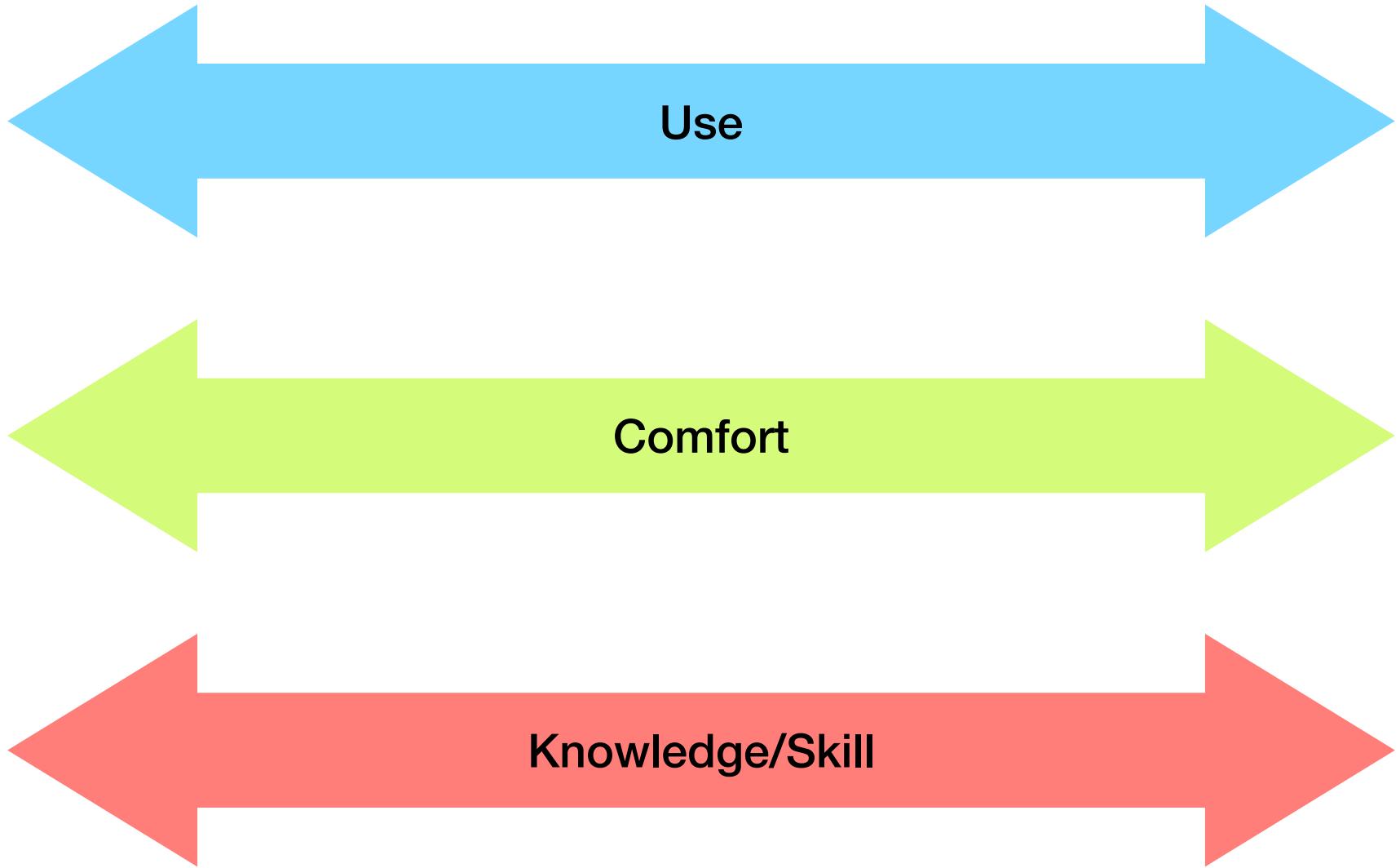


Session 2: Browsers Part 2

Mastering the Internet

Duke OLLI Spring 2024

David Shamlan

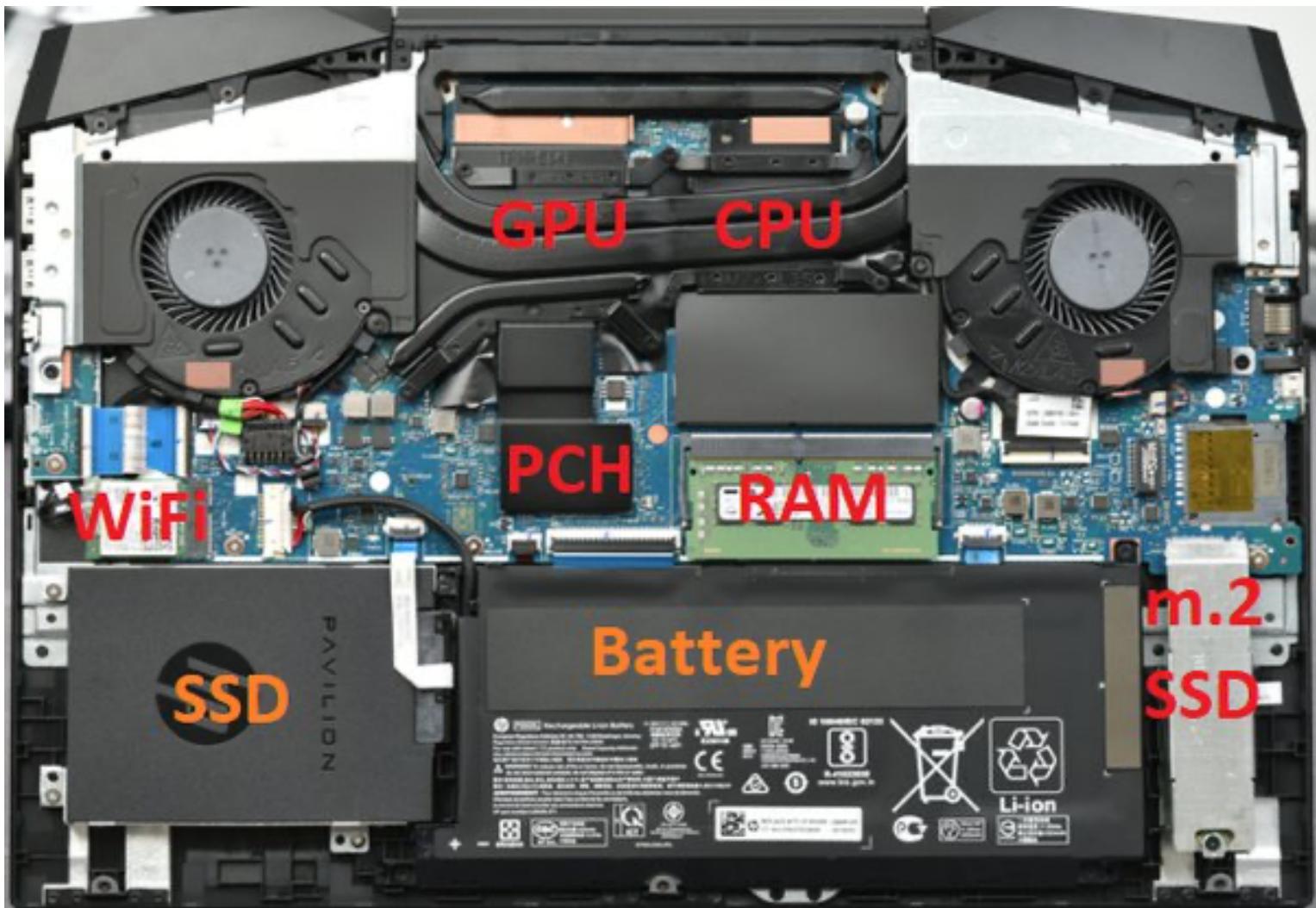


Last Week

