

Google Chrome

This article is about the web browser. For the operating system, see [ChromeOS](#). For other uses, see [Chrome \(disambiguation\)](#).

Google Chrome

Google Chrome 103 running on [Windows 11](#)

Developer(s)	Google
	Windows XP Beta / September 2, 2008; 16 years ago
	Windows XP 1.0 / December 11, 2008; 15 years ago
Initial release	macOS, Linux Preview / June 4, 2009; 15 years ago
	macOS, Linux Beta / December 8, 2009; 14 years ago
	Multiplatform 5.0 / May 25, 2010; 14 years ago

[Stable release\(s\)](#) [±]

Microsoft Windows, Linux and Mac OS X

Version 74.0.3729.169 (May 21, 2019; 5 years ago) [+]^[1]

Written in [C](#), [C++](#), [Assembly](#), [HTML](#), [Java](#) (Android app only), [JavaScript](#), [Python](#)^{[2][3][4]}

Engines [Blink](#) ([WebKit](#) on iOS), [V8 JavaScript engine](#)
[Android Nougat](#) or later^[5]
[ChromeOS](#)

[Operating system](#) [iOS 15](#) or later^[6]
[Linux](#)
[macOS 10.13](#) or later
[Windows 10](#) or later

[Platform](#) [IA-32](#), [x86-64](#), [ARMv7](#), [ARMv8-A](#)

Included with [Android Nougat](#) or later
[ChromeOS](#)

Available in 47 languages^[7]

[Type](#) [Web browser](#), [mobile browser](#)

[License](#) [Proprietary freeware](#), based on open source components^{[8][note 1]}

Website www.google.com/chrome/ [Edit this at Wikidata](#)

Google Chrome is a [freeware web browser](#) made by [Google](#). It builds on parts from other [open source](#) software, including [WebKit](#) and [Mozilla Firefox](#).^[9] The name comes from the [graphical user interface](#) frame, or "chrome", of web browsers. The open source project behind Google Chrome is known as [Chromium](#).^[10]

The first version was a [beta](#) for [Microsoft Windows](#) was released on September 2, 2008.^[11] [macOS](#) and [Linux](#) versions were released in December 2009.^{[12][13]}

Announcement

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The release announcement was going to be made on September 3, 2008, and a comic by [Scott McCloud](#) was to be sent to journalists and bloggers explaining the features of and reasons for the new browser.^[14] Copies that were for [Europe](#) were shipped early and [German](#) blogger Philipp Lenssen of [Google Blogoscoped](#)^[15] made a scanned copy of the 38-page comic available on his website after receiving it on September 1, 2008.^[16] Google then made the comic available on [Google Books](#) and their [website](#)^[17] and [referenced](#) it on its official blog along with an explanation for the early release.^[9] As of September 2, 2008, Google has a link to Google Chrome on their main page.^[18]

Design

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Security

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Blacklists

Chrome downloads updates of two [blacklists](#) (one for [phishing](#) and one for [malware](#)) and warns users when they try to visit a harmful site. This service is also made available for use by others via a free public [API](#) called "Google Safe Browsing API". In the process of maintaining these blacklists, Google also notifies the owners of listed sites who may not be aware of the presence of the [harmful software](#).^[16]

Sandboxing

Each tab in Chrome is [sandboxed](#) to "prevent malware from installing itself" or "using what happens in one tab to affect what happens in another". Following the [principle of least privilege](#), each process is stripped of its rights and can compute but can't write files or read from sensitive areas (e.g. documents, desktop), this is similar to "Protected Mode" that is used by [Internet Explorer 7](#) on [Windows Vista](#). The *Sandbox Team* is said to have "taken this existing process boundary and made it into a jail"; for example, malicious software running in one tab is unable to sniff [credit card](#) numbers, interact with the mouse or tell "Windows to run an [executable](#) on the start-up" and will be terminated when the tab is closed. This enforces a simple [computer security model](#) whereby there are two levels of [multilevel security](#) (*user* and *sandbox*) and the *sandbox* can only respond to communication requests initiated by the *user*.^[16]

Plugins

[Plugins](#) such as [Adobe Flash Player](#) are typically not standardised and as such cannot be [sandboxed](#) like tabs. These often need to run at or above the [security level](#) of the browser itself. To reduce exposure to attack, plugins are run in separate processes that communicate with the renderer, itself operating at "very low privileges" in dedicated per-tab processes.

