I'm not robot	reCAPTCHA
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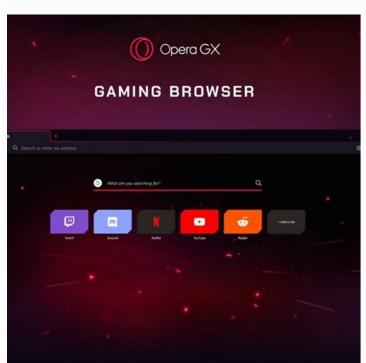












Instead, they selected 2144.cn as a partner and released a special variant of Flash Player on a specific website, [187] which contains a non-closable process, known as the "Flash Helper Service", that collects private information and pops up advertisement window contents, [188] by receiving and running encrypted programs from a remote server. [189] The partnership started in about 2017, but in version 30, Adobe disabled the usage of vanilla (global) variant of Flash Player in mainland China, [190] forcing users to use that specific variant, which may pose a risk to its users due to China's Internet censorship. [191] This only affected Chinese Chromium based browser users, Firefox users, and Internet Explorer users using Windows 7 and below, as Microsoft Edge through Windows 8 and upward at the time. Performance is similar to HTML5 video playback. [46][47] Also, Flash Player has been used on multiple mobile devices as a primary user interface renderer.[48] Compilation Although code written in ActionScript 3 executes up to 10 times faster than the prior ActionScript 3 compiler, and produces inefficient bytecode in the resulting SWF, when compared to toolkits such as CrossBridge.[50][51][52][53][54] CrossBridge, a toolkit that targets C++ code to run within the Flash Player, uses the LLVM compiler to produce bytecode that runs up to 10 times faster than code the ActionScript 3 compiler produces, only because the LLVM compiler uses more aggressive optimization.[52][53][54] Adobe has released ActionScript Compiler 2 (ASC2) in Flex 4.7 and onwards, which improves compilation times and optimizes the generated bytecode and supports method inlining, improving its performance at runtime. [55] As of 2012, the Haxe multiplatform language can build programs for Flash Player that performance at runtime. Player applications and games can be built in two significantly different methods: "Flex" applications. Archived from the original on December 24, 2013. a b Steve Jobs (April 29, 2010). (Macromedia Flash Player 6 (version 6.0.21.0, codenamed Exorcist) (March 15, 2002) Support for the consuming Flash Remoting (AMF) and Web Service (SOAP) Supports ondemand/live audio and video streaming (RTMP) Support for screenreaders via Microsoft Active Accessibility Added Sorenson Spark video codec for Flash Video[193] Support for video, application components, shared libraries, and accessibility Macromedia Flash Communication Server MX, also released in 2002, allowed video to be streamed to Flash Player 6 (otherwise the video could be embedded into the Flash movie). Firefox 85, released on January 26, 2021, completely removed support for the Flash plugin.[127] Firefox ESR dropped support on November 2, 2021 (Firefox 78 ESR was the last version with support).[132] Microsoft Windows On October 27, 2020, Microsoft released an update (named KB4577586) for Windows 10 and 8.1 which removes the embedded Adobe Flash Player component from IE11 and Edge Legacy. Zii. community.adobe.com. Editors include Adobe Flash Builder and FlashDevelop. Archived from the original on May 20, 2007. Archived from the original on May 20, 2007. In October 2000, usability guru Jakob Nielsen wrote a polemic article regarding usability of Flash content entitled "Flash: 99% Bad". Whitequark.org. Archived from the original on May 14, 2013. ^ "Internet Security Threat Report: Volume XV: April 2010". Archived from the original on May 29, 2010. Java is a registered trademark of Oracle and/or its affiliates. ^ Vaughan-Nichols, Steven J. However, the most popular use of Flash among the 10-20 age group was for Flash games. ^ Venkat (June 16, 2019). Security and privacy. Adobe stated in 2013 that more than 400 million out of over 1 billion connected desktops update to the new version of Flash Player within six weeks of release.[18] However, Flash Player has become increasingly criticized for its performance, consumption of battery on mobile devices, the number of security vulnerabilities that had been discovered in the software, and its closed platform nature. Leaning Technologies. Retrieved January 20, 2021. Archived from the original on March 5, 2014. As of 2000, however, the Flash Player was already being distributed with all AOL, Netscape and Internet Explorer browsers. ^ "Security Advisory for Adobe Flash Player, Adobe Reader and Acrobat". published an open letter explaining why Apple would not support Flash on the iPhone, iPod touch, and iPad.[174] In the letter he blamed problems with the "openness", stability, security, performance, and touchscreen integration of the Flash Player as reasons for refusing to support it. "Adobe Flash is finally gone: The end arrives as Adobe starts blocking Flash content". Adobe (July 14, 2009). The company also stated it wants to enable Flash on NVIDIA Tegra, Texas Instruments OMAP 3, and Samsung ARMs. [98][99] Beginning 2009, it was announced that Adobe would be bringing Flash to TV sets via Intel Media Processor CE 3100 before mid-2009. [100] ARM Holdings later said it welcomes the move of Flash, because "it will transform mobile applications and it removes the claim that the desktop controls the Internet."[101] However, as of May 2009, the expected ARM/Linux netbook devices had poor support for Web video and fragmented software base.[102] Among other devices, LeapFrog Enterprises provides Flash Player with their Leapster Multimedia Learning System and extended the Flash Player with touch-screen support. [103] Version 9 was the most recent version available for the Linux/ARM-based Nokia 770/N800/N810 Internet tablets running Maemo OS2008. [89] Other versions of the player have been available at some point for Symbian OS and Palm OS. [104] The Kodak Easyshare One includes Flash Player. [105] The following table documents historical support for Flash Player on mobile operating systems: Platform Final version Android 4.0, ARM Cortex-A8+[91] Flash Player 11.1.111.73[80] Dreamcast Flash Player 4.0[citation needed] Maemo Flash Player 9.4[107] PlayStation 3 with Firmware 2.50, NetFront 2.81 Flash Player 7[111][112] webOS (Palm and HP) Flash Player 7[111][112] webOS ([113] Commodore 64,[114] ZX Spectrum,[115] and the Nintendo Entertainment System [116] They enable video games created for such platforms to run within Flash in Chrome". ^ "Downloads". Archived from the original on May 11, 2011. ^ Adobe Systems Incorporated (December 3, 2007) List of codecs supported by Adobe Flash Player Archived August 19, 2009, at the Wayback Machine, Retrieved on August 5, 2009 ^ Halfast, Todd. For the file format sometimes referred to as "Shockwave Flash", see SWF. ^ Claus Wahlers. McAfee predicted that Adobe software, especially Reader and Flash, would be primary target. for attacks in 2010.[171] Adobe applications had become, at least at some point, the most popular client-software targets for attackers during the last quarter of 2012 showing that 47.5% of its users were affected by one or more critical vulnerabilities.[173] The report also highlighted that "Flash Player vulnerabilities enable cybercriminals to bypass security systems integrated into the application."[173] Steve Jobs criticized the security records in 2009".[174] Adobe responded by pointing out that "the Symantec Global Internet Threat Report for 2009, found that Flash Player had the second lowest number of vulnerabilities of all Internet technologies listed (which included both web plug-ins and browsers)."[175][176] On April 7, 2016, Adobe released a Flash Player patch for a zero-day memory corruption vulnerability CVE-2016-1019 that could be used to deliver malware via the Magnitude exploit kit. Archived from the original on November 5, 2012. In July 2021, this update was automatically installed as a security patch.[133][134] However, an ActiveX Flash Player support from Safari 14 alongside the release of macOS Big Sur.[137][138] Fallout Despite the years of notice, several websites still were using Flash following December 31, 2020, including the U.S. Securities and Exchange Commission. June 7, 2010. Archived from the original on April 25, 2010. December 3, 2007. With such technologies, the possibility of building profile based on user statistics is considered by some a potential privacy concern. Red Ventures. Flash Player supports vector graphics, and a scripting language called ActionScript. Archived from the original on October 31, 2010. ^ Collins, Katie (March 11, 2016). "Flip8 - the World's First Flash Emulator — v0.9". Warren, Tom (January 20, 2021). Google verwendet Cookies und Daten für Folgendes: Dinge wie relevantere Ergebnisse und Empfehlungen, eine individuelle YouTube-Startseite und Werbung, die auf Ihre Interessen zugeschnitten ist. Klicken Sie auf "Anpassen", um sich Ihre Möglichkeiten anzusehen. Retrieved September 25, 2016. Noyes, Katherine (April 6, 2012). McAfee Avert Labs. CBS Interactive. This Player 13.0.0.80". Adobe Flash Player Support Center. Certain websites, such as Digg, Flickr, and Photobucket already host a cross domain policy that permits Flash content to access their website via HTTP.