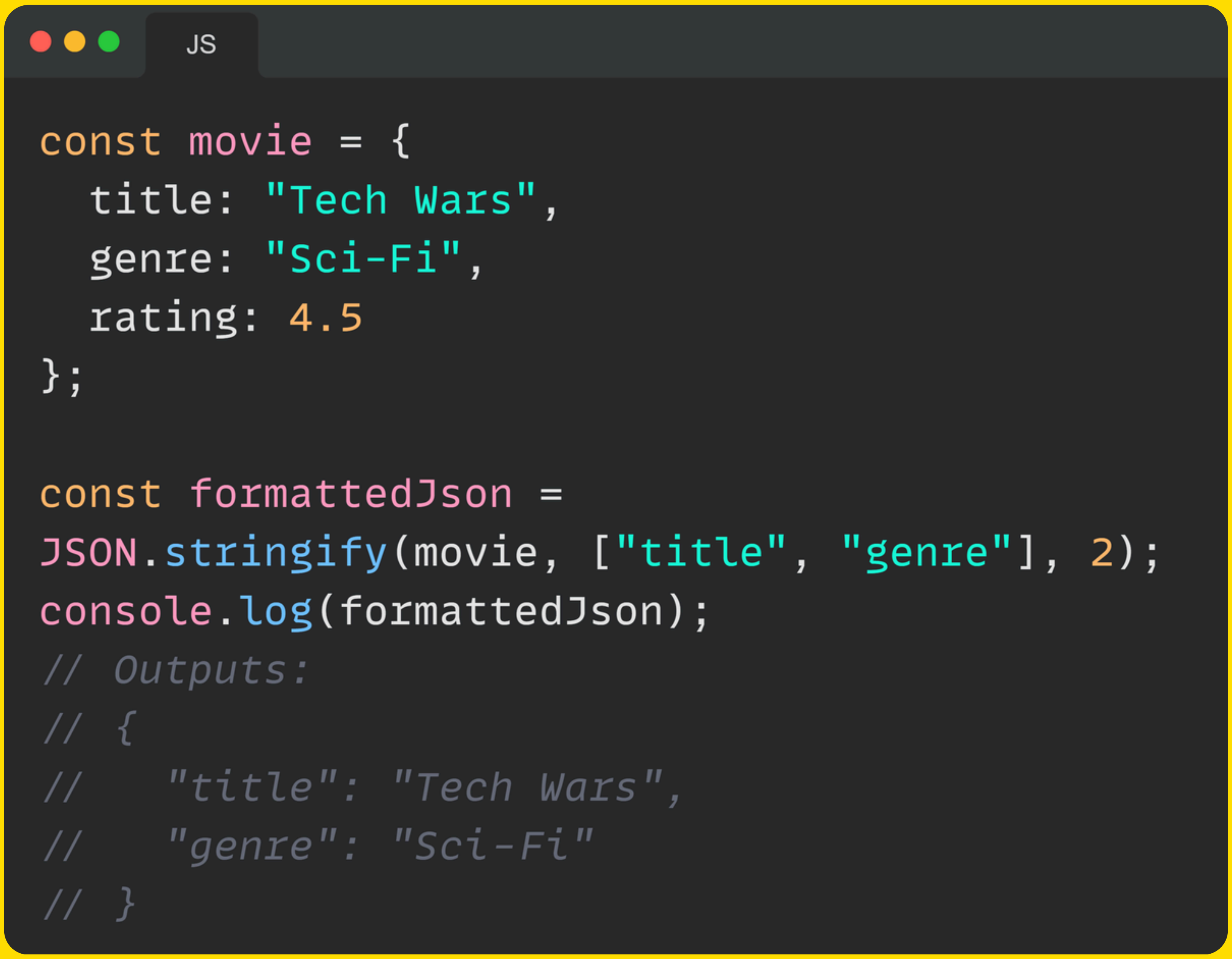
```
const book = {
  title: "The Coding Odyssey",
  author: {
    name: "CodeMaster",
    expertise: ["JavaScript", "Python"]
  },
  pages: 300
};

const bookJson = JSON.stringify(book);
console.log(bookJson);

// Outputs: {"title":"The Coding Odyssey",
//"author":{"name":"CodeMaster",
//"expertise":["JavaScript","Python"]},"pages":300}
```

Filtering and Formatting

- Customize the conversion process by providing a replacer function or an array of properties to include in the JSON string.

