

CHECKING IN

SHOW OF HANDS: About Your Assignment

Were you able to successfully complete the homework following the instructions?

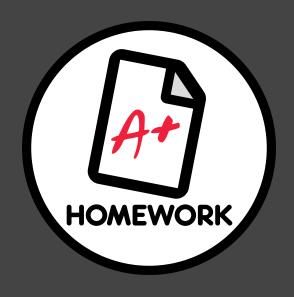
	Nailed It!
	No answers???!!!
	I'm not even speaking to you right now

THIS ASSIGNMENT



- This assignment was hard, and you've been thrown into the deep end
- This is designed to resemble a real-world project
- Learning to use Google, your dev tools and sample code on StackOverflow are essential skills

HOMEWORK REVIEW



OBJECTIVES

- Distinguish pseudo elements from pseudo classes
- Use positioning to control stacking order and placement of elements on the page
- Install a web server locally using Node.js and npm

PSEUDO ELEMENTS

PSEUDO ELEMENTS

- Pseudo elements create new elements in our page without editing our HTML.
- They are different from pseudo classes (like the :hover or :nth-child), which work on existing elements in our page.
- Since CSS3, pseudo elements are preceded by two colons, although for backward compatibility they will work with a single colon.

FIVE PSEUDO ELEMENTS

- 1. ::before: Creates a new element that is the first child.
- 2. ::after: Creates a new element that is the last child.
- 3. ::first-letter: Creates a new element that contains the first letter.
- 4. ::first-line: Creates a new element that contains the first line.
- 5. ::selection: Create a new element that contains only the selected text.

::BEFORE & ::AFTER

• The before and after pseudo elements must have a property of content even if the value is an empty string "".

```
//Adds a copyright as the last child of the footer element
footer::after {
  content: "© 2016 Acme, Inc. All rights reserved.";
}
```

#FIRST-LETTER

 The first-letter pseudo element takes: float, margin, padding, border, font and color properties only.

```
//Floats the first letter and changes its color and font
p::first-letter {
  float: left;
  background: blue;
  padding: 10px;
  color: white;
  font-size: 2em;
}
```

::FIRST-LINE

 The first-line pseudo element takes: font and color properties only.

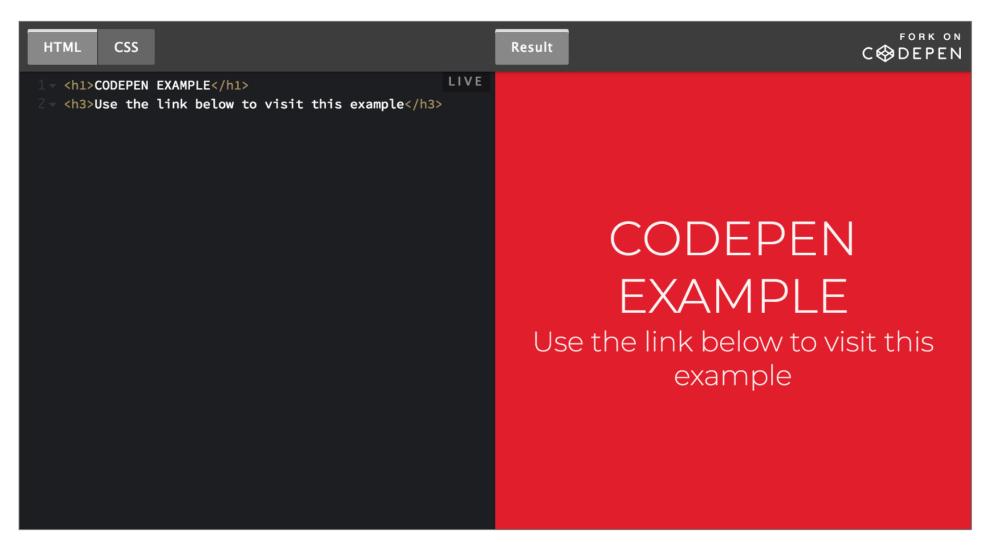
```
//Makes the first line bigger and purple
p::first-line {
  font-size: 2em;
  color: purple;
}
```

