

Get Your Data Through

API

JavaScript



Gagan Saini

fetch()

fetch() is a **built-in** JavaScript function that allows you to make HTTP requests to fetch resources (including data) from a network.

It uses promises, which makes it easier to handle asynchronous operations.



```
1 fetch('https://api.example.com/data')
2   .then(response => response.json())
3   .then(data => console.log(data))
4   .catch(error => console.error('Error:', error));
5
```



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axios()

Axios is a popular HTTP client **library** for making requests from browsers or Node.js applications.

It is simpler to the built-in `fetch()` API, with additional features such as request & response interceptors, automatic JSON parsing, and more.



```
1 const axios = require('axios');
2
3 axios.get('https://api.example.com/data')
4   .then(response => console.log(response.data))
5   .catch(error => console.error('Error:', error));
6
```



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ajax()

If you're working with **jQuery**, you can use the `$.ajax()` function to make HTTP requests.

It provides a simple interface for making **AJAX** requests and handling responses.



```
1 $.ajax({  
2   url: 'https://api.example.com/data',  
3   method: 'GET',  
4   success: function(data) {  
5     console.log(data);  
6   },  
7   error: function(xhr, status, error) {  
8     console.error('Error:', error);  
9   }  
10});  
11
```



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XMLHttpRequest()

It's a **built-in** JavaScript object that provides an easy way to fetch data from a URL without a page refresh.

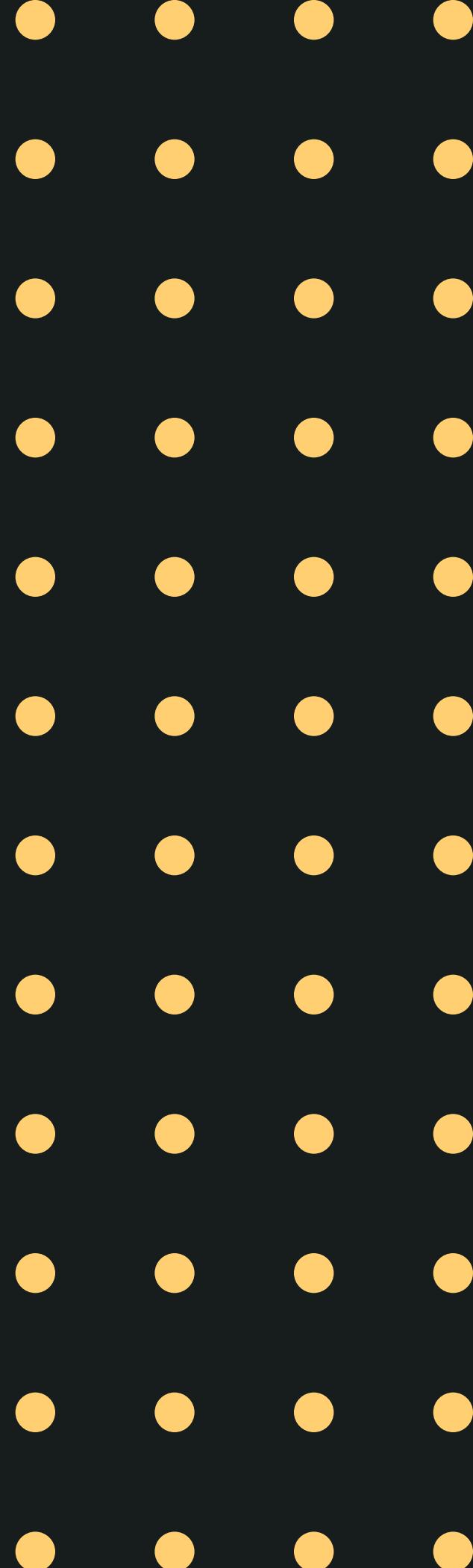
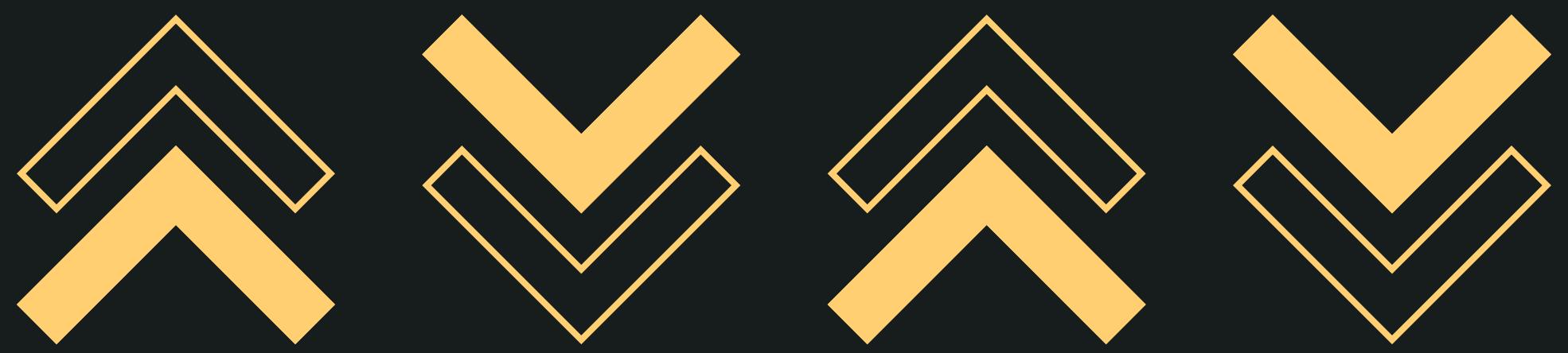
It's a bit lower-level compared to `fetch()` or libraries like Axios, but it's still widely used in many applications.



```
1 const xhr = new XMLHttpRequest();
2 xhr.open('GET', 'https://api.example.com/data', true);
3 xhr.onreadystatechange = () => {
4   if (xhr.readyState === 4 && xhr.status === 200) {
5     console.log(xhr.responseText);
6   } else {
7     console.error('Error:', xhr.statusText);
8   }
9 };
10
11 xhr.send();
12
```



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