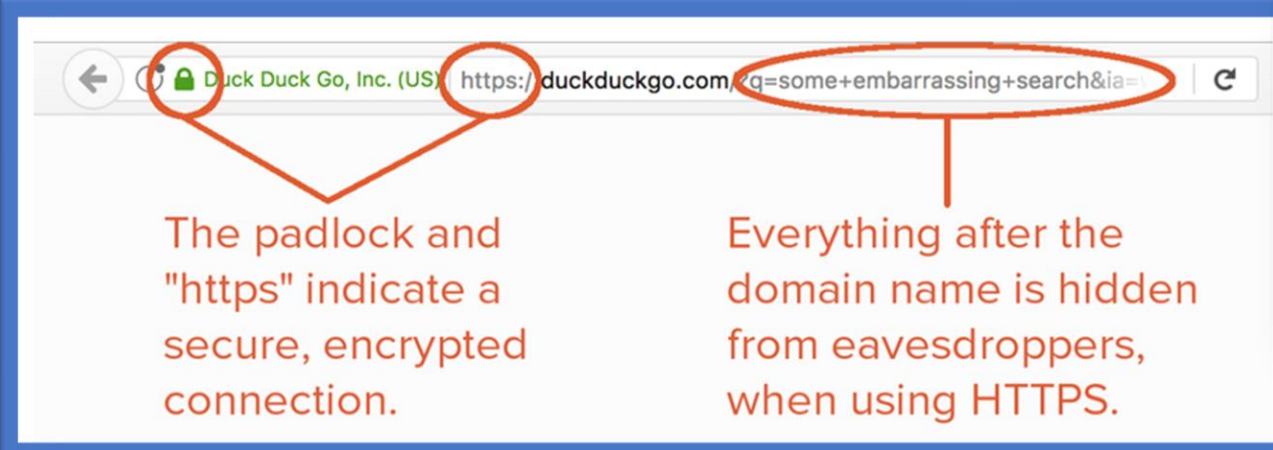# Browsers 4 You

WLS Cyber Smarts Series

Agenda

In this workshop, you'll
- Find out what's new in four of the most common browsers used today
  - Chrome, Firefox, Edge, Opera
  - Safari, Brave, Vivaldi, Tor
- Learn to use tips and techniques for safety and streamlining
- See browser comparisons of each one's strengths
- Have options for browser + search tool

Essential Terms

- Browser - software that lets users connect to the World Wide Web
- [How To Check Whether Your Web Connection's Secure](#)

The padlock and "https" indicate a secure, encrypted connection.

Everything after the domain name is hidden from eavesdroppers, when using HTTPS.

World Wide Web
service provided by
The Internet that
uses HTTP protocol

WWW

TELNET

CHAT

INTERNET

FTP
File Transfer Protocol

IM

E-MAIL

P2P

Network of Networks
global system of computers that use
the TCP/IP protocol to link devices

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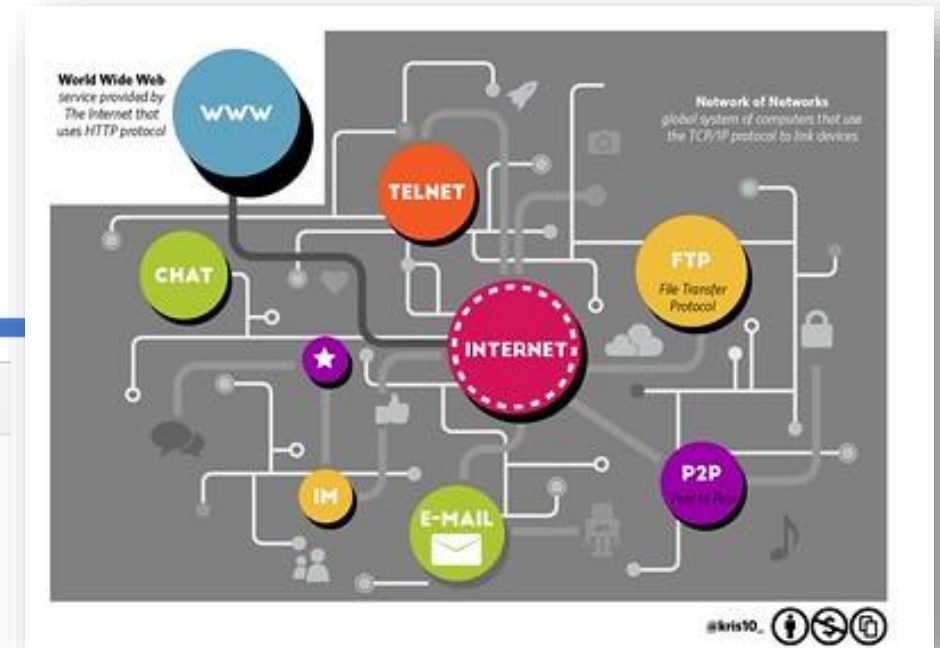
Essential Terms