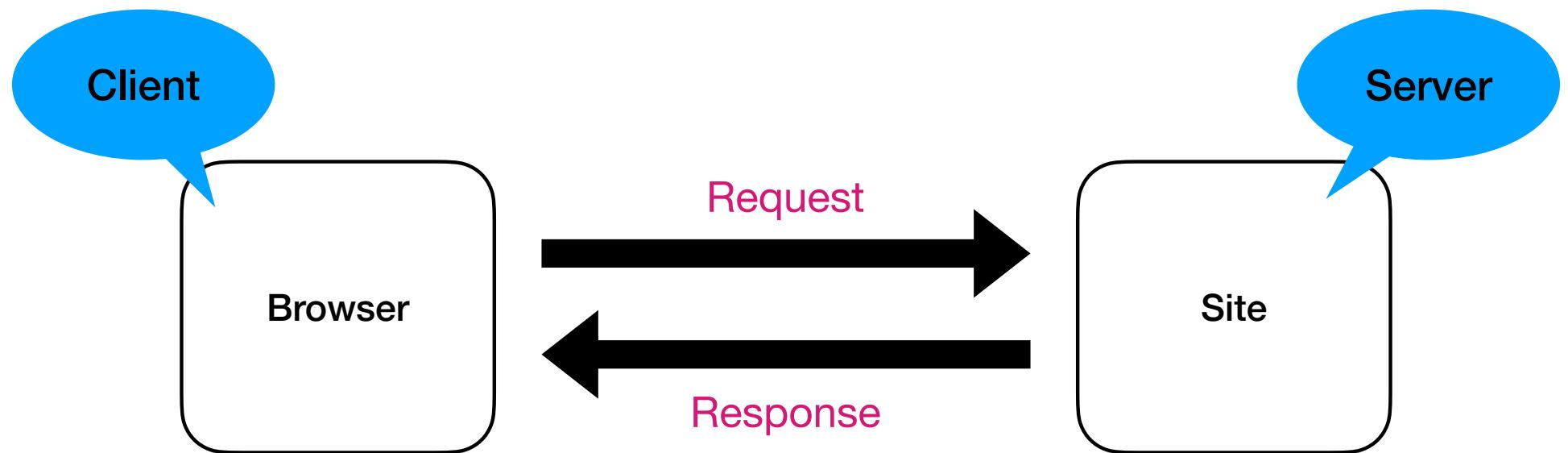
- **Windows & Tabs**
- **Toolbar & View Pane**
- **Address Bar**
- **Site**
- **Page**
 - Responsive *versus* Non-Responsive
 - **Static *versus* Dynamic**
- **Loading a page**
- Control & Icon
- **Hyperlink**
- **URL:** protocol, **domain name**, **resource**, parameters
- HTML, CSS, JavaScript (aka, “JS” or “JSP”)
- HTTP(S)
- **Client-Server**
- **Message: Request & Response**