::SELECTION

 The selection pseudo element takes: color, background, and outline properties only.

```
//Change the background color of the selection
p::selection {
  background: yellow;
}
```

PSEUDO ELEMENTS



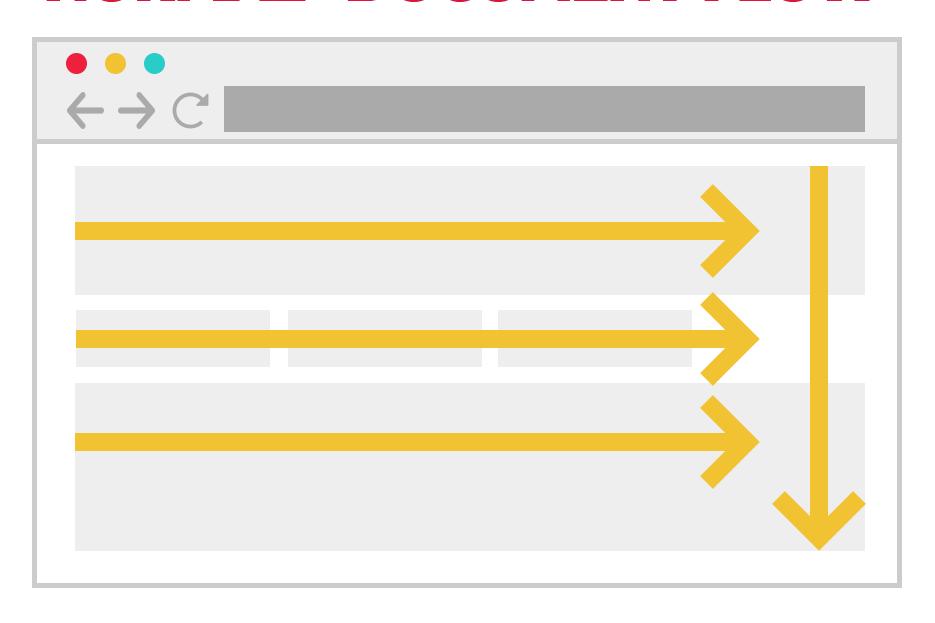
https://codepen.io/jmell/pen/NOBmKo

POSITIONING IN CSS

POSITIONING

The CSS position property is one way for us to control how elements are placed on the page relative to other elements or to the viewport.

NORMAL "DOCUMENT FLOW"



ELEMENTS ARE STATIC

- By default, all elements have position static.
- They will follow the normal document flow.
- They will behave as either block or inline and align themselves in the window according to their source order.

CHANGING HOW AN ELEMENT FLOWS

- There are five different values for the position property:
 - 1. **static**: default
 - 2. relative
 - 3. absolute
 - 4. fixed
 - 5. **sticky**

POSITION: RELATIVE

```
/* Moves the element 150px up relative to its static placement */
div {
  position: relative;
  top: -150px;
}
```

- Relative elements stay in the normal flow
- But, they can be moved relative to their natural position using top, right, bottom and left properties.
- Relative elements anchor descendants with absolute positioning.

POSITION RELATIVE



```
div:nth-child(2) {
   position: relative;
   top: -150px;
}
```

Leaves the space where it would flow without positioning.

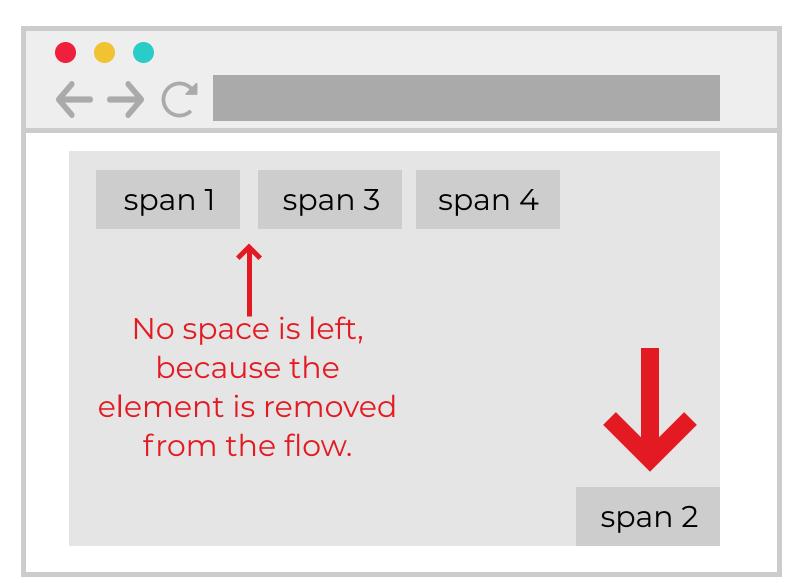
POSITION: ABSOLUTE

```
/* Moves the element relative to its nearest ancestor
   with positioning other than static */

div {
   position: absolute;
   bottom: 0;
   right: 0;
}
```

