

# CogLab: your first webpage

WEEK 3

# recap: Sep 12, 2023

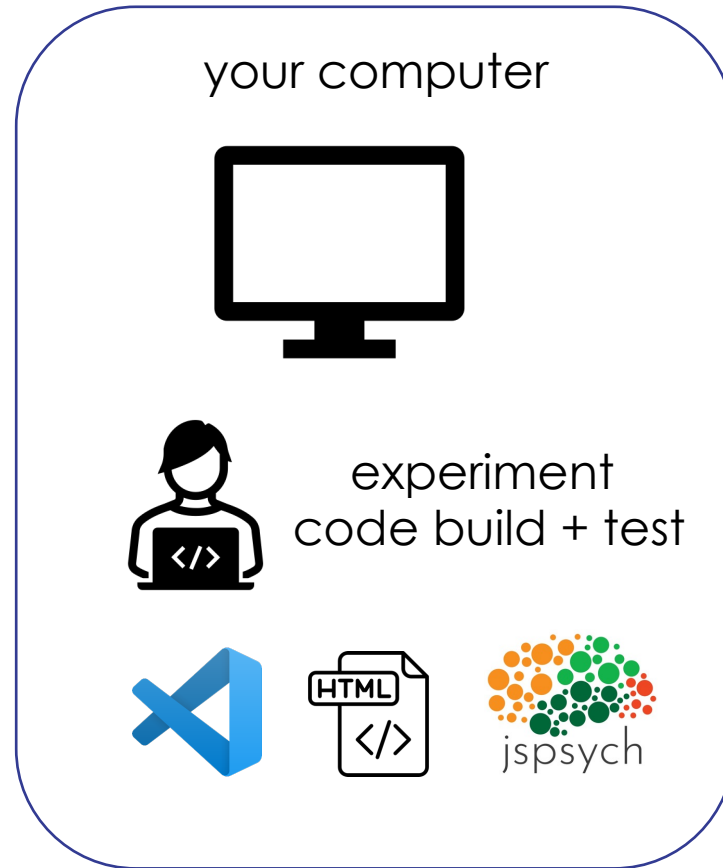
- what we covered:
  - anatomy of an experiment (front & back-end)
  - installed git and created github account
  - visual studio code + editing/committing readme.md
- your to-dos were:
  - *prep*: [How does the internet work](#)
  - *prep*: [A non-technical introduction to HTML/CSS/Javascript](#)
  - *download*: Google Chrome (default browser for class)

# quick review

- how do you **bold** something in `Markdown`?
- what does `commit` mean?
- what does `pull/push` mean?
- what does `cloning` mean?



**github**  
keeping  
track of  
changes



**Cognition.**

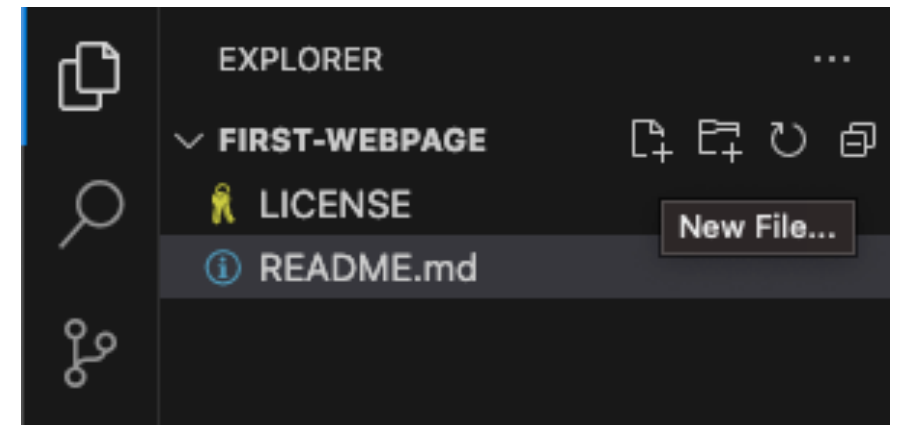
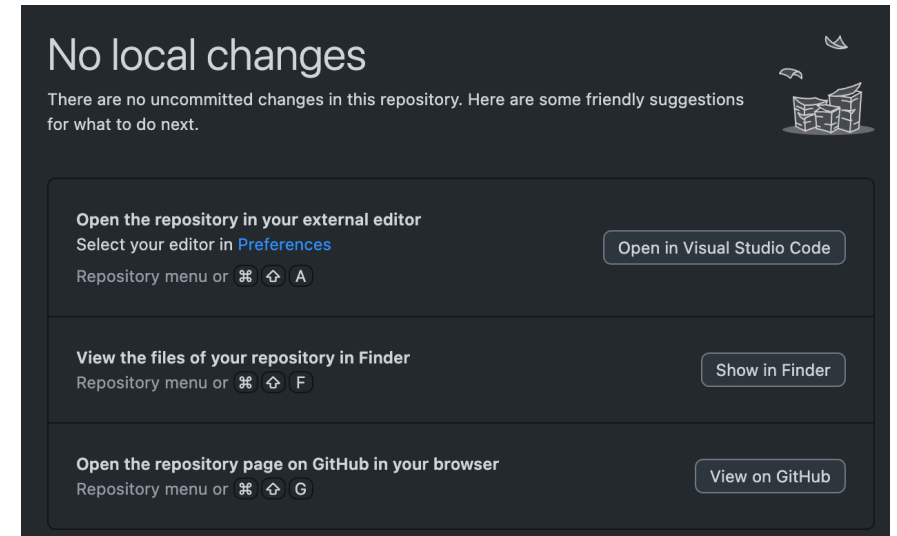
**cognition.run**  
going  
online  
(URL/IP)

