

# Chrome Platform Status

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SU

## NO ACTIVE DEVELOPMENT

'noopener' should always disown the opener

DOM

When targeting links with rel=noopener the opener should always be disowned. That

<dialog>: add DialogShowParams to show()/showModal()

DOM

Adds parameters to change how show() or showModal() is called.

Altitude/Azimuth for PointerEvents v3

User input

Add Altitude/Azimuth angles to PointerEvents. Implement TiltX/TiltY to Altitude/Azimuth

There are two common ways for determining the inclination of a stylus: - tiltX (angle

Antialiased Clipping in Canvas

Graphics

The Canvas spec seems intentionally vague about the antialiasing of clips but: a) pe

CSS Flexbox: New intrinsic size algorithm

CSS

The CSS Flexbox specification changed the algorithm for calculating a flexbox's intrin

CSS Generated Content for Paged Media Module

CSS

CSS properties helpful for printed publication. We only implement paged-x / paged-y

CSS filter() image function

CSS

The function allows filtering an CSS input image with a set of filter functions. The use



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Delayed ink API

Enable web applications to describe the last input pointer with sufficient detail so tha

Achieving low latency is critical for delivering great inking experiences on the Web. Ir

DualScreen/Foldables CSS additions

CSS

Add new CSS media feature and environment variables to enable web developers to

Enable responsive layouts across dual screen and foldable devices now entering the

FileSystem interfaces for directory upload

File APIs

Expose these types used for Directory Upload in Chrome, Firefox and Edge: \* FileSys

API is exposed in all browsers (Chrome, Safari, Edge, Firefox), but the interfaces aren

HTMLCanvasElement.renderedPixelWidth/Height

Read-only attributes that indicate the intrinsic size that must be set on a canvas for it

HTTPSSVC DNS record

Network / Connectivity

HTTPSSVC is a new DNS resource record that contains an extensible key-value map.

HTTPSSVC is a new DNS resource record, proposed in draft-ietf-dnsop-svcb-httpsvc

Intervention: Throttling dedicated workers when page is backgrounded

Performance

This intervention throttles work in dedicated workers associated with background pa

JitterBufferDelayHint

Web RTC

Native WebRTC provides methods to increase latency on the remote sources. Increase

Permissions.request() and Permissions.revoke()

Misc

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Stopping a transceiver allows freeing its network port, encoder and decoder resources.

## Remove Content Type Sniffing for Worker Scripts

JavaScript

Worker scripts will be rejected unless they're delivered with a javascript MIME type (e.g. application/javascript). Web browsers will execute JavaScript, use CSS, etc., even if the Content-Type: header says something else.

## Remove full text search (FTS) support from WebSQL

Offline / Storage

WebSQL is a discontinued standard that was only implemented by WebKit and Blink.

## Sec-CH-Lang Client Hint

Security

The Sec-CH-Lang client hint aims to deprecate and replace the Accept-Language header.

## Service Worker Scope Pattern Matching

Service Worker

Improves service worker scoping to give developers finer grained control over site configuration.

We have heard from multiple partners that the service worker scoping mechanism does not meet their needs.

## Signature-based Resource Loading Restrictions

Security

Subresource integrity is extended with digital signatures. This allows web developers to verify the integrity of resources.

## String.prototype.replaceAll

JavaScript

JavaScript now has first-class support for global substring replacement through the replaceAll() method.

## Suborigins

Security

Provides a mechanism for a server to specify a new origin for a page to run in that is different from the page's own origin.

## Treat `http://localhost` as a secure origin

Security



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update syntax per spec

The CSS image-set function has been shipped under the webkit prefix for many versions.

## VirtualKeyboard API

User input

The virtual keyboard is the on-screen keyboard used for input in scenarios where a hardware keyboard is not available.

Unlike a hardware keyboard, VK can adapt its shape to optimize for the expected type of input.

## WebAssembly ECMAScript Module Integration

JavaScript

Allow JS to import WebAssembly modules and the reverse.

## WebAudio: AudioDestinationNode has a single output

Multimedia

The AudioDestinationNode for an AudioContext has a single output which is the audio output.

## WebID

Misc

Adds an API for mediating the exchange of identity tokens between relying parties at

<https://github.com/samuelgoto/WebID>

## XHR: xhr.responseURL returns the response URL

Service Worker

The URL of XHR responses is now the response URL rather than the request URL. This

## user-select:contain

CSS

This user-select:contain value allows authors to specify which elements in the document

## PROPOSED

## 'font-display: optional' without relayout

CSS

Tweak web font loading, so that: - Web fonts with 'font-display: optional' never cause

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Add support for the modern fragmentainer break controlling properties break-after, b

**CSSTextEmphasisPosition: support for left and right values**

css

Support for 'left' and 'right' values for CSSTextEmphasisPosition property. left : Draw

**Configurable WebRTC jitter buffer max size**

Web RTC

Create an origin trial that when enabled allows users to change the size of the WebR

**Conversion Measurement API**

Misc

This API measures ad conversions (e.g. purchases) and attributes them to clicked ac

Currently, the web ad industry measures conversions via identifiers they can associa

**Default Style for Custom Elements**

Web Components

This feature will allow a default style for custom elements at the point of their registr

**Deprecate nonsecurely delivered cookies.**

Security

Cookies sent over plaintext HTTP are visible to anyone on the network. This visibility

**Disallow document.open and document.write during unload**

DOM

Aligns our behavior to match Firefox, Safari, and the spec. Allows potential future sin

**EditContext API**

User input

The EditContext API simplifies the process of integrating a web app with advanced te

The web platform provides out-of-the-box editing experiences for single lines of plain

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This specification defines an interface to help web developers measure the rendering performance of their pages.

### Gutters in flexbox: row-gap and column-gap properties

css

This CSS property allows you to specify spacing between flex items and/or flex lines.

Developers can get close to this functionality with the margin and padding properties.

### HTMLMediaElement latencyHint

Multimedia

The latencyHint attribute gives web authors influence over how much decoded output to play.

In the other direction, some sites may prefer latency to be higher than the UA default.

### Imperative Shadow DOM Distribution API

DOM

Web developers can specify node-to-slot assignments imperatively in Shadow DOM.

Allow node-to-slot assignments without needing to add slot attribute in markup. And

### Independent Properties for CSS Transforms

css

The following CSS properties are defined: translate rotate scale This exposes a simple

### Navigation-controls media query

css

Adds 'navigation-controls' media feature, which is used to detect if the user agent has

PWAs today have no way of determining whether a back button will be provided by the

### Portals

Misc

This is a proposal for enabling seamless navigations between sites or pages. In part

Enable seamless transitions across navigations.

### RTCIceTransport extensions

css

Implement the RTCIceTransport extensions, a standalone network transport that allo

### Remove ImageCapture.setOptions()

DOM

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## 'animationIteration' event handler

Deprecate and remove the prefixed version of the 'animationIteration' event handler, '`webkitAnimationIteration`' is fully replaced by the unprefixed 'animationiteration'.

## Resize Observer Updates

DOM

`ResizeObserver` is an existing DOM observer API intended to be used for observing Web Components want to be responsive: a map that tiles its content area; a menu th

## Restrict history navigations if navigation occurs from a sandboxed iframe

Security

Requires top-level navigation permission for history navigations from sandboxed ifra Sandboxing an iframe should prevent an iframe from having effects outside of itself.

## Scroll Timeline for Web Animations

JavaScript

`ScrollTimeline` is an extension for the Web Animations spec, which allows developers

## Send Mouse Events to Disabled Form Controls

User input

Events that have no activation behavior should be sent to form controls. That is the t

## Speech Recognition with WebRTC

Realtime / Communication

Chrome supports speech recognition for use cases like voice search and voice input

## Standby API

Device

The API would prevent the device from entering a power-saving state (e.g. turning off

## Strictly block "blockable" mixed content

Security

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## styling API for extensions

Provide extensions with a way to inject styles into a page that take precedence over the page's styles.

## Version History

Misc

This feature intends to add a new entry to the PWA manifest that includes information about the application's version.

When a new version of a piece of native software rolls out users are typically made aware of it through notifications or updates.

## WebAssembly Content Security Policy

JavaScript

Enhancements to Content Security Policy to improve interoperability with WebAssembly.

## WebAssembly Interface Types

JavaScript

Allow WebAssembly modules to invoke, construct, and efficiently marshal to JavaScript objects.

