

# HTML5TEST

## how well does your browser support html5?

your browser    news  
other browsers    device lab  
compare    about the test

browsers    features

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## BROWSERS

Select up to five  
browsers and  
compare their test  
results in detail

518  
Chrome 58

478  
Edge 16

### parsing rules

5

5

<!DOCTYPE html> triggers sta...	Yes ✓	Yes ✓
HTML5 tokenizer	Yes ✓	Yes ✓
HTML5 tree building	Yes ✓	Yes ✓
Parsing inline SVG	Yes ✓	Yes ✓
Parsing inline MathML	Yes ✓	Yes ✓

### elements

25

24

Embedding custom non-vis...	Yes ✓	Yes ✓
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### New or modified elements

▶ Section elements	Yes ✓	Yes ✓
▶ Grouping content elements	Yes ✓	Partial ○
▶ Text-level semantic elements	Partial ○	Partial ○
▶ Interactive elements	Partial ○	Partial ○

**Global attributes or methods**

hidden attribute	Yes ✓	Yes ✓
► Dynamic markup insertion	Yes ✓	Yes ✓

**forms****64****63****Field types**

► input type=text	Yes ✓	Yes ✓
► input type=search	Yes ✓	Yes ✓
► input type=tel	Yes ✓	Yes ✓
► input type=url	Yes ✓	Yes ✓
► input type=email	Yes ✓	Yes ✓
► input type=date	Yes ✓	Yes ✓
► input type=month	Yes ✓	Yes ✓
► input type=week	Yes ✓	Yes ✓
► input type=time	Yes ✓	Yes ✓
► input type=datetime-local	Yes ✓	Yes ✓
► input type=number	Yes ✓	Yes ✓
► input type=range	Yes ✓	Yes ✓
► input type=color	Yes ✓	Yes ✓
► input type=checkbox	Yes ✓	Yes ✓
► input type=image	Yes ✓	Yes ✓
► input type=file	Partial ○	Partial ○
► textarea	Yes ✓	Yes ✓
► select	Yes ✓	Yes ✓
► fieldset	Yes ✓	Partial ○
► datalist	Yes ✓	Yes ✓
► output	Yes ✓	Yes ✓
► progress	Yes ✓	Yes ✓
► meter	Yes ✓	Yes ✓

**Fields**

► Field validation	Yes ✓	Yes ✓
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► Association of controls and	Yes ✓	Partial ○
► Other attributes	Yes ✓	Partial ○
► CSS selectors	Yes ✓	Yes ✓
► Events	Yes ✓	Yes ✓

**forms****Forms**

► Form validation	Yes ✓	Yes ✓
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**web components****10****2**

Custom elements	Yes ✓	No ✗
Shadow DOM	Yes ✓	No ✗
HTML templates	Yes ✓	Yes ✓
HTML imports	Yes ✓	No ✗

**location and orier****20****20**

Geolocation	Yes ✓	Yes ✓
Device Orientation	Yes ✓	Yes ✓
Device Motion	Yes ✓	Yes ✓

**output****8****8**

Full screen support	Prefixed ✓	Prefixed ✓
Web Notifications	Yes ✓	Yes ✓

**input****10****10**

Gamepad control	Yes ✓	Yes ✓
Pointer Events	Yes ✓	Yes ✓
Pointer Lock support	Yes ✓	Yes ✓

**video****29****33**

video element	Yes ✓	Yes ✓
Subtitles	Yes ✓	Yes ✓

Audio track selection	No ✗	Yes ✓
Video track selection	No ✗	Yes ✓
Poster images	Yes ✓	Yes ✓
Codec detection	Yes ✓	Yes ✓

#### Video codecs

MPEG-4 ASP support	No ✗	Yes ✓
H.264 support	Yes ✓	Yes ✓
H.265 support	No ✗	No ✗
Ogg Theora support	Yes ✓	No ✗
WebM with VP8 support	Yes ✓	Yes ✓
WebM with VP9 support	Yes ✓	Yes ✓