Security – protection from cybercrime
- Databases of safe sites
- Warnings about unsecure connections
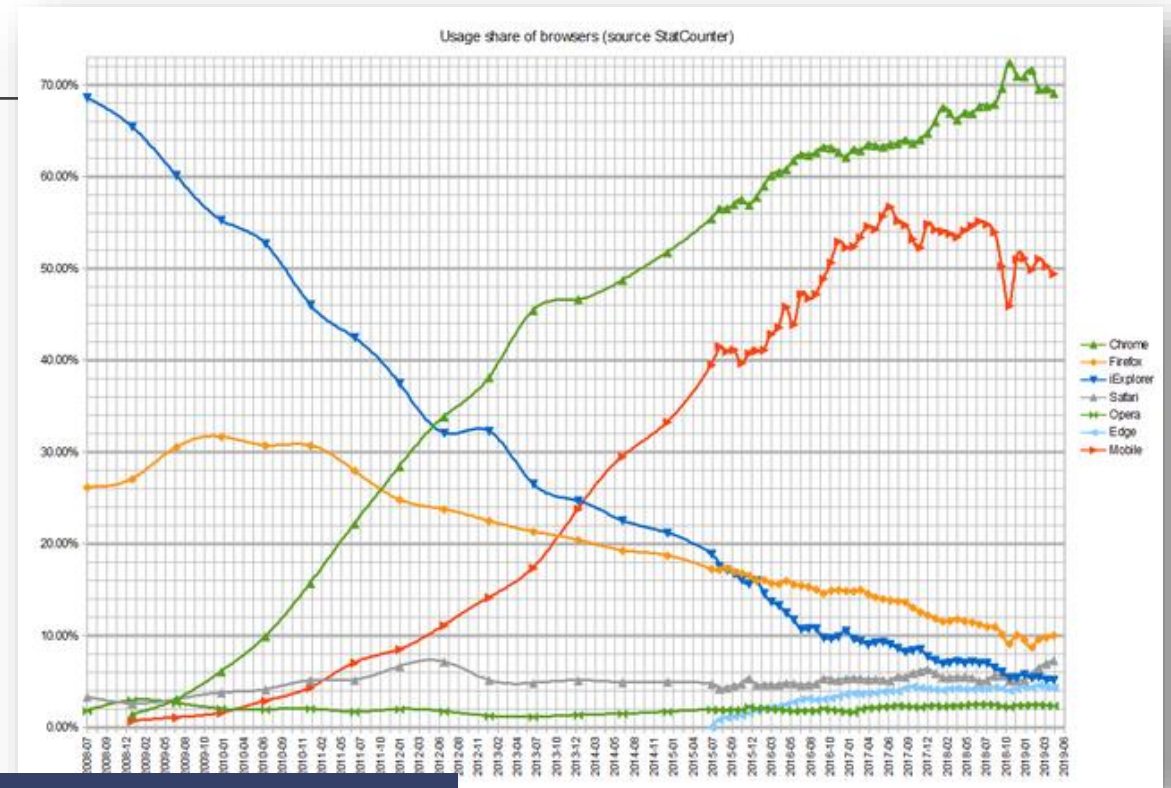- Content blockers

