

Fetch API

VS

Axios API



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When comparing the **Fetch API** with **Axios** for making HTTP requests in JavaScript, there are several points to consider regarding **ease of use, features**, and how they handle **requests** and **responses**.



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1. EASE OF USE

- **Fetch API:** It's a native browser API, so there's no need to install any additional libraries. However, it requires more setup for common tasks like sending JSON data or handling exceptions.
- **Axios:** Easier to use out of the box for common HTTP requests. It automatically transforms JSON data on requests and responses and handles exceptions more gracefully.



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2. ERROR HANDLING

- **Fetch API:** Does not reject the promise on HTTP error statuses (like 404 or 500). You need to handle errors explicitly by checking the response status.
- **Axios:** Automatically rejects the promise on HTTP error statuses, which can simplify error handling in your code.



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3. RESPONSE INTERCEPTION

- **Fetch API:** Does not have built-in support for intercepting requests or responses. Middleware or extra coding is required to implement this functionality.
- **Axios:** Supports interceptors that allow you to run your code or modify the request/response before the request is sent or after the response is received.



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4. BROWSER SUPPORT

- **Fetch API:** Supported in all modern browsers, but not in Internet Explorer.
- **Axios:** Works on all modern browsers and Internet Explorer 11 (requires a Promise polyfill).



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5. JSON DATA HANDLING

- **Fetch API:** Requires manual conversion of the JSON data in the response body.
- **Axios:** Automatically handles JSON data conversion on requests and responses.



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CODE EXAMPLE

FETCH API EXAMPLE



```
fetch('https://api.example.com/data', {  
  method: 'GET',  
  headers: {  
    'Content-Type': 'application/json'  
  }  
})  
.then(response => {  
  if (!response.ok) {  
    throw new Error('Network response was not ok');  
  }  
  return response.json();  
})  
.then(data => console.log(data))  
.catch(error => console.error('There was a problem with  
your fetch operation:', error));
```



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CODE EXAMPLE

AXIOS EXAMPLE



```
axios.get('https://api.example.com/data')
  .then(response => console.log(response.data))
  .catch(error => console.error('Error:', error));
```



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