NetSurf

NetSurf is an <u>open-source</u> <u>web browser</u> which uses its own <u>layout engine</u>. Its design goal is to be lightweight and <u>portable</u>. NetSurf provides features including tabbed browsing, bookmarks and page thumbnailing.

The NetSurf project was started in April 2002 in response to a discussion of the deficiencies of the RISC OS platform's existing web browsers.^[3] Shortly after the project's inception, development versions for RISC OS users were made available for download by the project's <u>automated build system</u>. NetSurf was voted "Best non-commercial software" four times in Drobe Launchpad's annual RISC OS awards between 2004 and 2008.^{[4][5][6][7]}

NetSurf supports both mainstream systems (e.g. <u>macOS</u> and <u>Unix-like</u>) and older or uncommon platforms (e.g. <u>AmigaOS</u>, <u>Haiku</u>, <u>Atari TOS</u> and <u>RISCOS</u>).

The browser was ranked in 2011 as number 8 in an article highlighting 10 browsers for <u>Linux</u> published in <u>TechRepublic</u> and <u>ZDNet</u>. [8][9] It was referred to in 2010 as a superior CLI browser to w3m. [10]

Contents

Features

History

Ports

See also

External links

References

Features

NetSurf's multi-platform core is written in <u>ANSI C</u>, and implements most of the <u>HTML 4</u> and <u>CSS 2.1</u> specifications using its own bespoke <u>layout engine</u>. [11] As of version 2.0, NetSurf uses *Hubbub*, an HTML

NetSurf



NetSurf running on RISC OS

Developer(s) The NetSurf Developers

Initial release May 19, 2007

Stable release(s) [±] (https://en.wikipedia.org/wik i/Template:Latest_stable_software_release/NetSurf? action=edit)

3.9^[1] (July 18, 2019) [±] (https://en.wikipedia.or g/w/index.php?title=Template:Latest_stable_soft ware release/NetSurf&action=edit)

Preview release(s) [±] (https://en.wikipedia.org/wiki/Template:Latest_preview_software_release/NetSurf?action=edit)

Repository git.netsurf-browser.org

/netsurf.git (git://git.netsurfbrowser.org/netsurf.git)

Written in ANSI C

Operating system Official: [2] RISC OS,

AmigaOS 4, Windows; Linux/Unix-like,

BeOS/Haiku, Atari TOS,

macOS

3rd party ports: AmigaOS 3, Caanoo, MorphOS,

parser that follows the <u>HTML5</u> specification. As well as rendering <u>GIF</u>, <u>JPEG</u>, <u>PNG</u> and <u>BMP</u> images, the browser also supports formats native to RISC OS, including Sprite, Draw and ArtWorks files.

It was suggested by developer John-Mark Bell in 2007 that support for <u>JavaScript</u> could be added. [12][13] This feature did not make it into NetSurf v2 back in 2008, nor into NetSurf v3 of 2013, but as of December 2012 there are some NetSurf preview-builds available which contain early-stage JavaScript support[1] (htt

	Samsung TVs, KolibriOS port in development
Size	4.0 MB (RISC OS) 6.9 MB (AmigaOS)
Туре	Web browser
License	GPLv2
Website	www.netsurf-browser.org (http://www.netsurf-browse r.org/)

p://ci.netsurf-browser.org/builds/) (later much improved^[14]). On April 20, 2013, NetSurf 3.0 was released. [15]

History

NetSurf began in April 2002 as a web browser for the <u>RISC OS</u> platform.^{[11][16]} Work on a <u>GTK port</u> began in June 2004^[17] to aid development and debugging. It has since gained many of the user interface features present in the RISC OS version. The browser is packaged with several distributions including Ubuntu, NetBSD, and OpenBSD.

