# Browsers

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# Discussion

- The first thing you should know if you are a computer user, what browser am I using or going to use?

- The second thing is, what does a browser do ?

- You are not stuck with the default browser that came with your operating system.

- If you want you can look at a website from mozilla talking about browsers.

# More Discussion

- I read an piece on Browsers a while ago and the main point of the conversation was "Don't use a Web Browser from a company that is big in Advertising.

- The reason is fairly obvious.  The independent Web Browsers are not so attached to the $$ as some.

# What is a Browser ?

- A web browser takes you anywhere on the internet. It retrieves information from other parts of the web and displays it on your desktop or mobile device. The information is transferred using the Hypertext Transfer Protocol, which defines how text, images and video are transmitted on the web. This information needs to be shared and displayed in a consistent format so that people using any browser, anywhere in the world can see the information.

# How many different Browsers are there ?

| Year | Web browsers |
|------|--------------|
| 1990 | WorldWideWeb (Nexus) |
| 1991 | Line Mode Browser |
| 1992 | Erwise, MacWWW (Samba), MidasWWW, ViolaWWW |
| 1993 | AMosaic 1.0, Arena, Cello,[2] Lynx 2.0, Mosaic |
| 1994 | Agora (Argo), IBM WebExplorer, IBrowse, MacWeb, Minuet, Netscape Navigator, SlipKnot 1.0 |
| 1995 | Grail, Internet Explorer 1, Internet Explorer 2, Netscape Navigator 2.0, OmniWeb, UdiWWW,[3] |
| 1996 | Amaya 0.9,[4] Arachne 1.0, AWeb, Cyberdog, Internet Explorer 3.0, Netscape Navigator 3.0, Opera 2.0, PowerBrowser 1.5,[5] Voyager |
| 1997 | Amaya 1.0, [4] Internet Explorer 4.0, Netscape Navigator 4.0, Netscape Communicator 4.0, Opera 3.0[6] |
| 1998 | iCab, Mozilla |
| 1999 | Amaya 2.0,[4] Mozilla M3, Internet Explorer 5.0 |
| 2000 | Amaya 3.0[4], Amaya 4.0,[4] K-Meleon 0.2, Konqueror, Netscape 6, Opera 4,[7] Opera 5,[8] |
| 2001 | Amaya 5.0,[4] Internet Explorer 6, Galeon 1.0, Opera 6,[9] |
| 2002 | Amaya 6.0,[4] Amaya 7.0,[4]Phoenix 0.1, Netscape 7, Mozilla 1.0, Links 2.0 |
| 2003 | Amaya 8.0,[4] Epiphany 1.0, Opera 7,[10] Apple Safari 1.0, |
| 2004 | Firefox 1.0, Netscape Browser, OmniWeb 5.0 |
| 2005 | Amaya 9.0,[4] AOL Explorer 1.0, Epiphany 1.8, Maxthon 1.0, Netscape Browser 8.0, Opera 8,[11] Apple Safari 2.0, Shiira 1.0 |
| 2006 | Avant 11, Camino 1.0, Galeon 2.0, iCab 3, K-Meleon 1.0, Mozilla Firefox 2.0, Internet Explorer 7, Opera 9,[12] SeaMonkey 1.0 |
| 2007 | Conkeror, Flock 1.0, Apple Safari 3.0, Netscape Navigator 9, NetSurf 1.0 |
| 2008 | Google Chrome 1, Maxthon 2.0, Mozilla Firefox 3, Opera 9.5,[13], Apple Safari 3.1, Konqueror 4, Amaya 10.0[4], Flock 2, Amaya 11.0[4] |
| 2009 | Google Chrome 2–3, Mozilla Firefox 3.5, Internet Explorer 8, Opera 10,[14], Apple Safari 4, SeaMonkey 2, Camino 2, surf, Pale Moon 3.0[15] |
| 2010 | Google Chrome 4–8, Mozilla Firefox 3.6, Opera 10.50,[16], Opera 11, Apple Safari 5, K-Meleon 1.5.4, xxxterm |
| 2011 | Google Chrome 9–16, Mozilla Firefox 4–9, Internet Explorer 9, Opera 11.50, Apple Safari 5.1, Maxthon 3.0, SeaMonkey 2.1–2.6 |
| 2012 | Google Chrome 17–23, Mozilla Firefox 10–17, Internet Explorer 10, Opera 12, Apple Safari 6, Maxthon 4.0, SeaMonkey 2.7-2.14 |
| 2013 | Google Chrome 24–31, Mozilla Firefox 18–26, Internet Explorer 11, Opera 15–18, Pale Moon 15.4-24.2.2[17], Apple Safari 7, SeaMonkey 2.15-2.23 |
| 2014 | Google Chrome 32–39, Mozilla Firefox 27–34, Opera 19–26, Pale Moon 24.3.0-25.1.0[17], Apple Safari 8, SeaMonkey 2.24-2.30 |
| 2015 | Google Chrome 40–47, Microsoft Edge, Mozilla Firefox 35–43, Opera 27–34, Pale Moon 25.2.0-25.8.1[17], Vivaldi |
| 2016 | Google Chrome 48–55, Mozilla Firefox 44–50, Microsoft Edge 14, Opera 35–42, Apple Safari 9-10, SeaMonkey 2.24–2.30 |
| 2017 | Google Chrome 56–60, Microsoft Edge 15, Mozilla Firefox 51–55.0.2, Opera 43–45, Opera Neon, Safari 10-11 |
| 2018 | Chrome 64–71, Firefox 58–64, Microsoft Edge 42-44, Opera 50-57, Safari 11-12, Vivaldi 1.14-2.2 |
| 2019 | Chrome 72–79, Firefox 65–71, Microsoft Edge, Opera 58–65, Safari 12-13, SeaMonkey, Vivaldi 2.2-2.10, Yandex.browser |
| 2020 | Chrome 80–87, Firefox 72–84, Microsoft Edge, Opera 66–73, Safari 13-14, SeaMonkey, Vivaldi 2.10-3.5, Yandex.browser |