[36] RTMP: Support for live audio and video streaming using the Real Time Messaging Protocol (RTMP) developed by Macromedia. ^ "And Then Premium Features Arrived...". Local storage in Flash Player allows websites to store non-executable data on a user's computer, such as authentication information, game high scores or web browser games, server-based Chinese browsers will also continue to support Flash Player in PPAPI and/or NPAPI form, including, but not limited to, 360 Secure Browser. [135] Adobe Flash Player Projector Despite the end of general support for the global variant of Flash, Adobe Flash Player Projector (also known as Adobe Flash Player Projector (bina)). A Laforge, Anthony (July 25, 2017). The standard from Adobe Flash Player Projector Despite the end of general support for the global variant of Flash, Adobe Flash Player Projector (also known as Adobe Flash Player Projector (bina)). Player官方下载中心", Retrieved February 5, 2021, (April 30, 2010) Adobe hits back at Apple's 'smokescreen' - Telegraph Blogs Archived from the original on March 29, 2017, See also Adobe AIR Adobe Shockwaye Apache Flex Microsoft Silverlight References ^ "Adobe Flash Player". Adobe Systems. ^ "Flash Roadmap - The Chromium Projects". Flash Player is capable of viewing multimedia contents, executing rich Internet applications, and streaming audio and video. Retrieved August 5, 2014. ^ Scott, Jason (November 22, 2020). March 12, 2013. ^ "Stage3D vs WebGL Performance — Airtight Interactive". ^ "关于大连车务段使用Flash出现问题的声明公告". Since 12 January 2021, Flash Player (original global variants) versions newer than 32.0.0.371, released in May 2020, refuse to play Flash content and instead display a static warning message.[12] Flash Player runs SWF files that can be created by Adobe Flash Professional, Adobe Flash Builder or by third-party tools such as FlashDevelop. ActionScript is based on ECMAScript (similar to JavaScript) and supports object-oriented code. JPEG-XR enables lossy and lossless compression with or without alpha channel transparency. April 2010. ^ a b "Adobe Flash Player - Debug Downloads". ^ "Adobe Flash Player Settings Manager". Retrieved June 22, 2020. MobileCrunch. ^ "Stage3D". Retrieved May 9, 2017. ^ "Flash Bug Report". flash.cn (in Simplified Chinese). ^ "Flash Player Issues | Windows 10 | Internet Explorer". Learn more Software for viewing multimedia, rich Internet applications, and streaming video and audio This article is about the player. ^ "Adobe Acrobat, Reader, and Flash Player Remote Code Execution Vulnerability". ^ "CheerpX For Flash". Retrieved May 19, 2020. Retrieved May 5, 2012., Adobe Labs, "ASC performs few optimizations at this time" ^ Zotov, Peter (May 6, 2012). Archived from the original on June 8, 2010. Retrieved December 15, 2016. In addition, Flash Player can run from a web browser as a browser plug-in or on supported mobile devices. This browser can access only a small set of SARS online pages containing Flash-based forms required for filing financial reports. [147] Internet Explorer 11, along with IE mode in Edge,[78] will continue WPAPI support, and by extension Flash Player support, include Waterfox, Basilisk, Pale Moon, and K-Meleon. ^ "Adobe Flash Player Download". ^ rich Internet applications | Adobe Flash Platform runtimes Archived May 30, 2010, at the Wayback Machine. "South African government releases its own browser just to re-enable Flash support". May 10, 2021. August 31, 2016. February 2010. ^ "Flashplayer Is Incompatible With Your Area | Adobe Community". "Adobe to block Flash content from running on January 12, 2021". Pcworld.com. In August 2012, Adobe stopped updating Flash for Android.[92] Flash Player was supported on a select range of mobile and tablet devices, from Acer, BlackBerry 10, Dell, HTC, Lenovo, Logitech, LG, Motorola, Samsung, Sharp, SoftBank, Sony (and Sony Ericsson), and Toshiba.[93][94][95] As of 2012, Adobe has stopped browser-based Flash Player development for mobile browsers in favor of HTML5,[96][97] however, Adobe continues to support Flash content on mobile devices with the Adobe Integrated Runtime, which allows developers to publish content that runs as native applications on certain supported mobile phone platforms. www.chromium.org. Archived from the original on October 8, 2010. Electronics Weekly (May 2, 2008). Archived from the original on May 23, 2017. Therman's support for communicating with web servers using HTTP requests and POST data. [33] However, only websites that explicitly allow Flash to connect to them can be accessed via HTTP. or sockets, to prevent Flash being used as a tool for cross-site request forgery, [34] cross-site scripting, DNS rebinding, [35] and denial-of-service attacks. April 5, 2016. Retrieved December 2, 2021. Retrieved December 3, 2 content.[128] Users who wanted to play Flash content had to manually set a browser to prompt for Flash content, and then during each browser session enable Flash plugin for every site individually. "Adobe Uses DMCA to Nuke Project That Keeps Flash Alive, Secure & Adware Free". adobe.com (Press release). Flash (in Simplified Chinese). He also claimed that when one of Apple's Macintosh computers crashes, "more often than not" the cause can be attributed to Flash, and described Flash as "buggy".[184] Adobe's CEO Shantanu Narayen responded by saying, "If Flash [is] the number one reason that Macs crash, which I'm not aware of, it has as much to do with the Apple operating system." [185] Steve Jobs also claimed that a large percentage of the video on the Internet is supported on iOS, since many popular video sharing websites such as YouTube have published video content in an HTML5 compatible format, enabling videos to playback in mobile web browsers even without Flash Player. [186] Mainland China-specific variant Starting with version 30, Adobe stopped distributing Flash Player directly to users from mainland China. www.flash.cn. "Safari 14 removes Flash, gets support for breach alerts, HTTP/3, and WebP". ^ Introducing Molehill: 3D APIs for Adobe Flash Player and Adobe AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, Adobe Edge ^ Extending AIR Archived July 8, 2012, at the Wayback Machine, AIR Archived July 8, 2012, at the Wayback Machine, AIR Archived July 8, 2012, at the Wayback Machine, AIR Archived July 8, 2012, at the Wayback Machine, AIR Archived July 8, 2012, at the Wayback Machine, AIR Archived AIR 24, 2014, at the Wayback Machine, Adobe Devnet ^ "Flash Player 11.1 and AIR 3.1 User Release Notes: 11/09/11". December 24, 2010. ^ a b " flash install packages ". Archived from the original on December 12, 2007. AIR supports installable applications on Windows, Linux, macOS, and some mobile operating systems such as iOS and Android. Retrieved January 3, 2021. Archived from the original on August 10, 2014. Slate. ^ "Adobe acknowledges critical security flaw in software". "Flash. Retrieved August 4, 2014. Retrieved February 15, 2021. Since the AMF format specification is published, data can be transferred to and from Flash applications using AMF datasets instead of JSON or XML, reducing the need for parsing and validating such data. Retrieved June 30, 2012. Archived from the original on December 20, 2016. p. 130. Flash Builder 4.5 Archived December 22, 2014, at the Wayback Machine, MobileAppDev ^ Flex 4.5 vs Pure AS3 Archived October 21, 2011, at the Wayback Machine, Michael Crosby ^ a b "Adobe donates Flex to Apache". www.aminlab.com/. Techworld. "Pure ActionScript" applications built without the Flex framework allow greater flexibility and performance.