# today's agenda

- building your first webpage
- HTML document syntax
- HTML tags

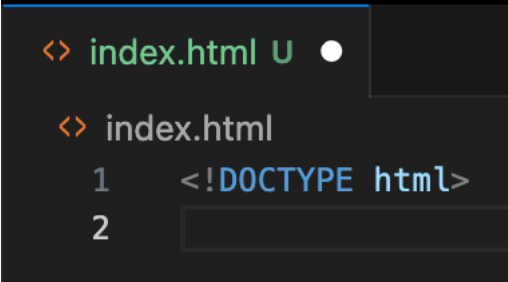
# your first webpage

- open GitHub Desktop
- open the repo in the editor (Visual Studio Code)
- you should be able to see your Readme.md file
- create and open a new file called **index.html**



# index.html

- **index.html** is an HTML file that we will design to look like a page on the web
- first, we will indicate that we will be using the HTML language in this file by specifying a **DOCTYPE** on the first line of the file
- save your file!
  - a **dot** indicates that your file is **unsaved**



```
<> index.html U ●
<> index.html
1  <!DOCTYPE html>
2
```

# building index.html

- next, we will start building our webpage
- all code you write will be within the `<html>` and `</html>` **tags**
- **tag** is a technical term for types of content in HTML
  - anything within `<>` is called a **tag**
  - **tags** are opened with `<>` and closed with `</>`
  - your editor may automatically add the closing tags

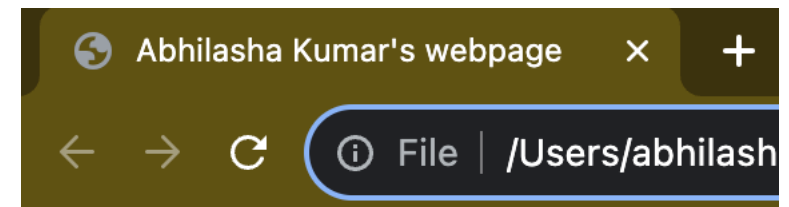
```
<> index.html U ●
<> index.html > 📦 html
1  <!DOCTYPE html>
2  <html>
3  |
4  </html>
```



# adding a page title to index.html

- the **head** tag controls information that is needed to load the page (title, style info, other code, etc.)
- the **title** tag is a sub-tag of **head** that controls what you see as the tab's title in the browser
- save your file
- find the **index.html** file in your Finder (PSYC 2740 > my-first-webpage > index.html)
- open it in Chrome, your title should appear!

