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Web APIs > Fetch API   English (US)

Fetch API

Baseline Widely available *

> ⓘ **Note:** This feature is available in [Web Workers](#).

The Fetch API provides an interface for fetching resources (including across the network). It is a more powerful and flexible replacement for `XMLHttpRequest`.

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Concepts and usage

The Fetch API uses `Request` and `Response` objects (and other things involved with network requests), as well as related concepts such as CORS and the HTTP Origin header semantics.

For making a request and fetching a resource, use the `fetch()` method. It is a global method in both `Window` and `Worker` contexts. This makes it available in pretty much any context you might want to fetch resources in.

The `fetch()` method takes one mandatory argument, the path to the resource you want to fetch. It returns a `Promise` that resolves to the `Response` to that request — as soon as the server responds with headers — **even if the server response is an HTTP error status**. You can also optionally pass in an `init` options object as the second argument (see `Request`).

Once a `Response` is retrieved, there are a number of methods available to define what the body content is and how it should be handled.

You can create a request and response directly using the `Request()` and `Response()` constructors, but it's uncommon to do this directly. Instead, these are more likely to be created as results of other API actions (for example, `FetchEvent.respondWith()` from service workers).

Find out more about using the Fetch API features in Using Fetch.

Interfaces

`Window.fetch()` and `WorkerGlobalScope.fetch()`

The `fetch()` method used to fetch a resource.

`Headers`

Represents response/request headers, allowing you to query them and take different actions depending on the results.

`Request`

Represents a resource request.

`Response`

Represents the response to a request.

Specifications

Specification
Fetch   # fetch-method ⬈

Browser compatibility

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See also

- Using Fetch
- Service Worker API
- HTTP access control (CORS)
- HTTP

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