After five years of development, the first stable version of the browser was released on 19 May 2007 to coincide with the Wakefield RISC OS show. [18][19] Version 1.0 was made available for download from the project's web site and the software was sold on CD at the show. [20] After the release of NetSurf 1.0 there were two point-releases, which largely comprised bug fixes. [21] NetSurf 1.1 was released in August 2007 and in March 2008 the NetSurf 1.2 release was made available. [22][23]

NetSurf participated in <u>Google Summer of Code</u> in 2008 as a mentoring organisation,^[24] running four projects. These included improving the GTK front end,^[25] adding paginated PDF export support^[26] and developing the project's <u>HTML 5</u> compliant parsing library, *Hubbub*.^[27] All NetSurf development builds since 11 August 2008 have used *Hubbub* to parse HTML^[28] and it is available for use in other projects under the MIT license.^[29]

NetSurf was again accepted as a mentoring organisation into Google Summer of Code 2009.^[30] The projects they ran included development of *LibDOM*, the project's <u>Document Object Model</u>, and improvement of NetSurf's user interface.^[31] The interface work included moving previously RISC OS-only functionality to the multi-platform core, including bookmarks, global history, cookie management and page search features. A port to the Windows operating system was also started.^[32] In 2010 the NetSurf project did not apply to participate in Google Summer of Code due to the developers having other commitments.^[33]

- NetSurf 2.0 was released in April 2009 for RISC OS, Linux and other Unix-like platforms, BeOS, Haiku, and AmigaOS 4.^{[34][35]} This was the first version to use the project's HTML5 parsing library, *Hubbub*.^[36]
- In May 2009 a maintenance release, NetSurf 2.1, was issued to users. It incorporated bug fixes and some improvements to page layout. [37]
- NetSurf 2.5 was released in April 2010.^[38] This was the first release to use the project's library for <u>CSS</u> parsing and selection, *LibCSS*^[39] and a new internal cache for fetched content.^[36]

- September 2010 saw the release of NetSurf 2.6, which included a number of fixes and improvements.^[40]
- NetSurf 2.7 was released in April 2011, and added treeview support for features including bookmarking (called the Hotlist manager in NetSurf), history management, and cookie management. [41] It was also the first version to be released for Mac OS X. [42]
- In September 2011 NetSurf 2.8 was released. [11] It added support for <u>frames</u> and iframes in the browser's core rendering engine, making them available to all front ends. The release also included support for MIME type sniffing and improved the performance of loading the images used by a web page. [43]
- In April 2012 NetSurf 2.9 was released. The most significant changes were new multitasking behaviour, optimised URL handling, fetcher optimisations, cache optimisations, and faster CSS selection.
- In April 2013 NetSurf 3.0 was released. The biggest difference was the use of the new Document Object Model library, LibDOM. This new library is a foundation that paves the way for NetSurf developers to implement a fully dynamic layout engine in the future. Other improvements in NetSurf 3.0 include completely new textarea support, ability to fetch and parse CSS in parallel with HTML documents, extensive behind-the-scenes refactoring, and a host of smaller changes and fixes.
- In April 2014 NetSurf 3.1 was released, containing many improvements over the previous release. The highlights include much faster CSS selection performance, faster start up time, new look and feel to the treeviews (hotlist/bookmarks, global history and cookie manager), improved options handling, undo/redo support in textareas, and general improvement of forms. Also included are many other additions, optimisations and bug fixes.
- In July 2019 NetSurf 3.9 was released, with support for CSS Media Queries (level 4) and improvements to JavaScript handling.

Ports

A native <u>BeOS/Haiku</u> port has been developed.^{[44][45]} Since the GTK version was built for <u>AmigaOS</u>, ^[46] using <u>Cygnix</u> which provides an <u>X11</u> environment, a native AmigaOS port has also been developed. ^[45] In January 2009, NetSurf was made available on <u>MorphOS</u>, an operating system that is API-compatible with AmigaOS. ^[47] A Windows port is also available for download. ^[48]

A <u>framebuffer</u> port was created in September 2008.^[11] Unlike the other ports, it does not use any GUI toolkit, but instead renders its own mouse pointer, scrollbars and other widgets. The framebuffer front end has been used to create a web kiosk on embedded systems.^[49]



GTK NetSurf running under Linux

In January 2010, the NetSurf Developers announced the release of what they expected at the time to be the last release for RISC OS. [50] Lead developer John-Mark Bell said at the time "Realistically, the people qualified to maintain the RISC OS port are up to their necks in other stuff." [51] Subsequently, Steve Fryatt volunteered himself as maintainer. [52]

January 2011 saw the announcement of a $\underline{\text{Mac OS X}}$ port. [53] A port to Atari 16-bit and 32-bit computers was also started in January 2011. [54]

See also

- Dillo
- Browser timeline
- Comparison of web browsers
- List of web browsers

External links

Official website (http://www.netsurf-browser.org/)