- Absolute elements are removed from the document flow
- They are positioned relative to the nearest ancestor with position not static

POSITION ABSOLUTE



```
div {
   position: relative;
}

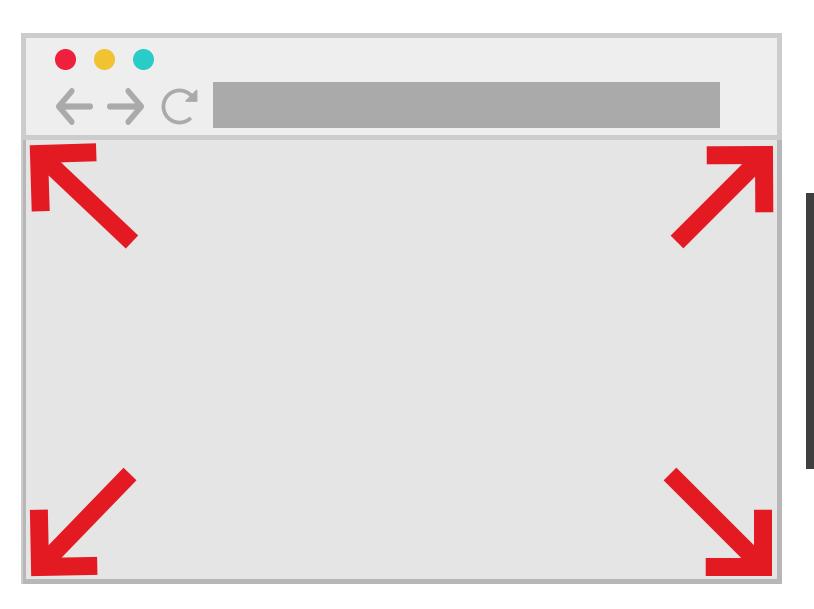
span:nth-child(2) {
   position: absolute;
   bottom: 0;
   right: 0;
}
```

POSITION: FIXED

```
/* Moves the element relative to the viewport */
div {
  position: fixed;
  top: 0;
  right: 0;
  bottom: 0;
  left: 0;
}
```

- Fixed elements are removed from the document flow
- They are positioned relative to the viewport (they remain fixed even when the page is scrolled)

POSITION FIXED



```
.overlay {
  position: fixed;
  top: 0;
  left: 0;
  bottom: 0;
  right: 0;
  background: rgba(0,0,0,.5);
}
```

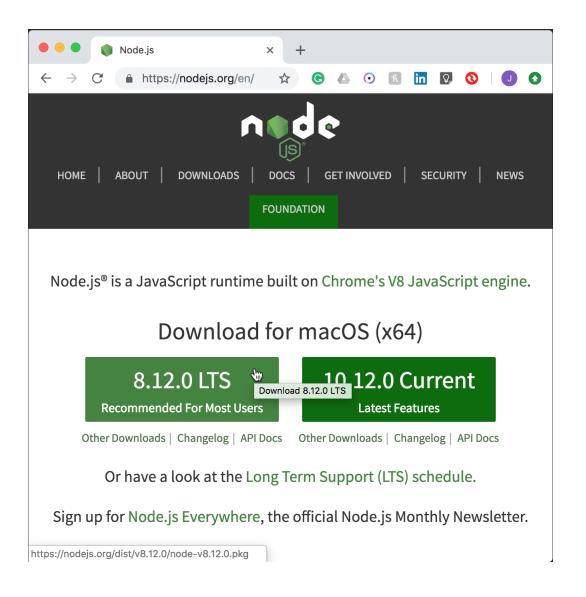


INSTALLING A LOCAL SERVER

NODE.JS & NPM

- Node.js is a runtime environment for Javascript
- Simply put, Node.js makes it possible to run Javascript on a computer outside of the browser
- npm stands for Node Package
 Manager and is a tool that lets us easily add, remove and configure stuff written for Node.js

