HELLO!
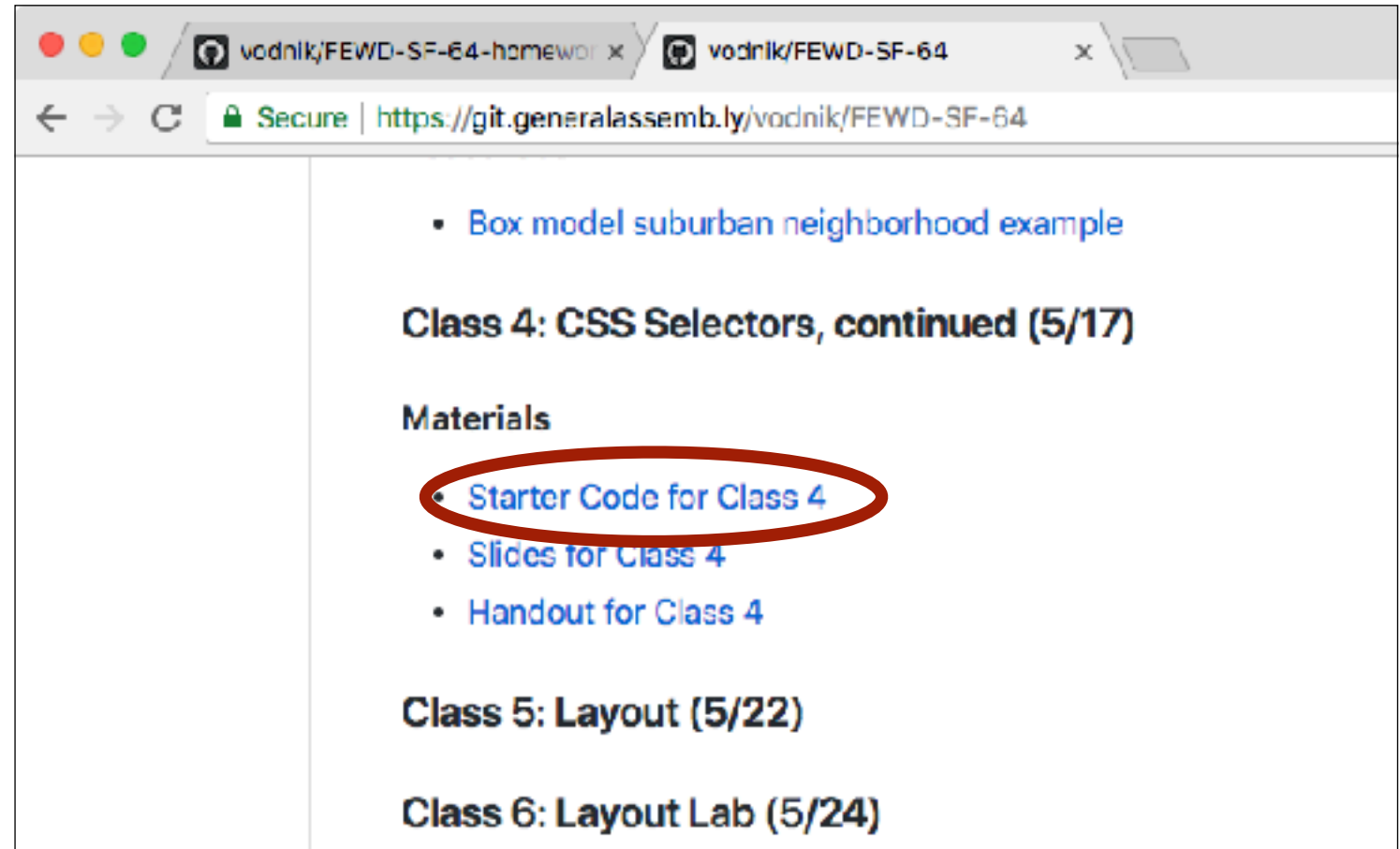
▸ Go to the [class repo on GitHub Enterprise](#)