Privacy – what information is collected and how it's used
- Set by a browser company in a policy
- A user can choose privacy settings to limit information that's kept cookies and trackers

Common Browsers

Browser	Market Share / Use
Chrome	68%
Edge	4%
Firefox	3.5%
Opera	2%
Safari*	16%
Others	5%
* Limited to Mac and iOS users	

Usage share of browsers (source StatCounter)

By StatCounter - OpenOffice Calc, Public Domain,
https://commons.wikimedia.org/w/index.php?curid=89986636

The world has turned into desktop-minority.
In the US, the majority, 78%, use both desktop and mobile to access the internet.

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Common Browser Features

- Search history
- Bookmarks to save frequently-used links
- Add-ons or extensions to expand capability
- Settings to customize use
- Private browsing option

chrome

Pros
- Speedy performance
- Excellent library of add-ons
- Works on different platforms
- Lots of users, so it's easy to get help
- Safety Check
- Warns users when they attempt to visit a site flagged as potentially harmful

Cons
- Can be resource-hungry
- Sharing data is profit motive

New & Top Features
- Live caption option
- Built-in music controller in the menu bar
- Built-in screen casting of tab or desktop to TV or other device
- Topics, the proposed privacy solution won't retain gathered data more than 3 weeks

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Firefox

Pros
- Flexible
- Excellent security and privacy protection
- Easy to update and updates often
- Doesn't use much computer power

Cons
- A bit slower than rivals
- Not as many add-ins as Chrome

New & Top Features
- Shield icon in the toolbar glows when in use
- Active tab "floats" so it stands out
- In private browsing, *strict* cookie setting is always-on by default
- Responsive Mode
- Can add "tools" to the toolbar

Edge

Pros
- Very, very fast
- Clear privacy tools
- Good selection of add-ons
- Doesn't use much computer power
- Can save sites as apps
- Integrates with Windows OS

Cons
- Windows **really** wants to be the default
- Wants to use location by default
- Integrates with Windows OS

New & Top Features
- Can make collections of favorites
- Can make tabs vertical
- Read Aloud option
- Multilingual

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Opera

Pros

- Fast
- Lots of features
- Easy to access and understand tutorials

Cons

- Not many users
- Larger learning curve

New & Top Features

- Highlight in webpage look up/copy menu pops up
- Built-in VPN (turn on/off in settings)
- Can add messaging apps to sidebar
- Option to create multiple "workspaces" with different tabs and bookmarks for different purposes

Browsers and search tools

You can use or change the default search tool that comes in your browser in Settings.

