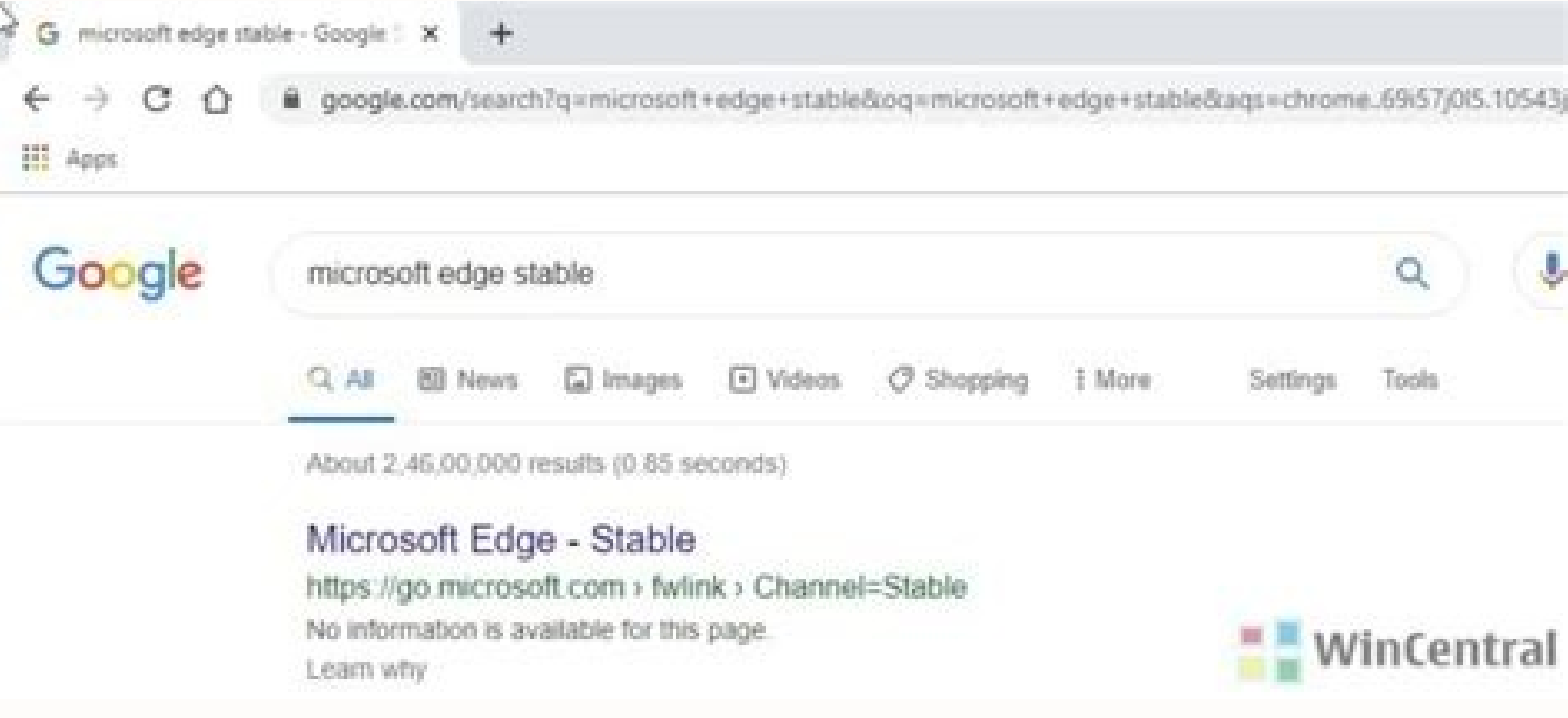


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Web browser developed by Microsoft Microsoft Edge Microsoft Edge on Windows 11 Original author(s) Microsoft Developer(s) Microsoft Initial release April 29, 2015; 7 years ago (2015-04-29) Stable release(s) Android 100.0.1185.50[1] / 28 April 2022 Preview release(s) [±] Beta channel 97.0.1072.41 / December 20, 2021; 8 months ago (2021-12-20)[2] Dev channel 104.0.1293.1 Canary channel 105.0.1298.0 Engines Android: Blink[3] iOS/iPadOS: WebKit[3] macOS: Blink Microsoft Windows: EdgeHTML (2014–2019)[4] Blink (2019–present) Linux: Blink Xbox One: EdgeHTML (until 2021) Blink (from 2021) Operating system Android iOS macOS 10.12 or later Windows 7 or later Linux (specifically Ubuntu, Debian, Fedora, and openSUSE distributions) Platform IA-32x86-64 ARM32 ARM64 Included with Windows 10 Windows 10 Mobile Windows 11 Xbox One and Xbox Series X/S system software Predecessor Internet Explorer License Proprietary software, based on open source components.[5][note 1] Website microsoft.com/en-us/edge Microsoft Edge is a cross-platform web browser created and developed by Microsoft. It was first bundled with Windows 10 and Xbox One in 2015, and later released for other platforms: Android and iOS in 2017,[6][7] macOS and older Windows versions (Windows 7 and later) in 2019,[8][9] and Linux in 2020.[10][11] The Chromium-based Edge replaced Internet Explorer (IE) in Windows 11, as the default web browser (for compatibility)[12][13] with Google Chrome.[14] Edge was initially built with Microsoft's own proprietary browser engine EdgeHTML and their Chakra JavaScript engine, a version now referred to as Microsoft Edge Legacy.[15] In December 2018, Microsoft announced plans to rebuild the browser as Chromium-based[16][17] with Blink and V8 engines. Microsoft announced the public release of the new Edge on January 15, 2020.[18] In June 2020, Microsoft began automatic rollout of the new version via Windows Update for Windows 7, 8.1, and Windows 10 versions from 1903 to 2004.[19] Microsoft stopped releasing security patches for Edge Legacy from March 9, 2021, and released a security update on April 13, 2021, which replaced Edge Legacy with Chromium-based Edge.[20] Microsoft released the Chromium-based Edge to the Xbox Insider Alpha Skip Ahead group on March 6, 2021,[21] and to all users in September 2021.[22] In May 2022, according to StatCounter, Microsoft Edge became the second most popular browser in the world, overtaking Apple's Safari (in some countries, such as the United States, Edge is 3rd most popular, where Edge has 14% share, slightly behind Safari's 17% share. As of August 2022[update], Edge is used by 15 percent of PCs worldwide.[23] Features Microsoft Edge is the default web browser on Windows 10, Windows 10 Mobile, Windows 11, Xbox One, and Xbox Series X and Series S consoles, replacing Internet Explorer 11 and Internet Explorer Mobile.[24] As its development and release is dependent on the model of Windows as a service, it is not included in Windows 10 Enterprise Long-Term Servicing Channel (LTSC) builds.[25][26][27] Microsoft initially announced that Edge would support the legacy MSHTML (Trident) browser engine for backwards compatibility, but later said that, due to "strong feedback," Edge would use a new engine, while Internet Explorer would continue to provide the legacy engine.[28] The developer toolset of the EdgeHTML-based versions featured an option to emulate the rendering behaviour ("document mode") of Internet Explorer versions 5 to 11.[29][30] Favorites, reading list, browsing history and downloads are viewed at the Hub,[31] a sidebar providing functionality similar to Internet Explorer's Downloads manager and Favorites Center.[32] Edge features a built-in PDF reader, removing the need to install a standalone application.