▸ Click the **Starter Code for Class 6** link to download the files

▸ Move the downloaded file to your FEWD folder

▸ Unzip the files

MONUMENT LAB

WEEKLY OVERVIEW

WEEK 3	Layout / Layout Lab
WEEK 4	Grid Systems & Responsive Design / CSS Positioning
WEEK 5	Forms / Final Project Lab

LEARNING OBJECTIVES

‣ Practice web development by transforming a design comp into a webpage

AGENDA

Review

Using Chrome Developer Tools

Monument Landing Page Lab

EXIT TICKET QUESTIONS

1. More interactive coding/codealongs!

2. I really appreciate when the slides include example code. Some of the slides in the beginning did not have that example i.e. div vs. span

3. What are examples on live websites that use these flex techniques?

4. The terminology of flex items, flex container is a bit confusing

5. I'd like to get better at writing the most concise/organized code for the task.

6. I had trouble achieving the align-items: stretch style even after setting the flex items height to auto

7. A little confused by the percentages & the flexbox items

REVIEW

FLEXBOX — HTML STRUCTURE

WHAT IS FLEXBOX?

```html
<section>
    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>
    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>
    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>
</section>
```
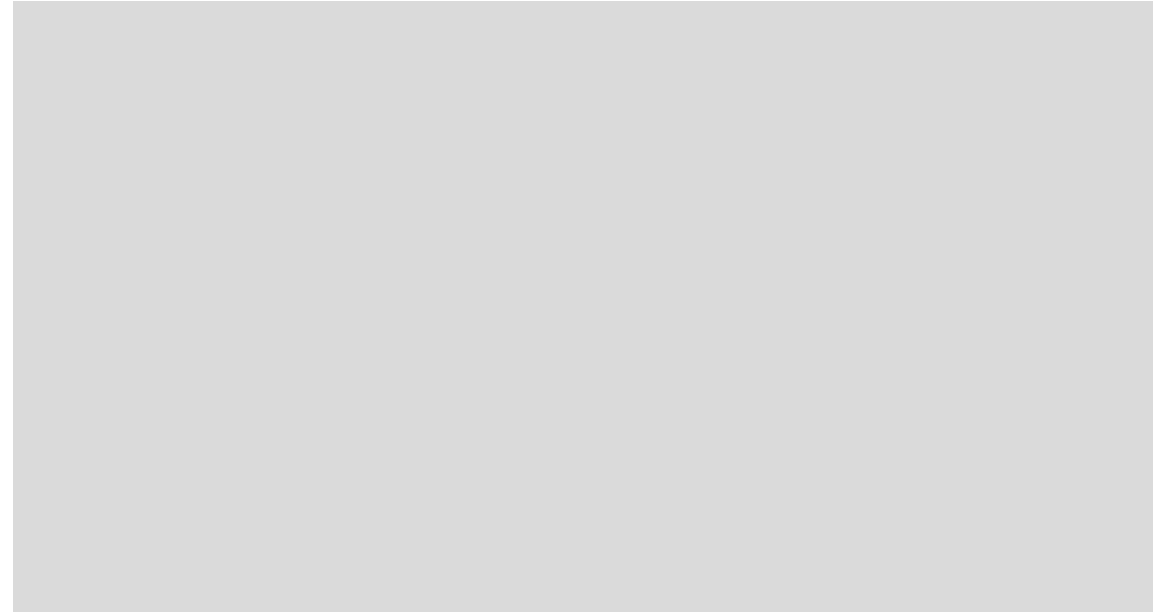
WHAT IS FLEXBOX?