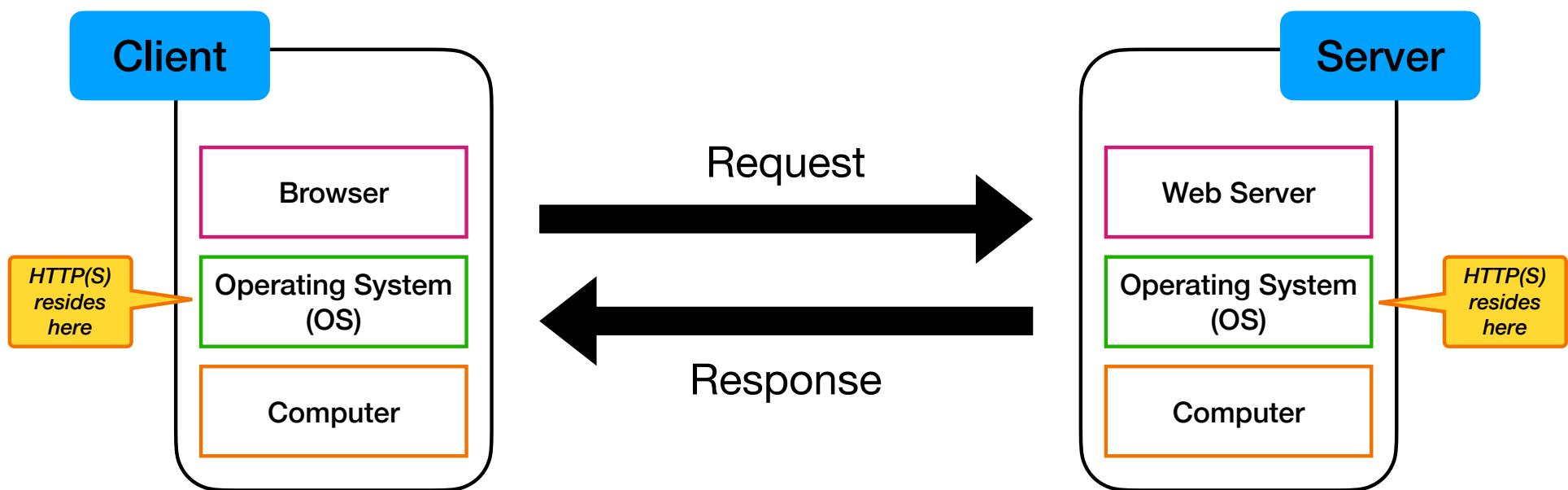
What your browser “remembers”

- Browsing history
 - All of the URLs/pages you visit in your browser
 - Your browser uses this information to auto-complete URLs when you type them in the address bar
- Cached files
 - Large files (like images, video/audio) included in pages
 - Browsers may store these files on your device to avoid getting them
- Bookmarks
 - URLs that you can use later to access the associated pages without searching for the site again using a search engine or having to manually enter the URL in your browser’s Address Bar
- Settings (sometimes also called “preferences” or “options”)
 - Allow you to change some of the functionality/behavior of your browser.
 - E.g., you can change the “On Startup” setting to tell Chrome to re-open the same pages you were looking at the last time you quit Chrome
- Cookies
 - Pieces of information that the sites you visit send to your browser in order to provide a custom experience









Browsing History and Cached Files

- To see **recent** browsing history

Click the “Search tabs” icon in the upper right hand corner of the browser window

- To see **full** browsing history

1. Click the “More” icon on the right hand side of the Toolbar
2. Click the “History” item in the menu that appears
3. Click the “History” item in the next menu that appears
(Yes, there are two “History” items in two menus)

- To see browsing history of a **tab**

Click & hold the “forward” or “back” buttons on the left hand side of the Toolbar

- To see how much disk space the browser has cached files (and how much disk space they are consuming)

How to “Clear” Browsing History and Cached Files

- To erase your browsing history and cached files
 1. Click the “More” icon on the right hand side of the Toolbar
 2. Click the “Privacy and security” item on the left hand side of the View Pane
 3. Click the “Clear browsing data” item
 4. Click the checkbox to the left of “Cookies and other site data” so that the checkbox is an empty square

Note: If you leave the “Cookies and other site data” checkbox checked, you will also delete all saved cookies, which can change behavior of some sites you visit.

5. Click the “Clear data” button

Note: You do not need to clear browsing history/cached files on any kind of regular/routine basis.