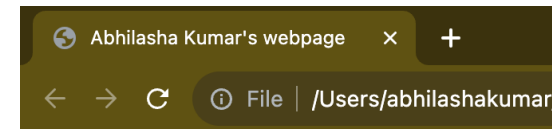
```
<!DOCTYPE html>
<html>
  <head>
    <title>Abhilasha Kumar's webpage</title>
  </head>
</html>
```



# adding page content to index.html

- all content you want to be displayed on your webpage must be contained within the **<body>** tags
  - **h1** is used for the heading for your webpage
  - **h2** is used for sub-headings
  - h3, h4, etc. are used for smaller text
- save and refresh **index.html** in browser

```
<> index.html U x
<> index.html > html > body > h2
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Abhilasha Kumar's webpage</title>
5    </head>
6    <body>
7      <h1>My First Webpage</h1>
8      <h2>Welcome to my first webpage!</h2>
9    </body>
10 </html>
```

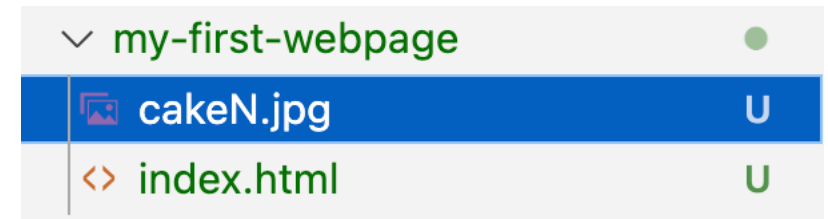
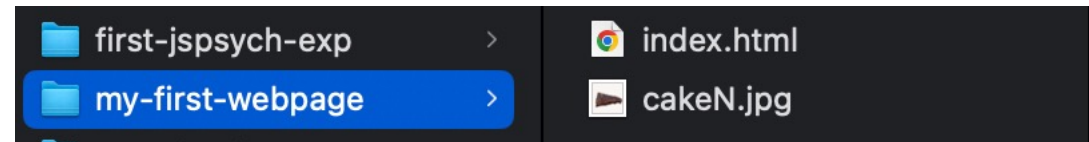


**My First Webpage**

**Welcome to my first webpage!**

# saving an image to your repository

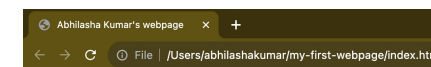
- we can add a variety of text and images to a web page
- first go to [images.google.com](https://images.google.com) and **download and save ANY image** to your repo folder (PSYC 2740 > my-first-webpage)
  - [cakeN.jpg](#) is available on Canvas under Week 3
- this image should appear in your editor pane in VS Code if you saved it in the correct location



# adding an image to index.html

- now add an `<img>` tag to load the image into your webpage
- `<img>` is used to upload an image where **src** specifies the path for the image
  - path must include the full name of the image file (including extension)
- save and refresh

```
index.html U x
index.html > html > body
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Abhilasha Kumar's webpage</title>
5   </head>
6   <body>
7     <h1>My First Webpage</h1>
8     <h2>Welcome to my first webpage!</h2>
9     </img>
10  </body>
11 </html>
```