There are many browsers and more than you can see on this image.

There are 7 major players and then many more that you might find if you start looking.

I will be talking about the 7 in this presentation.

# Google Chrome

- The Google Chrome Browser is probably the most used on the internet today.

- You might ask yourself "Why"? The answer is probably that they pay to put their browser on your computer.

- Google is big into Advertising.

# Firefox

- This is the Web Browser of my choice.

- It works on most of my devices and platforms.

- Data sharing between devices is easy with a Firefox account and Sync.

- Mozilla is an independent origination that creates a number of tools for the internet.

# Opera



- Opera is another Web Browser not tightly associated with advertising.

- It's base is in Oslo and they take security to the Nth degree.

- I use Opera as my second browser when doing my programming and it is available on most of my devices.

# Apple Safari

- The default browser that is supplied by Apple for their operating systems.

  Both Microsoft and Apple supply a default browser with their operating systems.

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# Microsoft Internet Explorer

- This Web Browser is no longer updated and is old.  It has been replaced with the next Web Browser from Microsoft.

- I due not use IE.  In the old days most malware was written to attack IE.  I suggest you use one of the above Web Browsers or Microsoft's Edge.

# Microsoft Edge

- This is the new default Web Browser from Microsoft. I don't use this Web Browser either. I don't like default browsers as they are tied to the operating system and the company does advertising.

# Brave

- I have not used Brave Web Browser much but I can tell you that it is based on the Google Chrome engine and does do some advertising.

# Browser Security & Privacy

Some information on these browsers and how they provide you a safe experience on the net.

## Security and Privacy

### Which browser is best at keeping things confidential?

| Security and Privacy | 🦊 | 🌐 | 🔵 | 🧭 | O | 🦁 | e |
|---|---|---|---|---|---|---|---|
| Private Browsing mode | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Blocks third-party tracking cookies by default | ✓ | — | ✓ | ✓ | ✓ | ✓ | ✓ |
| Blocks cryptomining scripts | ✓ | — | ✓ | — | ✓ | ✓ | — |
| Blocks social trackers | ✓ | — | ✓ | ✓ | — | ✓ | — |

# Utility



## Utility

### What has your browser done for you lately?

| Utility | 🦊 | 🟢 | 🔵 | 🧭 | O | 🦁 | e |
|---|---|---|---|---|---|---|---|
| Autoplay blocking | ✓ | — | ✓ | — | — | ✓ | — |
| Tab browsing | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bookmark manager | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Automatically fills out forms | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Search engine options | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Text to speech | ✓ | — | ✓ | ✓ | — | — | ✓ |
| Reader mode | ✓ | ✓ | ✓ | ✓ | — | ✓ | ✓ |
| Spell checking | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Web extensions/Add-ons | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| In-browser screenshot tool | ✓ | — | ✓ | — | ✓ | — | — |

One of the main reasons I chose Firefox along time ago was it worked on most of my devices.

This chart shows the Utility of the 7 main Web Browsers.

by Ratsupport.com

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# Portability



**Portability**

How well does your browser work across your devices?

| Portability | 🦊 | 🔴 | 🔵 | 🧭 | O | 🦁 | e |
|---|---|---|---|---|---|---|---|
| OS availability | ✓ | ✓ | ✓ | — | ✓ | ✓ | — |
| Mobile OS availability | ✓ | ✓ | ✓ | — | ✓ | ✓ | — |
| Syncs with mobile | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | — |
| Password management | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Primary password | ✓ | — | ✓ | — | ✓ | — | — |

When you have more than one device or operating system and you want to go from device to device and see the same information and bookmarks then I choose Firefox.

# Where to get your new Browser

- Google Chrome

- Mozilla Firefox

- Opera

- Safari (only for apple devices and is their default)

- Microsoft Edge

# Happy Ending



I hope you enjoyed this presentation and have figured out what and which Web Browser you use or want to use.

If you have questions or suggestions on or about this presentation please contact us.