parent wrapper:
flex container

```
<section>
    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>

    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>

    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>
</section>
```
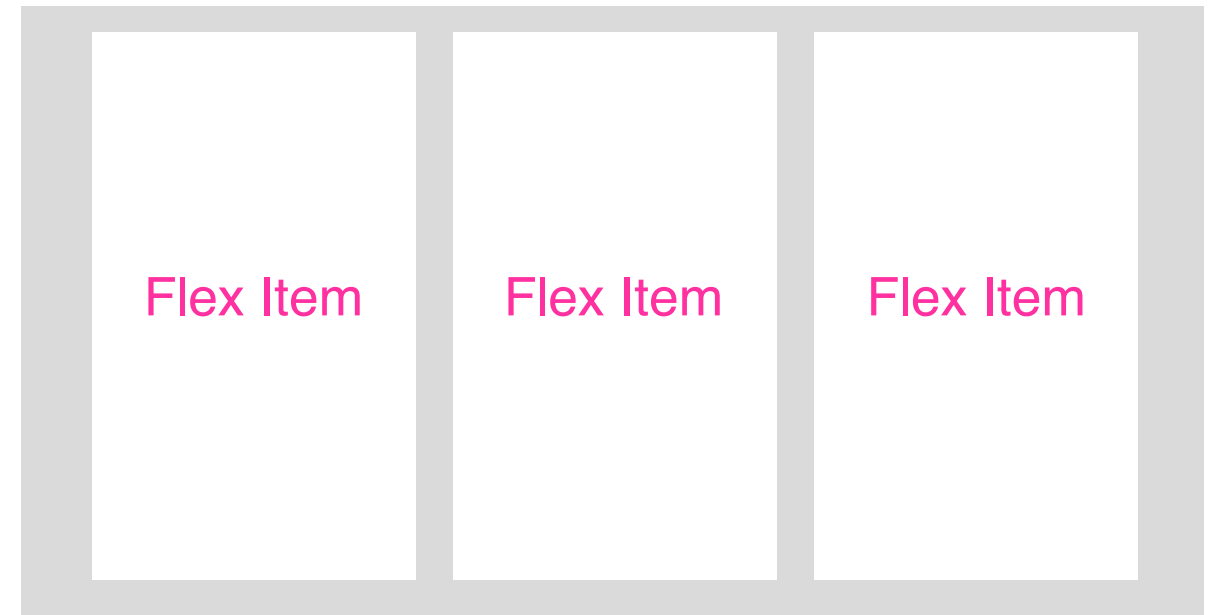
Flex Container

WHAT IS FLEXBOX?

