your browser

other browsers

compare

news

device la

about the test



BROWSERS

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

528	497	312	518
Chrome 68	Firefox 60	Internet Explorer 11	Opera 45

parsing rules	5	5	5	5
html triggers standards mode	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
HTML5 tokenizer	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
HTML5 tree building	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Parsing inline SVG	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Parsing inline MathML	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸

elements	27	26	15	25
Embedding custom non-visible data	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸

New or modified elements

► Section elements	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
► Grouping content elements	Yes ✓	Yes 🗸	Partial O	Yes 🗸
► Text-level semantic elements	Yes ✓	Partial O	Partial O	Partial 0
Interactive elements	Partial O	Partial 0	No ×	Partial 0
Global attributes or methods				
nidden attribute	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
▶ Dynamic markup insertion	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
forms	64	52	34	64
Field types		.[
▶ input type=text	Yes ✓	Yes 🗸	Partial O	Yes 🗸
▶ input type=search	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
▶ input type=tel	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
▶ input type=url	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
▶ input type=email	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
▶ input type=date	Yes ✓	Yes 🗸	No ×	Yes 🗸
input type=month	Yes 🗸	No ×	No ×	Yes 🗸
▶ input type=week	Yes ✓	No ×	No ×	Yes 🗸
▶ input type=time	Yes ✓	Yes 🗸	No X	Yes 🗸
▶ input type=datetime-local	Yes ✓	No ×	No ×	Yes 🗸
input type=number	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸

▶ input type=range

Yes 🗸

Yes 🗸

Yes 🗸

Yes 🗸

▶ input type=color	Yes 🗸	Yes 🗸	No ×	Yes 🗸
▶ input type=checkbox	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
▶ input type=image	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
▶ input type=file	Partial O	Partial O	Partial O	Partial O
▶ textarea	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
▶ select	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
▶ fieldset	Yes 🗸	Yes 🗸	Partial O	Yes 🗸
▶ datalist	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
▶ output	Yes 🗸	Yes 🗸	No ×	Yes 🗸
▶ progress	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
▶ meter	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Fields				
► Field validation	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
► Association of controls and forms	Yes 🗸	Yes 🗸	Partial O	Yes 🗸
▶ Other attributes	Yes 🗸	Partial O	Partial O	Yes 🗸
► CSS selectors	Yes 🗸	Yes 🗸	Partial O	Yes 🗸
▶ Events	Yes 🗸	Yes 🗸	Partial O	Yes 🗸
Forms				
▶ Form validation	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
	40	0	0	10
web components	10	2	0	10
Custom elements	Yes 🗸	No X	No X	Yes 🗸

Shadow DOM	Yes 🗸	No ×	No ×	Yes 🗸
HTML templates	Yes 🗸	Yes 🗸	No X	Yes 🗸
HTML imports	Yes 🗸	No X	No X	Yes 🗸
location and orientation	20	20	20	20
Geolocation	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Device Orientation	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Device Motion	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
output	8	8	3	8
Full screen support	Prefixed <	Prefixed <	Prefixed <	Prefixed <
Web Notifications	Yes 🗸	Yes 🗸	No X	Yes 🗸
input	10	10	5	10
Gamepad control	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Pointer Events	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Pointer Lock support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
video	29	29	31	29
video element	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Subtitles	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸

Audio track selection	No X	No X	Yes 🗸	No X
Video track selection	No ×	No ×	No ×	No ×
Poster images	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Codec detection	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Video codecs				
MPEG-4 ASP support	No ×	No ×	No ×	No X
H.264 support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
H.265 support	No ×	No ×	No ×	No ×
Ogg Theora support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
WebM with VP8 support	Yes 🗸	Yes 🗸	No X	Yes 🗸
WebM with VP9 support	Yes 🗸	Yes 🗸	No X	Yes 🗸
audio	29	27	20	29
	29 Yes ✓	27 Yes ✓	20 Yes ✓	29 Yes ✓
audio				
audio element	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
audio audio element Loop audio	Yes ✓ Yes ✓	Yes ✓ Yes ✓	Yes ✓ Yes ✓	Yes ✓
audio element Loop audio Preload in the background	Yes ✓ Yes ✓	Yes ✓ Yes ✓	Yes ✓ Yes ✓	Yes ✓
audio audio element Loop audio Preload in the background Advanced	Yes ✓ Yes ✓ Yes ✓	Yes ✓ Yes ✓ Yes ✓	Yes ✓ Yes ✓ Yes ✓	Yes ✓ Yes ✓ Yes ✓
audio element Loop audio Preload in the background Advanced Web Audio API	Yes ✓ Yes ✓ Yes ✓	Yes ✓ Yes ✓ Yes ✓	Yes ✓ Yes ✓ Yes ✓	Yes ✓ Yes ✓ Yes ✓
audio element Loop audio Preload in the background Advanced Web Audio API Speech Recognition	Yes ✓ Yes ✓ Yes ✓ Prefixed ✓	Yes ✓ Yes ✓ Yes ✓ No X	Yes ✓ Yes ✓ Yes ✓ No X	Yes ✓ Yes ✓ Yes ✓ Prefixed ✓

MP3 support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
AAC support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Dolby Digital support	No X	No ×	No ×	No X
Dolby Digital Plus support	No X	No ×	No ×	No X
Ogg Vorbis support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Ogg Opus support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
WebM with Vorbis support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
WebM with Opus support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
streaming	5	5	5	5
Media Source extensions	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
DRM support	Yes 🗸	Yes 🗸	Prefixed <	No X
Adaptive bit rate				
Dynamic Adaptive Streaming / MPEG-DASH	No ×	No ×	No X	No X
HTTP Live Streaming / HLS	No ×	No X	No ×	No ×
Codecs				
▶ Video codecs	Partial 0	Partial 0	Partial O	Partial 0
► Audio codecs	Partial 0	Partial 0	Partial O	Partial 0
responsive images	15	15	0	15
picture element	Yes 🗸	Yes 🗸	No ×	Yes 🗸
attributo	Voc. /	Voc. /	No. V	Voc. /

STOSET ALLIBULE	162 🗸	165 🗸	INU ^	162 🗸
sizes attribute	Yes 🗸	Yes 🗸	No ×	Yes 🗸
2d graphics	24	24	14	24
Canvas 2D graphics	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Drawing primitives				
Text support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Path support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Ellipse support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Dashed line support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
System focus ring support	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Features				
Hit testing support	No ×	No ×	No ×	No ×
Blending modes	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Image export formats				
PNG support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
JPEG support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
JPEG-XR support	No ×	No ×	No ×	No ×
WebP support	Yes 🗸	No ×	No X	Yes 🗸
3d and vr	20	23	15	20

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WebGL	Yes ✓	Yes 🗸	Prefixed <	Yes 🗸
WebGL 2	Yes ✓	Yes 🗸	No X	Yes 🗸
VR Headset				
WebVR	No X	Yes 🗸	No ×	No X
animation	8	8	5	8
Web Animations API	Yes ✓	Yes 🗸	No ×	Yes 🗸
window.requestAnimationFrame	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
communication	40	40	27	40
Server-Sent Events	Yes ✓	Yes 🗸	No ×	Yes 🗸
Beacon	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Fetch	Yes ✓	Yes 🗸	No X	Yes 🗸
XMLHttpRequest Level 2				
Upload files	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
▶ Response type support	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
WebSocket				
Basic socket communication	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
ArrayBuffer and Blob support	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸

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Readable streams	Yes 🗸	No X	No X	Yes 🗸
Writable streams	No X	No ×	No ×	No X
peer to peer	40	40	0	40
Connectivity				
WebRTC 1.0	Yes 🗸	Yes 🗸	No ×	Yes 🗸
ObjectRTC API for WebRTC	No X	No ×	No ×	No X
Data channel	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Input				
Access the webcam	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Screen Capture	No X	No ×	No ×	No X
Enumerate devices	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Recording				
Media Stream recorder	Yes 🗸	Yes 🗸	No ×	Yes 🗸
user interaction	19	18	12	19
Drag and drop				
► Attributes	Partial 0	Partial 0	Partial 0	Partial O
▶ Events	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
HTML editing				