References

- 1. "News" (https://www.netsurf-browser.org/about/news). netsurf-browser.org. Retrieved 20 Jul 2019.
- 2. "Netsurf | Downloads" (https://www.netsurf-browser.org/downloads/). Retrieved 2014-07-20.
- 3. "Web browsers" (http://www.iconbar.com/forums/viewthread.php?threadid=374). The Icon Bar forums. April 2002. Retrieved 2001-02-15.
- 4. Williams, Chris (31 December 2004). "Best of 2004 awards results" (http://www.drobe.co.uk/features/artifact1249.html). Drobe Launchpad. Retrieved 15 February 2011.
- 5. "Best of 2006 awards results" (http://www.drobe.co.uk/riscos/artifact1776.html). Drobe Launchpad. 31 December 2006. Retrieved 15 February 2011.
- 6. "Best of 2007 awards results" (http://www.drobe.co.uk/riscos/artifact2179.html). Drobe Launchpad. 31 December 2007. Retrieved 15 February 2011.
- 7. "Drobe Awards 2008: The results" (http://www.drobe.co.uk/article.php?id=2389). Drobe Launchpad. 31 December 2008. Retrieved 15 February 2011.
- 8. Wallen, Jack (January 11, 2011). <u>"10 Web browsers for the Linux operating system" (https://www.techrepublic.com/blog/10things/10-web-browsers-for-the-linux-operating-system/2120)</u>. *TechRepublic*. Retrieved March 17, 2012.
- 9. Wallen, Jack (February 4, 2011). <u>"Top 10 Linux browsers: How I rate them" (http://www.zdn et.co.uk/news/desktop-apps/2011/02/04/top-10-linux-browsers-how-i-rate-them-40091669/1 0/). ZDNet. Retrieved March 17, 2012.</u>
- "NetSurf A Graphical Web Browser for Command Line (+CSS Support)" (https://web.archive.org/web/20150408025201/http://www.myopenrouter.com/blog/entry/24154/NetSurf-A-Graphical-Web-Browser-for-Command-Line-CSS-Support/). my open router. November 17, 2010. Archived from the original (http://www.myopenrouter.com/blog/entry/24154/NetSurf-A-Graphical-Web-Browser-for-Command-Line-CSS-Support/) on April 8, 2015. Retrieved March 17, 2012.
- 11. "About NetSurf" (http://www.netsurf-browser.org/about/). The NetSurf Developers.
- 12. Holwerda, Thom (April 3, 2007). "Could NetSurf 2.0 Support JavaScript?" (http://www.osne ws.com/story/17620/Could_NetSurf_2_0_Support_JavaScript_). OSNews. Retrieved March 17, 2012.
- 13. "Could NetSurf 2.0 support JavaScript?" (http://www.drobe.co.uk/riscos/artifact1909.html). *Drobe*. April 3, 2007. Retrieved March 17, 2012.
- 14. "NetSurf's JavaScript engine (Duktape)" (https://listmaster.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2017-May/013951.html).
- 15. "NetSurf 3.0 Released" (http://www.netsurf-browser.org/about/news). NetSurf-Browser.org. 20 April 2013. Retrieved 23 April 2013.