STEP 1: INSTALL NODE.JS



- Go to nodejs.org
- Download the LTS version of Node.js for your operating system
- Run the installer and follow the onscreen prompts.

STEP 2: CHECK THAT NODE.JS & NPM ARE INSTALLED

- Go to Applications > Utilities >
 Terminal
- At the prompt, type node -v
- You should get back v8.12.0
- Next type npm -v
- You should get back v6.4.1

STEP 3: INSTALL BROWSERSYNC

- In the Terminal, type:

 sudo npm install -g browser-sync
- Enter your password when prompted.
- This step may take a few minutes.
- To check if the install was successful, type: browser-sync --version
- You should get back: 2.23.6 or some later version

USING YOUR SERVER

LAUNCHING YOUR SERVER

- In Terminal, switch to the directory where your website is.
- The easiest way to do this in Terminal is to type cd (with a space after it), then drag the folder you want to switch to onto the terminal window from Finder and press ENTER.
- Next, type the following command and press

WHAT'S HAPPENING HERE?

- With our server installed, we can use that long-ass command to tell it to launch the server and serve the files in the current directory
- The command also tells it to watch for any changes we make to those files
- If we save any files in the directory, it will update the web page in the browser!
- Finally, we tell it to use the local address of http://localhost:9000/

RUNNING YOUR SERVER

```
[Browsersync] Access URLs:

Local: http://localhost:9000
External: http://localhost:3001
UI: http://localhost:3001
UI External: http://10.0.0.21:3001

[Browsersync] Serving files from: ./
[Browsersync] Watching files...
```

- Local is the address you use on the machine that is running the server
- UI provides a browser-based interface that lets you configure certain features of your server
- External (requires additional configuration) allows you to go to the website from any other device on the same network (e.g., same wifi)

1

The server will shut down if you close the the Terminal window.

To manually shut down the server, type Control + C in the Terminal window.

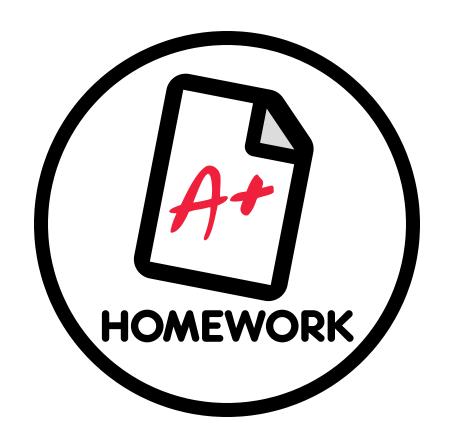
TERMINAL TIPS

- Type exit to save your session before closing the window
- Go back to previously typed commands with the keyboard up arrow. Press to run the command.
- The cd command means change directory, and cd... goes back one directory level.
- The ls command lists all of the files in the current directory.
- To go to your home directory, type: cd ~/

MAKE A SHORTCUT

- We can save that long command to launch our server inside our profile with an alias, so that we can run it by typing a short command like: serve instead.
- Learn more about it on the wiki:

https://github.com/jmeadell/FEWD/wiki/Browsersync



CLASS 5 HOMEWORK

https://github.com/jmeadell/FEWD/tree/master/Class5/homework

HOMEWORK FOR NEXT CLASS

- Fix up your Relaxr blog and get it uploaded.
- If you've already got it working to your satisfaction, then revisit your original profile homework and see if you can add the overlays to the gallery like we did in class today.
- If you're still looking for more to do, set up your local server with a shortcut following the instruction in the wiki.

EXIT SURVEYhttps://goo.gl/EB4XFw

GO BUILD AWESOME THINGS!