[33] and supports WebAssembly. Until January 2021, Edge also featured an integrated Adobe Flash Player (with an internal whitelist allowing Flash applets on Facebook websites to load automatically, bypassing all other security controls requiring user activation).[34] Edge does not support legacy technologies such as ActiveX and Browser Helper Objects, instead it uses an extension system.[4][35][36] Internet Explorer 11 remains available alongside Edge on Windows 10 for compatibility; it remains identical to the Windows 8.1 version and does not use the Edge engine as was previously announced.[4][24][35] In Windows 11, Edge became the only browser available from Microsoft. However, it includes an "Internet Explorer mode," aimed at fixing compatibility issues.[37] Edge integrates with Microsoft's online platforms to provide voice control, search functionality, and dynamic information related to searches within the address bar. Users can make annotations to web pages that can be stored to and shared with OneDrive,[38] and can save HTML and MHTML pages to their computers. It also integrates with the "Reading List" function and provides a "Reading Mode" that strips unnecessary formatting from pages to improve their legibility.[38] Edge also has a new feature called vertical tabs which allow users to move tabs on the left side of the screen.[39] Preliminary support for browser extensions was added in March 2016, with build 14291, three extensions were initially supported. Microsoft indicated that the delay in allowing extensions and the small number was due to security concerns.[40] HTML5 standards Edge originally lacked support for open media standards such as WebM and Opus, but these were later added in Edge 14.14291.[41] As of August 2020[update], Edge 84 had scored 496/555[42] on HTML5test. Release strategy Microsoft Edge Legacy's release cadence was tied to the Windows 10 release cycle and used the Windows Insider Program to preview new versions of the browser. These pre-release builds were known as "Edge Preview". Every major release of Windows included an updated version of Edge and its render engine. On April 8, 2019, Microsoft announced the introduction of four preview channels: Canary, Dev, Beta, and Stable and launched the Canary and Dev channels that same day with the first preview builds, for those channels, of the new Edge. Microsoft collectively calls the Canary, Dev, and Beta channels the "Microsoft Edge insider channels".[43] As a result, Edge updates were decoupled from new versions of Windows. Major versions of Edge Stable are now scheduled for release every 4 weeks, closely following Chromium version releases. Surf (video game) Main article: Surf (video game) In May 2020, an update to Microsoft Edge added Surf, a video game where players control a surfer attempting to evade obstacles and collect powerups. Similar to Google Chrome's Dinosaur Game, Surf is accessible from the browser's offline error page and can also be accessed by entering edge://surf into the address bar. The game features three game modes (classic, time trial, and slalom), has character customization, and supports keyboard, mouse, touch, and gamepad controls.[44][45] Its gameplay has been compared to the 1991 Microsoft video game SkiFree.[46][47] In 2021, Surf was updated with limited-time seasonal theming resembling SkiFree. Instead of surfing, the player skis down a mountain while being chased by a yeti.[48] Development Edge Legacy (2014–2019) Microsoft Edge logo, used from April 29, 2015 to November 1, 2019 In December 2014, writing for ZDNet, technology writer Mary Jo Foley reported that Microsoft was developing a new web browser codenamed "Spartan" for Windows 10. She said that "Spartan" would be treated as a new product separate from Internet Explorer, with Internet Explorer 11 retained alongside it for compatibility.[49] In early January 2015, The Verge obtained further details surrounding "Spartan" from sources close to Microsoft, including reports that it would replace Internet Explorer on both the desktop and mobile versions of Windows 10.