- 16. Paul Brett, *PD World NetSurf* (http://www.apdl.co.uk/riscworld/volume8/issue1/pd/index.ht m), RISC World Magazine
- 17. <u>Subversion revision 993 (http://source.netsurf-browser.org/?rev=993&view=rev)</u>, NetSurf Source Repository
- 18. Aaron Timbrell. "Wakefield 2007 The show report" (http://www.apdl.co.uk/riscworld/volume 8/issue1/wake/index.htm). RISC World Magazine.
- 19. Matt Thompson. "NetSurf Revealed" (http://www.apdl.co.uk/riscworld/volume8/issue2/netsur f/index.htm). RISC World Magazine.
- 20. "NetSurf 1.0 is worth millions on paper" (http://www.drobe.co.uk/article.php?id=1962). Drobe Launchpad.
- 21. Paul Brett. "PD World NetSurf V 1.1" (http://www.apdl.co.uk/riscworld/volume8/issue3/pd/index.htm). RISC World Magazine.
- 22. "NetSurf 1.1 Announcement" (https://web.archive.org/web/20110718115601/http://vlists.pep perfish.net/pipermail/netsurf-users-netsurf-browser.org/2007-August/006841.html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2007-August/006841.html) on 2011-07-18.
- 23. "NetSurf 1.2 announcement" (https://web.archive.org/web/20110718115618/http://vlists.pep perfish.net/pipermail/netsurf-users-netsurf-browser.org/2008-March/007421.html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2008-March/007421.html) on 2011-07-18.
- 24. "NetSurf Organization Information" (https://code.google.com/soc/2008/netsurf/about.html). Google Summer of Code 2008.
- 25. "GSoC project: Improved GTK front end" (https://web.archive.org/web/20081207161746/htt p://code.google.com/soc/2008/netsurf/appinfo.html?csaid=2794A7C4A5D222D8). Google Summer of Code 2008. Archived from the original (https://code.google.com/soc/2008/netsurf/appinfo.html?csaid=2794A7C4A5D222D8) on 2008-12-07.
- 26. "GSoC project: PDF plotter and printing improvements" (https://web.archive.org/web/20081 207205525/http://code.google.com/soc/2008/netsurf/appinfo.html?csaid=8251210CF1E908 69). Google Summer of Code 2008. Archived from the original (https://code.google.com/soc/2008/netsurf/appinfo.html?csaid=8251210CF1E90869) on 2008-12-07.
- 27. "GSoC project: Work on and integrate Hubbub" (https://web.archive.org/web/200812080101 07/http://code.google.com/soc/2008/netsurf/appinfo.html?csaid=4A19E24A0A8BC7C6).

 Google Summer of Code 2008. Archived from the original (https://code.google.com/soc/200 8/netsurf/appinfo.html?csaid=4A19E24A0A8BC7C6) on 2008-12-08.
- 28. "New HTML parser integrated into NetSurf" (https://web.archive.org/web/20080921081505/http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2008-August/007757. html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2008-August/007757.html) on 2008-09-21.
- 29. "Hubbub project page" (https://web.archive.org/web/20080514204124/http://www.netsurf-browser.org/projects/hubbub/). The NetSurf Developers. Archived from the original (http://www.netsurf-browser.org/projects/hubbub) on 2008-05-14.
- 30. "List of accepted organisations" (https://web.archive.org/web/20110921015348/http://socghop.appspot.com/program/accepted_orgs/google/gsoc2009). Google Summer of Code 2009. Archived from the original (https://socghop.appspot.com/program/accepted_orgs/google/gsoc2009) on 2011-09-21. Retrieved 2017-10-28.
- 31. "NetSurf Google Summer of Code Projects" (http://www.netsurf-browser.org/developers/gs oc/). The NetSurf Developers.
- 32. "Google Summer of Code Roundup" (https://web.archive.org/web/20100316085517/http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2009-September/008959.htm

 1). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2009-September/008959.html) on 2010-03-16.