## WebAssembly Managed Objects / GC

JavaScript

Adds to WebAssembly the ability to manipulate structured data containing reference types.

## Window Controls Overlay for Installed Desktop Web Apps

Misc

When the window controls overlay is enabled for installed desktop web apps, the app will appear as a standard desktop application.

Developers can use this feature to make their installed desktop web apps look like native desktop applications.

## Window Segments Enumeration API

Misc

API that describes the logical segments of a window's viewport.

Add a new JavaScript API to enable web developers to target a new class of foldable windows.

## iframe attribute for limiting same-origin iframe document access

DOM

Two primary goals: - Be able to embed iframes that have same-origin as other frames.

Allowing cross-document DOM access has made the web very complicated. Wouldn't it be nice if we could limit what documents can be embedded?

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## SEC-PURPOSE. PREFETCH HTTP request header

Chrome has set non-standardized 'Purpose: prefetch' header for the link-rel prefetch

Chrome is enabling OOR-CORS by default. This will bring more strict CORS implemen

## IN DEVELOPMENT

### @property

CSS

The @property rule is an alternative way to register a custom property, without JavaScript.

Waiting for a script to register a property may not be desirable in all cases. Depending on (async) circumstance, registering a property in JS can cause a full style recalculation of the document, depending on when it happens. With @property, the registration can be part of the CSS stylesheet, the same way e.g. @keyframes can.

### Chromium status

### Consensus & standardization

In development



Tracking bug #973830

Editor's draft

Blink component

Blink

Owner(s) andruud@chromium.org

After a feature ships in Chrome, the values listed here are not guaranteed to be up to date.

### AVIF Image Decode

Multimedia

AVIF is a next generation image format standardized by the Alliance for Open Media.

Three primary motivations for supporting AVIF: 1. Reduce bandwidth consumption t

### Accessible Object Model (AOM)

DOM

This effort aims to create a JavaScript API to allow developers to modify (and even

### Adaptive-ptime Field in RTCConfiguration

JavaScript

Adds the adaptivePtime flag to the RTCConfiguration dictionary, which indicates that



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SU

## Intl.DateTimeFormat

Add quarter option to the Intl.DateTimeFormat() method so the caller can format dat

This enhances Intl.DateTimeFormat() to match what is already possible in C++ and J

Add timezonechange event to  
Window and WorkerGlobalScope

Device

Adds a timezonechange event and onttimezonechange event handler to Window and

The current timezone is visible to JavaScript and changes over time. Changes may b

Adding captureTimestamp and  
senderCaptureTimeOffset to  
RTCRtpContributingSource.

Web RTC

Two new data properties, captureTimestamp and senderCaptureTime, will be added

CaptureTimestamp and senderCaptureTime are introduced to overcome the difficult

## Atomics.waitAsync

JavaScript

Adds Atomics.waitAsync, the async version of Atomics.wait. Atomics.waitAsync allo

Atomics.wait blocks the thread and cannot be used on the main web browser thread

## Back-forward cache

Performance

Creates a cache for pages which allows for instant navigations to previously-visited p

## Beforematch event

DOM

The beforematch event allows developers to display content to the user in response

With the evolution of the web, there are always new and interesting ways that develo

## CIE Lab color functions for CSS

CSS

CSS Working Group has added the lch() and lab() functions to the CSS Color Module

These new functions will enable design tools and design systems to handle colors w

CORS restrictions on internet-to-  
intranet connections.

Security

85 canary

84 dev

83 beta

81 stable

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CSP violation reports are a type of report currently delivered via Reporting API (to rep

**CSP: Hardened `nonce` content attribute.**

DOM

We've seen some recent attacks on CSP which rely on the ability to exfiltrate nonce d

**CSS ::marker pseudo-element**

CSS

The ::marker pseudo-element represents the automatically generated marker box of :

Being able to customize marker boxes, like changing their color or their contents. Wi

**CSS Box Alignment**

CSS

CSS properties for aligning boxes within their container. Allows for true vertical center

**CSS Layout API (Houdini)**

Houdini

The CSS Layout API defines a new callback which is designed to allow developers to

**CSS Modules**

JavaScript

CSS Modules are an extension of the ES Script Modules system that allows web dev

Solutions for including CSS in component definitions are lacking. Current practices a

**CSS Selectors 4 Pseudo-Class :where()**

CSS

The Specificity-adjustment pseudo-class, :where(), is a functional pseudo-class with

**CSS advanced attr() function**

CSS

Implement the augmentation to attr() specified in CSS Level 4, which allows types be

This is a highly requested feature, with 77 stars at crbug.com/246571. We also want

**CSS aspect-ratio property**

CSS

Normally, only certain replaced elements have an aspect ratio, particularly images. Fo

Generalizes the aspect ratio concept to general elements. This allows various effects

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Adds a CSS pseudo-class to help web developers customize the media player when it's playing a video.

**CanMakePaymentEvent.respondWithMinimalUI** M

Add a mechanism for a payment handler to enroll in a golden path, low friction payment flow.

Provide a golden path, low friction experience for users that are enrolled with payment methods.

**Canvas and CanvasText system colors**

css

Canvas and CanvasText are system color keywords. Canvas maps to the existing Windows colors.

Canvas and CanvasText have been added to the CSS Color Module Level 4 spec. Can

**Color Management in Canvas**

Graphics

A set of new interfaces provides color management for canvas. This allows both dev

**Consolidate standard and non-standard constraints under standard syntax**

Realtime / Communication

Chromium currently supports two different syntaxes for specifying video and audio c

**Declarative Shadow DOM**

DOM

A declarative API to allow the creation of #shadowroot's using only HTML and no Ja

This API allows Web Components that use Shadow DOM to also make use of Server-

**Deprecate download in ad frames without user gesture**

Security

We plan to prevent downloads initiated from ad frames that lack a user gesture ('driv

Downloads don't make sense with ads. It happens very rarely in practice and is also c

**Deprecation of GCM-**

Realtime / Communication

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## Disable Local Playback During Audio Sharing

JavaScript

We add a constraint key "googDisableLocalEcho" in the audio part of getUserMedia API.

## Disallow Media Source abort() of range removals and truncating buffered media by reducing duration

Multimedia

Media Source spec has changed recently to disallow previously ambiguously defined

## Document Policy

Security

Document Policy is a mechanism to allow documents to configure the web platform

Currently, it is not possible to restrict the surface area of the web platform on a per-document basis.

## EME persistent-usage-record session

Multimedia

Support a new MediaKeySessionType "persistent-usage-record session", for which the key

This feature can help content providers to understand how the decryption keys are used.

## Element Reflection

DOM

This feature allows for ARIA relationship attributes to be reflected in IDL as element interfaces.

This would allow specifying semantic relationships between elements without the need for explicit ARIA attributes.

## Expose PaymentManager on workers

Misc

Though Web IDL specification removed [PrimaryGlobal] and made [Exposed] required for workers.

## Feature Policy: control synchronous script execution

JavaScript

Allows developers to selectively enable and disable use of synchronous script execution.

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Extend the Gamepad API to support multitouch surfaces (touchpads). Providing a to

## Gamepad Button and Axis Events

Device

Adds events for gamepadbuttondown, gamepadbuttonup, gamepadbuttonchange, ai

## Gamepad light indicator API

Device

Extends the Gamepad API to allow setting the color and intensity of light indicators c

The Gamepad API should support features commonly found on gamepads. LEDs are

## HTML Modules

JavaScript

HTML Modules allow web developers to package and access declarative content fro

The introduction of ES6 Script Modules has provided several benefits for javascript d

## Heavy Ad Intervention

Misc

Chrome will unload ad iframes that use an egregious amount of CPU or network ban

A small fraction of ads on the web use an egregious amount of system resources. Tl

## IME API

User input

Provides web applications with scripted access to an IME (input-method editor) assoc

## ImageDecoder API extension for WebCodecs

Multimedia

The ImageDecoder API intends to provide web authors random access to decoded ir

Today &lt;img&gt; elements don't provide access to any frames beyond the first. They also

## IndexedDB Observers

Offline / Storage

IndexedDB observers allow a developer to listen to changes to their database, includ

## Inline WebVTT Styling

Multimedia

Adds the ability to embed CSS style sheets within the STYLE block of a WebVTT file.