Incognito

Chrome includes an *Incognito* mode (similar to [Safari's Private Browsing](#) and [Internet Explorer 8's InPrivate](#)) which "lets you browse the web in complete privacy because it doesn't record any of your activity" and discards cookies. When enabled for a window "nothing that occurs in that window is ever logged on your computer."^[9]

Speed

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JavaScript

The [JavaScript virtual machine](#) was considered a sufficiently important project to be split off (like [Adobe/Mozilla's Tamarin](#)) and handled by a dedicated [team](#) in [Denmark](#). Existing implementations were designed "for small programs, where the performance and interactivity of the system weren't that important" but [web applications](#) like [Gmail](#) "are using the web browser to the fullest when it comes to [DOM](#) manipulations and JavaScript". The resulting [V8 JavaScript engine](#) was designed for speed and introduces new features with that in mind such as [hidden class transitions](#), [dynamic code generation](#), and [precise garbage collection](#).^[16] Tests by Google show that V8 is about twice as fast as Firefox 3 and the Safari 4 beta.^[19]

User interface

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The main user interface includes back, forward, refresh, bookmark, go and cancel options similar to [Safari browser](#), while the settings location looks like [Internet Explorer](#) 7/8. The minimize, maximize and close window buttons are based on [Windows Vista](#).

Gears

Chrome includes [Gears](#) which adds [developer](#) features that may or may not become [web standards](#), typically relating to the building of [web applications](#) (including offline support).^[16]

New Tab Page

Chrome replaces the browser [home page](#) which is displayed when a new tab is created with a *New Tab Page*. This shows thumbnails of the eight most visited websites along with the sites most often searched,

recent bookmarks, and recently closed tabs.^[20] This concept appeared first with Opera's [Speed Dial](#).^[16]

Omnibox

The *Omnibox* is the URL box at the top of each tab, based on the one in [Opera](#). It includes autocomplete functionality but will only autocomplete URLs that were manually entered (rather than all links), search suggestions, top pages (previously visited), popular pages (unvisited), and text search over history. [Search engines](#) can also be captured by the browser when used via the native [user interface](#) by pressing *Tab*.^[16]

Pop-ups

[Pop-up windows](#) "are scoped to the tab they came from" and will not appear outside the tab unless the user explicitly drags them out. It is not clear whether they also run in their own process.^[16]

Rendering engine

At first, Chrome used the [WebKit browser engine](#) on advice from the [Android](#). Since version 28, Chrome has used its own [fork](#), or a version of WebKit called Blink. This is to allow Google to change Blink to suit Chrome's needs explicitly by removing things that Chrome doesn't need.^[21] The [IOS](#) version of Chrome still uses Blink due to IOS' requirements.

Tabs

[Tabs](#) are the primary component of Chrome's [user interface](#) and as such has been moved to the top of the window rather than below the controls (similar to [Opera](#)). This subtle change is in contrast to many existing tabbed browsers which are based on [windows](#) containing [tabs](#). Tabs (including their state) can be seamlessly transferred between window containers by dragging. Each tab has its own set of controls, including the *Omnibox* URL box.^[16]

Standards

[Google Chrome fails the Acid 3 Test](#)

Google Chrome fails the *Acid 3 Test*

[Google Chrome passes the Acid2 test prior to window resizing](#)

Google Chrome passes the *Acid2 test* prior to window resizing

The first release of Google Chrome Beta (Build 1583) did not pass the [Acid3](#) test; it scored 77/100 and does not render the image correctly. It passed the [Acid2](#) test initially, but failed upon resizing. From version 4 onward, Google Chrome has passed the *Acid1*, *2*, and *3* tests.^[22]

Webapps

[Webapps](#) can be launched in their own streamlined window without the *Omnibox* URL box and browser toolbar. This limits the *browser chrome* so as not to "interrupt anything the user is trying to do", allowing [web](#)

[applications](#) to run alongside local [software](#) (similar to [Mozilla Prism](#), [Adobe AIR](#) and [Fluid](#)).^[16]

Notes

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1. [↑] Chrome's [WebKit](#) & [Blink](#) layout engines and its [V8 JavaScript engine](#) are each [free and open-source software](#), while its other components are each either open-source or [proprietary](#). However, section 9 of [Google Chrome's Terms of Service](#) designates the whole package as proprietary [freeware](#).

References

[[change](#) | [change source](#)]

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14. [↑] Scott McCloud (September 1, 2008). "[Surprise!](#)". *Google Blogoscoped*. Retrieved September 1, 2008.
15. [↑] Philipp Lenssen (September 1, 2008). "[Google Chrome, Google's Browser Project](#)". Retrieved September 1, 2008.
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17. [↑](#) ["Google Chrome"](#). September 1, 2008. Retrieved September 2, 2008.
18. [↑](#) ["Google Chrome"](#). September 2, 2008. Retrieved September 2, 2008.
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21. [↑](#) ["Blink: Chrome's New Rendering Engine - SitePoint"](#). *www.sitepoint.com*. Retrieved January 1, 2021.
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Other websites

[[change](#) | [change source](#)]

- [Official website](#)
- [Chromium project page](#) at [Google Code](#)
- [Google Chrome features](#)
- [Official Google Blog article of Google Chrome](#)
- [Google Chrome Help Archived](#) March 1, 2015, at the [Wayback Machine](#)