[57][58][59] Video games built for Flash Player are typically pure-Actionscript projects. Retrieved December 8, 2020. Extended Support for Jeach Suppor Format (GIF) images, in its single-frame variants only. Archived from the original on November 18, 2016. ^ Comparing Flash, HTML5 Performance with Flash Player 10.1 on Nexus One Archived October 16, 2011, at the Wayback Machine, Flash Mobile Blog Reference Designs and Demos Archived October 11, 2011, at the Wayback Machine, Adobe ^ "Alchemy:FAQ". AMF: Flash Player allows application data to be stored on users computers, in the form of Local Shared Objects, the Flash equivalent to browser cookies. [23] Flash Player can also natively read and write files in the Action Message Format, the default data format for Local Shared Objects. Flash applications must specifically be built for the AIR runtime to use additional features provided, such as file system. integration, native client extensions, native window/screen integration, taskbar/dock integration, and hardware integration with connected Accelerometer and GPS devices. [22] Data formats Flash Player included native support for many data formats, some of which can only be accessed through the ActionScript scripting interface. Users can disable or restrict use of local storage in Flash Player through a "Settings Manager" page.[159][160] These settings can be accessed from the original on April 24, 2011. ^ "Flash Player 12.0.0.3". Archived from the original on November 18, 2011. November 14, 2013. Retrieved July 26, 2017. May 17, 2010. Archived from the original on June 2, 2007. ^ a b "Flash Player 3 Archived.com. ^ YouTube Blog ^ "Flash Player 5 Flash Player 6, 2017. May 17, 2010. Archived from the original on June 2, 2007. ^ a b "Flash Player 3 Archive". ^ "IT之家 | 中国特供版Flash被曝向有关部门搜集用户总私 - 中国数字时代". April 23, 2011. ^ "Update on Adobe Flash Player End of Support". ^ "features Flash Player 10.3 Release Notes". For an overview of the platform, see Adobe Flash. Symantec's Internet Security Threat Report[169] states that a remote code execution in Adobe Reader and Flash Player[170] was the second most attacked vulnerability in 2009. Macromedia Flash Player 5 (August 24, 2000) A major advance in ability, with the evolution of Flash's scripting abilities as released as ActionScript Saw the ability to customize the authoring environment's interface Macromedia Generator was the first initiative from Macromedia to separate design from content in Flash files. ^ Press Room: For immediate release Archived August 16, 2014, at the Wayback Machine. Mozilla. Adobe said it will optimize Flash for use on ARM architectures (ARMv7 and ARMv6 architectures used in the Cortex-A series of processors and in the ARM11 family) and release it in the second half of 2009. ARM welcomes Adobe's mobile Flash move - 5/2/2008 Archived February 20, 2009, at the Wayback Machine. Local storage can be disabled entirely or on a site-by-site basis. ^ "Release Notes - Flash Player 33". Internet Explorer 11 and Microsoft Edge Legacy, in Windows 8 and later, along with Google Chrome on all versions of Windows, came bundled with a sandboxed Adobe Flash plug-in.[13][14][15][16][17] Flash Player once had a large user base, and was a common format for web games, animations, and graphical user interface (GUI) elements embedded in web pages. ActionScript 3 also supports ECMAScript for XML (E4X), which allows XML data to be manipulated more easily. Archived from the original on July 25, 2017. ^ ARM netbooks struggle with video, apps Archived July 12, 2012, at the Wayback Machine. ^ "重橙网络" [Flash Center]. Archived from the original on January 6, 2013. ASVGuy. ^ "Security Advisory for Adobe Flash Player". ^ Update: Premium Features for Flash Player Archived from the original on January 6, 2014. Archived from the original on January 6, 2015. July 19, 2014, at the Wayback Machine, Adobe AIR and FP Blog ^ "Why will Premium Flash Player Features Kill Flash?". Flash Player 15". ^ Response to "Thoughts on Flash" Archived November 12, 2011, at the Wayback Machine, True Gryc Blog ^ "Adobe Gaming SDK". To play Flash content, users had to manually set a browser to prompt for Flash content, and then during each browser session enable Flash plugin for every site individually. Adobe. ^ "Macromedia - Macromedia - Macr 2010. Retrieved March 25, 2017. Archived from the original on April 4, 2012. Adobe Flash PlayerOriginal author(s) Future Wave Macromedia Developer(s) Adobe Inc. Zhongcheng Harman Initial release [anuary 1, 1996; 26 years ago (1996-01-01) Stable release(s) [±] Windows, macOS (China-specific variant) 34.0.0.211[1] / December 14, 2021; 55 days ago (2021-12-14)[2]Windows, macOS, Linux (HARMAN enterprise variant)50.x[3] / 2021; 1 year ago (2021-12-08)[7]Internet Explorer 11 and Edge Legacy (Embedded - Windows 8 and later)32.0.0.445[6] / October 13, 2020; 15 months ago (2013-09-10)[7]Android 4.0.x11.1.115.81 / September 10, 2013; 8 years ago (2013-09-10)[7]Solaris11.2.202.223 / March 28, 2012; 9 years ago (2012-03-28)[7]Preview English, French, German, Italian, Japanese, Polish, Russian, Portuguese, Spanish, Korean, Turkish, Xhosa, Telugu, Vietnamese, Afrikaans, Yiddish, Zulu, and Arabic[9]TypeRuntime system and browser extensionLicenseFreewareWebsite (active, HARMAN enterprise variant) Adobe Flash Player (formerly Macromedia Flash Player, and Known in Internet Explorer, Firefox, and Google Chrome as Shockwave Flash)[10] is computer software for content created on the Adobe Flash player, and known in Internet Explorer, Firefox, and Google Chrome as Shockwave Flash)[10] is computer software for content created on the Adobe Flash player (formerly Macromedia Flash Player). Flash Gaming Engines". Retrieved February 22, 2010. MainConcept. ^ a b "Flash Player Debug Downloads (China-specific)". Archived from the original on February 6, 2010. ^ "Macromedia Flash Player download center (Linux)". Retrieved January 17, 2021. msfn.com. Retrieved on March 11, 2011. Archived from the original on April 30, 2012. Flex 1.0 and Breeze 1.0 were released, both of which used the Flash Player as a delivery method but relied on tools other than the Flash authoring program to create Flash applications and presentations. Adobe.com. The install-base of the Flash Player reached 92 percent of all Internet users. Flash Player 10 added support for the JPEG. p. 205. Adobe.com (July 14, 2009). Retrieved July 22, 2018.;

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"Adobe's 'Partner' 2144 in China has suspicious ... The Verge. ^ "What Is a Local Shared Object?". FLV files can be played back from a server using HTTP progressive download, and can also be embedded inside an SWF file. ^ Mobile and Devices Developer Center: Sony PSP Archived May 25, 2010, at the Wayback Machine. Retrieved January 12, 2015
a b c Adobe Flash Player Versions Archived January 1, 2019, at the Wayback Machine, Adobe.com a b c d e f g h i j k l m n o p q "Archived Flash Player versions". October 15, 2009. labs.adobe.com. Archived Flash Player versions". October 15, 2009. labs.adobe.com. Archived Flash Player versions Archived Flash Player versions archived Flash Player versions.
and AdventureQuest (started in 2002, and still active as of 2020).[69] Availability Desktop platforms Adobe Flash Player is available in two major flavors: The plugin version for use in various web browsers The "projector" version is a standalone player that can open SWF files directly.[70][71] On February 22, 2012, Adobe announced that it would no
 longer release new versions of NPAPI Flash plugins for Linux, although Flash Player 11.2 would continue to receive security updates. [72][73][74] In August 2016 Adobe announced that, beginning with version 24, it will resume offering of Flash Player for Linux for other browsers. [75] The Extended Support Release (ESR) of Flash Player on macOS and
Windows was a version of Flash Player kept up to date with security updates, but none of the new features or bug fixes available in later versions. ^ "Flash vulnerability revealed for Android, fix coming November 9th". ^ a b "IT Threat Evolution: Q3 2012". CRC Press. Archived from the original on August 1, 2017. The same report also recommended
using browser extensions to disable Flash Player usage on untrusted websites. October 14, 2008. "Adobe Activation". ^ "Adobe Labs Downloads". As of 2021, most of these technologies are considered obsolete. Flash Video can also be streamed via RTMP using the Adobe Flash Media Server or other such server-side software. ^ SWX: SWF Data Format
Archived August 17, 2012, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived June 7, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2012, at the Wayback Machine, SWX Contest Winners Archived August 18, 2012, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 3, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2012, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format Archived August 18, 2014, at the Wayback Machine, Google Code ^ swx-format - Data Format - Data For
Format Website ^ Introducing SWXml Archived November 12, 2007, at the Wayback Machine, Aral Balkan ^ "Flash H.264". flash.cn. Retrieved May 20, 2021. 
