

Zone.js

cdnjs v0.11.8

Implements Zones for JavaScript, inspired by [Dart](#).

If you're using zone.js via unpkg (i.e. using `https://unpkg.com/zone.js`) and you're using any of the following libraries, make sure you import them first

- 'newrelic' as it patches `global.Promise` before zone.js does
- 'async-listener' as it patches `global.setTimeout`, `global.setInterval` before zone.js does
- 'continuation-local-storage' as it uses `async-listener`

NEW Zone.js POST-v0.6.0

See the new API [here](#).

Read up on [Zone Primer](#).

BREAKING CHANGES since Zone.js v0.11.1

Prior to v0.11.1 , Zone.js provided two distribution bundle formats in the `dist` folder. They were (1) ES5 bundle distributed as `zone.js` and (2) ES2015 bundle distributed as `zone-evergreen.js` . Both of these bundles were in UMD format, and are used for Angular's differential-loading mechanism.

Starting with v0.11.1 , Zone.js follows the [Angular Package Format](#). Therefor the new Zone.js file layout is:

- `bundles` : ES5 bundle in UMD format.
- `fesm2015` : ES5 bundle in ESM format.
- `dist` : ES5 bundle in UMD format. This directory is present to keep backward compatibility.

If you are using Angular CLI , the `polyfills.ts` file will contain:

```
import 'zone.js/dist/zone';
```

Starting with Zone.js v0.11.1+ the import changes to:

```
import 'zone.js';
```

Prior to v0.11.1 the import would load the ES5 bundle in UMD format from `dist/zone.js` . Starting with v0.11.1 the import loads the ES2015 bundle in ESM format instead.

This is a breaking change for legacy browsers such as IE11 .

For backwards compatibility `zone.js` continues to distribute the same bundles under `dist` . To restore the old behavior import from the `dist` directory instead like so:

```
import 'zone.js/dist/zone';
```

For details, please refer the [changelog](#) and the [PR](#).

What's a Zone?

A Zone is an execution context that persists across async tasks. You can think of it as [thread-local storage](#) for JavaScript VMs.

See this video from ng-conf 2014 for a detailed explanation:

 [screenshot of the zone.js presentation and ng-conf 2014](#)

See also

- [async-listener](#) - a similar library for node
- [Async stack traces in Chrome](#)
- [strongloop/zone](#) (Deprecated)
- [vizione](#) - control flow visualizer that uses zone.js

Standard API support

zone.js patched most standard web APIs (such as DOM events, `XMLHttpRequest`, ...) and nodejs APIs (`EventEmitter`, `fs`, ...), for more details, please see [STANDARD-APIS.md](#).

Nonstandard API support

We are adding support to some nonstandard APIs, such as MediaQuery and Notification. Please see [NON-STANDARD-APIS.md](#) for more details.

Examples

You can find some samples to describe how to use zone.js in [SAMPLE.md](#).

Modules

zone.js patches the async APIs described above, but those patches will have some overhead. Starting from zone.js v0.8.9, you can choose which web API module you want to patch. For more details, please see [MODULE.md](#).

Bundles

Starting with v0.11.0, zone.js uses Angular Package Format for bundle distribution. (For backwards compatibility, all bundles can still be accessed from `dist` folder.)

Bundle	Summary
zone.js	The default bundle. Contains the most used APIs such as <code>setTimeout/Promise/EventTarget...</code> , it also supports differential loading by importing this bundle using <code>import zone.js</code> . In legacy browsers it includes some additional patches such as <code>registerElement</code> and <code>EventTarget</code> like APIs.
zone-testing.js	The bundle for zone testing support of <code>jasmine / mocha / jest</code> . Also includes test utility functions <code>async / fakeAsync / sync</code> .

zone-node.js	The NodeJS support bundle.
zone-mix.js	A mixed bundle which supports both browser and NodeJS. Useful for mixed environment such as Electron.
zone-externs.js	the API definitions for <code>closure compiler</code> .

Additional optional patches not included in the `zone.js` bundles which extend functionality. The additional bundles can be found under `zone.js/plugins` folder. To use these bundles, add the following code after importing zone.js bundle.

```
import 'zone.js';
// For example, import canvas patch
import 'zone.js/plugins/zone-patch-canvas';
```

Patch	Summary
webapis-media-query.js	patch for <code>MediaQuery</code> APIs
webapis-notification.js	patch for <code>Notification</code> APIs
webapis-rtc-peer-connection.js	patch for <code>RTCPeerConnection</code> APIs
webapis-shadydom.js	patch for <code>Shady DOM</code> APIs
zone-bluebird.js	patch for <code>Bluebird</code> APIs
zone-error.js	patch for <code>Error Global Object</code> , supports adding zone information to stack frame, and also removing unrelated stack frames from <code>zone.js</code> internally
zone-patch-canvas.js	patch for <code>Canvas</code> API
zone-patch-cordova.js	patch for <code>Cordova</code> API
zone-patch-electron.js	patch for <code>Electron</code> API
zone-patch-fetch.js	patch for <code>Fetch</code> API
zone-patch-jsonp.js	helper utility for <code>jsonp</code> API
zone-patch-resize-	patch for <code>ResizeObserver</code> API

observer.js	
zone-patch-rxjs.js	patch for rxjs API
zone-patch-rxjs-fake-async.js	patch for rxjs fakeasync test
zone-patch-socket-io.js	patch for socket-io
zone-patch-user-media.js	patch for UserMedia API
zone-patch-message-port.js	patch for MessagePort API

Promise A+ test passed



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