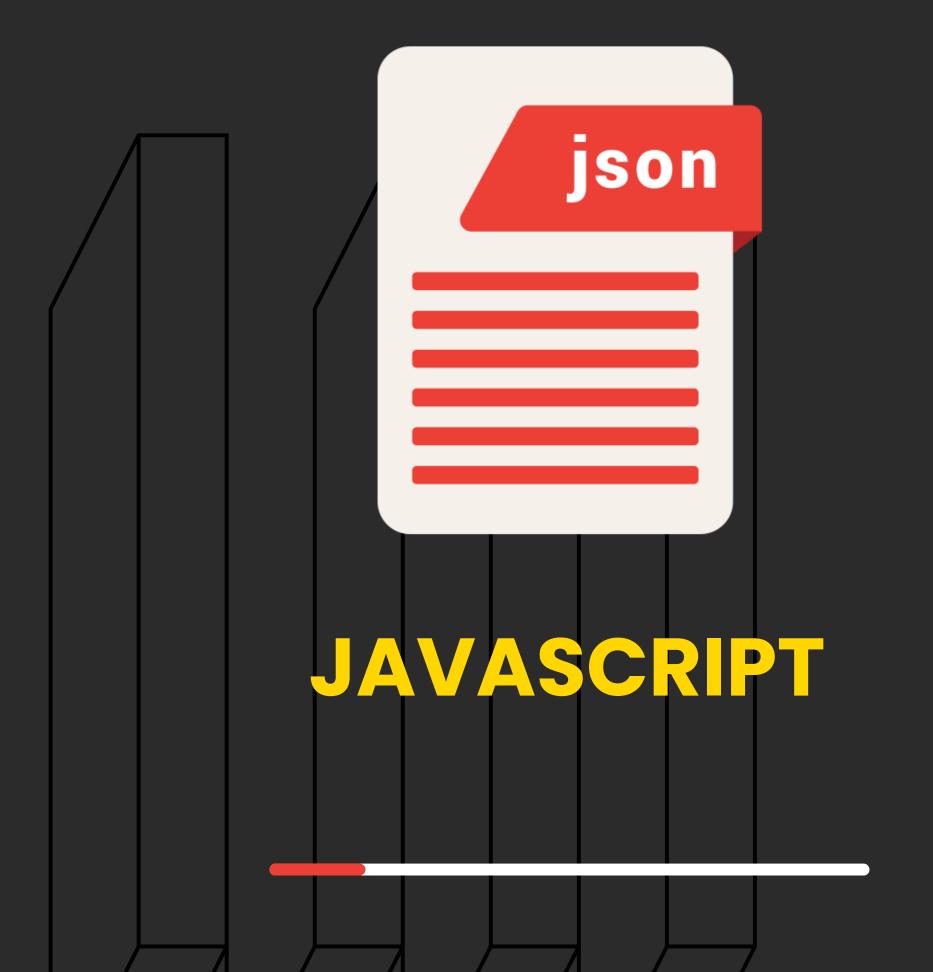


Handling JSON





 JSON (JavaScript Object Notation) is a lightweight data interchange format used for storing and transporting

data.

• It's often used when data is sent from a server to a web page.

 JSON is language-independent, selfdescribing, and easy to understand.



 JSON data consists of name/value pairs, similar to JavaScript object properties.

 A name/value pair includes a field name (in double quotes), followed by a colon and the corresponding value.

 Unlike JavaScript, JSON names require double quotes. JSON objects are enclosed in curly braces {}.

 Objects can contain multiple name/value pairs.

```
data.json

{
   "firstName": "John",
   "lastName": "Doe"
}
```



- JSON arrays are enclosed in square brackets [].
- An array can contain objects.

```
employeeData.json
"employees": [
    "firstName": "John",
    "lastName": "Doe"
  },
    "firstName": "Anna",
    "lastName": "Smith"
  },
    "firstName": "Peter",
    "lastName": "Jones"
```



Converting JSON to Js Object & Js Object to JSON

To convert a JSON string to a JavaScript object, use JSON.parse().

```
let jsonString = '{ "name": "Alice", "age": 25 }';
let jsonObject = JSON.parse(jsonString);
console.log(jsonObject.name); // Output: "Alice"
console.log(jsonObject.age); // Output: 25
```

To convert a JavaScript object to JSON format, use JSON.stringify().

```
const jsonData = { "name": "John", "age": 22 };
const jsonStr = JSON.stringify(jsonData);
console.log(jsonStr); // Output: "{\"name\":\"John\",\"age\":22}"
```



JS code to handle JSON data from an API

```
JS fetch.js
async function fetchData(url) {
  try {
    const response = await fetch(url);
    if (!response.ok) {
      throw new Error(`Error fetching data: ${response.status}`);
    }
    const data = await response.json();
    return data; // Return the parsed data
  } catch (error) {
    console.error("Error:", error);
    return null; // Or handle the error differently (optional)
  }
}
// Example usage:
(async () \Rightarrow \{
  const apiData = await fetchData('https://api.example.com/data');
  if (apiData) {
    console.log("Fetched data:", apiData);
   // Process the data here (e.g., display it, manipulate it)
  } else {
    console.log("Error fetching data!");
})();
```

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