To ensure a consistent experience across platforms, Chrome should conform to the

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## for root element

The root stacking context of a page will be drawn into an isolated group; then filtering

Previously, there was no interoperability between browsers on how filtering, blend-m

## Intervention: ignore input events

User input

targeting recently-moved iframes.

To prevent unintended clicks/taps, quietly discard input events that target cross-orig

The motivation is perhaps best conveyed by this hilarious video: <https://www.youtube.com/watch?v=KJLjyfzXWUw>

## Intl.Segmenter

JavaScript

Intl.Segmenter implements methods for finding the location of boundaries in text, inc

Currently, chrome is shipped with Intl.v8BreakIterator - a non standard way for simila

## Intl.getCanonicalLocales()

JavaScript

Intl.getCanonicalLocales is a part of ECMAScript 2016 Internationalization API Spec

## Is-Input-Pending

JavaScript

This API enables developers to complete their work as fast as possible if the user isr

Improve user responsiveness and main thread scheduling - by enabling developers to

## JS Self-Profiling API

Performance

Adds a web-exposed sampling profiler for measuring client JavaScript execution tim

Currently, it is difficult for web developers to understand how their applications perfo

## JSON Modules

JavaScript

JSON modules allow statically importing JSON instead of consuming JSON dynamic

There is not currently a way for developers to statically import JSON content as part

## JavaScript logical assignment operators

JavaScript

Adds the logical assignment operators ||=, &&=, and ??= to JavaScript.

This rounds out the compound assignment operators to also include logical binary o

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Limit "external requests" to secure contexts.

Security

Requires that external requests may only be initiated from a secure context. "External" refers to servers running outside of a user's device. Servers running inside local networks, or on a user's device, expose powerful capabilities that could be misused.

Local Font Access

Houdini

Gives web applications the ability to enumerate local fonts and some metadata about them. Font enumeration is a missing capability that has prevented modern web apps from...

Make document.documentElementURI behavior match document.URL and DOM spec

DOM

1. Make document.documentElementURI non-nullable to match document.URL. 2. Use about:

MathML

Misc

Adds native DOM and OpenType-based layout of mathematical formulas. The referer...

The most popular solutions for inserting mathematical formulas in Web pages are us...

Media Capture Depth Stream Extensions

Multimedia

Support Media Capture Depth Stream Extensions, which enable use of depth stream...

MediaCapabilities: query HDR with decodingInfo()

Misc

This specification provides APIs for websites to detect whether HDR formats, i.e. Dolby...

This API allows capable clients to enjoy high-end media playback experiences. Other...

MediaCapabilities: query spatial audio with decodingInfo()

Misc

Adds APIs for detecting whether spatial audio formats, i.e., Dolby Atmos and DST:X,



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## Named pages with page-orientation css

Support the 'page' CSS property [1], along with named pages support (@page foobar

The Paged Media spec already defines a 'size' property [1], which naturally also can b

## Navigation to Bundled Exchanges Network / Connectivity

Bundled HTTP Exchanges represent a collection of HTTP exchanges. An HTTP excha

## Network Error Logging: request\_headers and response\_headers Performance

The new request\_headers and response\_headers fields in a NEL policy instruct the us

## Optional "total" field in PaymentRequest API Misc

The "total" field (together with the "details" field) of PaymentRequest API is optional s

When Digital Product Management (DPM) API is used with PaymentRequest API, dev

## Origin Policy Network / Connectivity

Origin Policy provides a mechanism for defining configuration options with origin-wic

Developers set a number of properties associated with resources on an origin by del

## Pan/Tilt support for Camera Web RTC

This feature allows developers to pan and tilt the camera using media constraints in

Many cameras have the ability to pan and tilt which is specially useful in the video co

## Percent-based scrolling User input

Adjusts mousewheel and keyboard-initiated scrolls to be interpreted as a percentage

In Chromium, one "tick" of the scroll wheel or arrow key press will translate to a fixed

## Picture-in-Picture for arbitrary Multimedia

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## Changes

Chromium is implementing double-keyed HTTP cache which essentially partitions cache by origin.

This change is positive because double-keyed HTTP cache forces all cross-origin requests to have unique keys.

## Promise.any and AggregateError

JavaScript

Promise.any accepts an iterable of promises and returns a promise that is fulfilled by the first one to resolve.

This rounds out standard JS support for commonly available Promise combinators and makes them easier to use.

## Promise.{all, race, allSettled} optimization

JavaScript

Promise.{all, race, allSettled} lookup the constructor of the receiver on every iteration.

To optimize away the Get and Call of the resolve method on the constructor, I'd have

## Protect Resource Timing's workerStart behind a Timing-Allow-Origin check

Performance

The change avoids the exposure of workerStart timestamps for cross origin iframes.

Reduce the information exposed across origins, and prevent the fingerprintability and

## PushSubscriptionChange

Realtime / Communication

Add the PushSubscriptionChangeEvent when a push subscription is changed outside of the browser.

This event makes it possible to keep track of Push subscription changes that are not

## QuicTransport

Network / Connectivity

QuicTransport is an API that allows Web applications to connect directly to remote servers.

Currently, Web application developers have two APIs for bidirectional communication:

## RTCDatagramInit.maxPacketLifeTime

css

The RTCDatagramInit.maxRetransmitTime dictionary member is being renamed to maxPacketLifeTime.

## RTCPeerConnection.canTrickleIceCandidates

Web RTC



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RTCPeerConnection.setRemoteDescription()  
with "rollback"

JavaSc

Adds rollback, which is a way to cancel an on-going negotiation. This is needed if two

This is part of "Perfect Negotiation", which makes signaling in WebRTC race-free and

## Raw Clipboard Access

User input

Raw Clipboard Access provides a low-level API to allow interoperability between web

Without Raw Clipboard Access: - Google Docs requires an extension in order to copy

Reduce User Agent string  
information

Network / Connectivity

We want to reduce the amount of information the User Agent string exposes in HTTP

The User-Agent string is an abundant source of passive fingerprinting information ab

Reject PaymentRequest.show with  
SecurityError DOMException if it is  
not triggered by user activation

Misc

Allowing PaymentRequest.show() to be triggered without a user activation could be a

Remove getThis() and  
getFunction() from the CallSite  
API

JavaScript

A callback installed on the non-standard Error.prepareStackTrace receives a list of Ca

The two accessors are not widely used and complicate the stack trace implementati

Remove title argument  
from  
registerProtocolHandler()

Network / Connectivity

The current implementation takes three arguments: protocol, url, title. The title is igno

\* Alignment with the latest HTML5 spec. \* Will be removed from the other implementat

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## SVG2

Graphics

Implement the new SVG2 features.

## Safelist distributed web schemes for registerProtocolHandler()

Misc

Extend the list of URL schemes that can be overridden via registerProtocolHandler()

Extending the list to include decentralized web protocols allows resolution of links to

## Schema.org data for media

Multimedia

Adds support for reading media related schema.org metadata on a page. This will su

Such data is already supported by search engines and many sites already have this c

## Schemeful same-site

Network / Connectivity

Modifies the definition of same-site for cookies such that requests on the same regis

The SameSite cookie attribute offers defense against CSRF attacks but currently doe

## Secure Contexts

Security

This specification provides guidelines for user agent implementors and spec authors

## Service Worker: Do not resurrect uninstalled workers.

Service Worker

Registering a service worker now creates a new instance regardless of whether there

## ServiceWorkerGlobalScope.onmessageerror

Service Worker

Notifies the receiver when a posted message could not be decoded. This is similar to

## Storage Access API

Offline / Storage

The Storage Access API allows access to first-party storage in a third-party context v

As privacy is becoming increasingly important to users, requests for stricter browser

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## [PutForwards]

StyleSheet |media| should have [PutForwards=mediaText] and CSSPageRule |style| s

## Third-party origin trials

Misc

Origin trials can now be enabled by embedded scripts, based on tokens matching the Allow third-party providers to experiment more effectively via origin trials. As in the c

## Top-level await

JavaScript

Allow the `await` keyword at the top-level within JavaScript modules.