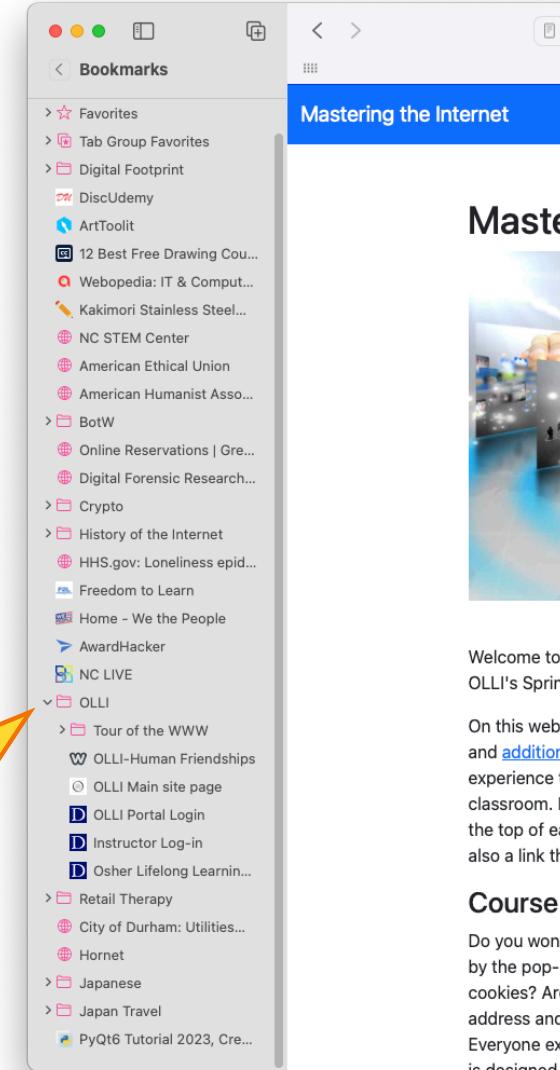
If you share your device with someone else and you want/need to be secretive, you may want to clear your browser history/ cached files after you clandestinely visit sites

Bookmarks

- A browser bookmark is similar to a bookmark in a book i.e., it is a place holder for a URL/page that you can use later to return to that page
- You can **create**, **delete**, and **rename** bookmarks
- You can organize bookmarks in **folders**

The image on the left shows the collection of bookmarks I have in Safari.

Note the item named “OLLI” with a  icon. This item is a folder; I keep bookmarks related to OLLI in this folder. Also note there is a folder named “Tour of The WWW” inside the OLLI folder; a folder can contain other folders as well as bookmarks.



