The Dramatic History of the Web Browser















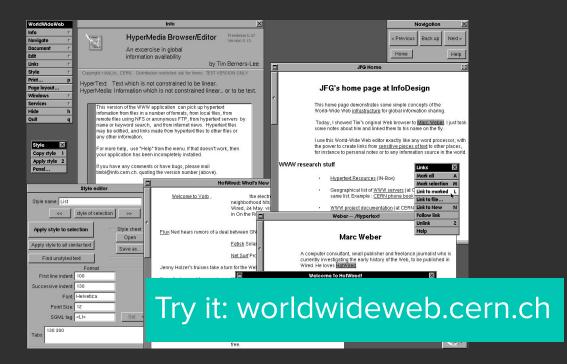




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dotNet Sheffield - Feb 2020

Tim Berners-Lee invents the World Wide Web and creates the **WorldWideWeb** browser.

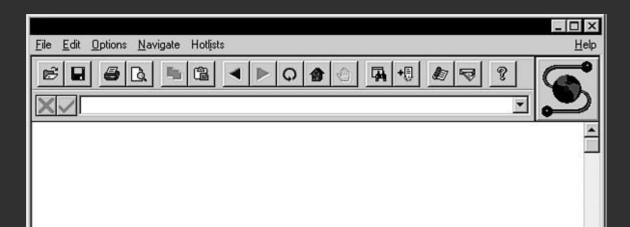




National Center for Supercomputing Applications (NCSA) release **Mosaic**.

Mosaic introduces ability to embed images in a web page.

It works across multiple platforms.



The Mosaic Communications

Corporation founded by Jim Clark and

Marc Andreessen.



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The company had to be renamed and became Netscape Communications Corporation.

Netscape Navigator released.

It overtook Mosaic as the most popular browser.

Spyglass license codebase based on Mosaic.

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Microsoft release Internet Explorer.

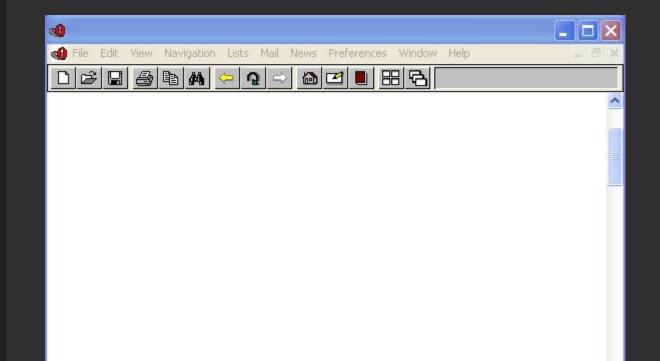
IE made freely available to all Windows users.

Mac and UNIX versions follow in 1996.

Opera released as trialware.

Opera / опера / オペラ / Opéra





The Browser War

1996 4 in 5 use Netscape.

Microsoft moves to change this.



Works best in...

Netscape gives us <bli>blink> while IE introduces <marquee>.

IE adds CSS support, while Netscape develop JSSS.



Internet Explorer 4 released.

"From the IE team... We Love You"

1997 October



Netscape 72, Microsoft 18

Spyglass threaten Microsoft with a contractual audit.

Microsoft are only paying the minimum quarterly fee to Spyglass.

Microsoft switch to Trident as part of Internet Explorer 4 and give Spyglass \$8M.

Explorer becomes faster and more stable than Navigator.

Microsoft start bundling Explorer with Windows.

1998 United States v. Microsoft Corporation lawsuit.

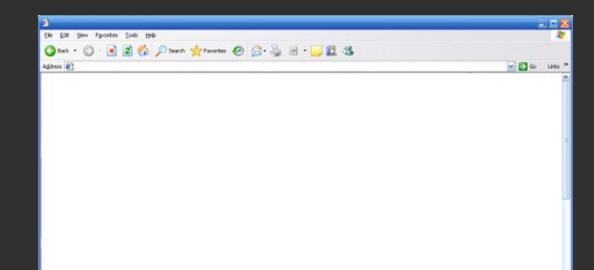
9 in 10 browsers now Internet Explorer.



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Microsoft release **Internet Explorer 6**.

IE would go on to dominate for years and stifle innovation.