- DuckDuckGo (privacy)
- Ecosia (environment)
- KidZSearch (safe search)
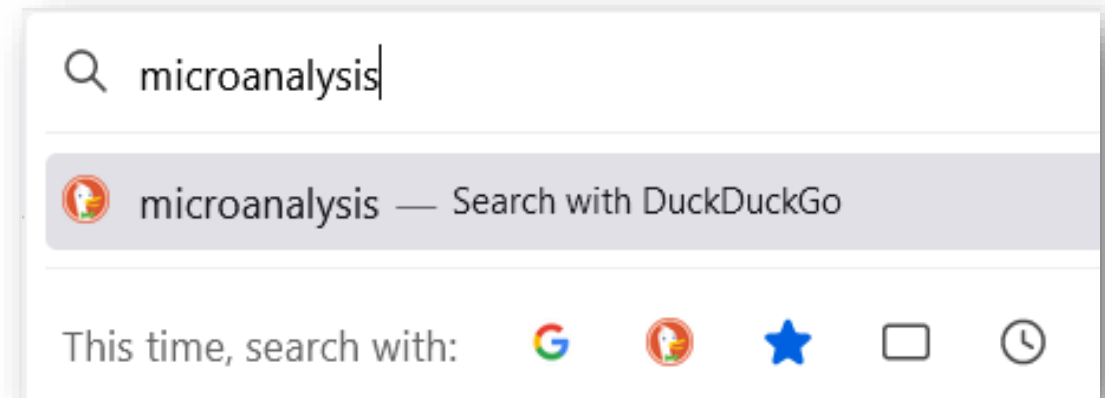- Bing (shopping credits)
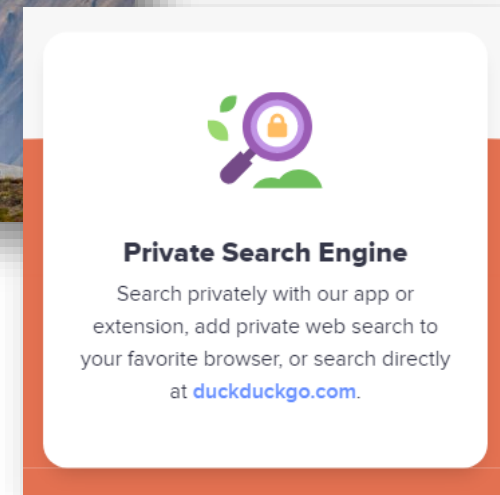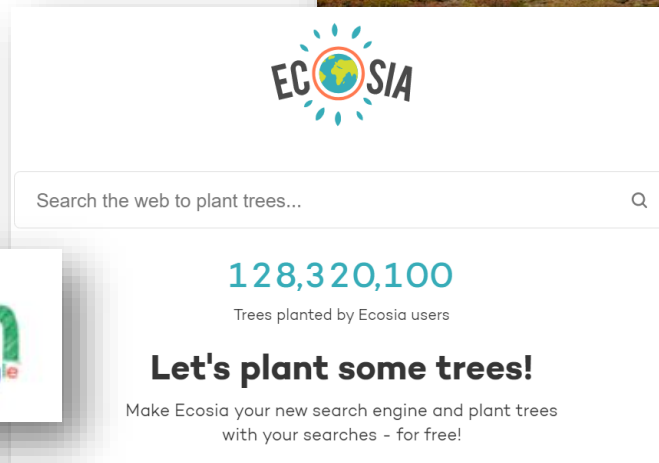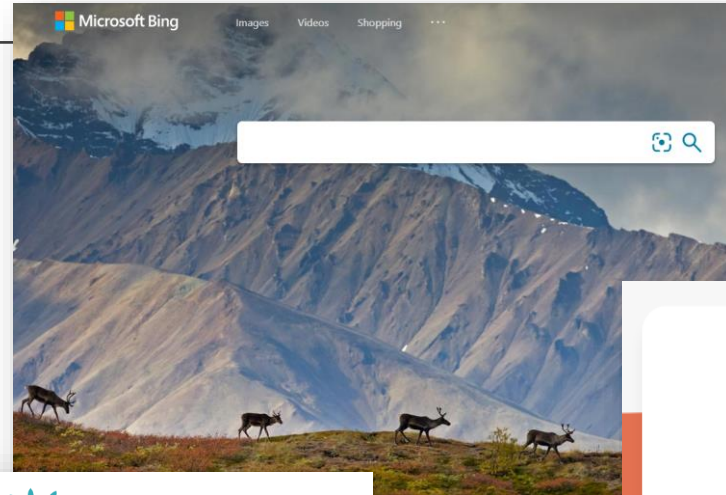
Search tool setup