Allows more seamless integration of async calls into the module loading process. To

## UI Automation Provider Mapping

Misc

This feature enables programmatic access to most user interface elements and expos

This API enables assistive technology products, such as screen readers, to provide ir

## URL Protocol Handler Registration for PWAs

Misc

Enable web applications to register themselves as handlers of custom URL protocols

Native applications often register themselves as protocol handlers to increase disco

## Web Bluetooth

Device

## BluetoothDevice.watchAdvertisements()

The BluetoothDevice.watchAdvertisements() method will enable web apps to receive

This API will allow web apps to detect whether a device is unresponsive because it h

## Web Bluetooth Write With/Without Response

Device

Implement two APIs for writing to GATT characteristics that will allow the app to igno

Several issues have been found with the existing writeValue(value) method. 1. It doe

## WebAssembly Exception

JavaScript

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sorts tracks by id

Sorts by ID in ascending order the tracks in a MediaStream object given to MediaStre

This insures order consistency even as tracks are added or removed.

WebAudio:

MediaStreamTrackAudioSourceNode

Multimedia



MediaStreamTrackAudioSourceNode is similar to MediaStreamAudioSourceNode bu

Makes using MediaStreams easier for the developer by making the track selection e

WebCodecs

Multimedia



WebGPU

Graphics



WebHID (Human Interface Device)

Device



Enables web applications to interact with human interface devices (HIDs) other than

WebRTC DataChannels: Fix

Misc



"maxPacketLifeTime" vs

"maxRetransmitTime"

This is fixing a naming error in WebRTC RTCDataChannel: The read-only attribute "ma

WebRTC RTP header extension  
control

Web RTC



Extend the WebRTC RTCTRTPTransceiver API to offer control over which RTP header e

With the number of RTP header extensions being proposed, experimented with or inc

WebRTC Scalable Video Coding  
extensions

Web RTC



85 canary

84 dev

83 beta

81 stable

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## charLength in SpeechSynthesisEvent

IMSC ↗ ↙ ↖ ↘

Adds the `charLength` attribute to the `SpeechSynthesisEvent` in the Web Speech API, v

Currently, developers resort to third-party libraries or error-prone, self-rolled code for

## crossOriginIsolated

Security

Adds a boolean property, `self.crossOriginIsolated`. This property is set to true when t

To make it easier for developers to figure out if they can use powerful features such :

## fetch() upload streaming

Network / Connectivity

Fetch upload streaming lets web developers make a fetch with a `ReadableStream` bc

Traditionally uploading byte arrays were implemented on `WebSocket` but it has made

## messageerror event and event handlers

DOM

Notifies the receiver when a posted message could not be decoded. Currently its onl

## navigator.scheduling.isFramePending

Performance



Returns a boolean indicating whether the browser intends to update the visual displa

Provides developers with better information for making decisions in code about whe

## ontransition{run, start, cancel}

JavaScript

event handler attributes

The `ontransitionrun`, `ontransitionstart`, and `ontransitioncancel` event handler attribute

These features are part of the stable `css-transitions-1` spec, and have shipped in othe

## text-decoration-thickness, text- underline-offset and from-font keyword for text-underline-position

CSS



Implement CSS text decoration properties `text-decoration-thickness` and `text-underli`

With the introduction of the `text-decoration-skip-ink` interest for additional underline s

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## @import rules in CSSStyleSheet.replace()

CSS



The original spec for constructable stylesheets allowed for calls to sheet.replace("@  
There is an asymmetry between replaceSync(), which disallows @import rules, and r

## Blocking insecure downloads from secure (HTTPS) contexts

Security



Chrome intends to block insecurely-delivered downloads initiated from secure contexts.  
Downloads over insecure contexts present a risk to users. Once downloaded, a malici

## Cookie Store API

JavaScript



The Cookie Store API exposes HTTP cookies to service workers and offers an async

## HTMLVideoElement.requestVideoFrameCallback()

HTMLVideoElement.requestVideoFrameCallback() registers a one-shot callback, call  
This features allows web applications that use WebGL or <canvas> with <video> to c

## Idle Detection

User input



The Idle Detection API notifies developers when a user is idle, indicating such things

## JavaScript weak references

JavaScript



Weak references enable JavaScript developers to create weak references to JavaScr

## Layout Instability Shifted Element Surfacing

Performance



Extends the layout instability API with information about specific DOM element(s) tha

## Media Feeds

Multimedia



We propose a new API to allow a user agent to discover a media feed provided by a v

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SU

<https://v8.dev/features/class-fields> <https://github.com/tc39/proposal-private-methods>

## Referrer Policy: Default to strict-origin-when-cross-origin

Network / Connectivity

Web developers may specify a referrer policy on their documents, which impacts the By default in Chrome, the HTTP `referer` header provides the full URL of the initiating

## ReportingObserver on workers

JavaScript

Expose ReportingObserver (<https://www.chromestatus.com/feature/469119155988>)

## Screen Wake Lock API

Device

An API that allows web applications to request a screen wake lock. Under the right co

## TLS 1.0 and TLS 1.1

Security

This removal has been delayed in Stable until Chrome 84. TLS 1.0 and 1.1 were depr TLS 1.2 was published ten years ago to address weaknesses in TLS 1.0 and 1.1 and

## Unprefixed 'appearance' CSS property

css

This feature introduces 'appearance' CSS property, which is the unprefixed version of Developers should avoid vendor-prefixed CSS properties, but Chrome have never pro

## Unprefixed ruby-position CSS property

css

The 'ruby-position' CSS property controls the position of ruby annotation. It's the unpi Firefox supports no '-webkit-ruby-position', but 'ruby-position'. Shipping 'ruby-position'

## Web Animations API

JavaScript

Update the web animations JavaScript API to align with the specifications in <https://w3c.github.io/web-animations/>

## Web Authenticator API: cross-origin

Security

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SU

## Intl.DateTimeFormat

Enhances the Intl.DateTimeFormat API by adding a "fractionalSecondDigits" option

The Date object in ECMAScript stores time information with millisecond precision. So

## revert keyword

CSS

The 'revert' keyword allows authors to roll back the cascade to the previous cascade

## 'auto' keyword for '-webkit-appearance' CSS property

CSS

'-webkit-appearance' CSS property will have new 'auto' keyword, which indicates the c

It's hard to remember correct keywords for each of element types. For example, what

## @supports selector() feature query function

CSS

Adds a function that queries whether a user agent supports a selector.

Web authors can use this feature to query whether the UA supports the selector befc

## ARIA Annotations from ARIA 1.3 draft

Misc

Support the new markup in the ARIA annotations editor's draft (3 new roles, 1 new pr

To support screen reader accessibility of comments, suggestions and other annotati

## Barcode Detection API

Multimedia

The Barcode Detection API is a subset of the Shape Detection API which provides the

## CSS contain-intrinsic-size

CSS

The contain-intrinsic-size property allows developers to specify a placeholder size wl

The motivation for the property is to provide a placeholder sizing for subtree content

## Cross-Origin-Embedder-Policy

Security

Add a new HTTP header that prevents documents and workers from loading non-sar

# Chrome Platform Status

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This allows content providers to restrict malicious or abusive downloads.

## ES Modules for shared workers ('module' type option)

JavaScript

JavaScript will support modules in shared workers. Setting 'module' type by the cons

With this feature, web developers can more easily write programs in a composable w

## Force Load At Top

Misc

ForceLoadAtTop will provide an opt-out for Scroll To Text for privacy sensitive sites, a

## IndexedDB relaxed durability transactions

Offline / Storage

Expose an optional relaxedDurability parameter on IDBDatabase.transaction to cont

Allow developers to explicitly trade off durability for performance. Currently after wri

## Main thread Scheduling APIs: Prioritized scheduler.postTask

JavaScript

Userspace tasks often have varying degrees of importance (related to user experien

It is too difficult to build web apps that are responsive to user interaction, and that re

## RTCRtpEncodingParameters.maxFramerate

WebRTC

This encoding parameter allows developers to limit the framerate on a video layer be

n/a

## RTCRtpSendParameters.degradationPreference

R

When encoding video, and some constraint (bandwidth, CPU) prevents encoding at t

Developers need to be able to control how the quality degrades as different types of

## Replaceable animations

JavaScript

When a fill forward animation finishes, it remains in effect. If enough of these animat

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SU

The CSS Paged Media Module Level 3 spec includes a list of page size names that m

The detailed description of bug 1047642 links to some related discussions and docu

## Trusted Types for DOM Manipulation

Security

'Trusted Types' offers an (optional) mechanism for web sites to protect themselves a

## WebRTC Insertable Streams

Web RTC

This API enables the insertion of user-defined processing steps in the encoding and