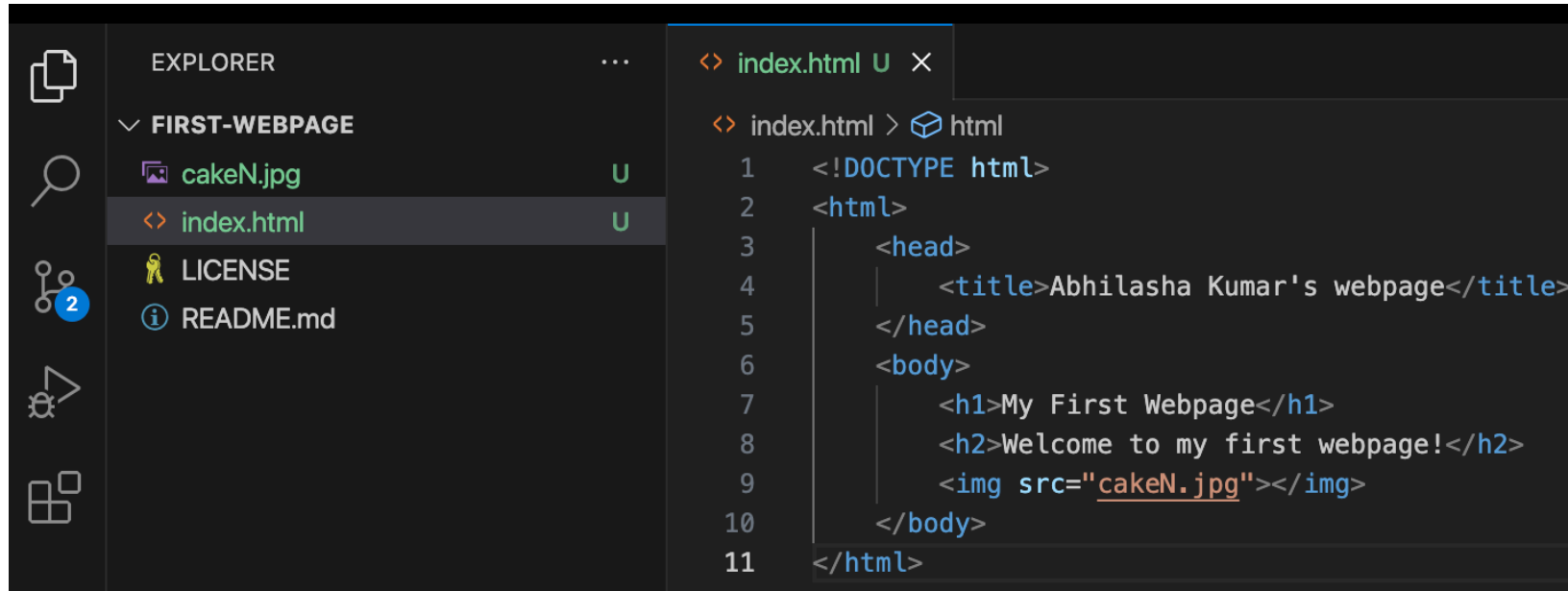


## My First Webpage

Welcome to my first webpage!

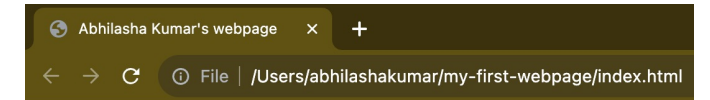


# HTML: review



The screenshot shows a code editor with a dark theme. On the left is the Explorer sidebar showing a folder named 'FIRST-WEBPAGE' containing files 'cakeN.jpg', 'index.html', 'LICENSE', and 'README.md'. The main editor area shows the code for 'index.html' with line numbers 1 through 11. The code is as follows:

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Abhilasha Kumar's webpage</title>
5   </head>
6   <body>
7     <h1>My First Webpage</h1>
8     <h2>Welcome to my first webpage!</h2>
9     </img>
10  </body>
11 </html>
```



## My First Webpage

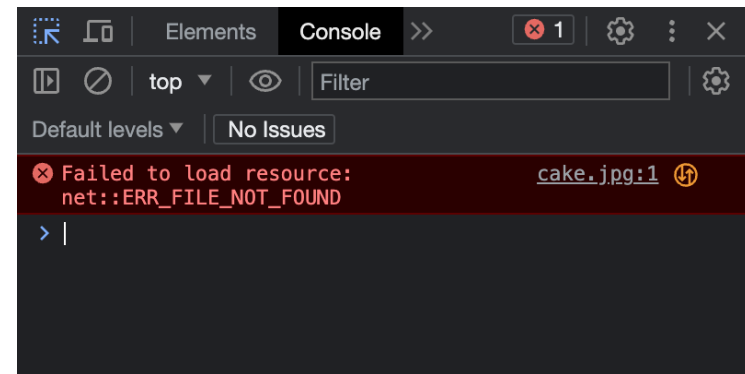
Welcome to my first webpage!



# inspecting the page for errors

- try putting in a wrong filename for the image and opening the index.html page
- when things don't go as expected, you can investigate the errors in the browser using:
  - Command + Option + I
- the “console” tab will tell you if there are any **errors**
- the “elements” tab will tell you which parts of the page correspond to different lines of code in html

```
<> index.html > html > body
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Abhilasha Kumar's webpage</title>
5    </head>
6    <body>
7      <h1>My First Webpage</h1>
8      <h2>Welcome to my first webpage!</h2>
9      </img>
10   </body>
11  </html>
```



# what happens if you...

- forget to close `</h1>` and open `<h2>`
- forget the extension of the image?
- forget to close the `<img>` tag?