Google	
	<ul style="list-style-type: none"> v t e
	<ul style="list-style-type: none"> Alphabet Inc. History List of Android apps List of Easter eggs ◦ April Fools' Day List of mergers and acquisitions
Company	
Divisions	<ul style="list-style-type: none"> • Ads • AI <ul style="list-style-type: none"> ◦ Brain ◦ DeepMind • Android <ul style="list-style-type: none"> ◦ booting process ◦ recovery mode ◦ software development ◦ version history

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People	<div> <div>Current</div> <ul style="list-style-type: none"> • Krishna Bharat • Vint Cerf • Jeff Dean • John Doerr • Sanjay Ghemawat • Al Gore • John L. Hennessy • Urs Hölzle • Salar Kamangar • Ray Kurzweil • Ann Mather • Alan Mulally • Sundar Pichai (CEO) • Ruth Porat (CFO) • Rajen Sheth • Hal Varian • Susan Wojcicki • Neal Mohan </div>
	<div> <div>Former</div> <ul style="list-style-type: none"> • Andy Bechtolsheim • Sergey Brin (Founder) • David Cheriton </div>

	<ul style="list-style-type: none"> • Matt Cutts • David Drummond • Alan Eustace • Timnit Gebru • Omid Kordestani • Paul Otellini • Larry Page (Founder) • Patrick Pichette • Eric Schmidt • Ram Shriram • Amit Singhal • Shirley M. Tilghman • Rachel Whetstone
Real estate	<ul style="list-style-type: none"> • 111 Eighth Avenue • Androidland • Barges • Binoculars Building • Central Saint Giles • Chelsea Market • Chrome Zone • Data centers • Modular • Googleplex • Mayfield Mall • Pier 57 • Sidewalk Toronto • St. John's Terminal • YouTube Space • YouTube Theater
Design	<ul style="list-style-type: none"> • Fonts <ul style="list-style-type: none"> ◦ Croscore ◦ Noto ◦ Product Sans ◦ Roboto • Logo ◦ Doodle ■ Doodle Champion Island Games ■ Magic Cat Academy • Material Design
Events	

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Projects and initiatives	<ul style="list-style-type: none"> • 20% project • Area 120 ◦ Reply ◦ Tables • ATAP • Business Groups • Computing University Initiative • Data Liberation Front • Data Transfer Project • Developer Expert • Digital Garage • Digital News Initiative • Digital Unlocked • Dragonfly • Founders' Award • Free Zone • Get Your Business Online

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Development	
Operating systems	<ul style="list-style-type: none"> • Android ◦ Automotive ◦ Glass OS ◦ Go ◦ gLinux ◦ Goobuntu ◦ Things ◦ TV ◦ Wear OS • ChromeOS ◦ ChromiumOS ◦ Neverware • Fuchsia • TV
Libraries/ frameworks	<ul style="list-style-type: none"> • ALTS • AMP • Angular ◦ JS • ARCore • APIs • Blockly • Chart API • Charts • Dialogflow • Exposure Notification • Fast Pair • Federated Learning of Cohorts

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- [AppSheet](#)
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- [Chrome Frame](#)
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Search algorithms	<ul style="list-style-type: none"> • Hummingbird • PageRank <ul style="list-style-type: none"> ◦ applications in biochemistry ◦ Matrix • Panda • Penguin • Pigeon • RankBrain
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Products		
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Communication	<ul style="list-style-type: none"> • Allo • Bump • Buzz • Chat • Contacts • Currents (social app) • Dodgeball • Duo • Fi Wireless • Friend Connect • Gizmo5 • Google+ • Gmail ◦ History ◦ Inbox ◦ Interface • Groups • Hangouts • Helpouts • IME ◦ Japanese ◦ Pinyin ◦ Transliteration • Jaiku • Marratech • Meebo • Meet • Messages • Moderator • Neotonic Software • Orkut • Postini

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Search

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- [Pay \(mobile app\)](#)
 - [Wallet](#)
 - [Pay \(payment method\)](#)
 - [Send](#)
 - [Tez](#)
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and productivity**

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- [Drive](#)
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- [Quickoffice](#)
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- [Surveys](#)
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- [Tasks](#)
- [Toolbar](#)

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- [*Family Link*](#)
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Chrome

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- [*GreenBorder*](#)
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- [*Web Store*](#)
- [*V8*](#)

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Hardware	
Smartphones	<ul style="list-style-type: none"> • Android Dev Phone • Android One • Nexus ◦ Nexus One ◦ S ◦ Galaxy Nexus ◦ 4 ◦ 5 ◦ 6 ◦ 5X ◦ 6P ◦ Comparison • Pixel ◦ Pixel ◦ 2 ◦ 3 ◦ 3a ◦ 4 ◦ 4a ◦ 5 ◦ 5a ◦ 6 ◦ 6a ◦ 7 ◦ 7a ◦ Fold ◦ Comparison • Play Edition • Project Ara
Laptops and tablets	<ul style="list-style-type: none"> • Chromebook

- [Nexus](#)
 - [7 \(2012\)](#)
 - [7 \(2013\)](#)
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 - [C](#)
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