Allow applications to insert custom data processing. A specific use case we want to

## WebXR DOM Overlay

Device

Allows WebXR applications using immersive-ar on handheld devices to optionally ac

Developers want to use DOM to create UI for their XR experiences. For VR, inline sess

## display:inline-grid/grid/inline-flex/flex for <button>

css

The 'display' keywords 'inline-grid', 'grid', 'inline-flex', and 'flex' property will now functi

## input.rawValue

DOM

This feature is a read-only property for <input> elements presently called "rawValue"

Currently, there is no way to retrieve the actual text a user has entered into certain typ

## performance.measureMemory

Performance

The feature adds a performance.measureMemory() function that estimates the mem

Web developers need an API for measuring memory usage of their applications in pr

## 'submitter' property of 'submit' event

DOM

The 'submit' event, which is dispatched on form submission, gets its own interface, S

Some web applications do their own form submission by preventDefault()ing 'submit'

ain-\*-collapse

css

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SU

buffered may not run tasks

This feature tracks <https://www.chromestatus.com/feature/5118272741572608> for

We initially shipped the PerformanceObserverInit buffered flag without longtasks because

**CSS Color Adjust: color-scheme meta tag** css

Many operating systems now have a "dark mode" preference. Some browsers already

**CSS Color Adjust: color-scheme property** css

Let the author opt-in to follow the preferred color scheme when rendering UI elements

When rendering web sites in a different color-scheme, e.g. a dark color scheme, the browser

**Default accessibility semantics for custom elements** DOM

Lets custom element authors use ElementInternals to set a custom element's default

There is currently no way for a custom element author to set default custom element

**Exclude implicit tracks from grid-template-rows/columns resolved values** css

Implicit tracks will be excluded from the resolved values of the grid-template-rows ar

This change aims to make the resolved values round-trip, which is one of the most fu

**IntersectionObserver Document Root** JavaScript

Allow the IntersectionObserver constructor to take a Document as the 'root' argument

This is primarily targeted towards observers running in an iframe; prior to this feature

**Intl.DisplayNames** JavaScript

Provides a new API to get localized names of language, region, script, currency code

To enable developers to get translation of language, region or script display names o

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## the renderer's main thread

Previously, the rendering tasks (i.e. BeginMainFrame) were always run at default prio

### PointerLock

User input

### unadjustedMovement

Adds the ability to request unadjusted and unaccelerated mouse movement data wh

The accelerated movement is that pointer speed increasing quadratically based on tl

### Position State for Media Session

Multimedia

Adds support for tracking position state in a media session. The position state is a c

We should add support for tracking position state since this is supported by the platf

### RTCPeerConnection.onicecandidateerror

Web
RTC

### event changes

Replaces hostCandidate with explicit address and port for oncecandidateerror event

### Remove supportedType field from

Misc

### BasicCardRequest

Specifying "supportedTypes":[type] parameter for "basic-card" payment method show

The card type parameter has been removed from the spec, because of the difficulty c

### Remove the <discard> element

Multimedia

The <discard> element is part of the SVG Animations (draft) specification. It provides

The <discard> element is only implemented in Blink, and is thus not possible to use i

### Streams API: WritableStream

JavaScript

### close()

Add a close() method to WritableStream objects. This permits closing the stream if i

### Support for CSS image-orientation property

CSS

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SU

Version

Web NFC aims to provide sites the ability to read and write to NFC tags when they ar

WebAudio:

Multimedia

ConvolverNode.channelCount  
and channelCountMode

For a ConvolverNode, the channelCount can now be set to 1 or 2. The channelCount

Extends ConvolverNode capabilities slightly to allow developers to choose the desire

WebAudio: Refine

Multimedia

BiquadFilterNode AudioParam  
limits

The WebAudio spec has updated the limits for the frequency, detune, and gain Audio

This makes the limits a more explicit because the larger values would generally eithe

WorkerOptions for shared  
workers constructor

JavaScript

Adds the WorkerOptions object as the second argument for a shared worker constru

WorkerOptions is necessary for implementing the new feature (ES module).

hrefTranslate attribute

Misc

This attribute defines the ability to for a page author to hint to the user agent's transl

onclosing event on  
RTCDDataChannel

Web RTC

Adds the onclosing event, which signals to the user of a data channel that the other s

"numberingSystem" option for  
Intl.NumberFormat / "calendar"  
and "numberingSystem" option  
for Intl.DateTimeFormat

JavaScript



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SU

AppCache Resource Overlays

## scope checking

Manifests previously allowed overriding any URL within a given origin. Scope check is part of the spec, so Chromium's AppCache implementation supports non-spec-compliant resource overr

## Autoupgrade Audio/Video Mixed Content

Security

This feature will autoupgrade optionally-blockable mixed content (HTTP content in H

## CacheStorage Code Cache Hint

Service Worker

This experiment will allow participating sites to provide hints to cache\_storage that f

There are clear trade-offs to generating full code cache. Partners have told us it clea

## Compression Streams

JavaScript

Provides a means of performing gzip and deflate compression from JavaScript using

It is possible to compress stream data without this feature, but common libraries like

## Contacts API

JavaScript

Provides a way for websites to request information about the user's contact(s) and p

## Contacts API Addresses/Icons

Misc

Extends the Contacts API (<https://www.chromestatus.com/feature/6511327140904>)

After positive feedback on the first version, the spec was extended to incorporate oth

## Content Indexing API

Service Worker

Allows websites to register offline enabled content in the browser. This allows the br

Unreliable or even unavailable network connections are very common on mobile devi

## Custom Elements V0

Web Components

Custom Elements v0 is deprecated at M70, and will be removed in M80, by February,

Shadow DOM V0, Custom Elements V0, and HTML Imports were launched in 2014, b

# Chrome Platform Status

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SU

## Deprecate FTP support

Network / Connectivity



Deprecate and remove support for FTP URLs.

The current FTP implementation in Google Chrome has no support for encrypted cor

## Disallow sync XHR in page dismissal

JavaScript



Chrome now disallows synchronous XHR during page dismissal when the page is be

Synchronous XHR is on the deprecation path. It hurts the end user experience. befor

## Don't allow popups during page unload

JavaScript



Pages may no longer use the window.open() API to open a new page during its unloa

## ES Modules for dedicated workers ('module' type option)

JavaScript



JavaScript will support modules in dedicated workers. Using a new value for the con

## Fetch Metadata Destination header

Security



The `Sec-Fetch-Dest` HTTP request header exposes information about a request's `d

## Get Installed Related Apps API

JavaScript



The Get Installed Related Apps API (navigator.getInstalledRelatedApps) provides site

## HTML Imports

Web Components



HTML Imports are deprecated at M70, and will be removed in M80, by February, 2020

Shadow DOM V0, Custom Elements V0, and HTML Imports were launched in 2014, b

## HTMLVideoElement.getVideoPlaybackQuality()

Mu

This simple API tells sites how a video playback is performing. When performance is

# Chrome Platform Status

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SU

Adds encrypted media support from the Decoding Information API. Chrome 66 introc

## New System Color Keywords

CSS

Give users the ability to customize their sites with the relevant system colors when ir  
ActiveText, Field, and FieldText have been added to the CSS Color Module Level 4 spe

## Non-origin-clean ImageBitmap serialization and transferring

Graphics

This change raises errors when a script tries to serialize or transfer a non-origin-clean

We are developing Cross-Origin-Opener-Policy (COOP) and Cross-Origin-Embedder-P

## Notification Triggers

Realtime / Communication

Adds the showTrigger property to the Notification interface to enable showing a notif

## Nullish coalescing

JavaScript

Adds support for the 'nullish' operator to JS.

## Periodic Background Sync

Service Worker

Periodic Background Sync is an extension of Background Sync that allows websites

The API will allow offline-first web apps to periodically update state, and will allow pe

## Scroll To Text Fragment

DOM

This feature allows a user or author to link to a specific portion of a page, using a tex

Navigating to a URL today will load the page scrolled to the top. On pages that provid

## Serial API

Device

Adds an API for communicating with hardware devices over a physical or virtual seri

## ServiceWorkerContainer.onmessageerror

Service Worker

Notifies the receiver when a posted message could not be decoded. This is similar to

No active development

Proposed

In development

Deprecated

85 canary

84 dev

83 beta

81 stable

80

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SU

Currently, there's a per-profile cache of HTTP auth credentials. Per-origin HTTP auth

## Support for SVG in favicons

Misc

Allows using images in SVG format as favicons with &lt;link rel="icon"&gt;.