End of an Era

Netscape lost the war to Microsoft.

AOL bought Netscape in 1998 and ended development of the browser 10 years later.

Netscape gave us many things including: JavaScript, animated GIFs and Cookies.

New Beginnings

In 1998 Netscape open-source much of their code.

Mozilla is founded.

Start of the open web ecosystem.



New Beginnings

KDE release **Konqueror** for Linux.

Konqueror uses the open-source KHTML rendering engine.

More standards compliant than Navigator and Internet Explorer.

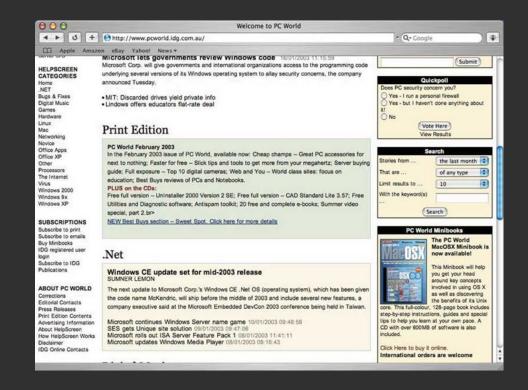




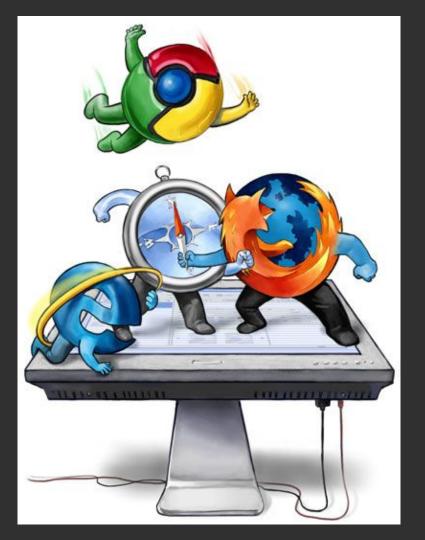
New Beginnings

Apple release **Safari** and WebKit.

WebKit is a fork of KHTML.



The Next Browser War?





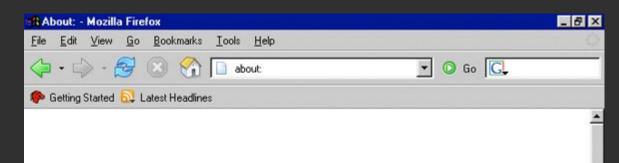
The Next Browser War?

Mozilla release Firefox.

Spread Firefox.

100 million downloads in the first year.

Firefox popularised tabbed browsing and gave us developer tools thanks to Firebug.



About 85% of people still using Internet Explorer. Firefox accounts for about 10%.

The Next Browser War?



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Microsoft release Internet Explorer 7.

Introduces features common to rivals like tabs and search.





The Next Browser War?

Google release **Chrome**.

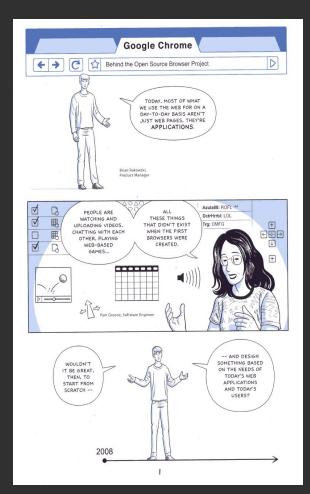
Google CEO Eric Schmidt was originally opposed to a Google browser.

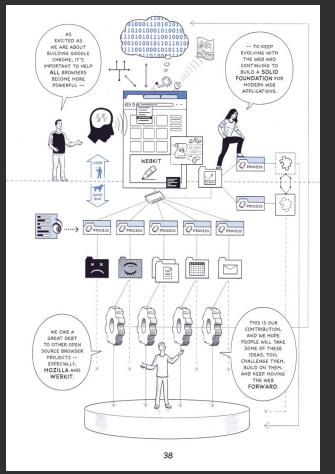
Sergey Brin and Larry Page hire some Mozilla developers.

"It was so good that it essentially forced me to change my mind" - Schmidt.