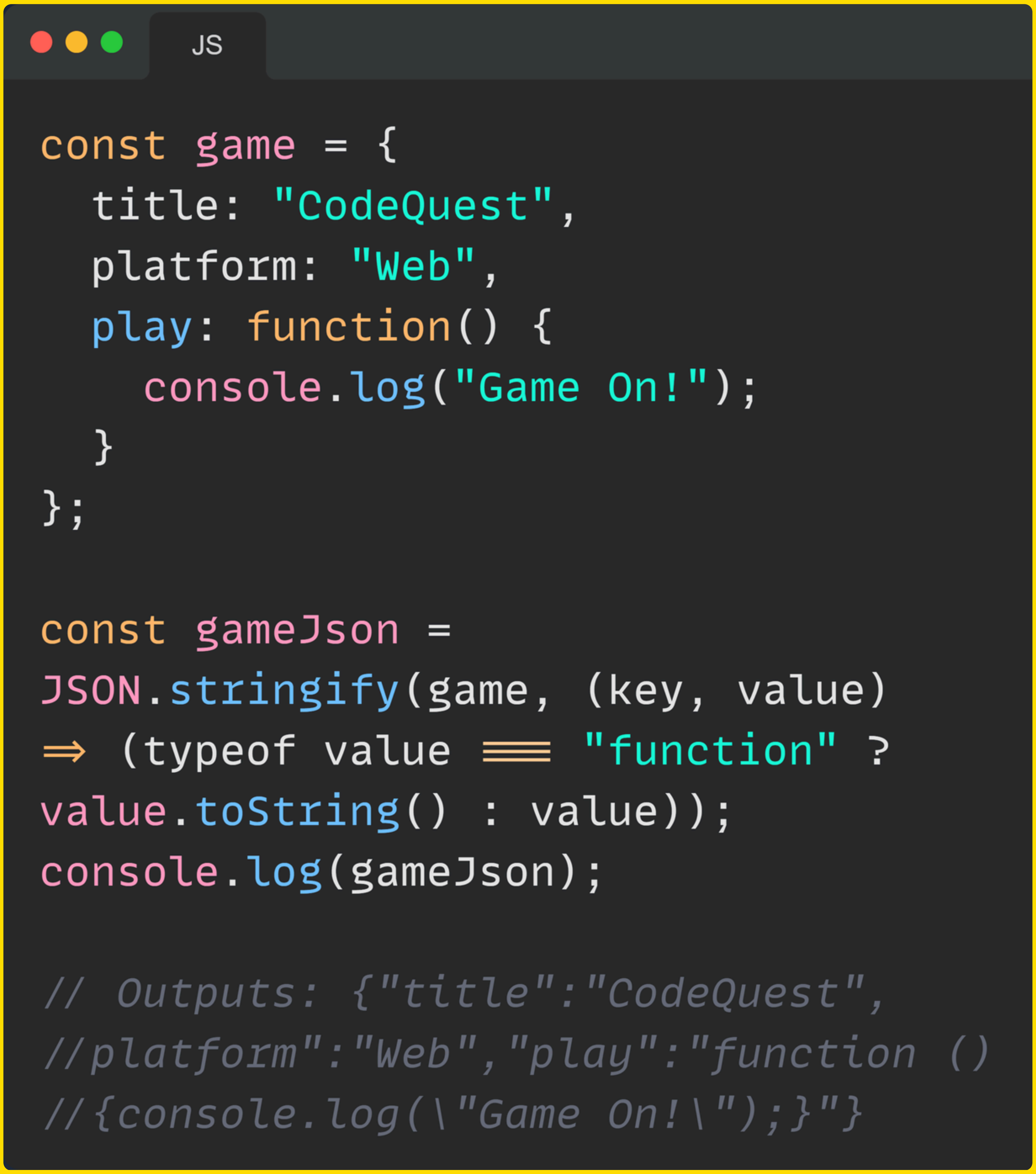


```js
const movie = {
  title: "Tech Wars",
  genre: "Sci-Fi",
  rating: 4.5
};

const formattedJson =
JSON.stringify(movie, ["title", "genre"], 2);
console.log(formattedJson);
// Outputs:
// {
//   "title": "Tech Wars",
//   "genre": "Sci-Fi"
// }
```

Handling Functions

- Be cautious with functions in your objects. By default, they are excluded, but you can handle them using the replacer function.