Using a scalable format for favicons allows having fewer such resources in total. For

## WebAssembly Multi-Value

JavaScript

Add support for WebAssembly functions and blocks that return more than one value

## WebVR v1.1

Device

Added support for virtual reality head mounted displays, such as the Oculus Rift and

WebVR was never enabled by default in Chrome, and was never ratified as a web standar

## WebXR Hit-test

Device

The Hit-test API is an extension to the WebXR Device API that provides the capability

## Window Placement

Device

Allows web developers greater control over the placement of content windows when

As multi-display computing becomes a more common and critical part of user exper

## [Payments] shipping address and contact info delegation

Misc

Changes the Payment Handler API, to let the browser delegate handling of shipping ad

Delegating shipping address and contact info data collection to payment handlers ca

## line-break: anywhere

CSS

The 'line-break: anywhere' declaration allows soft wrapping around every typographic

Chrome's implementation of the 'word-break: break-all' feature tries to match Edge, a

## overflow-wrap: anywhere

CSS

The new value 'anywhere' allows an otherwise unbreakable sequence of characters t

This feature address a long standing web compatibility issue related to the 'word-bre

85 canary

84 dev

83 beta

81 stable

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SU

## -webkit-appearance keywords for arbitrary elements

css



Changes -webkit-appearance keywords to work only with specific element types. If a Some of keywords already have such behavior. We should expand it to all keywords f

## Application Cache

Offline / Storage



## Autofocus support for any focusable HTML/SVG element

DOM



Adds the 'autofocus' attribute to any focusable HTML or SVG element.

'Autofocus' was previously supported for a limited number of HTML elements, and th

## CSS min(), max() and clamp()

css



Adds the comparison functions min(), max(), and clamp() to math expressions for nu

The feature has been requested for over a year with many stars, and has been shipp

## Compute img/video aspect ratio from width and height HTML attributes

css



Computes the aspect ratio of an image using the HTML width and height attributes s

To correctly compute the final dimensions of an image (before it is fully loaded), this

## Custom state pseudo class

Web Components



The feature lets custom elements expose their states via the :state() CSS pseudo cla

Built-in elements have certain "states" that can change over time depending on user

## Maskable App Icons (PWA - Android)

Misc



Allow Maskable ("Adaptive") icons for installed WebAPKs on Android.

## More restrictive show() for autofill instruments

Misc



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SU

OOR-CORS solves several architectural and security issues: 1. Provides a reliable CU

**Reject Worklet.addModule() with a more specific error** JavaScript

When Worklet.addModule() fails, a promise rejects with a more specific error object

**Remove [NoInterfaceObject] from Geolocation API interfaces** Device

The [NoInterfaceObject] annotation is being removed from WebIDL. The Geolocation

**Rendersubtree attribute** DOM

Adds the rendersubtree attribute to all HTML elements, which locks a DOM element

**ServiceWorkerGlobalScope#serviceWorker** Service Worker

to get a service worker object corresponding to a worker itself

This allows a service worker to get its ServiceWorker object with self.serviceWorker

A service worker instance currently has no way to get its current lifecycle state. There

**Stop evaluating script elements moved between Documents during fetching** JavaScript

Do not evaluate scripts or fire error/load events, if &lt;script&gt; elements are moved betw

This is to prevent possible security bug, because there have been several bad XSS-re

**Web Bluetooth Scanning** Device

Enables Bluetooth Scanning

Bluetooth Low Energy (BLE) devices are all around you. They broadcast advertising p

**WebAssembly BigInt Integration** JavaScript

to import and export WebAssembly function parameters of type

under CC Attribution 2.5 license. Code examples are Apache-2.0.

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SU

## WebXR Gamepads Module - Level 1

Device

The WebXR Gamepad Module defines how the Gamepad API integrates with WebXR

This API enables developers to address VR controllers by understanding and responding to the gamepad's state.

## aria-help

DOM

Remove the aria-help attribute.

aria-help was never part of the ARIA standard, but was inherited from Webkit. The purpose of this attribute was to provide a way to associate a help text with an element.

## font-optical-sizing

CSS

The font-optical-sizing property automatically sets the font-size to the opsz - optical size of the text.

## list-style-type: <string>

CSS

Allows a stylesheets to use an arbitrary character for the list style marker. Examples include the use of the ampersand character (&) as a list item marker.

Without this, developers are often forced to hide the real marker and insert the arbitrary character directly into the list item.

## CHROME 78

### Apply opacity for the default style of INPUT/TEXTAREA placeholder

DOM

Changes the default style for ::placeholder from #757575 to rgba(0, 0, 0, 0.54).

### CSS Properties and Values API Level 1 (Houdini)

Houdini

The CSS Properties and Values API spec defines a registerProperty() function which registers a new CSS property.

### Extend byte-for-byte update check to all service worker importScripts() resources

Service Worker

This implements byte-for-byte update check for service worker scripts imported by importScripts().

Currently, service workers update only when the service worker main script has changed.

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SU

Adds an API to let a website show a file picker and gain read/write access to files. This is similar to the `FileReader` API.

## PaymentResponse.prototype.retry()

Misc

In cases where there is something wrong with the payment response's data (e.g., you get a 400 error), this allows the user to retry the payment.

## Percentage opacity

CSS

Adds support for percentage values to the opacity properties, specifically, opacity, stroke-opacity, and fill-opacity.

This brings consistency and spec compliance. The `rgba()` function already accepts percentage values.

## Redact address in

Misc

## PaymentRequest.onshippingaddresschange event

Removes fine-grained information from the shipping address before exposing it to the PaymentRequest object.

The `PaymentRequest.onshippingaddresschange` event is used to communicate the shipping address changes.

## Rendering Independent Scroll Offsets

DOM

Stops certain methods from snapping values to physical pixels, specifically `scrollTop`, `scrollLeft`, and `scrollWidth`.

This behavior is surprising to developers as it's not clear why or how their scroll values are being rounded.

## Screen Enumeration

Device

Exposes a list of the screens connected to the user's computer and some additional information about each screen.

As multi-display computing becomes a more common and critical part of user experience, this will be useful for developers.

## Seeking for Media Session

Multimedia

Adds a media session action handler for "seekto". An action handler is an event tied to a specific action.

We should add support for "seekto" since this action is supported by the platform and other media players.

## Subresource prefetching+loading via Signed HTTP Exchange

Network / Connectivity

Implements subresource prefetching and loading by extending the HTTP header.

The header is based on the CC Attribution 2.5 license. Code examples are Apache-2.0.

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No active development

Proposed

In development

Deprecated

85 canary

84 dev

83 beta

81 stable

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THIS API IS USEFUL FOR DEVELOPERS TO KNOW WHETHER THEY SHOULD SHOW UI FOR WEB BROWSER

## WebAssembly Reference Types

JavaScript

Allow WebAssembly modules to hold references to JS/DOM objects, passing them a

## WebAssembly Type Reflection JS API

JavaScript

Expands the JavaScript API surface of WebAssembly to allow reflection on the data

## WebSocketStream

Network / Connectivity

The WebSocket API provides a JavaScript interface to the RFC6455 WebSocket protocol.

Currently applying backpressure to received messages is not possible with the WebS

## WebXR AR Module

Device

WebXR AR Module brings Augmented Reality support to WebXR Device API.

This module is a product of the Immersive Web Working Group, and is a prerequisite

## XSS Auditor

Security

Remove the XSS Auditor from Chrome.

The XSS Auditor can introduce cross-site information leaks and mechanisms to bypass

## CHROME 77

### 'formdata' event

Web Components

The 'formdata' event enables any objects to provide form data. It helps avoid creating

### Add frozen or active lifecycleState to ServiceWorker Client

Service Worker

Exposes the client's PageLifecycle state on the ServiceWorker Client API.

