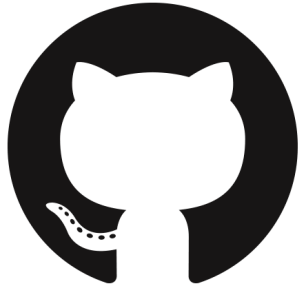# CogLab: your first webpage

WEEK 2

recap

- 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
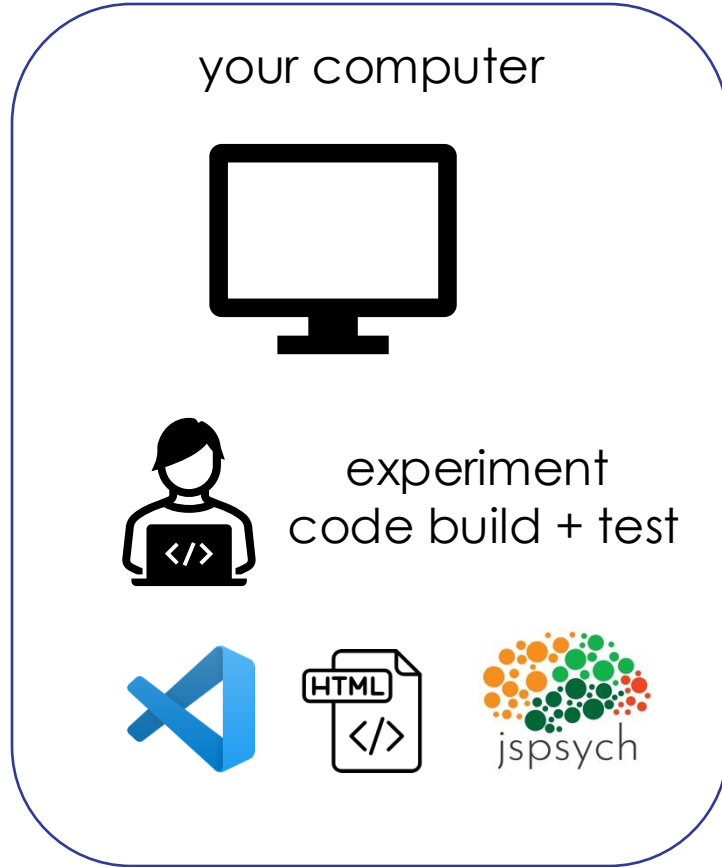 - *download*: Google Chrome (default browser for class)

QALMRI feedback

- [QALMRI for Savic et al. (2022)](#)

quick review

- how do you **bold** something in Markdown?

- what does commit mean?

- what does pull/push mean?

- what does cloning mean?

your computer

experiment
code build + test

content
styling
interactivity

github
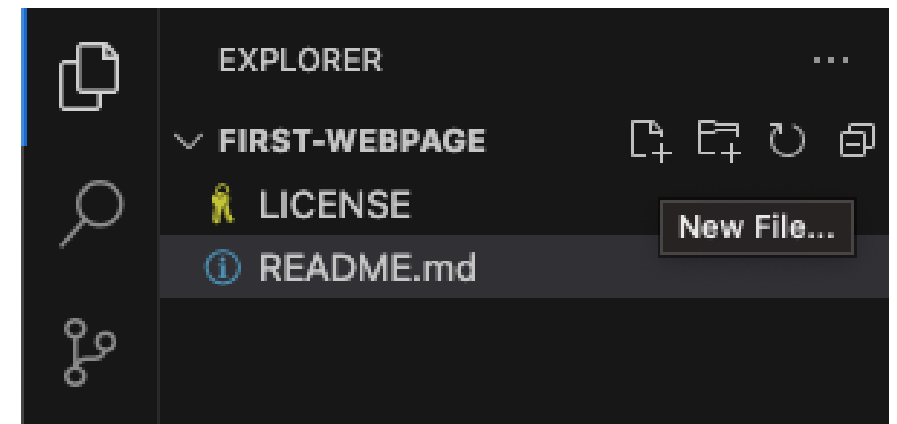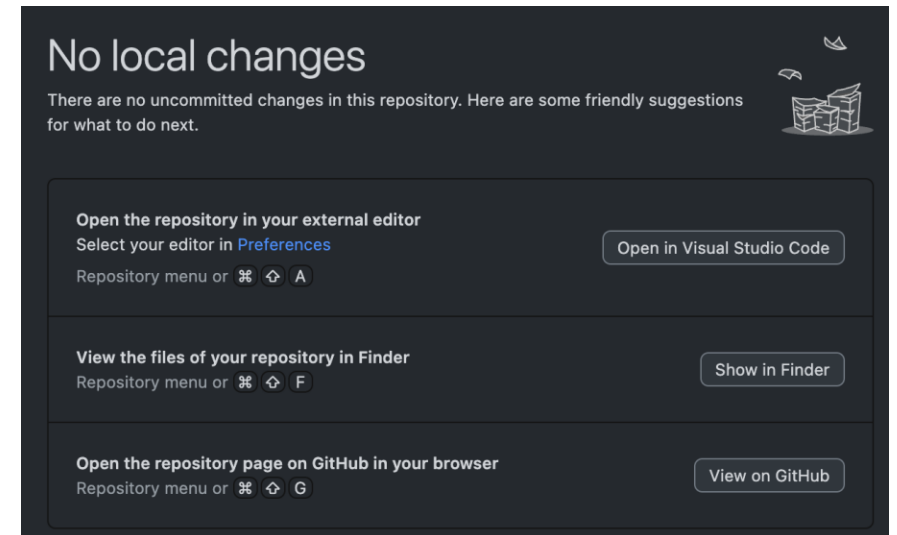keeping
track of
changes