ways of developing applications for Flash Player: Adobe Animate: graphic design, animation and scripting toolset Adobe Flash Builder: enterprise applications from source code; developed by Adobe Flash Builder: enterprise application development and debugging Adobe Scout: visual profiler for performance optimization Apache Flash Builder: enterprise application development and debugging Adobe Scout: visual profiler for performance optimization Apache Flash Builder: enterprise applications from source code; developed by Adobe Flash Builder: enterprise applications from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: enterprise application from source code; developed by Adobe Flash Builder: e
and donated to the Apache Foundation[62] CrossBridge: a free SDK to cross-compile C++ code to run in Flash Player Third-party development environments are also available: FlashDevelop: an open-source Flash ActionScript IDE CodeDrive: an
extension to Microsoft Visual Studio 2010 for ActionScript 3 development and debugging MTASC: a compiler Haxe: a multi-platform language[63] Game development Adobe Gaming SDK, consisting (as of August 2014[update]) of several open-source AS3 libraries built on the Flash Player Stage3D APIs
for GPU-accelerated graphics:[64] Away3D: GPU-accelerated 2D graphics and animation engine Starling: GPU-accelerated 2D graphics that mimics the Flash display list API Feathers: GPU-accelerated 2D graphics that mimics the Flash display list API Feathers: GPU-accelerated 2D graphics that mimics the Flash display list API Feathers: GPU-accelerated 2D graphics that mimics the Flash display list API Feathers: GPU-accelerated 2D graphics that mimics the Flash display list API Feathers: GPU-accelerated 2D graphics that mimics the Flash display list API Feathers: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics that mimics the Flash display list API Feathers: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics that mimics the Flash display list API Feathers: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and animation engine Starling Dragon Bones: GPU-accelerated 2D graphics and a
Player (Stage3D) as run-time environment, such as Unity 3D[65] and Unreal Engine 3.[65][66] Before the introduction of Stage3D, a number of older 2D engines or isometric engines like Flixel saw their heyday.[67] Adobe also developed the CrossBridge toolkit which cross-compiles C/C++ code to run within the Flash Player, using LLVM and GCC as
compiler backends, and high-performance memory-access opcodes in the Flash Player (termed "Domain Memory") to work with in-memory data quickly.[68] CrossBridge is targeted toward the game development industry, and includes tools for building, testing, and debugging C/C++ projects in Flash Player. Electronista (November 17, 2008). RTMP>
 Beginner's Guide to Distributing Flash Video Archived March 13, 2013, at the Wayback Machine, Adobe Press ^ Cross-domain policy file usage recommendations for Flash Player 9 and Flash Player 10 Archived August 18, 2014, at the Wayback Machine
 Adobe ^ "Sites which support crossdomain.xml to allow Flash and Silverlight access". Microsoft Edge, which is based on Chromium, will follow the same plan as Google Chrome locked the Flash plugin as "out of date" in January 2021, and fully removed it from the browser with Chrome version 88, released on January 20, 2021.
[130][131] Mozilla Firefox Starting with Firefox 85,[128] Flash is disabled by default without any prompts to activate Flash content. TCP: Support for Transmission Control Protocol (TCP) Internet socket communication to communicate with any type of server, using stream sockets. Archived from the original on October 15, 2012. Retrieved July 22,
2018. Archived from the original on January 27, 2010. Adobe Premium Features for Flash Player Archived August 21, 2014, at the Wayback Machine, Flash Player Dev Center, Adobe Cassella, Dena (February 1, 2010). gHacks Tech News. Archived from the original on October 20, 2012. In theory, these repacks should provide users outside of China
with the latest security updates to Flash Player, without having to deal with invasive advertisements or worry about privacy risks.[145] One such project, "Clean Flash EOL, South African Revenue Service (SARS) released a custom version of Chromium
browser with Adobe Flash "time bomb" removed. FutureWave Software, Inc. p. 16. ^ Tareq Aljaber (May 17, 2013). ^ "Adobe officially apologized[162] for not fixing a known vulnerability for over a year. Condé Nast. ^ "The End of an Era - Next Steps for Adobe Flash". Archived from the original
(PDF) on June 2, 2010. Archived from the original on August 8, 2014. Version 10 added a limited form of support for shaders on materials in the form of the Pixel Bender API, but still did not have GPU-accelerated 3D vertex processing.[41] A significant change came in version 11, which added a new low-level API called Stage3D (initially codenamed
Molehill), which provides full GPU acceleration, similar to WebGL.[42][43] (The partial support for GPU acceleration in Pixel Bender was completely removed in Flash 11.8, resulting in the disruption of some projects like MIT's Scratch, which lacked the manpower to recode their applications quickly enough.[44][45]) Current versions of Flash Player are
optimized to use hardware acceleration for video playback and 3D graphics rendering on many devices, including desktop computers. Retrieved March 13, 2015. "The Curious Case of FlashHelperService - Updated". ^ a b c "MACROMEDIA INTRODUCES FREE FLASH PLAYERS FOR LINUX, SOLARIS, IRIX USERS. Archived from the original on
October 15, 2008. Adobe Flash Player 11.3 (version 11.3.300.257) (June 8, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 26, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11, 2012) Adobe Flash Player 11.3 (version 11.3.300.265) (July 11.3.300.265) (July 11.3.300.265) (July 11.3.300.265) (July 11.3.300.265) (July 11.3.3
mobile Fullscreen interactive mode (keyboard input during fullscreen) Native bitmap encoding and compression (PNG, JPEG-XR) Draw bitmaps with quality (low, medium, high, best) Texture streaming for Stage3D Dropped support for Linux and Solaris Mobile-only Auto-orientation on specific devices USB debugging for AIR on iOS Adobe Flash
Player 11.3 (version 11.3.300.271) (September 18, 2012) Adobe Flash Player 11.4 (version 11.4.402.259) (August 10, 2012) Flash Player 11.4 (version 11.3.300.273) (October 3, 2012) Adobe Flash Player 11.4 (version 11.3.300.273) (October 3, 2012) (October 3
"constrained" profile for increased GPU reach LZMA support for ByteArray StageVideo attachCamera/Camera improvements Compressed texture with alpha support for Stage3D DXT encoding AIR only Deprecated Carbon APIs for AIR Direct AIR deployment using ADT Push notifications for iOS Ambient AudioPlaybackMode Exception support in Native
Extensions for iOS Adobe Flash Player 11.4 (version 11.4.402.265) (August 21, 2012) Adobe Flash Player 11.4 (version 11.4.402.278) (September 18, 2012) Adobe Flash Player 11.4 (version 11.4.402.287) (October 8, 2012) Adobe Flash Player 11.5 (208] Shared ByteArray Invoke Event enhancement (for openurl) Packaging multiple libraries in an ANE
 (iOS) Debug stack trace in release builds of Flash Player Statically link DRM (desktop only) Adobe Flash Player 11.6 (codenamed Folsom)[208] Lossless video export from standalone and authplay.dll Support for flash.display.graphics.readGraphicsData() that returns a Vector of IGraphicsData Improve permissions UI related to full screen keyboard
 access Prevent ActiveX abuse in Office documents Support file access in cloud on Windows Enhance multi-SWF support Migration certification for ANEs RectangleTexture File API update so AIR apps conform to Apple data storage guidelines Separate sampler state for Stage3D Set device specific Retina Display resolution (iOS) Adobe Flash Player 11.7
(version 11.7.700.169, codenamed Geary) (April 9, 2013)[208] SharedObject.preventBackup property forceCPURenderModeForDevices Remote hosting of SWF files in case of multiple SWFs Support for uploading 16-bit texture formats GameInput updates Android - create captive runtime apps Adobe replaced Extended Support Release 11.7 on Mac
and Windows with 13.0 on May 13, 2014.[209] Adobe Flash Player & AIR Desktop Game Pad Support for large textures (extended Baseline, 4096) Rectangle texture DatagramSocket ServerSocket Substitute a redirected URL from a
source URLRequest for part of the URL in a new URLRequest Adobe Flash Player 11.9 (codenamed Irving)[208] OS X Mavericks Support Mac .pkg Installation Support for the work flow and UI Support for Internet Explorer 11 on Windows 7
Support for Safe Mode in Safari 6.1 and higher 64-bit PPAPI Flash Player for Google Chrome Graphics: Buffer Usage flag for Stage3D Adobe Flash Player 13 (codenamed King)[211][212] Supplementary Characters Enhancement Support Release.