Service workers do not know the state of a client. If a client is frozen it will not imme

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## Lite Mode users

Enables deferring the load of below-the-fold iframes and images pages until the user Web pages often have images or embedded content like ads out of view near the bot

## Card issuer networks as payment method names

Misc

Support for calling PaymentRequest with card issuer networks (e.g., "visa", "amex", "r

## Deprecate insecure Web MIDI use

Security

Phase 1: Stop exposing Web MIDI API to insecure origins from Chrome 77. Phase 2:

## Do not apply hover when mouse does not move

css

To update the hover state when a page scrolls or changes layout, Blink currently disp

## ElementTiming for img

Performance

The ElementTiming API will allow developers to know when certain important image

## ElementTiming for text

Performance

The ElementTiming API will allow developers to know when certain important text el

Developers should be informed of the time at which key elements of their website ar

## Enter Key Hint

User input

The enterkeyhint content attribute is an enumerated attribute that specifies what act

To be able to build rich applications that customize the enter key.

## Error serialization

JavaScript

Enables serialization of errors, specifically, DOMException, Error, EvalError, RangeErr

The primary motivation is Transferable Streams. For example, when we see a read er

## Feature Policy control over

Security



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SU

Form-associated custom elements enable web authors to define and create custom

## Intl.NumberFormat Unified API Proposal

JavaScript

This feature improves Intl.NumberFormat by adding support for measurement units,

## Largest contentful paint

Performance

Largest Contentful Paint (LCP) is a new page load metric available as a performance

Developers today don't have a reliable metric that correlated with their user's visual re

## Layout Instability Monitoring

Performance

Adds the LayoutShift interface to the Performance API, allowing developers to monit

## Limit `Referer` header's length to 4k

Security

Strips the Referer header down to an origin when its size exceeds 4k.

As noted in <https://github.com/xsleaks/xsleaks/wiki/Browser-Side-Channels#cache->

## Limit registerProtocolHandler() url argument to http/https

Security

Limits registerProtocolHandler() to only accept URLs with http or https schemas. Be

## New TextMetrics object in canvas

Graphics

The implementation of an extended API of text metrics started in 2014: <https://group>

## Overscroll Behavior logical longhands

css

Adds CSS flow-relative properties for controlling overscroll behavior through logical

## Partition the HTTP Cache

Security

Splits the HTTP cache using the top frame origin (and possibly subframe origin) to p

Cache attacks can lead to the following leaks: - Detect if a user has visited a specific

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Precise src: local() matching in CSS @font-faces by PostScript and Full Font Name

css



Precisely match locally installed fonts by PostScript name or full font name, when us Preferring local fonts when a suitable local copy is available avoids network round tri

Preserve request priorities through service worker

Service Worker



Preserves a request's original priority when it passes through a service worker. Previous

RTCPeerConnection.onicecandidateerror

Web

RTC



Adds the incecandidateerror event which provides detailed information about WebRT Diagnosing ICE connectivity issues without having access to detailed gathering failur

RTCPeerConnection.restartIce()

JavaScript



Adds a method for triggering an ICE restart which causes a WebRTC connection to tr This is part of "Perfect Negotiation", which makes signaling in WebRTC race-free and

Service workers support basic HTTP authentication

Service Worker



Displays HTTP authentication dialog boxes even if the request was from a service wo

Stop action for Media Session

Multimedia



Adds support for the "stop" action to the MediaSession interface. An action is an eve We should add support for "stop" since this action is supported by the platform and a

Support SRI verification on link preloads (script and style)

Performance



Add sub resource integrity verification to link preloads so that resources with an inte

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SU

PaymentRequest constructor throws a TypeError when invalid "supportedNetworks" is provided

## WebXR plane detection API

Device

The feature allows WebXR applications to retrieve data about planes present in the user's environment.

Without this feature, developers would have to resort to running their own computer vision software to detect planes.

## tab-size supports <number> CSS value type

CSS

Adds support for &lt;number&gt; CSS value type to the CSS property tab-size, which determines the width of a single tab character.

## CHROME 76

### Add RTP timestamp to RTCRtpReceiver.RTCRtpContributingSource

WebRTC

Add RTP timestamp to RTCRtpReceiver.RTCRtpContributingSource. This is additional information needed by the receiver.

This is needed to make it possible to link the information in RTRtpContributingSource with the RTP timestamp.

### Animation.updatePlaybackRate

JavaScript

Animation.updatePlaybackRate() lets you seamlessly transition the playback rate of an animation.

Animation.updatePlaybackRate() provides a means of ensuring that a change in playback rate is smooth and consistent.

### Async Clipboard: Read and Write Images

User input

Implements programmatic copying and pasting of images for the Async Clipboard API.

### CSS backdrop-filter property

CSS

The backdrop-filter CSS property applies one or more filters to the "backdrop" of an element.

Ever since Webkit shipped a prefixed version of this feature in 2015, developers have been able to use it.

### Consume User Activation After Entering FullScreen Mode

User input

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## DateIntl.prototype.dateStyle and timeStyle

Adds dateStyle and timeStyle options to functions on Intl.DateTimeFormat, specifica

Network / Connectivity

## Display alerts for SameSite cookie changes in the developer console

Show alerts in the developer console for “Cookies with SameSite by default” and “Re  
“Cookies with SameSite by default” and “Reject insecure SameSite=None cookies” w

User input

## Escape key is not a user activation

The Escape key is no longer treated as a user activation.

Browsers prevents calls to abusable APIs (like popup, fullscreen, vibrate etc) unless i

Security

## Feature Policy: focus-without-user-activation

A feature policy to restrict the use of programmatic focus, when not triggered by a us

Programmatic focus is a potential security problem for users; it can be potentially ab

Performance

## Feature Policy: lazyload

The lazyload feature policy allows developers to selectively control the lazyload attrit

The policy will be removed in favor of a newer feature policy for loading, namely load

Security

## Fetch Metadata

Introduces a new set of HTTP request headers, including `Sec-Fetch-Site`, `Sec-Fetch

Multimedia

## ImageCapture support for focusDistance constraint

The Image Capture API provides a means to set the focusMode to manual which is n

JavaScript

## Animation pending

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## IndexedDB transaction explicit commit API call

Offline / Storage

Adds a commit() function to IDBTransaction objects, which explicitly marks a transac

## Intl.DateTimeFormat.prototype.formatRange

JavaScript

Adds formatRange() and formatRangeToParts() methods to Intl.DateTimeFormat to

## Lazily load iframes and images via 'loading' attribute

Performance

Support the 'loading' attribute, which can be used to defer the load of below-the-fold

## Locale sensitive

JavaScript

BigInt.prototype.toLocaleString and allow Intl.NumberFormat format/formatToParts to take BigInt.

Changes BigInt.prototype.toLocaleString() to locale-sensitive number formatting and

## Media Capabilities in Workers

Multimedia

Enables the Media Capabilities API in all types of workers to help websites pick the b

## Media Queries: prefers-color-scheme feature

css

Adds the 'prefers-color-scheme' feature, which lets authors adapt web content to use

## Pause Worklets and Dedicated Workers Execution on document freeze

Performance

85 canary

84 dev

83 beta

81 stable

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Enables payment handlers to get the updated total from the merchant in response to a payment method selection.

For example, if the user selects a debit card with a billing address in France, the merchant's payment handler will receive the updated total in French.

## Portable Native Client (PNaCl)

Multimedia

Run C/C++ code compiled to bitcode on any web page. The code runs inside the Native Client environment.

## Promise.allSettled

JavaScript

Adds `Promise.allSettled()`, which returns a promise that is fulfilled with an array of promises.

<https://github.com/tc39/proposal-promise-allSettled#overview-and-motivation>

## Push API : Allow passing a base64url-encoded value to `applicationServerKey`

Misc

The `applicationServerKey` option is used by the user agent when establishing a push connection.

## RTCRtpSender.setStreams

Web RTC

Allows changing the association between the track associated with an `RTCRtpSender` and its `RTCRtpTransceiver`.

## RTCRtpTransceiver.setCodecPreferences()

Web RTC

Adds the `setCodecPreferences()` method, which overrides the default codec preferences.

## Reject insecure SameSite=None cookies

Network / Connectivity

Deprecate and remove the use of cookies with the `SameSite=None` attribute but without a secure context.

Cookies delivered over plaintext channels may be cataloged or modified by network interceptors.

## Remove Insecure Usage of DeviceMotionEvent

Device

Chromium has been showing deprecation warnings since 2015 whenever the API is used.