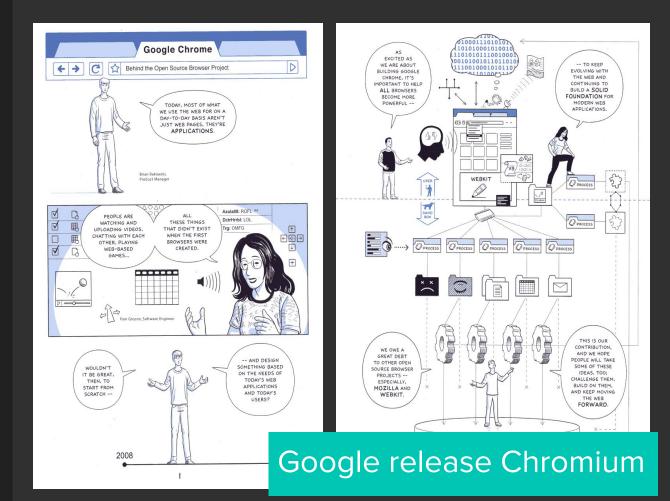
The Next Browser War?







The Next Browser War?



Blink

By 2013...

35% Google Chrome

23% Internet Explorer

17% Firefox

11% Safari

gs.statcounter.com

Google Chrome/Chromium forks WebKit as Blink.

We start to see other new browsers developed on Chromium, including: **Brave** (2016), **Samsung Internet** (2013) and **Vivaldi** (2015).

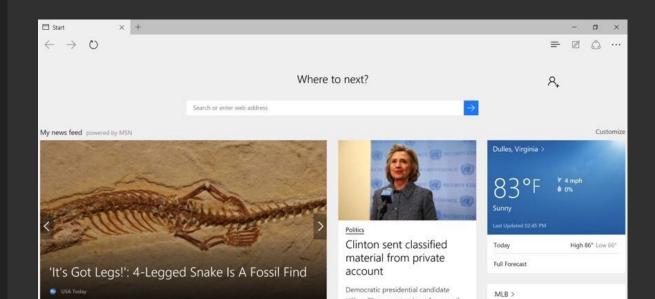
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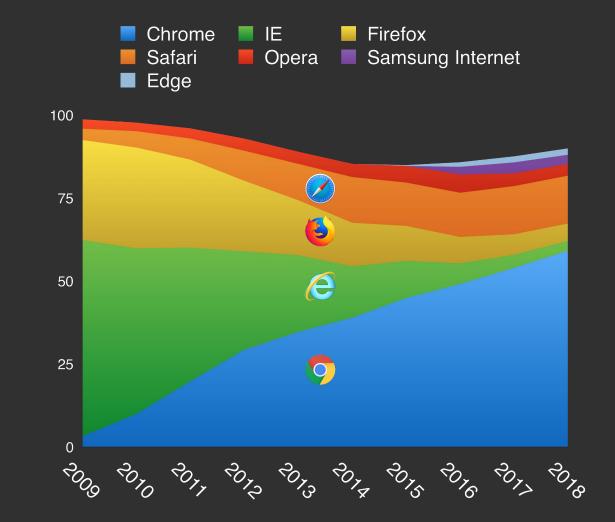
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Microsoft release Edge.

Edge uses EdgeHTML, a fork of the Trident rendering engine.





Blink



2018 Microsoft announce they are building a new **Edge** browser using Chromium.

It was officially released on January 15th 2020 for Windows and MacOS.

Blink



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2020 marks the 30th anniversary of the first web browser, **WorldWideWeb**.

Blink

The Future

History has a tendency to repeat itself.

Google Chrome's market share may now have peaked. Chromium browsers remain dominant.

Privacy is becoming a growing concern for web users, many are now looking for alternatives to Google.



THIS IS A

Private Window

Brave doesn't remember what you do in a Private Window. Sites you visit won't show up in your history, and cookies vanish when you're done. Private Windows don't make you completely anonymous online, though. Learn more

The Future

"Nevertheless, we believe that having multiple rendering engines—similar to having multiple browsers—will spur innovation and over time improve the health of the entire open web ecosystem."

Adam Barth, Chromium Software Engineer https://blog.chromium.org/2013/04/blink-rendering-engine-for-chromium.html

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