

# Homework 2: HTML and Grid Layout

Warm up: due Friday 1/31 @ 11:59pm on Courseworks

Main: due Tuesday 2/4 @ 11:59pm on Courseworks.

(accepted as on-time until Wednesday 2/5 @8am)

## Warm-up:

### What to submit:

3 separate files with the following titles:

- My\_tA\_section.pdf
- twitter\_warmup\_screenshots.pdf
- twitter\_warmup.html

### Problem:

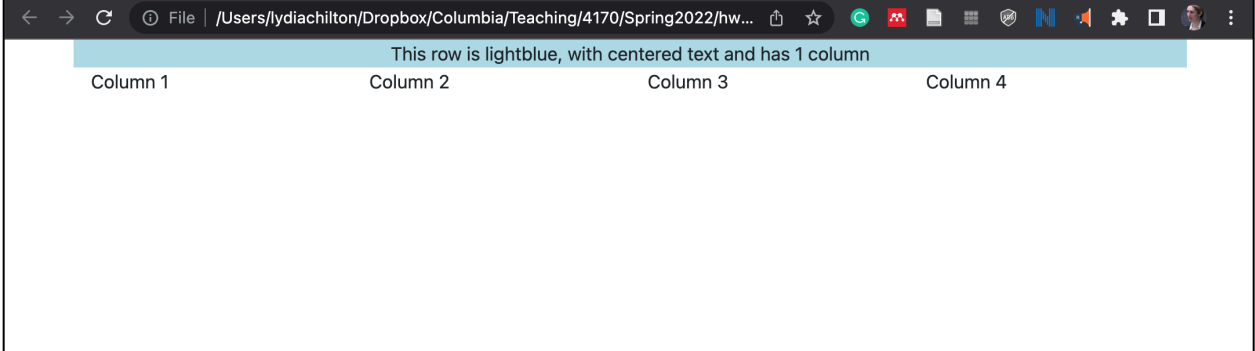
1. **Sign up for a TA section (See Courseworks announcement with link to a Google Sheet).**
  - a. Which TA did you select?
  - b. What time slot did you select?
    - i. For Section 1 it's either 1:10-1:45 or 1:45-2:25 (mostly)
    - ii. For Section 2 it's either 7-8 or 8-9
2. **Recreate the following webpage.** (Shown below at two different screen sizes)
  - a. Use Bootstrap 5.0.2.
  - b. Add the following information in the in the <head> section to attached the correct version of bootstrap and to allow your browser to easily simulate responsive design:

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

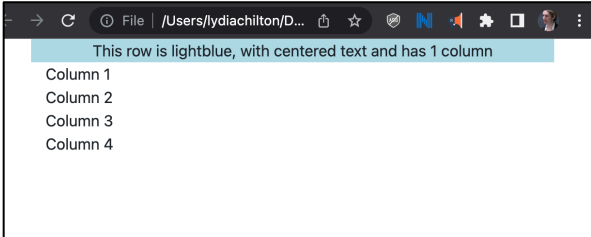
```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet" crossorigin="anonymous">
```

- c. Create one row with only 1 column. Make that row or column have a lightblue background-color. The text in that column should be centered.
- d. Create another row with 4 evenly spaced column on a medium screen.
- e. In that second row, when the screen is small, the columns should wrap down the page.
- f. Submit you code in one html file.
- g. Submit a PDF with two screenshots.
  - i. First show the webpage when it's on a large device
  - ii. Second, show the webpage when it's on a small device.
  - iii. Your images should look like the examples below.

Large screen:

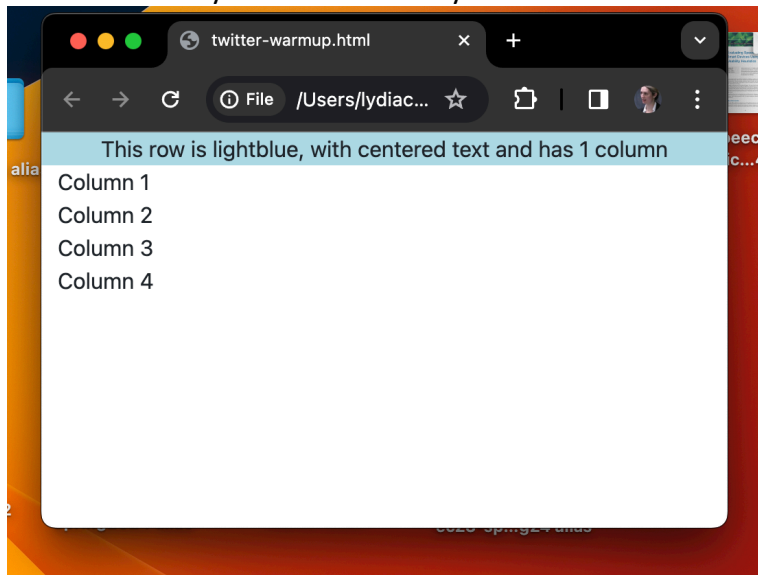


x-small screen:

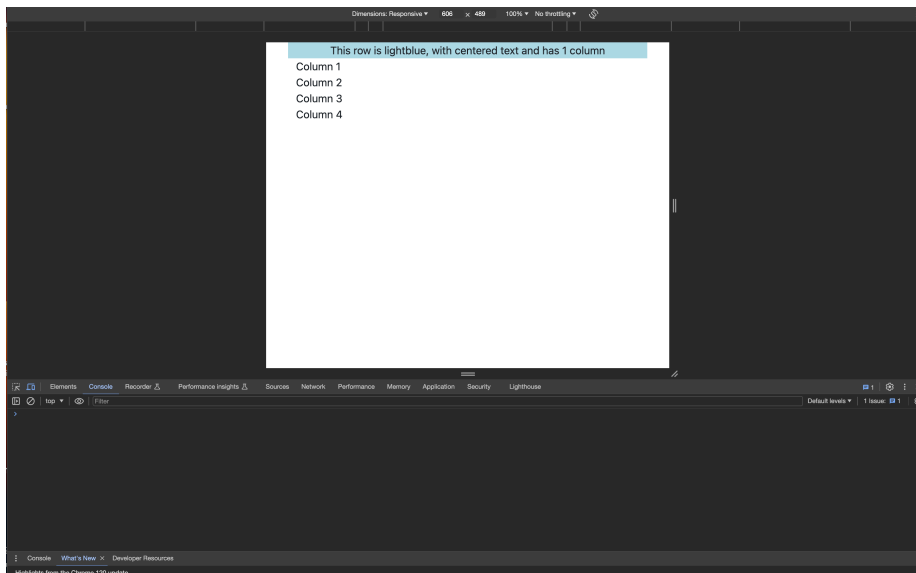


Note: There are two easy ways to simulate an x-small screen on your laptop.

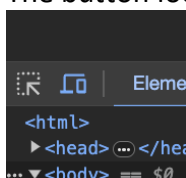
1. Manually make the size of your browser smaller:



2. In Chrome, open the Developer Tools (command+option+i) or (view -> developer -> developer tools). Then press the second button from the left to toggle from desktop view to phone view:



The button looks like this:



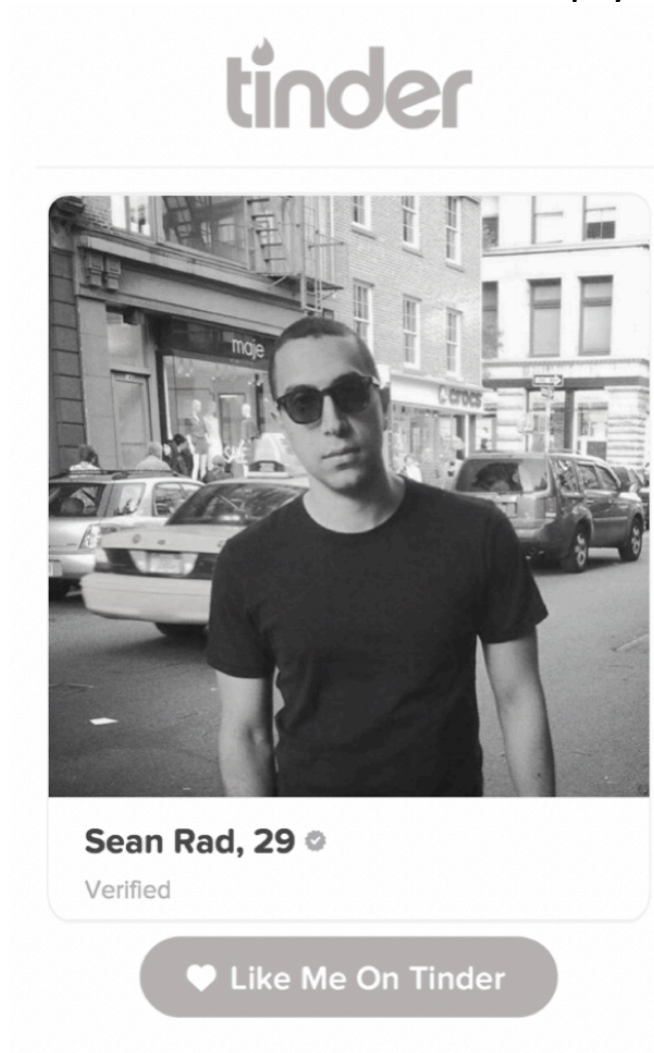
## Main

### What to submit:

- 2 html files:
  - tinder.html
  - twitter-home.html
- 2 youtube videos explaining your code with narration and interactively using the Developer Tools