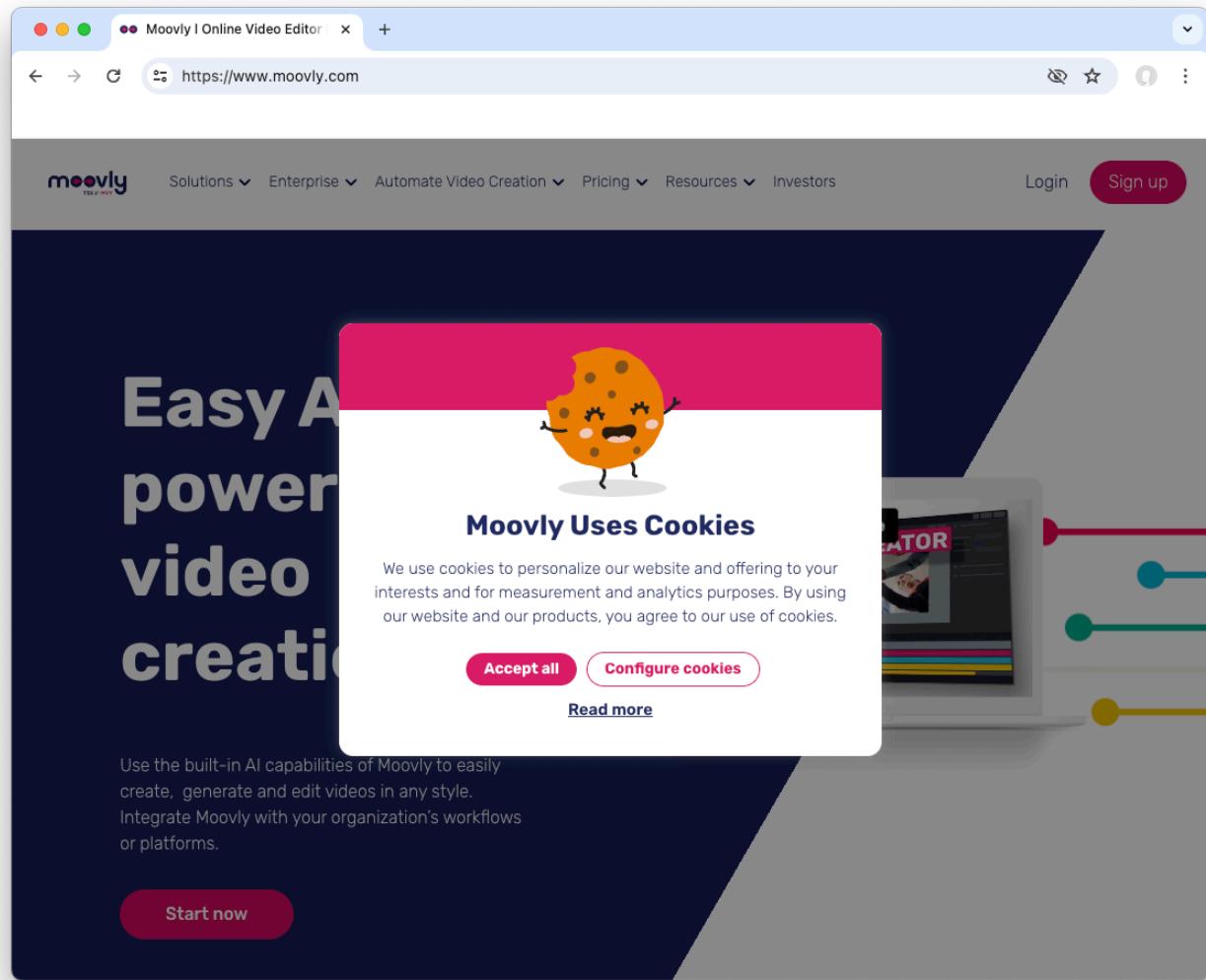
Browser Settings

- Settings (also called “preferences”) allow you to customize how your browser behaves
- When you change a setting, your browser “remembers” the change you made **even after you close/quit your browser; your changes will be in affect the next time you use your browser.** I.e., changes you make to your browser’s settings persist across browser sessions.
- To see and change Chrome’s settings, click the “more” icon and then click the “Setting” item in the menu.
 - A new tab will open that gives you access to all of Chrome’s settings

This computer is currently
functionally challenged.
Please do not use.