cognition.run
going
online
(URL/IP)

today's agenda

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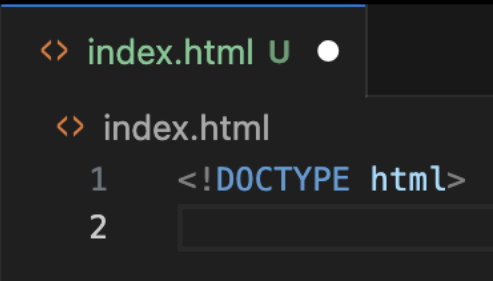- HTML document syntax
- HTML tags

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!
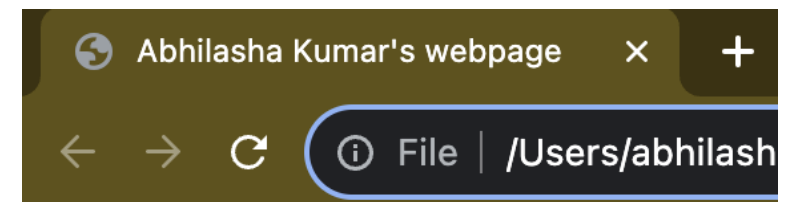 - a dot indicates that your file is unsaved

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

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)

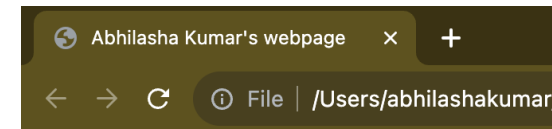- open it in Chrome, your title should appear!

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

Abhilasha Kumar's webpage ✕ ╋

File | /Users/abhilash

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


```
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>
```
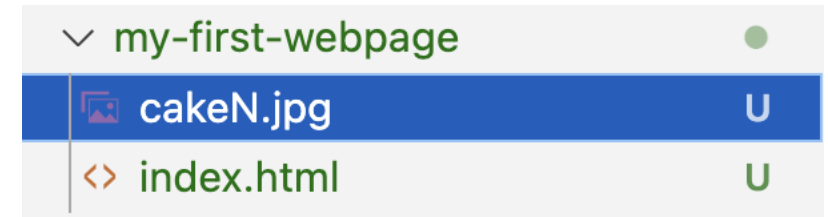
My First Webpage

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 and download and save ANY image to your repo folder (PSYC 2740 > my-first-webpage)
  - cakeN.jpg is available on the website