[209] Adobe Flash Player 14 (version 14.0.0.125, codenamed Lombard) (June 10, 2014)[213] Stage 3D Standard profile Adobe Flash Player 14 (version 14.0.0.145) (July 8, 2014) Adobe Flash Player 15 (version 14.0.0.152, codenamed Market) (September 9, 2014)[214] Improved support for
  browser zoom levels Adobe Flash Player 15 (version 15.0.0.167) (September 23, 2014) Adobe Flash Player 15 (version 15.0.0.223) (November 11, 2014) Adobe Flash Player 16 (version 15.0.0.235, codenamed Natoma) (December 9, 2014) [215] Stage3D - Standard Constrained Profile PPAPI Installers for Windows and Mac Adobe Flash Player 16 (version 15.0.0.223)
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 Player 32 (version 32.0.0.363) (April 14, 2020) Adobe Flash Player 32 (version 32.0.0.371) (May 12, 2020) Adobe Flash Player 32 (version 32.0.0.387) (June 9, 2020) Refuses to play Flash content after January 12, 2021, and instead displays a static warning message. MP3 files can be accessed and played back from a server via HTTP, or embedded inside
an SWF file, which is also a streaming format. Retrieved February 18, 2021. Archived from the original on March 22, 2015. Android users have been recommended to disable Flash or make it only on demand.[166] Subsequent security vulnerabilities also exposed Android users, such as the two critical vulnerabilities published in February 2013[167] or
the four critical vulnerabilities published in March 2013,[168] all of which could lead to arbitrary code execution. Adobe (July 16, 2007). In August 2016, Adobe discontinued the ESR branch and instead focused solely on the standard release. [76] Release history for desktop operating systems Operati
Windows XP SP2-11 1 34.0.0.211 (China-specific)[77]50.x (HARMAN enterprise)[78]32.0.0.465 (last public update, excluding China)[79] 2017-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-present2021-p
32,PPC)-10.5 (PPC) 10.1.102.64[80] 2005-2011 10.1-10.3 9.0.289.0[80] 2001-2011 Classic Mac OS 7.6.1-9.2.2 (PowerPC) 1 7.0.14.0[80] 1997-2005 7.6.1-8.1 (68k) 3[81] 1997-1998 Linux desktops 4.0r12[83][84] 50.x (HARMAN enterprise)[78]34.0.0.137 (last public update, China-specific)[85]32.0.0.465 (last public update, excluding China)[79] 2021-
 present 2017-2021 [86] 1999-2020 Solaris and Open Solaris and Open Solaris and Open Solaris and 10.3.183.90 [80] 11.2.202.223 and 10.3.183.90 [80] 2004-2013 IRIX 4.0r12 [83] 4.0.r12 [83] 
have been available at some point for BeOS.[citation needed] Mobile platforms See also: Adobe Integrated Runtime and Adobe Flash Lite In 2011, Flash Player had emerged as the de facto standard for online video publishing on the desktop, with adaptive bitrate video streaming, DRM, and fullscreen support.[30][31] On mobile devices, however, after
Apple refused to allow the Flash Player within the inbuilt iOS web browser, Adobe changed strategy, enabling Flash content to be delivered as native mobile applications using the Adobe Security Bulletin". ^ Smedberg, Benjamin (July 25, 2017). '
Melanson, Mike (December 4, 2007). "Help / Uninstall (old-version) Flash Player (if installation is unsuccessful)". Archived March 15, 2012, at the Wayback Machine, Unit Zero One AS3 vs haXe performance, SplashDust website Archived
January 5, 2013, at the Wayback Machine ^ Optimizing performance of applications for connected TVs Archived August 22, 2016, at the Wayback Machine, FlexWiz ^ Flex versus ActionScript - the debate gets new
life Archived December 9, 2014, at the Wayback Machine, Greg's Ramblings ^ Pure ActionScript + MadComponents vs. ^ "Adobe Releases Last Linux Version of Flash Player - Slashdot". It continues to be able to play all supported Flash file formats, including SWF files.[148][71][144] Content preservation projects Main article: Adobe Flash § Content
preservation projects The Internet Archive hosts some Flash content and makes it playable in modern browsers via emulators, Ruffle and Emularity.[149] Other emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, Ruffle and Emularity.[149] Other emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, and the Flash Player emulators for Flash Player emulators, such as CheerpX, also exist as options for Flash Player emulators, and the Flash Player emulators for Flash Pla
 Player games and animations and made them available for download. [151] Open source Main article: Adobe Flash § Open Source Adobe has released some components of Adobe Flash products as open source software via Open Source Adobe has released some components of Adobe Flash products as open source Software via Open Source Adobe has released some components of Adobe Flash products as open source software via Open Source Adobe has released some components of Adobe Flash products as open source Software via Open Source Adobe has released some components of Adobe Flash products as open source Adobe has released some components of Adobe Flash § Open Source Adobe has released some components of Adobe Flash § Open Source Adobe has released some components of Adobe Flash products as open source Adobe has released some components of Adobe Flash § Open Source Adobe has released some components of Adobe Flash § Open Source Adobe has released some components of Adobe Flash § Open Source Adobe has released some components of Adobe Flash § Open Source Adobe has released some components of Adobe Flash § Open Source Adobe has released some components of Adobe Flash § Open Source Adobe Fl
 "Shockwave Flash" redirects here. Retrieved October 14, 2008. Archived from the original on May 14, 2012. ^ "Every Flash game disappears forever in 2020 - but this project has preserved 38,000 of them". Flash Player 11 can also encode a PNG bitmap via ActionScript. ^ a b Alchemy: FAQ Archived May 5, 2012, at the Wayback Machine, Adobe Labs
  ^ a b Optimizing ActionScript Bytecode using LLVM Archived May 11, 2012, at the Wayback Machine, Adobe ^ a b Adobe Alchemy, is it ActionScript heresy? Archived from the original on March 25, 2017. ^ "Adobe update on 6/12/18 include 2144 game cente... February 7, 2013. "Where can I find the "Extended Support Release" of Flash Player for
 Windows or Macintosh?". ^ "McAfee Threats Report: Fourth quarter 2009" (PDF). Release history Adobe Flash Player version history FutureSplash Player 2 (June 17, 1997) Mostly vectors and motion, some bitmaps, limited
audio Support of stereo sound, enhanced bitmap integration, buttons, the Library, and the ability to tween color changes Macromedia Flash Player 3 (May 31, 1998) Added alpha transparency, licensed MP3 compression Brought improvements to animation, playback, digital art, and publishing, as well as the introduction of simple script commands for
interactivity Macromedia Flash Player 4 (June 15, 1999) Saw the introduction of streaming MP3s and the Motion Tween. September 4, 2020. AIR also includes added features such as file system integration, native extensions, native desktop integration, and hardware integration with connected devices. April 7, 2016. "For Flash on Linux, Chrome Will Be
Users' Only Choice | PCWorld Business Center". Die". ^ "You can now uninstall Flash on Windows 10 and 8.1 using KB4577586". ^ Barrett, Brian (July 15, 2015). "Google's new Chrome 88 update improves dark mode, removes FTP and Adobe Flash". (March 4, 2002) Macromedia and Sorenson Media bring video to Macromedia Flash content and
 applications, Retrieved on August 9, 2009 ^ "Adobe Completes Acquisition of Macromedia". "Adobe wants users to uninstall Flash Player by the end of the year". Game Design Secrets. Retrieved November 20, 2021. adobe.com. Currently, it's developed and distributed by Zhongcheng for users in China, and by Harman International for enterprise users
 outside of China, in collaboration with Adobe. Retrieved October 20, 2015. ^ a b "Adobe - Flash Player". Minerva Labs. Retrieved October 31, 2010. April 5, 2012. "Reaching the Limits of Adobe Stupidity - whitespace". RTMP supports a non-encrypted version over the Transmission Control Protocol (TCP) or an encrypted version over a secure Transport
Layer Security (SSL) connection. June 26, 2018. Retrieved January 23, 2014. AIR 3 Archived August 21, 2014, at the Wayback Machine, Adobe "What are local shared objects?". scratch.mit.edu. However, many educational institutions still relied on Flash for educational material and did not have a path forward for replacement.[139] Post-EOL
support Adobe has partnered with HARMAN to support enterprise Flash Player users until at least 2023.[140][141] The HARMAN Flash player variant is labeled as version 50.x, to avoid confusion with other variants.[78] The Projector
(standalone) versions of this variant also work just fine outside of China and do not include the "Flash Helper Service"; however, some tracking code still seems to be present. BBC News. Retrieved May 20, 2011. ^ "Why You Should Ditch Adobe Shockwave". Archived from the original on May 28, 2010. Archived from the original on June 4, 2016. "However, some tracking code still seems to be present."