### Problems

1. Recreate the Tinder information display below in HTML and CSS.



In the <body>, use only the following basic HTML elements in the body: <div>, <span>, <br>, <hr> (this last one is optional). Don't use <table>. You will get zero points if you use a table

element. You will need to figure out how some of these stylings are achieved on your own. Ask Google. Ask GPT. Ask a friend. Real programmers have to look up things like this all the time.

All styles must be added in the CSS header. No inline style tags.

Your solution should look pretty close to the image above. A few pixels off here or there is fine. You don't need to find the exact shade of grey. Your solution should demonstrate that you understand HTML layout and styling. Don't worry about matching the font, just the size and color of the text is enough.

Use only the following images from this location (do not copy the images to your local machine)

- [http://coms4170.cs.columbia.edu/2019-spring/assignments/hw2/tinder\\_images/tinder\\_logo.png](http://coms4170.cs.columbia.edu/2019-spring/assignments/hw2/tinder_images/tinder_logo.png)
- [http://coms4170.cs.columbia.edu/2019-spring/assignments/hw2/tinder\\_images/tinder\\_person.png](http://coms4170.cs.columbia.edu/2019-spring/assignments/hw2/tinder_images/tinder_person.png)
- [http://coms4170.cs.columbia.edu/2019-spring/assignments/hw2/tinder\\_images/tinder\\_verified.png](http://coms4170.cs.columbia.edu/2019-spring/assignments/hw2/tinder_images/tinder_verified.png)
- [http://coms4170.cs.columbia.edu/2019-spring/assignments/hw2/tinder\\_images/heart.png](http://coms4170.cs.columbia.edu/2019-spring/assignments/hw2/tinder_images/heart.png)

Note: copying and pasting text from a PDF sometimes distorts the URL. To get these URLs, please visit the page, and copy the URL from the browser.

In your video, show us your rendered HTML page in the webbrowser and explain how you did the following. Use the Developer Tools to interactively show your HTML and styles. Convince us you understand how you implemented the design, including the following:

- a. How did you implement the thin grey line under the logo:
  - i. What is the HTML element?
  - ii. How did you style it?
- b. How did you implement the border the rounded corners:
  - i. What is the HTML element?
  - ii. How did you style it?
- c. How did you get the white heart to show up on the solid grey background:
  - i. What was the HTML element?
  - ii. Why did it work?
- d. How did you get the heart to be next to the "Like me on Tinder" text:
  - i. What is the HTML element?
  - ii. how did you style it?
- e. How did you get the verified image to be next to the "Sean Rad, 29" text:
  - i. What is the HTML element?
  - ii. How did you style it?
- f. How did you center the element containing the Tinder logo:
  - i. What is the HTML element?

- ii. How did you style it?
- g. How did you center the element containing the text "Like me on Tinder":
  - i. What is the HTML element?
  - ii. How did you style it?

2. Recreate Twitter Home Layout with Bootstrap 5.0.2 (as shown in image below)  
Use only two HTML elements within the html body: <div>, <img>. Don't use <table>. You will get zero points if you use a table element. You can use <span> if you want to, but it isn't necessary.

All styles must be added in the CSS header. No inline style tags.

- Use Bootstrap 5.0.2 as directed before.
- Your site must render as soon below for medium-sized screens (or larger) and small screens.
- Use the following image url:
  - <http://coms4170.cs.columbia.edu/2020-spring/hw/hw2/columbia.jpg>

On a medium-sized screen or larger (like a laptop)

What's happening?

Home About Submission Deadlines FAQ Contact

Section header

title1



title2



title3



title4



Featured

title5



title6



title7



Grid Within Grid





On an x-small screen (like a phone)

What's happening?

Home About Submission Deadlines FAQ

Contact

Section header

title1



title2



title3



title4



Featured

title5



title6



title7



Grid Within Grid



- a. In your video,
  - a. show your code for both size screens.
    - i. Show what code you use to get it to shown up correctly on x-small screens.
  - b. Explain the things you did that were important to make it look right.
    - i. This is somewhat open-ended, but if you understand your code, then hopefully it you can intuit the type of information we want.
    - ii. If you're unsure, show a TA a video and ask them if they find it convincing.
    - iii. Videos must be under 5min. We will not watch past 5 minutes. (hopefully they are much shorter than 5 minutes.
- b. Submit the code as twitter-home.html