- 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  ✕

<> 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 src="cakeN.jpg"></img>
 10       </body>
 11   </html>
```
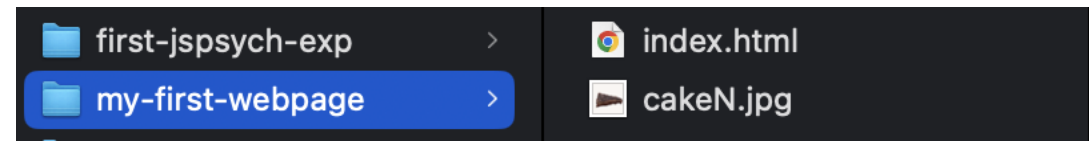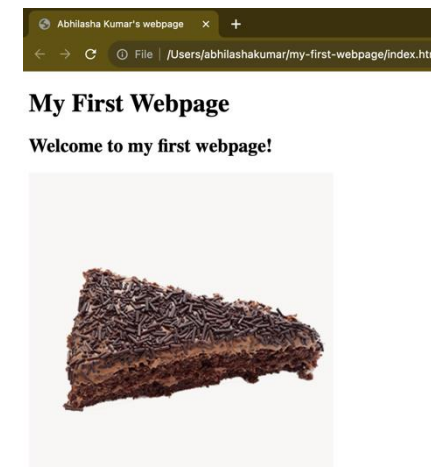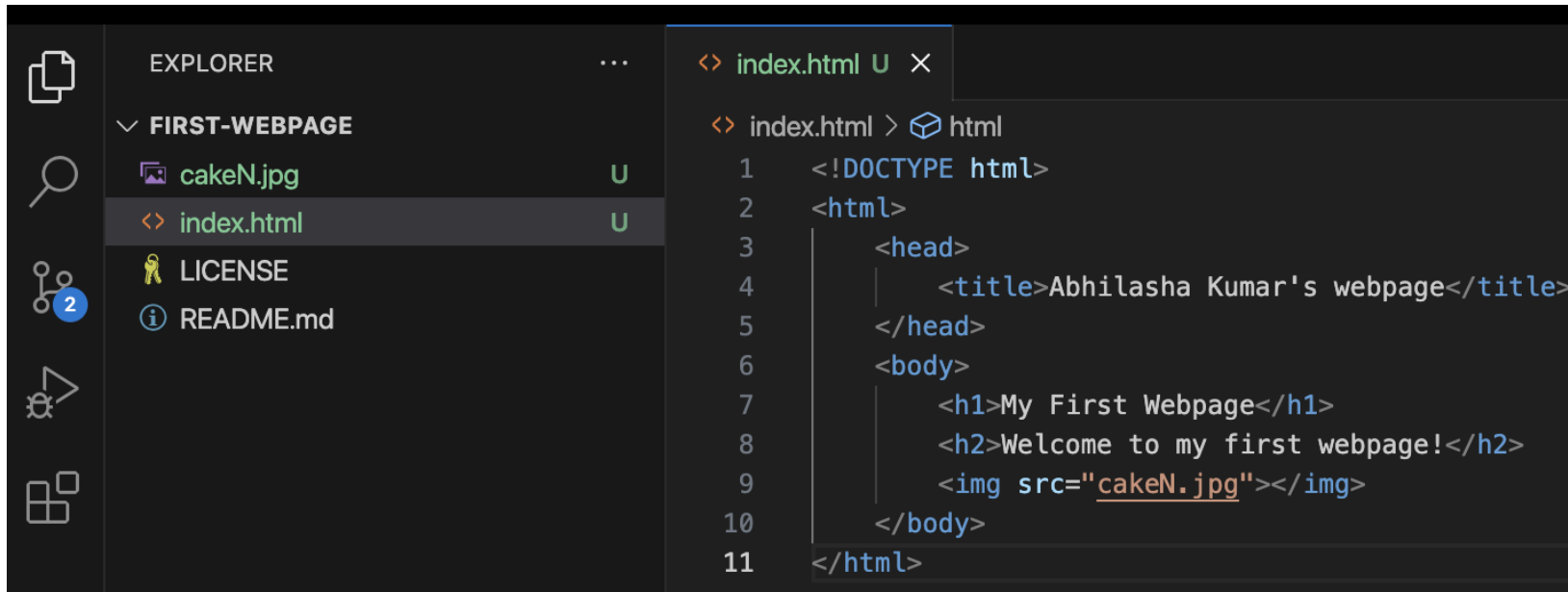

Abhilasha Kumar's webpage   ✕   +

← → C   ⓘ File | /Users/abhilashakumar/my-first-webpage/index.html

My First Webpage

Welcome to my first webpage!

HTML: review

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 Chrome browser using:
  - Command + Option + I

- the "console" panel will tell you if there are any errors

- the "elements" panel 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 src="cake.jpg"></img>
10        </body>
11    </html>
```
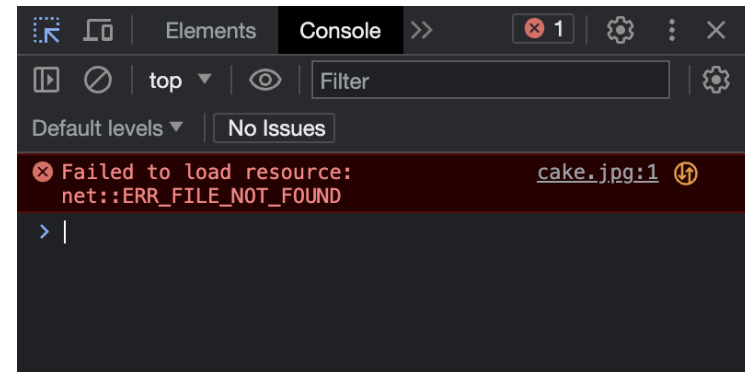
```
⬚ ⊡ | Elements  Console  >>    ⊗ 1 | ⚙ ⋮ ✕
⊡ ⊘ | top ▼ | 👁 | Filter              | ⚙
Default levels ▼ | No Issues
⊗ Failed to load resource:              cake.jpg:1 ⊕
  net::ERR_FILE_NOT_FOUND
> |
```

what happens if you...

