

API CheatSheet



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What is an API?

In simple terms, an API (Application Programming Interface) is a set of protocols and tools for building software applications.

APIs allow different software applications to communicate with each other and exchange data.



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API Authentication

API Authentication is the process of verifying the identity of a user or application that is attempting to access an API.

```
index.js

const url = 'https://example.com/api/endpoint';
const headers = new Headers();
headers.set('Authorization', 'Basic YOUR_API_KEY_HERE');

fetch(url, { headers })
  .then(response => response.json())
  .then(data => console.log(data));
```



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HTTP Request Methods

HTTP request methods are an essential part of working with APIs.

```
index.js

// Define the API endpoint
const apiUrl = 'https://jsonplaceholder.typicode.com/posts';

// Make a GET request to the API endpoint
fetch(apiUrl)
  .then(response => response.json())
  .then(data => console.log(data))
  .catch(error => console.error(error));

// Make a POST request to the API endpoint
fetch(apiUrl, {
  method: 'POST',
  headers: {
    'Content-Type': 'application/json'
  },
  body: JSON.stringify({
    title: 'My New Post',
    body: 'This is my new post content.',
    userId: 1
  })
})
  .then(response => response.json())
  .then(data => console.log(data))
  .catch(error => console.error(error));
```



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API Endpoint URLs

API endpoint URLs are used to access specific resources on the API server.

```
index.js

// API endpoint
const url = 'https://example.com/api/endpoint/1234';

// request the API endpoint
fetch(url)
  .then(response => response.json())
  .then(data => console.log(data));
```



Query Parameters

Query parameters are used to filter or modify API responses.

```
index.js

const url = 'https://example.com/api/endpoint';

// query parameters object
const params = { filter: 'completed', sort: 'date' };

// integrated query parameters with the API endpoint
// using (?)
fetch(`${url}?${new URLSearchParams(params)}`)
  .then(response => response.json())
  .then(data => console.log(data));
```



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Request Headers

Request headers are used to provide additional information about an API request.

```
index.js

const url = 'https://example.com/api/endpoint';

// set request headers
const headers = new Headers();
headers.set('X-Custom-Header', 'Value');

fetch(url, { headers })
  .then(response => response.json())
  .then(data => console.log(data));
```

