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# 4 ways to make an **API Call in JS**



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JavaScript provides a few built-in methods and external open source libraries to create and interact with the API. A few possible methods to make an API call in JavaScript are:

- XMLHttpRequest
- Fetch
- Using Axios library
- jQuery AJAX



# XML HTTP Request

```
var XMLHttpRequest = new XMLHttpRequest();

// creating get request to dummy API call
XMLHttpRequest.open('GET', 'https://api.github.com/users/coderaishya');

XMLHttpRequest.send();

XMLHttpRequest.onload = () => {
  if (XMLHttpRequest.status === 200) {
    console.log("Request successful");
  } else {
    console.log("Error occurred!")
  }

  console.log(JSON.parse(XMLHttpRequest.response))
}
```

- It receives response in string format that needs to be parsed in JSON format (JSON.parse(XMLHttpRequest.response)).
- It is a built-in browser object to create HTTP requests & is deprecated with the introduction of fetch in ES 6. Still, it is used when we work with older browsers.





# Fetch API



```
fetch('https://api.github.com/users/coderaishya')  
  .then(response => return response.json())  
  .then(data => {  
    console.log(data);  
  })
```



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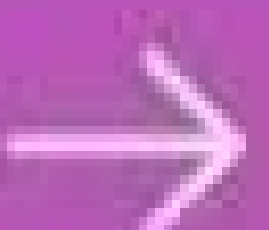
**Fetch API**  
Ultimate Guide



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# Axios

- Axios is open-source library for making HTTP requests with several great features.
- Axios works in both Node.js and browsers and is a promise-based (asynchronous) HTTP client, which even is used in frameworks like Angular and React.

## Axios Installation

### Using Package Manager

```
npm install axios  
// or  
yarn add axios
```

and include it in the HTML file like



```
<script src="./node_modules/axios/dist/axios.min.js"></script>
```



## Using CDN



```
<script src="https://unpkg.com/axios/dist/axios.min.js"></script>
```



```
<script>
  axios.get("https://api.github.com/users/coderaishya")
    .then(response => {
      console.log(response.data);
    })
    .catch(error => {
      console.log(error);
    })
</script>
```

## Pros of Axios:

- Better and easier error handling & has a wide range of browser support.
- Axios automatically perform JSON parsing and returns data in JSON format.



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# jQuery AJAX

Attach jQuery inside Html file using CDN



```
<script  
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"  
></script>
```



```
<script>  
  $(document).ready(function () {  
    $.ajax({  
      url: "https://api.github.com/users/coderaishya",  
      type: "GET",  
      success: function (result) {  
        console.log(result);  
      },  
      error: function (error) {  
        console.log(error);  
      }  
    })  
  })  
</script>
```



- Uses \$.ajax() method to make the requests.
- the \$.ajax() method takes several parameters, some optional and some required. This method contains two callback functions: success and error to handle the received response easily.





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