- forget to close </h1> and open <h2>

- forget the extension of the image?

- forget to close the <img> tag?

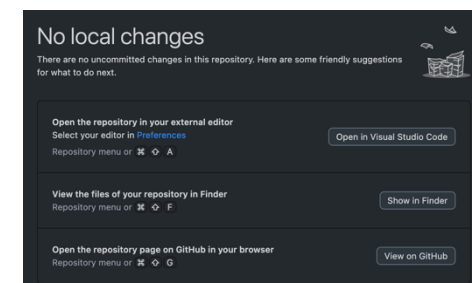```html
<!DOCTYPE html>
<html>
    <head>
        <title>Abhilasha Kumar's webpage</title>
    </head>
    <body>
        <h1>My First Webpage</h1>
        <h2>Welcome to my first webpage!</h2>
        <img src="cakeN.jpg"></img>
    </body>
</html>
```
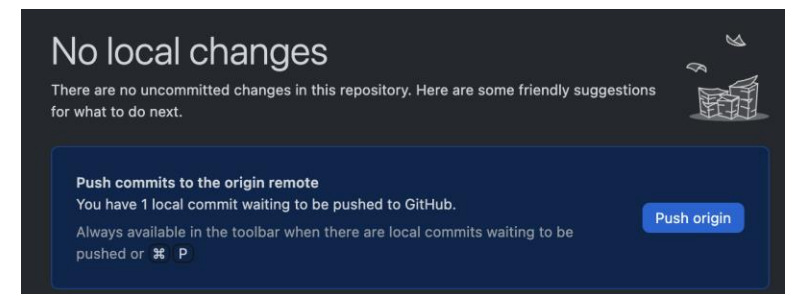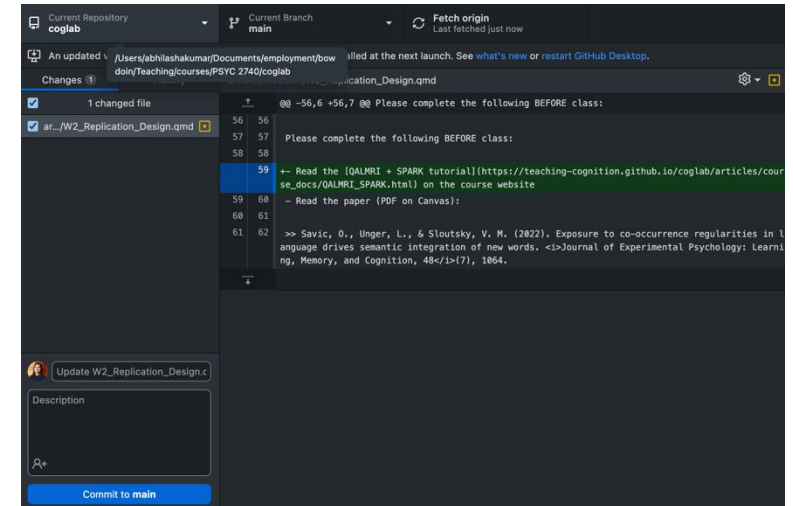
# some more HTML tags

- `<br>`: creates a space ("break") between lines

- `<p> </p>` starts a new paragraph

- `<b> </b>` **bold**

- `<u> </u>` <u>underline</u>

- `<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

```css
# 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

```html
<!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 src="cakeN.jpg"></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 src="cakeN.jpg"></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!

going back to Savic et al.

- think of all the "screens" you will need to build to design the experiment

experiment recap

training

association x 3

sentence
space

novel word?
<response>

word
<response>

x 3

priming

+

prime

target

A / L

next class

- **before** class

Apply 🔗

This week, you will be submitting the following:

- Project Milestone 1 (Team Plan + Lit Review), due Sunday

Before Tuesday 🔗

- Read an article about jsPsych Canvas link:

  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

- Read the following article: >> A non-technical introduction to basic coding concepts

- **during** class
  - adding interactivity to HTML (jsPsych 101)