Settings
> Search or Search Engine

- Choose or add search tools
- Set the default

Firefox lets you set a default and have alternates easy to use

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Browsers on mobile

Use the default or add an app

- Chrome
- Firefox
- Opera
- DuckDuckGo
- Onion Browser Tor for iOS
- Orbot Tor connection for Android, to use with your existing browser
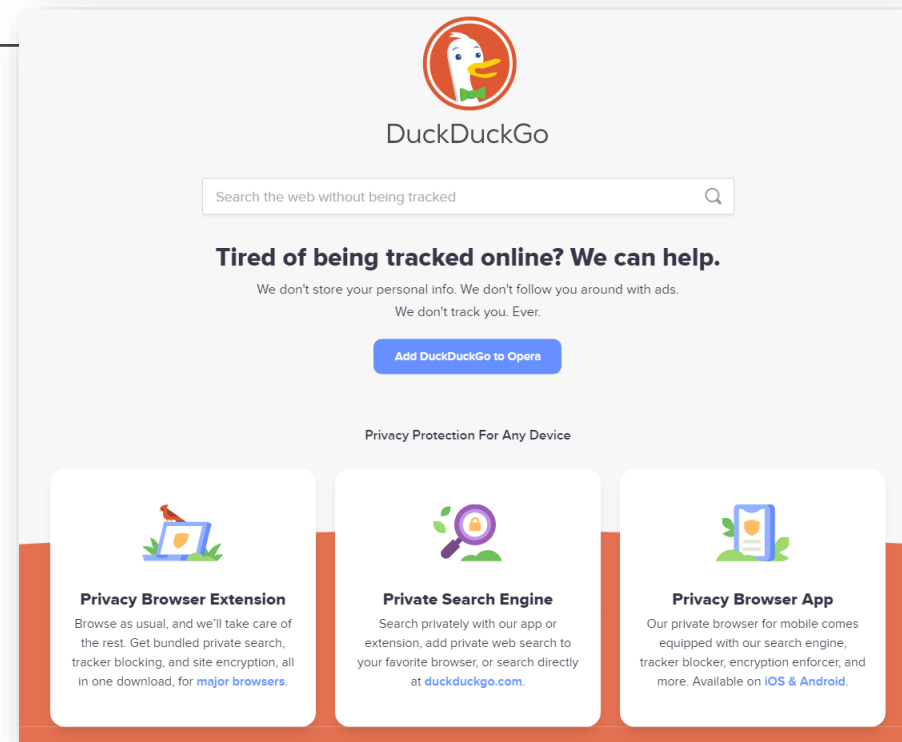
Browser Security

- Sign in
- Set up automatic updates
- Periodic maintenance
  - Restart
  - Clear history and cache
- Extensions
  - Read reviews and ratings before installing
  - Disable or remove extensions that you don't use
- If you don't use a password manager, use your browser to generate random passwords and save them
- Enable HTTPS-only mode if available

Choose a default browser and learn its ins-and-outs

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Browser Privacy Settings

Google Chrome
- Add Privacy Extensions
  (not available on Android)
  - Cookie Autodelete
  - uBlock Origin
  - Privacy Badger
  - HTTPS Everywhere
- Set Privacy and security > Cookies and
  other site data > Block third-party cookies

Mozilla Firefox
- Set Preferences > Privacy & Security > Strict

Apple Safari
- Turn on Intelligent Tracking Prevention
- Set Preferences > Privacy > Prevent
  cross-site tracking
- Add an adblocker extension
  - AdBlock Plus
  - Ghostery Lite for Safari

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The Big Balance

Security

Privacy

Convenience

Sharing

Must-dos and tips

Must-dos
- Update your browser often to keep it secure
- Use only HTTPS sites so all web browsing data is encrypted

Tips
- Increase privacy by setting a different default search tool
- Use a password manager **and/or**
  smart password strategies and multifactor authentication
- Install and run a VPN (virtual private network) when on public wifi
- Enter a URL to find out if a website is down
  at https://www.isitdownrightnow.com/

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Links and resources

Resource Links

- Wikipedia Web Browsers Article
- Ten Best Reviews Browser Comparison
- PC Magazine Chrome Features
- Edge Features
- Alternative Search Engines

Allison Midgley

- Training@wlsmail.org

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