[50] Microsoft officially unveiled "Spartan" during a Windows 10-focused keynote on January 21, 2015.[38] It was described as a separate product from Internet Explorer, its final name was not announced.[51] "Spartan" was first made publicly available as the default browser of Windows 10 Technical Preview build 10049, released on March 30, 2015.[52] The new engine used by "Spartan" was available in Windows 10 builds as part of Internet Explorer 11. Microsoft later announced that Internet Explorer would be deprecated on Windows 10 and would not use the "Spartan" engine.[53] On April 29, 2015, during the Build Conference keynote, it was announced that "Spartan" would officially be known as Microsoft Edge.[54] The browser's logo and branding were designed to maintain continuity with the branding of Internet Explorer.[55] The Project "Spartan" branding was used in versions released after Build 2015. On June 25, 2015, Microsoft released version 19.10149 for Windows 10 Mobile which included the new brand. On June 28, 2015, version 20.10158 followed for the desktop versions, also including the updated branding. On July 15, 2015, Microsoft released version 20.10240 as the final release to Insiders. The same version was rolled out to consumers on July 29, 2015. On August 12, 2015, Microsoft started the preview program for the next version of Microsoft Edge. They released version 20.10512 to Mobile users, 6 days later followed by version 20.10525 for desktop users. The preview received multiple updates. On November 5, 2015, Microsoft released version 25.10586 as the final release for Edge's second public release for desktop users. On November 12, 2015, the update was rolled out to both desktop users and Xbox One users as part of the New Xbox Experience Update. On November 18, 2015, the update was to Windows 10 Mobile. Finally, on November 19, 2015, the update was also made available as part of the Windows Server 2016 Technical Preview 4.[citation needed] In November 2017, Microsoft released ports of Edge for Android and iOS. The apps feature integration and synchronization with the desktop version on Windows 10 PCs. Due to platform restrictions and other factors, these ports do not use the same layout engine as the desktop version and instead use OS-native WebKit-based engines.[56][57][58] In April 2018, Edge added tab audio muting.[58] In June 2018, support for the Web Authentication specifications were added to Windows Insider builds, with support for Windows Hello and external security tokens.[59][60] Microsoft stopped supporting Microsoft Edge Legacy on March 9, 2021.[61][62] On April 13, 2021, Microsoft released a cumulative monthly security update which replaced Edge Legacy with the new Edge.[63] EdgeHTML is the proprietary browser engine originally developed for Edge. It is a fork of MSHTML (Trident) with all legacy code of older versions of Internet Explorer removed, with the majority of its source code rewritten to support web standards and interoperability with other modern browsers.[64][65] EdgeHTML is written in C++.[66] The rendering engine was first released as an experimental option in Internet Explorer 11 as part of the Windows 10 Preview 9926 build.[67] EdgeHTML is meant to be fully compatible with the WebKit layout engine used by Safari, Chrome, and other browsers. Microsoft stated their original acceptance criteria: "Any Edge-WebKit differences are bugs that we're interested in fixing".[68] A review of the engine in the beta Windows 10 build by AnandTech found substantial benchmark improvements over MSHTML (Trident), particularly its new Chakra JavaScript engine performance, which had come up to par with that of Google Chrome.[69] Other benchmarks focusing on the performance of the WebGL API found EdgeHTML to perform much better than Google Chrome and Mozilla Firefox.