to really fix the latest Adobe Flash security hole". July 22, 2020. ^ a b Download Macromedia Flash Player 7 for Pocket PC Archived January 19, 2014, at the Wayback Machine. Retrieved February 7, 2021. Retrieved January 25, 2021. Sign in to review and
manage your activity, including things you've searched for, websites you've visited, and videos you've watched. XML: Flash Player 11 includes native support for XML parsing and generation since version 8. Retrieved January 14, 2021. JSON: Flash Player 11 includes native support for importing and exporting data in the JavaScript Object Notation
(JSON) format, which allows interoperability with web services and JavaScript programs. Archived October 11, 2012, at the Wayback Machine, ActionScript 3 API Reference ^ Socket Archived October 20, 2012, at the Wayback Machine, ActionScript 3.0 Developer's Guide ^ Setting up a
socket policy file server Archived August 3, 2014, at the Wayback Machine, Google Code ^ Remi Arnaud (2011). "Firefox Roadmap for Flash End-of-Life". ^ "ADOBE® FLASH® PLAYER ENTERPRISE SUPPORT". ISBN 978-1-118-46391-8. Flash Player 11 can
  also encode a JPEG or JPEG-XR bitmap via ActionScript. Retrieved April 25, 2016. It supports the following different multimedia formats which it can natively decode and play back. Archived from the original on June 9, 2000. "These Places Were Not Ready for Flash to Die". It can execute software written in the ActionScript programming
12, 2018, at the Wayback Machine (explains official old working version check) Retrieved from " Packt Publishing Ltd. Codeazur.com.br. ISBN 978-1-56881-437-7. Last version 8.0.22.0, codenamed Maelstrom) (September 13, 2005) Support for runtime loading of GIF and
portfolio (including Flash).[194] Macromedia Flash Player 8 (version 8.0.24.0) (April 23, 2006) Introduction of ActionScript Virtual Machine 2 (AVM2) with AVM1 retained for compatibility ActionScript 3 (a superset of ECMAScript 3) via
AVM2 E4X, which is a new approach to parsing XML Support for regular expressions and namespaces AVM2 donated to Mozilla Foundation as open-source virtual machine named Tamarin Adobe Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9, 2006)[195] Support for fullscreen mode[196] Adobee Flash Player 9 Update 1 (version 9.0.28.0, codenamed Marvin) (November 9.0.28.0, c
can be manipulated using ActionScript. "Adobe to Remove Flash Download Links, Recommends People Uninstall It Now". ^ Pudelek, Jakub (July 25, 2017). ^ "Macromedia Flash Remoting, which allows for seamless transmission of data
between the server and the client, and ColdFusion Server. ^ "Security Advisory for Flash Player, Adobe Reader and Acrobat". Retrieved January 26, 2021. Kb2.adobe.com. Try it today! Content and code samples on this page are subject to the licenses described in the Content License. ^ a b c d e "Adobe® Flash® Player Enterprise Support".
Blogs.adobe.com. The H. ^ "aminnes - Project Hosting on Google Code". pp. 37, 40, 42. ^ Integrated Adobe Flash Player issues |
Windows 8". Archived from the original on October 5, 2009. Retrieved December 5, 2007. Archived from the original on November 11, 2014. ZDNet. Newsdee.com. "Adobe to charge Flash coders to use 'premium' features". "Thoughts on Flash". ^ Lardinois, Frederic. Retrieved May 9, 2010. Two years later it shipped with all releases of Windows XP.
 SprachenAfrikaansazərbaycanbosanskicatalàČeštinaCymraeqDanskeestiEnglishUnited KingdomEnglishUnited
coming early next year. Retrieved February 15, 2014. All premium features are now classified as general availability, and can be freely used by Flash applications. [183] Apple controversy Main article: Thoughts on Flash In April 2010, Steve Jobs, at the time CEO of Apple Inc. Archived from the original on May 19, 2019. Archived from the original on
Guidelines - AV Addendum v1.5 Archived September 30, 2013, at the Wayback Machine BBC ^ Protocols: HTTP vs. Retrieved January 2, 2013. November 11, 2014. Blogs.telegraph.co.uk. Android app developers are encouraged to use Adobe Air and Android web developers should switch to HTML5. A version test page allows the user to check if the
latest version is installed, and uninstallers may be used to ensure that old-version plugins have been uninstalled from all installed browsers. Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers. Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers." Archived from the original on May 16, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers. Archived from the original on May 18, 2017. ^ "Adobe Reader had 49 vulnerabilities, and uninstalled browsers. ^ "Adobe Reader had 49 vulnerabilities, and a constalled browsers. ^ "Adobe Reader had 49 vulnerabilities, and a constalled brows
QuickTime had 27 vulnerabilities, and Adobe Flash Player was subject to 23 vulnerabilities. Archived from the original on October 2, 2014. August 12, 2014. Archived from the original on April 22, 2014. August 12, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on April 22, 2014. August 12, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2014. Archived from the original on October 2, 2015. January 28, 2015. January 29, 2015. January 2015. Jan
Windows and Macintosh". ^ Macromedia, Inc. "Get ready to finally say goodbye to Flash — in 2020". December 9, 2014. Retrieved October 4, 2020. Retrieved July 27, 2020. In 2004, the "Flash Platform" was introduced. "Steve Jobs Unleashes His Fury During Town Hall Meeting". July 25, 2017. RTMPT can also be encapsulated within HTTP requests to
cookies and Web Storage can be used. Retrieved August 10, 2016. This expanded Flash to more than the Flash authoring tool. "Extended Support Release - Flash Player 11.7". Eetimes.com (April 14, 2009). Retrieved November 25, 2012. ^ "12/9/2014 - Release - Flash Player 10.1 and upward honor the privacy mode settings.
in the latest versions of the Chrome, Firefox, Internet Explorer, and Safari web browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers, such that no local storage data is saved when the browsers are not 
issues addressed when a release closes security holes, making it difficult to evaluate the urgency of a particular update. ^ Max, Jose. Retrieved October 3, 2020. V2 Components replaced Flash MX's components, being rewritten from the ground up to take advantage of ActionScript 2.0 and object-oriented principles. Adobe Flash Player 32 (version
32.0.0.403) (July 14, 2020) Adobe Flash Player 32 (version 32.0.0.414) (August 11, 2020) Adobe Flash Player 32 (version 32.0.0.445) (October 13, 2020) Adobe Flash Player 32 (version 32.0.0.445) (October 13, 2020) Adobe Flash Player 32 (version 32.0.0.445) (December 8, 2020) Final
global variant update. Retrieved October 29, 2011. Störungen prüfen und Maßnahmen gegen Spam, Betrug oder Missbrauch ergreifenDaten zu Zielgruppeninteraktionen und Websitestatistiken erheben, um zu verstehen, wie unsere Dienste verwendet werdenWenn Sie zustimmen, verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwendet werdenWenn Sie zustimmen, verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Dienste verwenden wir Cookies und Daten auch für Folgendes:Qualität unseren Daten auch
kann davon abhängen, welche Inhalte Sie sich gerade ansehen und wo Sie sich befinden (die Anzeigenbereitstellung basiert auf dem allgemeinen Standort). Flash Lite 1.1 was also released, enabling mobile phones to play Flash content. Initially, the Flash Player plug-in was not bundled with popular web browsers and users had to visit Macromedia
 website to download it. PNG: Support for decoding and rendering Portable Network Graphics (PNG) images, in both its 24-bit (opaque) and 32-bit (semi-transparent) variants. November 1, 2012. Archived from the original on December 15, 2014. Retrieved January 14, 2013. Archived from the original on December 15, 2014. Retrieved January 14, 2013. Archived from the original on December 15, 2014. Retrieved January 14, 2015.