- 33. "Google Summer of Code 2010" (https://web.archive.org/web/20110718115658/http://vlists.pepperfish.net/pipermail/netsurf-dev-netsurf-browser.org/2010-March/001803.html). NetSurf Developer Mailing List. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-dev-netsurf-browser.org/2010-March/001803.html) on 2011-07-18.
- 34. "NetSurf 2.0 Announcement" (https://web.archive.org/web/20120311041304/http://vlists.pep perfish.net/pipermail/netsurf-users-netsurf-browser.org/2009-April/008537.html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2009-April/008537.html) on 2012-03-11.
- 35. "RISC OS NetSurf Downloads" (http://www.netsurf-browser.org/downloads/riscos/). The NetSurf Developers.
- 36. "NetSurf Change Log" (https://archive.is/20080927061136/http://www.netsurf-browser.org/downloads/releases/ChangeLog.txt). The NetSurf Developers. Archived from the original (http://www.netsurf-browser.org/downloads/releases/ChangeLog.txt) on 2008-09-27.
- 37. "NetSurf News" (http://www.netsurf-browser.org/about/news). The NetSurf Developers.
- 38. "NetSurf 2.5 Announcement" (https://web.archive.org/web/20120311041606/http://vlists.pep perfish.net/pipermail/netsurf-users-netsurf-browser.org/2010-April/009341.html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2010-April/009341.html) on 2012-03-11.
- 39. "LibCSS CSS Library" (http://www.netsurf-browser.org/projects/libcss/). The NetSurf Developers.
- 40. "NetSurf 2.6 Announcement" (https://web.archive.org/web/20120311040931/http://vlists.pep perfish.net/pipermail/netsurf-users-netsurf-browser.org/2010-September/009677.html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/n etsurf-users-netsurf-browser.org/2010-September/009677.html) on 2012-03-11.
- 41. "NetSurf 2.7 Announcement" (https://web.archive.org/web/20120311040249/http://vlists.pep perfish.net/pipermail/netsurf-users-netsurf-browser.org/2011-April/010159.html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2011-April/010159.html) on 2012-03-11.
- 42. "Mac OS X NetSurf Downloads" (http://www.netsurf-browser.org/downloads/macosx/). The NetSurf Developers.
- 43. "NetSurf 2.8 Announcement" (https://web.archive.org/web/20120311041451/http://vlists.pep perfish.net/pipermail/netsurf-users-netsurf-browser.org/2011-September/010450.html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2011-September/010450.html) on 2012-03-11.
- 44. "Announcement of AmigaOS and BeOS/Haiku ports" (https://web.archive.org/web/2008091 5235900/http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2008-Augus t/007801.html). NetSurf Users mailing list. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2008-August/007801.html) on 2008-09-15.
- 45. "NetSurf BeOS Downloads" (https://www.webcitation.org/5vfZn8qDP?url=http://www.netsurf-browser.org/downloads/beos/). Archived from the original (http://www.netsurf-browser.org/downloads/beos/) on 12 January 2011. Retrieved 15 February 2011.
- 46. "Could this Open Source Web Browser be easily ported for our needs?" (http://amigaworld.net/modules/newbb/viewtopic.php?topic_id=26450&forum=2). Amigaworld.net Forum. Retrieved 15 February 2011.
- 47. "Announcement of MorphOS version of NetSurf" (https://web.archive.org/web/20110611085 520/http://www.morphzone.org/modules/newbb_plus/viewtopic.php?topic_id=6183&forum=9). MorphZone: The MorphOS Portal. Archived from the original (http://www.morphzone.org/modules/newbb_plus/viewtopic.php?topic_id=6183&forum=9) on 2011-06-11.
- 48. "NetSurf Windows version" (http://www.netsurf-browser.org/downloads/windows/). NetSurf.

- 49. "Tutorial: A web kiosk embeded system" (https://web.archive.org/web/20090619103415/htt p://www.linuxdevices.com/articles/AT8912553591.html). *LinuxDevices*. Archived from the original (http://www.linuxdevices.com/articles/AT8912553591.html) on 19 June 2009.
- 50. "NetSurf at Wakefield Show 2010" (https://web.archive.org/web/20100316085527/http://vlist s.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2010-January/009241.html). NetSurf Users mailing list. 14 January 2010. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2010-January/009241.html) on 16 March 2010.
- 51. "Last RISC OS version of NetSurf announced" (http://iconbar.com/articles/Last_RISC_OS_v ersion of NetSurf announced/index1246.html). The Icon Bar. 14 January 2010.
- 52. "The NetSurf Developers" (http://www.netsurf-browser.org/about/team). The NetSurf Developers. Retrieved December 26, 2011. "Steve [Fryatt] maintains the RISC OS port of NetSurf, having rashly volunteered himself in an attempt to stop the platform losing yet another web browser."
- 53. Drake, Michael (2011-01-20). "Mac OS X port and other frontend news" (https://web.archive.org/web/20110711051435/http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2011-January/009869.html). Pepperfish.net. Archived from the original (http://vlists.pepperfish.net/pipermail/netsurf-users-netsurf-browser.org/2011-January/009869.html) on 2011-07-11. Retrieved 2011-01-22.
- 54. "Revision 11218" (http://source.netsurf-browser.org/?view=revision&revision=11218). NetSurf source repository. Retrieved 24 December 2011.

Retrieved from "https://en.wikipedia.org/w/index.php?title=NetSurf&oldid=925197164"

This page was last edited on 8 November 2019, at 13:49 (UTC).

Text is available under the <u>Creative Commons Attribution-ShareAlike License</u>; additional terms may apply. By using this site, you agree to the <u>Terms of Use</u> and <u>Privacy Policy</u>. Wikipedia® is a registered trademark of the <u>Wikimedia</u> Foundation, Inc., a non-profit organization.