

IDBFactory: open() method

Baseline Widely available

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

The `open()` method of the [IDBFactory](#) interface requests opening a [connection to a database](#).

The method returns an [IDBOpenDBRequest](#) object immediately, and performs the open operation asynchronously. If the operation is successful, a `success` event is fired on the request object that is returned from this method, with its `result` attribute set to the new [IDBDatabase](#) object for the connection.

May trigger `upgradeneeded`, `blocked` OR `versionchange` events.

Syntax

JS

```
open(name)  
open(name, version)
```

Parameters

name

The name of the database.

version Optional

Optional. The version to open the database with. If the version is not provided and the database exists, then a connection to the database will be opened without changing its version. If the version is not provided and the database does not exist, then it will be created with version `1`.

Return value

A [IDBOpenDBRequest](#) object on which subsequent events related to this request are fired.

If the operation is successful, the value of the request's [result](#) property is a [IDBDatabase](#) object representing the connection to the database.

Exceptions

[TypeError](#)

Thrown if the value of `version` is not a number greater than zero.

Examples

Example of calling `open` with the current specification's `version` parameter:

JS

```
const request = window.indexedDB.open("todoList", 4);
```

In the following code snippet, we make a request to open a database, and include handlers for the success and error cases. For a full working example, see our [To-do Notifications](#) app ([View the example live](#)).

JS

```
const note = document.querySelector("ul");

// Let us open version 4 of our database
const DBOpenRequest = window.indexedDB.open("todoList", 4);

// these two event handlers act on the database being opened
// successfully, or not
DBOpenRequest.onerror = (event) => {
  note.appendChild(document.createElement("li")).textContent =
    "Error loading database.";
};

DBOpenRequest.onsuccess = (event) => {
  note.appendChild(document.createElement("li")).textContent =
    "Database initialized.";

  // store the result of opening the database in the db
  // variable. This is used a lot later on, for opening
  // transactions and suchlike.
  db = DBOpenRequest.result;
};
```

Specifications

Specification

[Indexed Database API 3.0](#)
[# ref-for-dom-idbfactory-open②](#)

Browser compatibility

[Report problems with this compatibility data on GitHub](#)

	Chrome	Edge	Firefox	Opera	Safari	Chrome Android	Firefox for Android	Opera Android	Safari on iOS	Samsung Internet	WebView Android	WebView on iOS
open	23	12	10	15	15	25	22	14	15	1.5	4.4	15

Tip: you can click/tap on a cell for more information.

Full support Partial support Has more compatibility info.

See also

- [Using IndexedDB](#)
- [Browser storage quotas and eviction criteria](#).
- Starting transactions: [IDBDatabase](#)
- Using transactions: [IDBTransaction](#)
- Setting a range of keys: [IDBKeyRange](#)
- Retrieving and making changes to your data: [IDBObjectStore](#)
- Using cursors: [IDBCursor](#)
- Reference example: [To-do Notifications](#) ([View the example live](#)).

Help improve MDN

Was this page helpful to you?

Yes

No

[Learn how to contribute.](#)

This page was last modified on Jul 19, 2024 by [MDN contributors](#).