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## The ImageBitmap rendering context for <offscreenCanvas>

Graphics



We are adding ImageBitmapRenderingContext as a valid context for OffscreenCanvas

We want to be able to move away from CPU to GPU the operations involving ImageB

## Web Authentication API: Resident Keys

Security



Security keys are generally stateless save for a global signature counter. While it's tec

## Web Share Target Level 2

Device



Installed web applications can now receive file shares, e.g. images. Using the manife

## WebAudio:

Multimedia



## MediaStreamAudioDestinationNode has no outputs

According to the specification, the MediaStreamAudioDestinationNode in WebAudio

## WebRTC RTCSctpTransport

Web RTC



Exposees information about the SCTP transport that is used to carry WebRTC DataCh

Allows applications to see properties of the SCTP transport such as max-message-s

## form.requestSubmit()

DOM



Adds the form.requestSubmit() function, which requests form submission. It include

<https://github.com/whatwg/html/issues/4187> requestSubmit() exposes what click()

## white-space: break-spaces

CSS



Adds the break-spaces value for the white-space property which specifies that any se

With 'white-space: pre-wrap' it's possible to wrap and preserve white-space sequence

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**AnimationEffect and KeyframeEffect (excluding getKeyframes/setKeyframes & composite/iterationComposite)**

AnimationEffect and KeyframeEffect are part of the Web Animations API. They allow

**AppCache: Cross-origin resource size padding**

Security

For quota accounting purposes, the size of cross-origin AppCache resources will be | AppCache can be used in conjunction with the Quota API to learn the size of cross-o

**CSP: `script-src-attr`, `script-src-elem`, `style-src-attr`, `style-src-elem` directives**

Security

These 4 new directives provide the functionality of the script/style directive but with

**HTMLVideoElement.playsInline**

Multimedia

This is a hint a website may provide to a user agent to display a video content within It allows embedders to provide a media experience where a playing a video automati

**IFrame execution/freezing feature policy**

Performance

Adds ability to pause execution of an iframe that is not rendered or scrolled out of vi Suppose a page contains an iframe. It is possible that the embedding document doe

**Low latency canvas contexts with desynchronized**

Graphics

The getContext() method now supports a desynchronized option, which provides a lc

**MediaStreamTrack.getCapabilities()**

Multimedia

audio device-related

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## events

Similar to scroll event, Chrome will send overscroll and scrollend DOM events.

The overscroll and scrollend events will provide web developers a way to listen to the

## RTCDtlsTransport

Web RTC

Adds a component to provide information about active transports. Specifically, this is

## RTCIceTransport

JavaScript

Provides information about the state of the ICE transports used by RTCPeerConnecti

## Remove cursors greater than 32x32 device-independent pixels intersecting native UI

CSS

Custom cursors with widths or heights greater than 32 DIP will be removed if they int

## Remove unimplemented -webkit-appearance keywords

CSS

Remove the following -webkit-appearance keywords: button-bevel caret listitem mec

They are not implemented. We should not keep such useless keywords.

## Scroll Snap Stop

CSS

Normally an inertial scroll operation (such as a swipe gesture) may skip several poss

Some forms of paginated scrolling experiences require user scroll gesture to move a

## Service workers appear in Chrome's Task Manager

Service Worker

Service workers now appear in Chrome's Task Manager.

## Storage Quota Usage Details

Offline / Storage

This change adds a dictionary to the returned dictionary of storageManager.estimate

This change is useful in debugging usage between the various storage systems. Right

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## Web Share API Level 2

Device

Web Share API Level 2 allows sharing of files from the web to an app of the user's choice.

## Web notification inline replies

Realtime / Communication

This feature adds support for text actions on web notifications. It allows web developers to add text input fields to notifications.

## WebAssembly Bulk Memory Operations

JavaScript

Adds a memmove type opcode to WebAssembly and enhances existing data section.

## WebAssembly Non-trapping Conversion

JavaScript

Adds opcodes to WebAssembly to support non-trapping float-to-integer conversion to integers.

## WebRTC relative packet arrival delay statistic

Web RTC

Add new non-standard audio receiver metric to the WebRTC getStats() API called relativeArrivalDelay.

The purpose of this metric is to identify networks which may cause bad audio due to network latency.

## overflow: -webkit-paged-x , overflow: -webkit-paged-y

CSS

These are old webkit-specific properties that allowed developers to fragment content.

For developers who wish to have fragmented content, a more standardized way to do this is to use CSS grid.

## stale-while-revalidate

Network / Connectivity

The stale-while-revalidate attribute is used by the Cache-Control header and defines how to handle requests while a response is being generated.

## waitUntil/respondWith can be

Service Worker

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SU

This setting scales down the resolution of a video's layers in each dimension by the specified factor.

## AudioContextOptions.sampleRate

Multimedia



Allows developers to set the "sampleRate" for an AudioContext at the time it is created.

This allows developers to control the sample rate separately from the hardware rate. It is useful for audio processing applications.

## Background Fetch API

Service Worker



## CSS Transition Events

CSS



## CSS prefers-reduced-motion media query

CSS



Support will be added for the CSS prefers-reduced-motion media query. The prefers-reduced-motion media query allows users to request reduced motion for CSS transitions and animations.

## Disallow opener navigation

Network / Connectivity



If a popup navigates its opener to a URL which results in a download, the download will be blocked.

## Face Detection API

Multimedia



The Face Detection API is a subset of the Shape Detection API which provides the ability to detect faces in images.

Native platforms such as Android, iOS, macOS and Windows include built-in libraries for face detection.

## Feature Policy: JavaScript API

JavaScript



A JavaScript API will be exposed for feature policy. This API contains three functions:

## Hashbang interpreter line

JavaScript



Allows the first line of a script or module source file to specify an interpreter to evaluate the code.

85 canary

84 dev

83 beta

81 stable

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## Intl.Locale

Intl.Locale class allows the following: Parsing and manipulating the language, region

Make MediaDevices and  
related functions and  
types secure context  
only

Realtime / Communication

Make the MediaDevices interface and its related functions and types, including getU:

PaymentRequest.hasEnrolledInstrument()

Misc

The PaymentRequest.hasEnrolledInstrument() method returns a boolean indicating w

Per-method quota for  
PaymentRequest.hasEnrolledInstrument()

Misc

Separate hasEnrolledInstrument() calls should be used to query whether a user has a

Private class fields

JavaScript

This feature introduces private fields to classes in ECMAScript. Note: This entry only

RTCIceCandidate and  
RTCIceCandidateInit

Realtime / Communication

RTCIceCandidate and RTCIceCandidateInit will be made spec-compliant. The RTCIce

Reflect redirects to worker global  
scope's URL

Misc

Worker global scope's URL (self.location, referrer, and base URL) should reflect redire

Remove PaymentAddress's  
language property

Misc

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Signed Exchange

Reporting for distributors

Signed Exchange Reporting for distributors extends the Network Error Logging to en...

Text Detection API

Multimedia

The Text Detection API is a subset of the Shape Detection API which provides the ab...

Native platforms such as Android, iOS, macOS and Windows include built-in libraries

TextEncoder encodeInto() method

DOM

TextEncoder's encodeInto() method allows an encoded string to be written directly "i...

WebAssembly Worker Based  
Threads

Performance

The WebAssembly Threads feature allows multiple WebAssembly instances in separ...

XHR fallbacks UTF-8 when  
invalid encoding is specified

Web Components

When an invalid encoding is specified for XMLHttpRequest (via overrideMimeType())

service worker:  
client.postMessage() is  
buffered until the document is  
ready.

Service Worker

To prevent messages from being delivered before the destination is ready, client.pos...

type in PerformanceObserver's  
observe() dictionary

Performance

The addition of the 'type' member will allow passing in parameters specific to one en...

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## Badging API

Device

Allows web apps (as defined by the Web App Manifest standard) to set an app-wide

## CSS: Use the response URL as the base URL

CSS

The base URL of stylesheets is now the response URL of the stylesheet rather than t

## CanvasRenderingContext2D.getContextAttributes()

This method allows web developers to read back the ContextAttributes consumed by

## Constructible Stylesheets

CSS

The API provides a way to create CSSStyleSheet objects from script without needing

## Cross-Origin Resource Policy

Security

“Cross-Origin-Resource-Policy” response header allows http servers to ask the brows

## DOMMatrixReadOnly.scaleNonUniform()

DOM

This function post-multiplies a non-uniform scale transformation on the current matr

## EME Extension: HDCP Policy Check

Multimedia

This feature provides applications the ability to query whether a certain HDCP policy

To see 1176 earlier features, please enter a more specific query.