```
<> index.html U x
<> index.html > html
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Abhilasha Kumar's webpage</title>
5    </head>
6    <body>
7      <h1>My First Webpage</h1>
8      <h2>Welcome to my first webpage!</h2>
9      </img>
10   </body>
11  </html>
```

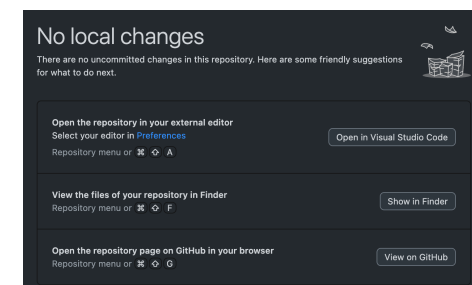
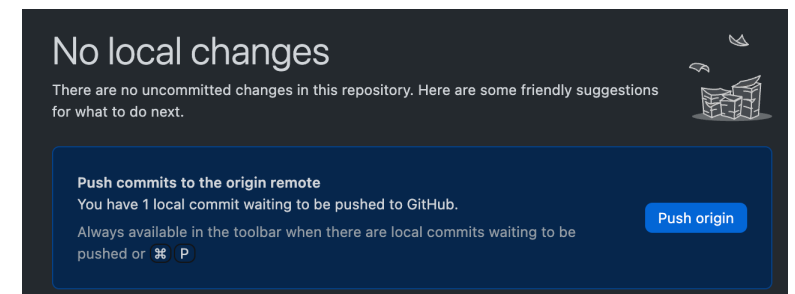
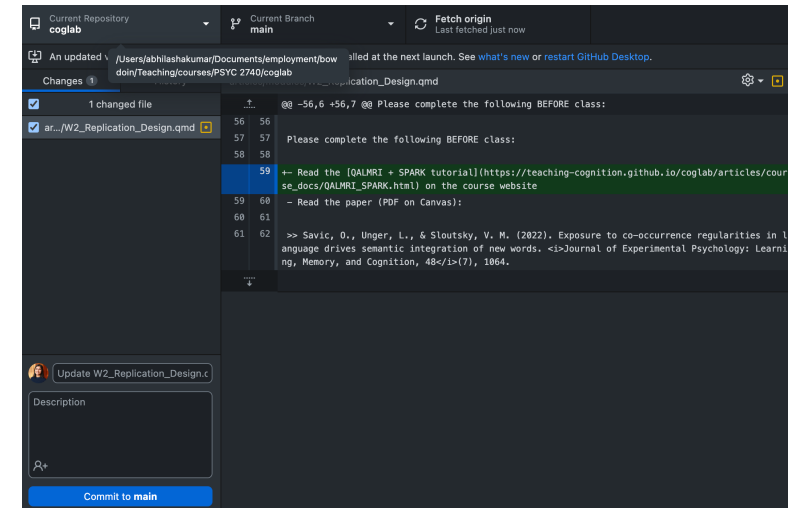
# some more HTML tags

- `<br>`: creates a space (“break”) between lines
- `<p> </p>` starts a new paragraph
- `<b> </b>` **bold**
- `<u> </u>` underline
- `<i> </i>` *italic*
- `<span> </span>`: style-related changes
  - This is a `<span style="color:red">test</span>` for the span tag



# saving your progress so far...

- save your index.html file
- open GitHub Desktop
- review changes, commit, and push
- check if changes are reflected online!



# optional: adding styling

- we can improve the appearance of an HTML page by creating a styling.css file

```
# styling.css > ...
1  body {
2  |     text-align: center; /* Center-align the content */
3  | }
4  |
5  | h1 {
6  | |     color: red; /* Set heading color to red */
7  | | }
8  | |
9  | | h2 {
10 | | |     color: green; /* Set subheading color to green */
11 | | | }
12 | | |
13 | | | img {
14 | | | |     display: block; /* Make the image a block element */
15 | | | |     margin: 0 auto; /* Center-align the image */
16 | | | |     border: 2px solid blue; /* Add a blue border around the image */
17 | | | | }
18 | | | |
```

# optional: adding styling

- we then link this style sheet to our index.html page using the link tag inside the head tag