▶ Editing elements	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
► Editing documents	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
► CSS selectors	Yes 🗸	Yes 🗸	No ×	Yes 🗸
▶ APIs	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Clipboard				
Clipboard API and events	Yes 🗸	Yes 🗸	No X	Yes 🗸
Spellcheck				
spellcheck attribute	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
performance	12	12	10	12
Workers				
Web Workers	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Shared Workers	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Other				
window.requestIdleCallback	Yes 🗸	Yes 🗸	No ×	Yes 🗸
security	29	27	13	29
Web Cryptography API	Yes 🗸	Yes 🗸	Prefixed <	Yes 🗸
Content Security Policy 1	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Content Security Policy 2	Yes 🗸	No X	No ×	Yes 🗸
Cross-Origin Resource Sharing	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
- · · · ·			,	

Subresource Integrity	Yes 🗸	Yes 🗸	No X	Yes 🗸
Cross-document messaging	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Authentication				
Web Authentication / FIDO 2	No X	No ×	No ×	No ×
Credential Management	Yes 🗸	Yes 🗸	No X	Yes 🗸
Iframes				
Sandboxed iframe	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
iframe with inline contents	Yes 🗸	Yes 🗸	No X	Yes 🗸
payments	5	0	0	0
Web Payments	Yes 🗸	No ×	No X	No X
web applications	16	17	3	16
Offline resources				
Application Cache	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Service Workers	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Push Messages	Yes 🗸	Yes 🗸	No X	Yes 🗸
Content and Scheme handlers				
Custom scheme handlers	Yes 🗸	Yes 🗸	No X	Yes 🗸
Odstom scheme nandicis	163 🗸			

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storage	35	35	35	35
Key-value storage				
Session Storage	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Local Storage	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Database storage				
IndexedDB	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Objectstore Blob support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Objectstore ArrayBuffer support	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Web SQL Database	Yes ✓	No ×	No ×	Yes 🗸
files	15	15	15	15
Reading files				
Basic support for reading files	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Create a Blob from a file	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
			.,	
Create a Data URL from a Blob	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
Create a Data URL from a Blob Create an ArrayBuffer from a Blob	Yes ✓ Yes ✓	Yes ✓ Yes ✓	Yes ✓	Yes ✓
Create an ArrayBuffer from a Blob	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
Create an ArrayBuffer from a Blob Create a Blob URL from a Blob	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸

scripting	30	30	lb	21
Script execution				
Asynchronous script execution	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Defered script execution	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Script execution events	No ×	Yes 🗸	No ×	No ×
Runtime script error reporting	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
ECMAScript 5				
JSON encoding and decoding	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
ECMAScript 6				
Modules	Yes 🗸	Yes 🗸	No ×	No ×
Classes	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Arrow functions	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Promises	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Template strings	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Typed arrays	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Internationalization	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
ECMAScript 7				
Async and Await	Yes 🗸	Yes 🗸	No ×	Yes 🗸
Other API's				
Base64 encoding and decoding	Yes ✓	Yes 🗸	Yes 🗸	Yes 🗸
Mutation Observer	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
URL API	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸

Encoding At 1	163 🗸	163 🗸	NO X	163 🗸
other	9	9	9	9
Session history	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Page Visibility	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Text selection	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸
Scroll into view	Yes 🗸	Yes 🗸	Yes 🗸	Yes 🗸

Yes V

About these scores

Encoding API

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.

Yes / No X Yes /

Created by Niels Leenheer.

Please note that the HTML5 test is not affiliated with the W3C or the HTML5 working group. HTML5 Logo by $\underline{\text{W3C}}$. Browser detection by $\underline{\text{WhichBrowser}}$.