September 7, 2010. Retrieved April 4, 2012. FLV: Support for decoding and playing back video and audio inside Flash Video (FLV and F4V) files, a format developed by Adobe Systems and Macromedia. pp. 208–212. The above Flash Player EOL Enterprise Information Page". In a move to further reduce the number of Flash Player installations, Adobe
added a "time bomb" to Flash to disable existing installations after January 12, 2021.[124] In mid-2020, Flash Player started prompting users to uninstall itself.[125] Adobe removed all existing download links for Flash installers.[126] After January 26, 2021, all major web browsers including Apple Safari, Google Chrome, Microsoft Edge, and Mozilla
need" },{ "type": "thumb-down", "id": "tooComplicatedTooManySteps", "label":"Too complicated / too many steps" },{ "type": "thumb-down", "id": "otherDown", "id": "otherDown", "id": "otherDown", "id": "otherDown", "id": "type": "thumb-down", "id": "otherDown", 
"id": "easyToUnderstand", "label":"Easy to understand" }, { "type": "thumb-up", "id": "solved my problem" }, { "type": "thumb-up", "label":"Other" }] Data helps make Google services more useful for you. June 14, 2018. ^ "Firefox for Enterprise 93 - Release notes | Firefox for Enterprise Help". ^ "Flash Player 5
Archive". harman.com. March 12, 2014. Archived from the original on September 19, 2014. Retrieved July 13, 2021. ^ future of Flash Archived from the original on February 5, 2015. Wired.com. ^ "Flash Player 11 and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved July 13, 2021. ^ future of Flash Archived from the original on February 5, 2015. Wired.com. ^ "Flash Player 11 and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved July 13, 2021. ^ future of Flash Archived from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ "Flash Player 11" and AIR 3 Release Notes: 10/04/11". ^ Cimpanu, Catalin (June 24, 2020). Retrieved from the original on February 5, 2015. Wired.com. ^ The original on February 5, 2015. Wired.com. ^ The original on February 5, 2015. Wired.com. ^ The or
October 13, 2021. ^ "InnoTek Systemberatung GmbH". Archived from the original on September 12, 2019. Adobe Developer Center. Adobe Flash Player 9 Update 2 (version Mac/Windows 9.0.47.0 and Linux 9.0.48.0, codenamed Hotblack) (June 11, 2007) Security update Adobe Flash Player 9 Update 3 (version 9.0.115.0, codenamed Moviestar or
10.0.12.36, codenamed Astro) (October 15, 2008) New features 3D object transformations Custom filters via Pixel Bender Advanced text support Speex audio codec Real Time Media Flow Protocol (RTMFP) Dynamic sound generation Vector data type Enhanced features 12, 2008) New features 2D object transformations Custom filters via Pixel Bender Advanced text support Speex audio codec Real Time Media Flow Protocol (RTMFP) Dynamic sound generation Vector data type Enhanced features 2D object transformations Custom filters via Pixel Bender Advanced text support Speex audio codec Real Time Media Flow Protocol (RTMFP) Dynamic sound generation Vector data type Enhanced features 2D object transformations Custom filters via Pixel Bender Advanced text support Speex audio codec Real Time Media Flow Protocol (RTMFP) Dynamic sound generation Vector data type Enhanced features 2D object transformations Custom filters via Pixel Bender Advanced text support Speex audio codec Real Time Media Flow Protocol (RTMFP) Dynamic sound generation Vector data type Enhanced features 2D object transformation Vector data type Enhanced 2D object transformation Vector data type Enhanced 2D object transformation Vector data typ
Anti-aliasing engine (Saffron 3.1) Read/write clipboard access WMODE Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) Adobe Flash Player 10 (version 10.0.42.34) (November 16, 2009) (November 16, 2009) (Nov
Use of Core Animation Adobe Flash Player 10.2 (version 10.2.152.26, codenamed Spicy) (February 8, 2011) Stage Video, a full hardware-accelerated video pipeline Internet Explorer 9 hardware-accelerated video pipeline Internet Inte
(version 10.2.152.32) (February 28, 2011) Adobe Flash Player 10.2 (version 10.2.153.1) (March 21, 2011) Adobe Flash Player 10.2 (version 10.2.153.1) (March 21, 2011) Adobe Flash Player 10.2 (version 10.2.153.1) (March 21, 2011) Adobe Flash Player 10.3 (version 10.2.153.1) (March 21, 2011) Adobe Flash Player 10.2 (version 10.2.153.1) (March 21, 2011) Adobe Flash Player 10.3 (version 10.2.153.1)
 (unofficially bypassing the XP installer) Adobe replaced Extended Support Release 10.3 by 11.7 on July 9, 2013.[202] Adobe Flash Player 10.3 (version 10.3.181.23) (June 5, 2011) Adobe Flash Player 10.3 (version 10.3.181.24) (June 5, 2011) Adobe Flash Player 10.3 (version 10.3.181.26)
(August 14, 2011) Adobe Flash Player 10.3 (version 10.3.183.1) (November 11, 2011) Adobe Flash Player 10.3 (version 10.3.183.2) (September 18, 2012) Adobe Flash Player 10.3 (version 10.3.183.1) (November 11, 2011) Adobe Flash Player 10.3 (version 10.3.183.1)
Adobe Flash Player 11 (version 11.0.1.152, codenamed Serrano) (October 4, 2011)[203] Desktop only Stage 3D accelerated graphics rendering[204] Desktop: Windows (DirectX 9), OS X (Intel processor only) and Linux (OpenGL 1.3), SwiftShader fallback Mobile: Android and iOS (OpenGL ES 2) H.264/AVC software encoding for cameras Native 64-bit
Asynchronous bitmap decoding TLS secure sockets Desktop and mobile Stage Video hardware acceleration Native extension libraries[205] Desktop: Windows (.dll), OS X (.framework) Mobile: Android (.jar, .so), iOS (.a) JPEG XR decoding G.711 audio compression for telephony Protected HTTP Dynamic Streaming (HDS) Unlimited bitmap size LZMA
extensions for AIR StageText: Native text input UI for Android Security enhancements, last official version 11.1.102.62) (March 5, 2012) Adobe Flash Player 11.2 (version 11.2.202.233) (April 12, 2012) Adobe Flash Player 11.2
(version 11.2.202.235, codenamed Brannan) (May 3, 2012)[207] The Windows version offers automatic updater options[156] Dropped support of the browser plug-in for mobile devices (Android). Archived from the original on April 6, 2013. ^ "Flash Player on Adobe Support Community". Retrieved July 25, 2017. Adobe AIR and Adobe Flash Player Team
 Blog. Retrieved April 25, 2015. Archived from the original on April 25, 2015. "Flash Player 10.1 Now Available for Windows, Mac, and Linux " Adobe AIR and Adobe Flash Player Team Blog". Sockets can be used only via ActionScript, and can transfer plain text, XML, or binary data (ActionScript 3.0 and later).[37][38] To prevent security issues, web
servers that permit Flash content to communicate with them using sockets must host an XML-based cross domain policy file, served on Port 843.[39] Sockets enable AS3 programs to interface with any kind of server software, such as MySQL.[40] Performance Hardware acceleration Until version 10 of the Flash player, there was no support for GPU
acceleration. "Adobe rushes out emergency update for 'critical' Flash Player for Android: Adobe calls time, declares it dead". ^ a b "Upcoming changes to Flash Player's extended support release". Startup time is reduced since the Flex framework must be downloaded before the application begins, and weighs in at approximately
500KB. ^ Warren, Tom (July 25, 2017). Further reading Understanding Flash Player and the Adobe Scout profiling tool External links Official website Adobe Flash Player and the Player and the Adobe Scout profiling tool External links Official website Adobe Flash Player.
Archived June 22, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived July 8, 2012, at the Wayback Machine, Adobe ^ Adobe abandons Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets Archived November 14, 2012, at the Wayback Machine, Adobe ^ Flash Platform Certified Devices: Tablets 
2011, at the Wayback Machine, CBS News Adobe abandons Flash for mobile devices Archived July 9, 2016, at the Wayback Machine. October 28, 2011. Retrieved February 21, 2015. Retrieved October 28, 2020. March 5, 2014. Retrieved
November 17, 2016. Archived from the original on February 10, 2010. ^ a b c d e "Flash Player and Adobe AIR feature list". ^ "Adobe Flash 11 adopts Unreal Engine 3 for better browser games | The Verge". Archived from the original on August 9, 2016. Maemo.nokia.com. ^ Huang, Emmy (November 15, 2006). Retrieved November 21, 2021. "3D in a
Web Browser". Various open-source components at significantly smaller SWF file sizes.[60][61] In both methods, developers can access the full Flash Player set of functions, including text, vector graphics, bitmap graphics, video, audio,
camera, microphone, and others. ^ "关于Linux操作系统下Flash Player个人版停用的公告". Starting in 2021, however, this variant is the only publicly supported version of Flash Player. ^ Adobe Success Story: LeapFrog Enterprises Archived October 14, 2007, at the Wayback Machine (Taken July 7, 2006). PCGamesN. ^ "Adobe roadmap for the Flash
Player". In Eric Lengyel (ed.). ^ Shankland, Stephen (March 28, 2014). End of life See also: Adobe Flash § End of life Adobe announced on July 25, 2017, that it would end support for the normal/global variant of Flash Player on January 1, 2021, and encouraged developers to use HTML5 standards in place of Flash.[117][118] The announcement was
coordinated with Apple,[119] Facebook,[120] Google,[121] Microsoft,[122] and Mozilla.[123] Adobe announced that all major web browsers planned to officially remove the Adobe Flash Player component on December 31, 2020, and Microsoft removed it from the Windows OS in January 2021 via Windows Update. Retrieved January 21, 2021. p. 9.