direct children:
flex items

```html
<section>
    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>

    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>

    <article>
        <h1>Article title</h1>
        <p>Lorem ipsum dolor sit amet.</p>
    </article>
</section>
```
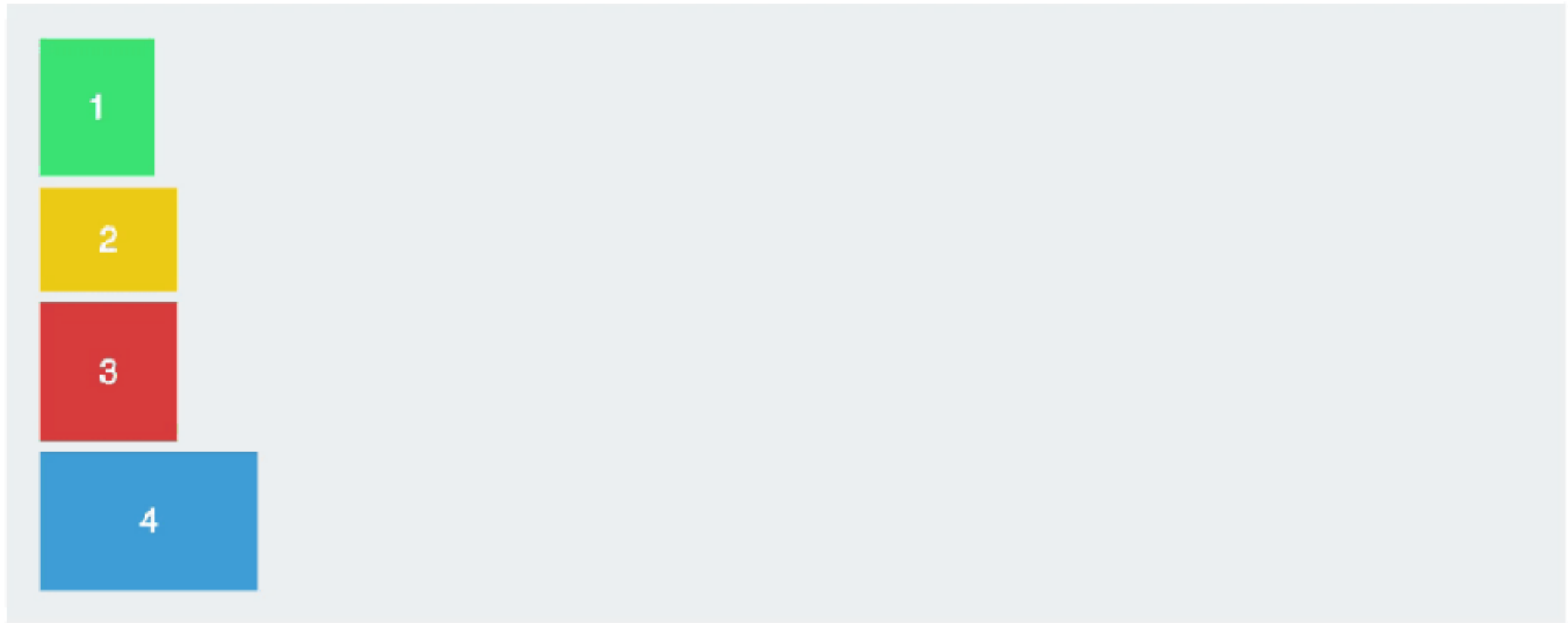
Flex Container

Flex Item   Flex Item   Flex Item

MULTI-COLUMN LAYOUTS

display: block;

PARENT WRAPPER (FLEX CONTAINER)

In order to get started with Flexbox, you need to make your container into a flex container. This is as easy as:

parent wrapper:
flex container

```html
<section>
        <article>
            ...
        </article>
        <article>
            ...
        </article>
        <article>
            ...
        </article>
</section>
```

```css
section {
    display: flex;
}
```

HOW DOES FLEXBOX WORK?

By default, items are arranged along the main axis, from left to right. This is why your squares defaulted to a horizontal line once you applied `display: flex`.

WHAT IS FLEXBOX?

⭐ display: flex; ⭐

Flex Container

Flex Item   Flex Item   Flex Item

STEPS TO ACHIEVE A MULTI-COLUMN LAYOUT — CSS

FLEX CONTAINER:

‣ Add `display: flex`

FLEX ITEMS:

‣ Set a `width` in percentages

FLEXBOX PRACTICE

ACTIVITY: FLEXBOX PRACTICE

Recreate this layout in [CodePen](#)!

[Mocks](#)

Lorem Ipsum Generators:
* [Lorem Ipsum](#)
* [Cat Ipsum](#)
* [Office Ipsum](#)
* [Hipster Ipsum](#)

Alice's Adventures in Wonderland

Down the Rabbit Hole

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, "and what is the use of a book," thought Alice "without pictures or conversation?"

So she was considering in her own mind (as well as she could, for the hot day made her feel very sleepy and stupid), whether the pleasure of making a daisy-chain would be worth the trouble of getting up and picking the daisies, when suddenly a White Rabbit with pink eyes ran close by her.