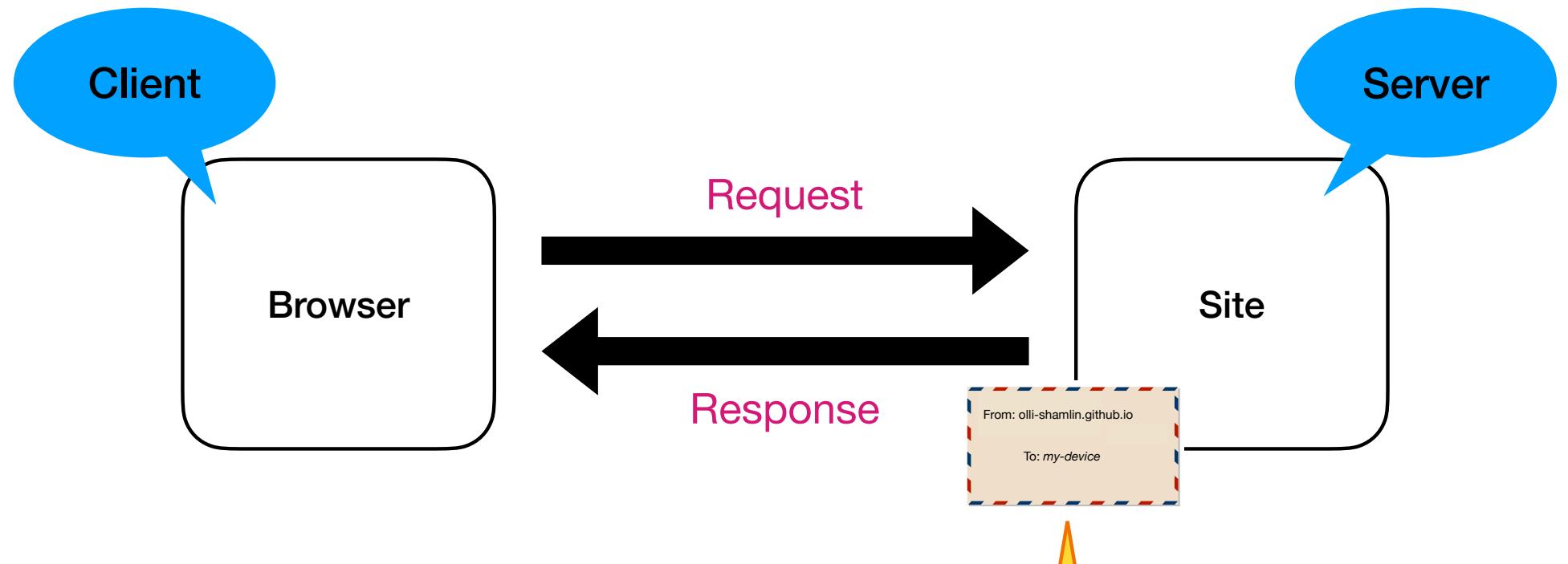
Well, you **can** use it if you want to, but you're probably going to look pretty goofy, sitting here in front of a non-functional machine.

But, hey – maybe that's how you roll: you like to question authority...push the boundaries...stick it to the man. Who am I to question your beliefs? I'm just a freakin' sign.



What cookies look like

Name	Value
1P_JAR	2024-05-07-11
AEC	AQTF6Hwr6sFImDV0S93hKleC2yqENxcG9MIQi9XULRAwDUCm4In9rczsig
CookieLawInfoConsent	eyJJuZWNlc3NhcnkiOnRydWUsImZ1bmN0aW9uYWwiOnRydWUsInBlcmZvcm1hbmNlIjp0cnVILCJhbmFseXRpY3MiOnRydWUsImFkdmVydGlzZW1lbnQiOnRydWV9
NID	514-HT3Ife4-oQJhevKPXFmsWC1KM76I54qpKtgRd5W3RLTbh9ah4PlfuOEafs0kXPs0RTU2VIYT3D2SfSnBD4qZTGXxLVIKeIklz_ouCkMoUJtSEta9_IiFj6qbYk_D59i7Bv_xXsTrmcOaBaWF9aYQkcWDnpWGyXw6byQFYxd1zSuJZhZ236pwi0-nwRWIpE



When a site uses cookies, the cookies are included in response messages returned by the site.

Noteworthy Uses of Cookies

- When logging in to some sites, they may give you one or more of the following choices
 - “Remember me”
 - “Leave me logged in”
 - “Trust this browser”
Note: you will only see this option if the site supports Two Factor Authentication (2FA) or Multi-Factor Authentication (MFA)
- If you select any of these choices, the site will include cookies in its response that your browser will “remember” (ie, save)
- If you delete the cookies your browser has saved for that site, the sign-in choices you made will be lost/forgotten