ISBN 978-1-84969-169-7. McAfee Labs. ^ "2010 Threat Predictions" (PDF). ^ a b Web Players Archived August 21, 2014, at the Wayback Machine. Symantec. ^ "FutureSplash Player 1.1". Its usage has also waned because of modern web standards that allow some of Flash's use cases to be fulfilled without third-party plugins.[19][20][21] Features
Adobe Flash Player is a runtime that executes and displays content from a provided SWF file, although it has no in-built features to modify the SWF file at runtime. Zu diesen gehören zum Beispiel Steuerelemente, um Cookies für die Personalisierung zu deaktivieren, oder Informationen zu Steuerelementen auf Browserebene, mit denen einige oder alle
Cookies für andere Zwecke deaktiviert werden können. JPEG: Support for decoding and rendering compressed JPEG images. (June 16, 2016). Last updated 2022-01-12 UTC. Many of these were resolved in the weeks after the deadline. ^ "New info on the firmware updates for PS3 and PSP". FlashRealtime.com. Archived from the original on February
22, 2014. TorrentFreak. Archived from the original on September 17, 2001. The remaining four vulnerabilities affected extensions for Firefox." ^ "Adobe Patches Flash Player 17". ^ Christer Kaitila (2011). Archived from the original on October 22, 2011. It is not to be confused within the original on October 22, 2011.
Adobe Shockwave. Retrieved July 14, 2021. Disabling local storage will block any content from saving local user information using Flash Player, but this may disable or reduce the functionality of some websites, such as saved preferences or high scores and saved preferences are highly saved preferences saved preferences are
June 8, 2010. Retrieved November 28, 2015. "Flash Player 9 Update 3 (Final)". April 22, 2015. ^ "8/12/2014 - Release - Flash Player 14". "FC64 - Flash Player 14". "FC64 - Flash Player 9 Update 3 (Final)". April 22, 2010. p. 2. ThreeSpeech. Kaspersky
Lab ZAO. "Flash Back! Further Thoughts on Flash at the Internet Archive". Archived from the original on July 22, 2018. MP3: Support for decoding and playback of streaming MPEG-2 Audio Layer III (MP3) audio was introduced in Flash Player 4. Archived from the original on January 10, 2016. Apple. Retrieved May 9, 2013. Linux.slashdot.org.
Symantec Global Internet Threat Report for 2009 Archived August 4, 2010, at the Wayback Machine, page 40, "In 2009, Symantec documented 321 vulnerabilities affecting plug-ins for Web browsers (figure 9). This includes removing the "Flash Helper Service" and removing the China only installation restriction, along with all other geo-restrictions and
tracking code. Adobe Systems Incorporated. ^ a b c d e "Archived Flash Player versions". ^ a b "Firefox 85.0, See All New Features, Updates and Fixes". Originally created by FutureWave in 1996. forums.adobe.com. | Technology > Software
Services & Applications from AllBusiness.com". Retrieved February 3, 2021. ^ Open Source Flash C++ Compiler, CrossBridge Archived September 20, 2017, at the Wayback Machine, Adobe Gaming GitHub Website ^ "Flash Player Help / Installation
problems". This includes: ActionScript Virtual Machine 2 (AVM2) which implements ActionScript 3 (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-source to Mozilla Foundation), Adobe Flex Framework (donated as open-s
on GitHub).[152][153] Criticism Accessibility and usability In some browsers, prior Flash version shave had to be uninstalled before an updated version 11.2 for Windows, there are now automatic updater options.[156] Linux is partially supported,
§ Flash cookies Flash Player supports persistent local storage of data (also referred to as Local Shared Objects), which can be used similarly to HTTP cookies or Web Storage in web applications. Archived from the original (PDF) on February 15, 2010. The vulnerability could be exploited for remote code execution.[177][178] Vendor lock-in Main article
 Adobe Flash \ Vendor lock-in Flash Player 11.2 does not play certain kinds of content unless it has been digitally signed by Adobe, following a license obtained by the publisher directly from Adobe. [179] This move by Adobe, together with the abandonment of Flex to Apache was criticized as a way to lock out independent tool developers, in favor of
Adobe's commercial tools.[180][181][182] This has been resolved as of January 2013, after Adobe no longer requires a license or royalty from the developer. Generation of Flash content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash Content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash Content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash Content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash Content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash Content in its Enterprise Edition. October 28, 2020. "Adobe Delivers Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the developer. Generation of Flash Player 9 with H.264 in the develope
Video Support". Archived from the original on July 6, 2017. ^ "Chinese repacks". They are available on a somewhat hidden "Debug" page.[144] In addition, as the global variant to bring it more in line with the global variant. ^ a b "Patch for
 Adobe Flash". A Roter, Tom (February 10, 2021). Richmond, Shane. creative.adobe.com. Retrieved October 27, 2012. Apple co-founder Steve Jobs was highly critical of Flash on its iOS device family. December 5, 2005. A "time bomb", similar to the one found
 in later versions of the global variant, is also present in the unmodified China variant; this is also removed in most repacks. Krebs on Security. ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving developers a formal object-oriented approach to ActionScript 2.0 was also introduced, giving a formal object-oriented approach to ActionScript 2.0 was also introduced, giving a formal object-oriented approach and a formal o
  "Private browsing in Flash Player 10". Macromedia Flash Player / (version /.0.14.0, codenamed Mojo) (September 10, 2003) Supports Action Script 2.0, an object-oriented programming language for developers Ability to create charts, graphs and additional text effects with the new support for
extensions (sold separately), high fidelity import of PDF and Adobe Illustrator 10 files, mobile and device development environment. Must. ^ a b c "Flash Player was discontinued on 31 December
2020, and its download page disappeared two days later. Personalisierte Inhalte und Werbeanzeigen können ebenfalls darauf basieren, darüber hinaus aber auch auf Aktivitäten wie Suchanfragen bei Google und Videos, die Sie sich bei YouTube ansehen. ^ "Exploring full-screen mode in Flash Player 9". John Wiley & Sons. Flash.cn. ^ "Adobe Flash
Player 11.8 - Bug 3591185: Pixel Bender shader performance drastically degraded in FP11.8. Closed as "NeverFix"". Retrieved October 8, 2021. SWF: The specification for the SWX Format project, which used the SWF file format and AMF as a means for Flash applications to
exchange data with server side applications. [24][25] The SWX system stores data as standard SWF bytecode which is automatically interpreted by Flash Player. [26] Another open-source project, SWXml allows Flash applications to load XML files as native ActionScript objects without any client-side XML parsing, by converting XML files to SWF/AMF on
the server.[27][28] Multimedia formats Flash Player is primarily a graphics and multimedia platform, and has supported raster graphics and vector graphics and vector graphics and vector graphics since its earliest version. ^ "Web Storage Settings Panel", Retrieved November 19, 2010, the exclusive and official distributor of Adobe Flash Player ^ Cimpanu, Catalin (December 9, 2020), In
June 2010 Adobe announced a "critical vulnerability" in recent versions, saying there are reports that this vulnerability is being actively exploited in the wild against both Adobe Flash Player, and Adobe Reader and Acrobat.[163][164] Later, in October 2010, Adobe announced[165] another critical vulnerability, this time also affecting Android-based
mobile devices. The player can also access certain connected hardware devices, including the web cameras and microphones, after permission for the same has been granted by the user. TechCrunch. CNET. ^ Adobe Flash Player Archived October 13, 2011, at the Wayback Machine, Android Market ^ Maemo software | Nokia > Maemo Browser
Archived December 29, 2009, at the Wayback Machine. ^ "Adobe Introduces Premium Features for Gaming with Flash Player 11.2; Announces Collaboration with Unity Technologies". May 14, 2014. ^ Macromedia - Flash Player 11.2; Announces Collaboration with Unity Technologies".
original on May 5, 2012. Archived from the original on February 3, 2008. ^ CrossBridge for Flash Player Archived September 20, 2017, at the Wayback Machine, GitHub ^ Remi Arnaud (2011). Flash Video is used by YouTube,[30] Hulu,[31] Yahoo! Video, BBC Online,[32] and other news providers. | Adobe Community". Flash Video is only a container
format and supports multiple different video codecs, such as Sorenson Spark, VP6, and more recently H.264.[29] Flash Player uses hardware acceleration and OpenGL to do so. Up until 2012, Flash Player 11 was available for the Android (ARM Cortex-A8 and above),
[91] although in June 2012, Google announced that Android 4.1 (codenamed Jelly Bean) would not support Flash by default.
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