## audio

29

27

audio element	Yes ✓	Yes ✓
Loop audio	Yes ✓	Yes ✓
Preload in the background	Yes ✓	Yes ✓

#### Advanced

Web Audio API	Yes ✓	Yes ✓
Speech Recognition	Prefixed ✓	No ✗
Speech Synthesis	Yes ✓	Yes ✓

#### Audio codecs

PCM audio support	Yes ✓	Yes ✓
MP3 support	Yes ✓	Yes ✓
AAC support	Yes ✓	Yes ✓
Dolby Digital support	No ✗	Yes ✓
Dolby Digital Plus support	No ✗	Yes ✓
Ogg Vorbis support	Yes ✓	No ✗
Ogg Opus support	Yes ✓	No ✗
WebM with Vorbis support	Yes ✓	Yes ✓
WebM with Opus support	Yes ✓	No ✗

streaming	5	5
Media Source extensions	Yes ✓	Yes ✓
DRM support	Yes ✓	Yes ✓
<b>Adaptive bit rate</b>		
Dynamic Adaptive Streami...	No ✗	Yes ✓
HTTP Live Streaming / HLS	No ✗	Yes ✓
<b>Codecs</b>		
▶ Video codecs	Partial ○	Partial ○
▶ Audio codecs	Partial ○	Partial ○
responsive image	15	15
picture element	Yes ✓	Yes ✓
srcset attribute	Yes ✓	Yes ✓
sizes attribute	Yes ✓	Yes ✓
2d graphics	24	24
Canvas 2D graphics	Yes ✓	Yes ✓
<b>Drawing primitives</b>		
Text support	Yes ✓	Yes ✓
Path support	Yes ✓	Yes ✓
Ellipse support	Yes ✓	Yes ✓
Dashed line support	Yes ✓	Yes ✓
System focus ring support	Yes ✓	Yes ✓
<b>Features</b>		
Hit testing support	No ✗	No ✗
Blending modes	Yes ✓	Yes ✓
<b>Image export formats</b>		
PNG support	Yes ✓	Yes ✓
JPEG support	Yes ✓	Yes ✓
JPEG-XR support	No ✗	No ✗

WebP support	Yes ✓	No ✗
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<b>3d and vr</b>	<b>20</b>	<b>18</b>
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**3D Graphics**

WebGL	Yes ✓	Prefixed ✓
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WebGL 2	Yes ✓	No ✗
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**VR Headset**

WebVR	No ✗	Yes ✓
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<b>animation</b>	<b>8</b>	<b>5</b>
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Web Animations API	Yes ✓	No ✗
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window.requestAnimationFrame	Yes ✓	Yes ✓
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<b>communication</b>	<b>40</b>	<b>35</b>
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Server-Sent Events	Yes ✓	No ✗
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Beacon	Yes ✓	Yes ✓
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Fetch	Yes ✓	Yes ✓
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**XMLHttpRequest Level 2**

Upload files	Yes ✓	Yes ✓
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► Response type support	Yes ✓	Yes ✓
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**WebSocket**

Basic socket communication	Yes ✓	Yes ✓
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ArrayBuffer and Blob support	Yes ✓	Yes ✓
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<b>streams</b>	<b>4</b>	<b>4</b>
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Readable streams	Yes ✓	Yes ✓
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Writable streams	No ✗	No ✗
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<b>peer to peer</b>	<b>40</b>	<b>33</b>
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**Connectivity**

WebRTC 1.0	Yes ✓	Yes ✓
ObjectRTC API for WebRTC	No ✗	Yes ✓
Data channel	Yes ✓	No ✗

**Input**

Access the webcam	Yes ✓	Yes ✓
Screen Capture	No ✗	No ✗
Enumerate devices	Yes ✓	Yes ✓