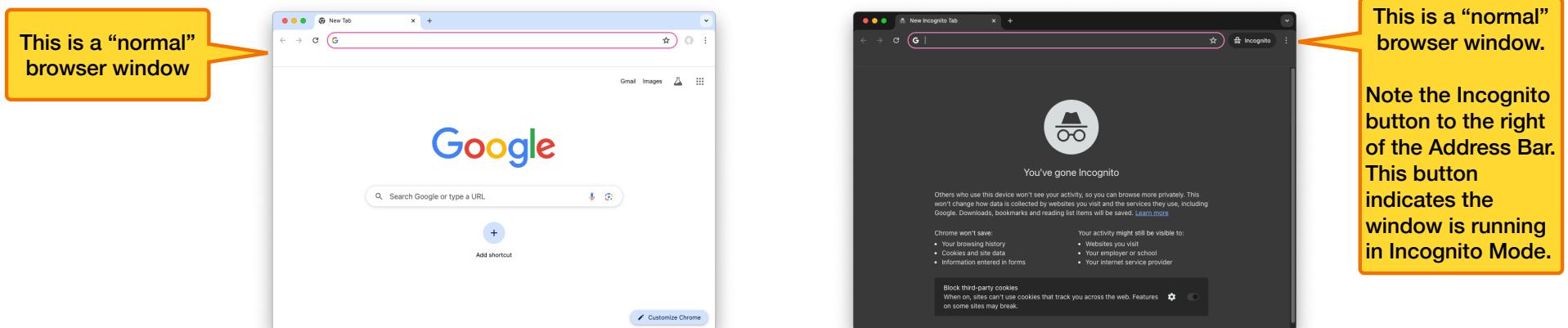
How to delete all cookies your browser has saved

- Click the “More” icon on the right hand side of the Toolbar
- Click the “Clear Browsing Data...” item
- Make sure the “Cookies and other site data” checkbox is selected
Deselect the “Browsing history” and “Cached images and files” checkboxes if you want to retain those things
- Click the “Clear data” button

Incognito Mode

Also called “Privacy Mode” in other browsers

- Incognito (or Privacy) Mode prevents your browser from “remembering” (1) browsing history, (2) cached files, and (3) cookies
- To use this feature, click on the “more” icon, then click the “New Incognito Window” item. A new browser window similar to the image below on the right will appear





Learning more: Google Help

Table of Contents	https://support.google.com/chrome/#topic=
Browsing History & Cached Files	https://support.google.com/chrome/answer/95589
Bookmarks	https://support.google.com/chrome/answer/188842
Cookies	https://support.google.com/chrome/answer/95647
Incognito Mode	What: https://support.google.com/chrome/answer/9845881 How to: https://support.google.com/chrome/answer/95464
Settings	https://support.google.com/chrome/?hl=en#topic=7439724 <i>Scroll down the page to the “Change Chrome settings” section where you will find a variety of links to other help pages related to Chrome settings.</i>

You can avoid the hassle of typing this URL into your Address Bar by hand, The blue URLs above are hyperlinks!

View this PDF on your device. Navigate to this slide and simply click on the URL!

Review

- Some browser features **save** information on your disk drive:
 - Settings, Bookmarks 
 - Browsing History, Cached Files, and Cookies 
- On each “side” of our **client-server pattern**
 - There is a computer
 - Each computer is running an operating system and at least one software application
 - In our exercises thus far...
 - On the client side, Chrome browser is the software application
 - On the server side, a kind of software application called a **web server** is used
- When your device appears to be “broken”, it may be due to a change to a Setting/Preference
- When you are learning a new skill, go slow to move fast

Homework

- Review Chrome help pages related to this session's content (See [previous slide](#))
 - If When reviewing pages related to this session's content,
 - Also read the first couple of paragraphs on this help page: [Learn about third-party sign-in](#). This is an example of help documentation that is likely not helpful for a general audience; it contains too much "technical jargon", in my opinion. **Do you agree?**
- Continue to experiment/practice by repeating some of this session's exercises on your own
- If you sometimes use a browser other than Chrome, see if you can repeat this session's exercises using that browser