```
<!DOCTYPE html>
<html>
  <head>
    <title>Abhilasha Kumar's webpage</title>
    .....<link rel="stylesheet" href="styling.css">
  </head>
  <body>
    <h1>My First Webpage</h1>
    <h2>Welcome to my first webpage!</h2>
    </img>
  </body>
</html>
```

# optional: adding styling

## My First Webpage

Welcome to my first webpage!



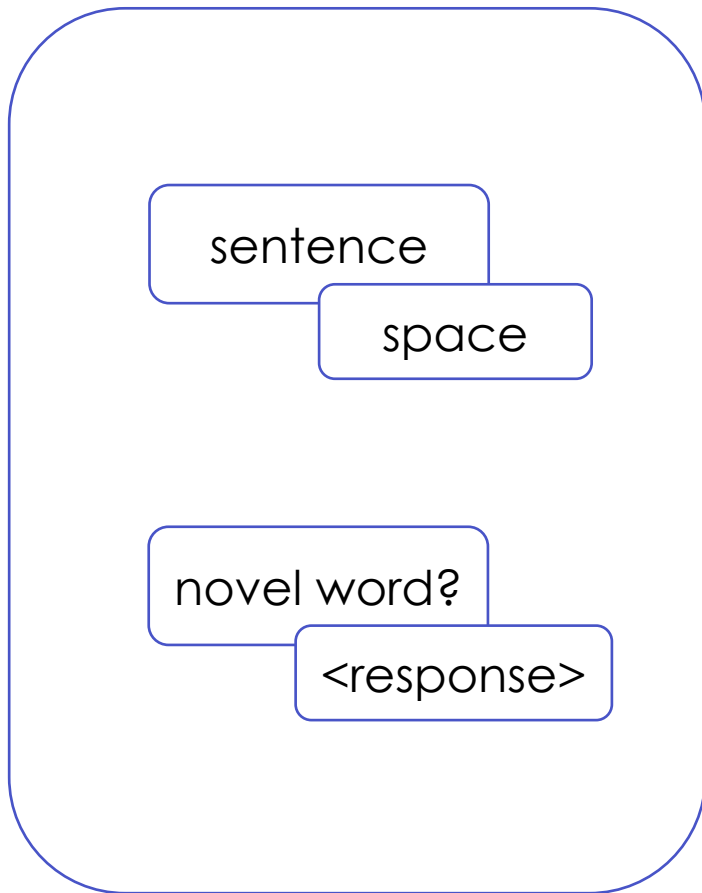
```
<!DOCTYPE html>
<html>
  <head>
    <title>Abhilasha Kumar's webpage</title>
    .....<link rel="stylesheet" href="styling.css">
  </head>
  <body>
    <h1>My First Webpage</h1>
    <h2>Welcome to my first webpage!</h2>
    </img>
  </body>
</html>
```

# how often do I commit??

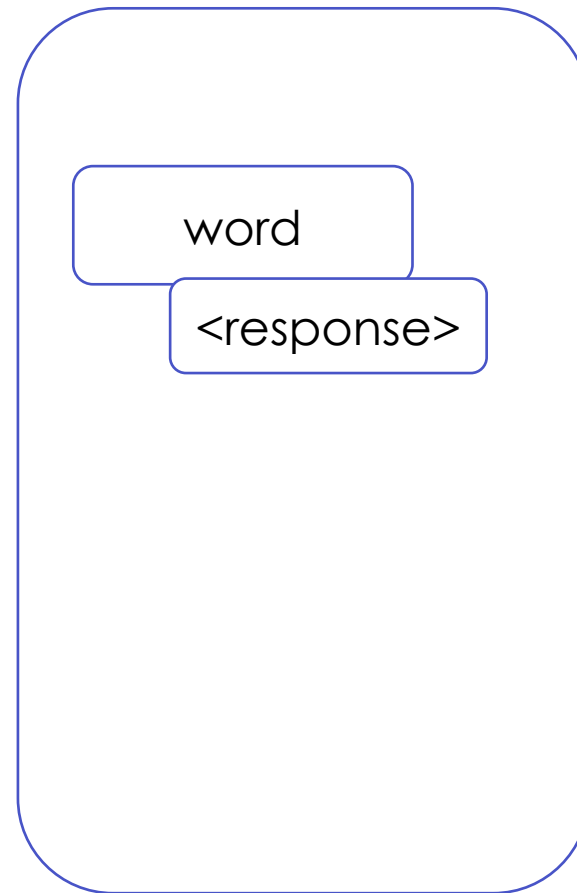
- committing is a **balance**
  - committing every little change can be annoying
