

Timeline Event Reference



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The timeline events mode displays all events triggered while making a recording. Use the timeline event reference to learn more about each timeline event type.

Common timeline event properties

Certain details are present in events of all types, while some only apply to certain event types. This section lists properties common to different event types. Properties specific to certain event types are listed in the references for those event types that follow.

Property	When is it shown
Aggregated time	For events with <u>nested events</u> , the time taken by each category of events.
Call Stack	For events with <u>child events</u> , the time taken by each category of events.
CPU time	How much CPU time the recorded event took.
Details	Other details about the event.
Duration (at time-stamp)	How long it took the event with all of its children to complete; timestamp is the time at which the event occurred, relative to when the recording started.
Self time	How long the event took without any of its children.
Used Heap Size	Amount of memory being used by the application when the event was recorded, and the delta (+/-) change in used heap size since the last sampling.

Loading events

This section lists events that belong to Loading category and their properties.

Event	Description
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Event	Description
Parse HTML	Chrome executed its HTML parsing algorithm.
Finish Loading	A network request completed.
Receive Data	Data for a request was received. There will be one or more Receive Data events.
Receive Response	The initial HTTP response from a request.
Send Request	A network request has been sent.

Loading event properties

Property	Description
Resource	The URL of the requested resource.
Preview	Preview of the requested resource (images only).
Request Method	HTTP method used for the request (GET or POST, for example).
Status Code	HTTP response code.
MIME Type	MIME type of the requested resource.
Encoded Data Length	Length of requested resource in bytes.

Scripting events

This section lists events that belong to the Scripting category and their properties.

Event	Description
Animation Frame Fired	A scheduled animation frame fired, and its callback handler invoked.
Cancel Animation Frame	A scheduled animation frame was canceled.
GC Event	Garbage collection occurred.
DOMContentLoaded	The <u>DOMContentLoaded</u> was fired by the browser. This event is fired when all of the page's DOM content has been loaded and parsed.

Event	Description
Evaluate Script	A script was evaluated.
Event	A JavaScript event ("mousedown", or "key", for example).
Function Call	A top-level JavaScript function call was made (only appears when browser enters JavaScript engine).
Install Timer	A timer was created with <code>setInterval()</code> or <code>setTimeout()</code> .
Request Animation Frame	A <code>requestAnimationFrame()</code> call scheduled a new frame
Remove Timer	A previously created timer was cleared.
Time	A script called <code>console.time()</code> .
Time End	A script called <code>console.timeEnd()</code> .
Timer Fired	A timer fired that was scheduled with <code>setInterval()</code> or <code>setTimeout()</code> .
XHR Ready State Change	The ready state of an XMLHttpRequest changed.
XHR Load	An XMLHttpRequest finished loading.

Scripting event properties

Property	Description
Timer ID	The timer ID.
Timeout	The timeout specified by the timer.
Repeats	Boolean that specifies if the timer repeats.
Function Call	A function that was invoked.

Rendering events

This section lists events that belong to Rendering category and their properties.

Event	Description

Event	Description
Invalidate layout	The page layout was invalidated by a DOM change.
Layout	A page layout was executed.
Recalculate style	Chrome recalculated element styles.
Scroll	The content of nested view was scrolled.

Rendering event properties

Property Description

Layout invalidated	For Layout records, the stack trace of the code that caused the layout to be invalidated.
Nodes that need layout	For Layout records, the number of nodes that were marked as needing layout before the that need layout started. These are normally those nodes that were invalidated by developer code, plus a path upward to relayout root.
Layout tree size	For Layout records, the total number of nodes under the relayout root (the node that Chrome starts the relayout).
Layout scope	Possible values are "Partial" (the re-layout boundary is a portion of the DOM) or "Whole document".
Elements affected	For Recalculate style records, the number of elements affected by a style recalculation.
Styles invalidated	For Recalculate style records, provides the stack trace of the code that caused the style invalidatedinvalidation.

Painting events

This section lists events that belong to Painting category and their properties.

Event	Description
Composite Layers	Chrome's rendering engine composited image layers.
Image Decode	An image resource was decoded.

Event	Description
Image Resize	An image was resized from its native dimensions.
Paint	Composited layers were painted to a region of the display. Hovering over a Paint record highlights the region of the display that was updated.

Painting event properties

Property	Description
Location	For Paint events, the x and y coordinates of the paint rectangle.
Dimensions	For Paint events, the height and width of the painted region.

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Last updated July 2, 2018.