**Recording**

Media Stream recorder	Yes ✓	No ✗
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**user interaction****19****19****Drag and drop**

► Attributes	Partial ○	Partial ○
► Events	Yes ✓	Yes ✓

**HTML editing**

► Editing elements	Yes ✓	Yes ✓
► Editing documents	Yes ✓	Yes ✓
► CSS selectors	Yes ✓	Yes ✓
► APIs	Yes ✓	Yes ✓

**Clipboard**

Clipboard API and events	Yes ✓	Yes ✓
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**Spellcheck**

spellcheck attribute	Yes ✓	Yes ✓
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**performance****12****10****Workers**

Web Workers	Yes ✓	Yes ✓
Shared Workers	Yes ✓	No ✗

**Other**

window.requestIdleCallback	Yes	No
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**security****29****23**

Web Cryptography API	Yes	Yes
Content Security Policy 1	Yes	Yes
Content Security Policy 2	Yes	Yes
Cross-Origin Resource Sha...	Yes	Yes
Subresource Integrity	Yes	No
Cross-document messaging	Yes	Yes

**Authentication**

Web Authentication / FIDO 2	No	Partial
Credential Management	Yes	No

**Iframes**

Sandboxed iframe	Yes	Yes
iframe with inline contents	Yes	No

**payments****0****5**

Web Payments	No	Yes
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**web applications****16****3****Offline resources**

Application Cache	Yes	Yes
Service Workers	Yes	No
Push Messages	Yes	No

**Content and Scheme handlers**

Custom scheme handlers	Yes	No
Custom content handlers	No	No

**storage****35****35**



**Key-value storage**

Session Storage	Yes ✓	Yes ✓
Local Storage	Yes ✓	Yes ✓

**Database storage**

IndexedDB	Yes ✓	Yes ✓
Objectstore Blob support	Yes ✓	Yes ✓
Objectstore ArrayBuffer sup...	Yes ✓	Yes ✓
Web SQL Database	Yes ✓	No ✗

**files****15****15****Reading files**

Basic support for reading files	Yes ✓	Yes ✓
Create a Blob from a file	Yes ✓	Yes ✓
Create a Data URL from a ...	Yes ✓	Yes ✓
Create an ArrayBuffer from ...	Yes ✓	Yes ✓
Create a Blob URL from a B...	Yes ✓	Yes ✓

**Accessing the file system**

FileSystem API	No ✗	No ✗
File API: Directories and Sy...	Prefixed ✓	No ✗















**scripting****27****28****Script execution**

Asynchronous script execut...	Yes ✓	Yes ✓
Deferred script execution	Yes ✓	Yes ✓
Script execution events	No ✗	No ✗
Runtime script error reporting	Yes ✓	Yes ✓

**ECMAScript 5**

JSON encoding and decodi...	Yes ✓	Yes ✓
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**ECMAScript 6**

Modules	No 	Yes 
Classes	Yes 	Yes 
Arrow functions	Yes 	Yes 
Promises	Yes 	Yes 
Template strings	Yes 	Yes 
Typed arrays	Yes 	Yes 
Internationalization	Yes 	Yes 

**ECMAScript 7**

Async and Await	Yes 	Yes 
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**Other API's**

Base64 encoding and deco...	Yes 	Yes 
Mutation Observer	Yes 	Yes 
URL API	Yes 	Yes 
Encoding API	Yes 	No 

**other****9****9**

Session history	Yes 	Yes 
Page Visibility	Yes 	Yes 
Text selection	Yes 	Yes 
Scroll into view	Yes 	Yes 

**About these scores**

The data above is compiled from automatically submitted test results. It is possible your results may differ slightly due to external factors such as settings and which operating system is used. If you believe the data above is incorrect, or if you think we are missing an important browser or device, please open a bug report at [Github](#).

Created by Niels Leenheer.

Please note that the HTML5 test is not affiliated with the W3C or the HTML5 working group.

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