JS

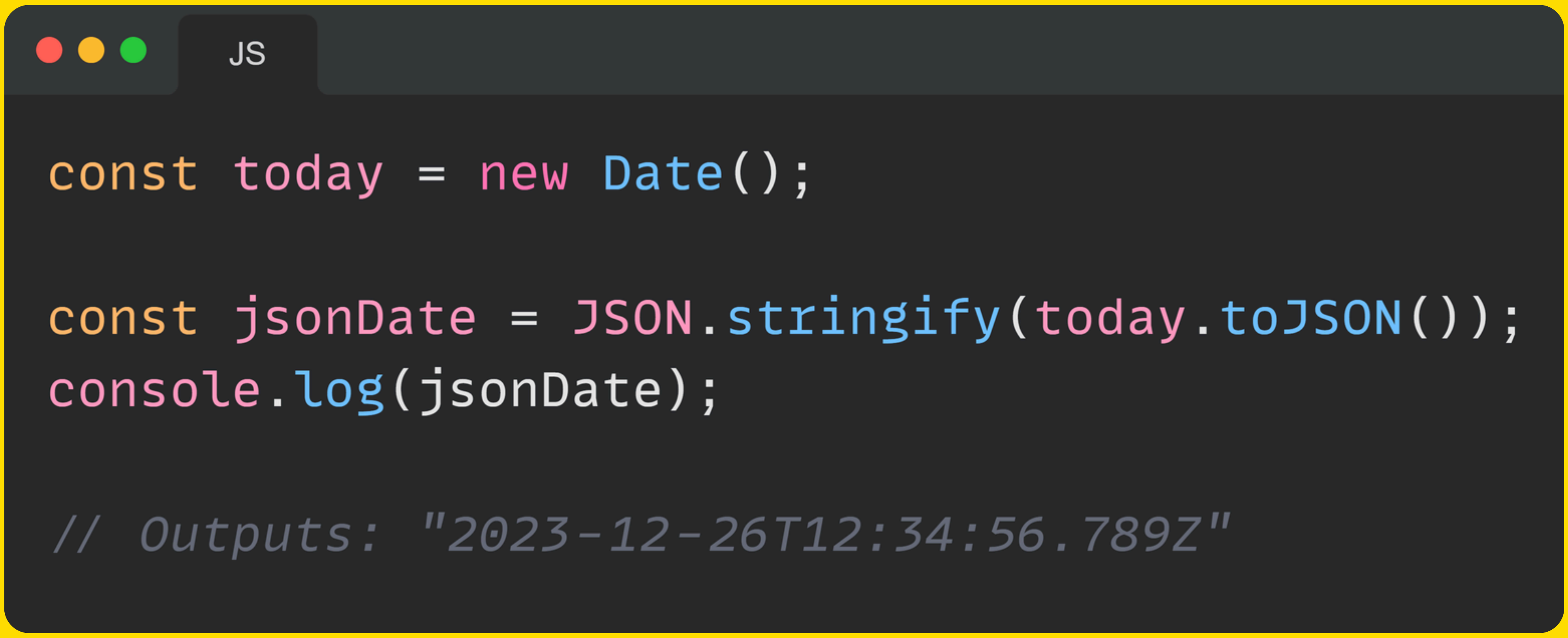
```
const game = {
  title: "CodeQuest",
  platform: "Web",
  play: function() {
    console.log("Game On!");
  }
};

const gameJson =
JSON.stringify(game, (key, value)
=> (typeof value === "function" ?
value.toString() : value));
console.log(gameJson);

// Outputs: {"title":"CodeQuest",
//platform":"Web","play":"function ()
//{console.log(\"Game On!\");}"}
```

Preserving Date Objects

- Dates pose a challenge in serialization. You can customize the process using the replacer function or the toJSON method.



```javascript
const today = new Date();

const jsonDate = JSON.stringify(today.toJSON());
console.log(jsonDate);

// Outputs: "2023-12-26T12:34:56.789Z"
```

Keep Exploring Javascript with us!

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Free and Open Interface to experiment JavaScript

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