[70] Edge Legacy release history Legend: Old version, not maintained Older version, still maintained Current stable version Latest preview version Future release Version Browser engine Release date(s) Highlights Old version, no longer maintained: 20.10240[71] EdgeHTML 12.10240 July 15, 2015 First public release, initial release for PC Support for PDFs Pinnable Hub with Favorites, Download manager, Reading List, and History New Tab page with MSN news and search bar Support for inking on webpages Cortana Integration Reading View Dark theme Performance improvements[72] Old version, no longer maintained: 25.10586[73] EdgeHTML 13.10586 November 5, 2015 Initial release on Windows 10 Mobile and Xbox One Improved render engine with Pointer Lock support, canvas blending modes, asm.js support, no longer maintained: 41.16299[74][79] EdgeHTML 16.16299 September 26, 2017 WebAssembly now enabled by default Old version, no longer maintained: 42.17134[80][81] EdgeHTML 17.17134 April 30, 2018 Support for Progressive Web Apps CSS transforms on SVG elements Support for Notification API Old version, no longer maintained: 44.17763[82][83] EdgeHTML 18.17763 August 2, 2016 Initial release on Windows Holographic Experimental support for VP9 Context menu for navigation buttons Improved favorites management Improved download management Pinned tab support added Ability to copy and paste links in Microsoft Edge added Download reminders Default save locations can be changed Favorite Tree view improvements Experimental JavaScript ES6 Regex symbols support New Web Platform features Improved F12 developer tools Improved accessibility Swipe gestures to navigate back and forward Support for Beacon, Web Notifications, and Fetch API Official support for browser extensions WOFF 2 fonts Support for Color Fonts formats (sbix, OpenType-SVG, COLR/CPAL, CBDT/CBLC) Old version, no longer maintained: 40.15063[75][76] EdgeHTML 15.15063 April 11, 2017 Added CTRL + O keyboard shortcut to set focus to the address bar Partial implementation of WebKit-Text-Stroke and CSS outline-offset Ability to use Snooze to put a website in a Cortana Reminder to make it show up in the Action Center Ability to import and export favorites from and to a file Improved ES6 Modules debugging in F12 Developer Tools H.264/AVC became enabled by default for RTC Support for WebRTC 1.0 and Service Workers (behind flags) Added support for the EPUB file format The "Snooze" feature has been removed Icons of pages in the hub became larger Console filter settings will persist for buttons and context menu Support for the Brotli compressed data format as an HTTP content-encoding method Updated to the MS-prefixed FIDO 2.0 implementation to match the latest W3C Web Authentication specification Partial support for CSS Custom Properties (aka CSS Variables) Preliminary support for the IntersectionObserver API Async/await is enabled by default DOM performance improvements Advanced Tab Management Added support for EPUB/PDF read aloud Old version, no longer maintained: 40.15254.603[77] EdgeHTML 15.15254 January 14, 2020 Latest release on Windows 10 Mobile Old version, no longer maintained: 44.19041[84] Old version, no longer maintained: 44.18362[85] EdgeHTML 18.18362 May 21, 2019 Old version, no longer maintained: 44.18363[86] EdgeHTML 18.18363 November 12, 2019 Old version, no longer maintained: 44.19041[citation needed] EdgeHTML 18.19041 May 27, 2020 New Edge (2019–present) Codenamed "Anaheim", on December 6, 2018, Microsoft announced its intent to base Edge on the Chromium source code, using the same rendering engine as Google Chrome but with enhancements developed by Microsoft. It was also announced that there will be versions of Edge available for Windows 7, Windows 8, and macOS, plus that all versions will be updated on a more frequent basis.[85][86] According to Microsoft executive Joe Belliore, the decision for the change came after CEO Satya Nadella told the team in 2017 that the product needed to be better and pushed for replacing its in-house rendering engine with an open source one.[87] On April 8, 2019, the first builds of the new







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