  - leaving large chunks of code uncommitted is also not great
    - you could lose your work
    - you could forget important milestones in the project
- commit after you have **completed a milestone**
- commit often but don't overdo it!

# experiment recap

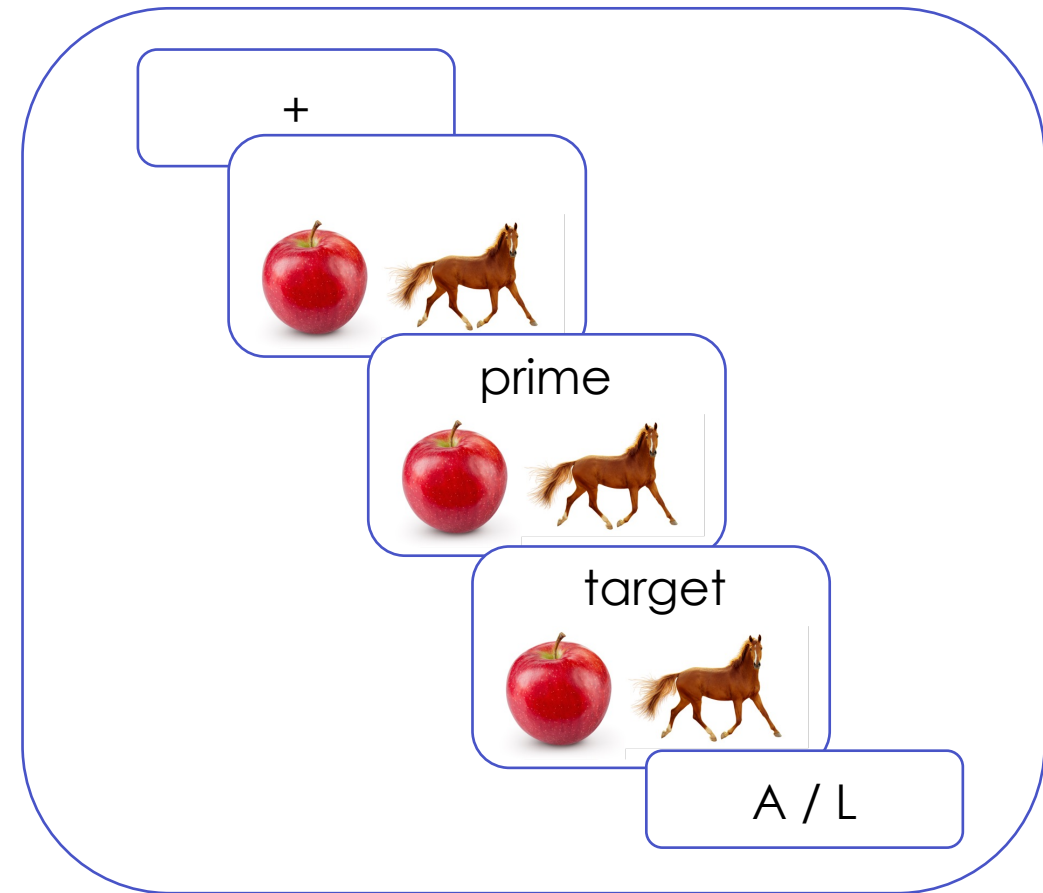
training x 3



association



priming



# next class

- **before** class

- *prep*: de Leeuw, J.R. jsPsych: A JavaScript library for creating behavioral experiments in a Web browser. Behavior Research Methods, 47, 1–12 (2015). <https://doi.org/10.3758/s13428-014-0458-y>
- *prep*: [A non-technical introduction to basic coding concepts](#)
- *try*: Week 3 Quiz
- *apply*: Project Milestone 2 (QALMRI + SPARK)
- *apply*: Optional Meme

- **during** class

- adding *interactivity* to HTML (jsPsych 101)