Background Information

Alice's Adventures in wonderland was published in 1865, three years after Charles Lutwidge Dodgson and the Reverend Robinson Duckworth rowed a boat up the Isis on 4 July 1862 with the three young daughters of Henry Liddell: Lorina Charlotte Liddell, Alice Pleasance Liddell, and Edith Mary Liddell.
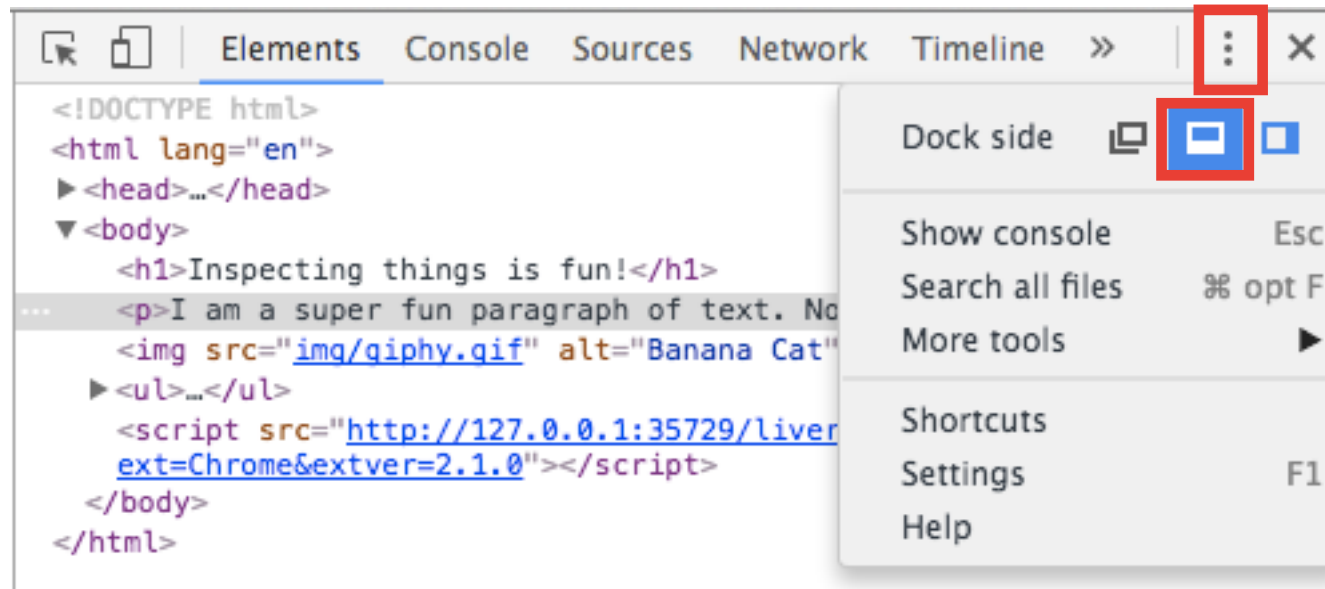
USING CHROME DEV TOOLS

LET'S USE THE INSPECTOR!

There are several ways to open Chrome dev tools:

‣ Right click on an element and click "inspect"
‣ In Chrome, go to view > developer > Developer Tools
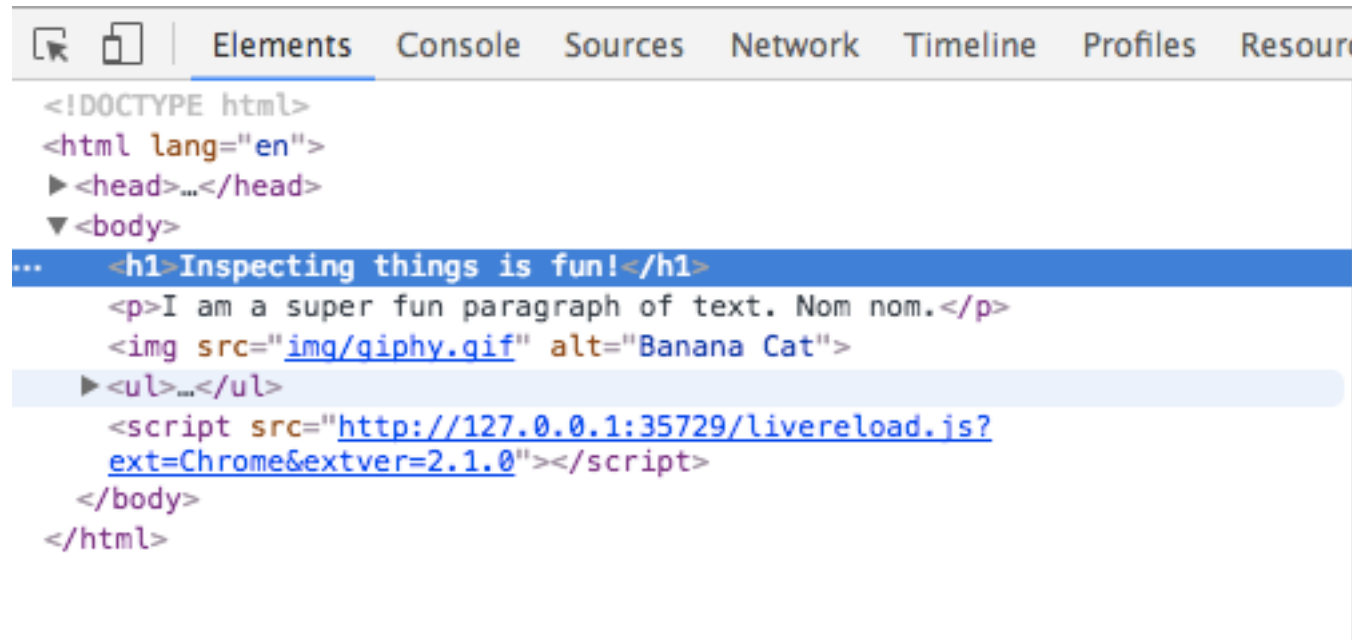‣ Keyboard shortcut: Mac: *Cmd + Opt + I*   Windows: *F12, Ctrl + Shift + I*

DOCK LOCATION

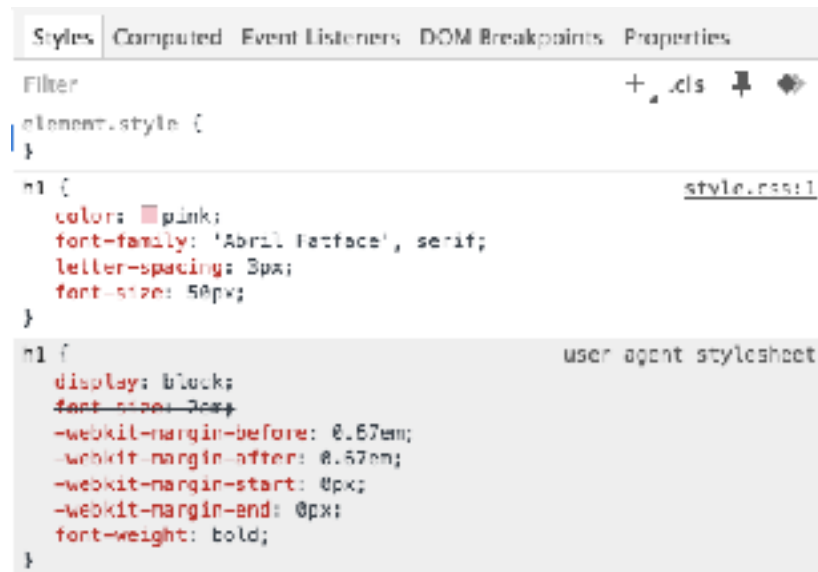I find it easiest to move the dock to the bottom of the window.

PICKING AN ELEMENT

Choose an element to inspect by clicking on the element in the "Elements" tab

SEEING STYLES AND EXPERIMENTING

You can see what styles you've added (and default styles added by the browser) to the element in the "styles" panel.

You can also experiment here!

FINAL RENDERED STYLES AND DIMENSION

In the "computed" tab you can see all the styles that are being rendered on screen for an element. You can also see dimensions for an element including width, height, padding, margin and border.

VISUALIZING DIMENSIONS

One of the things I find most helpful when working through layout issues is to hover over different elements and see where everything is.
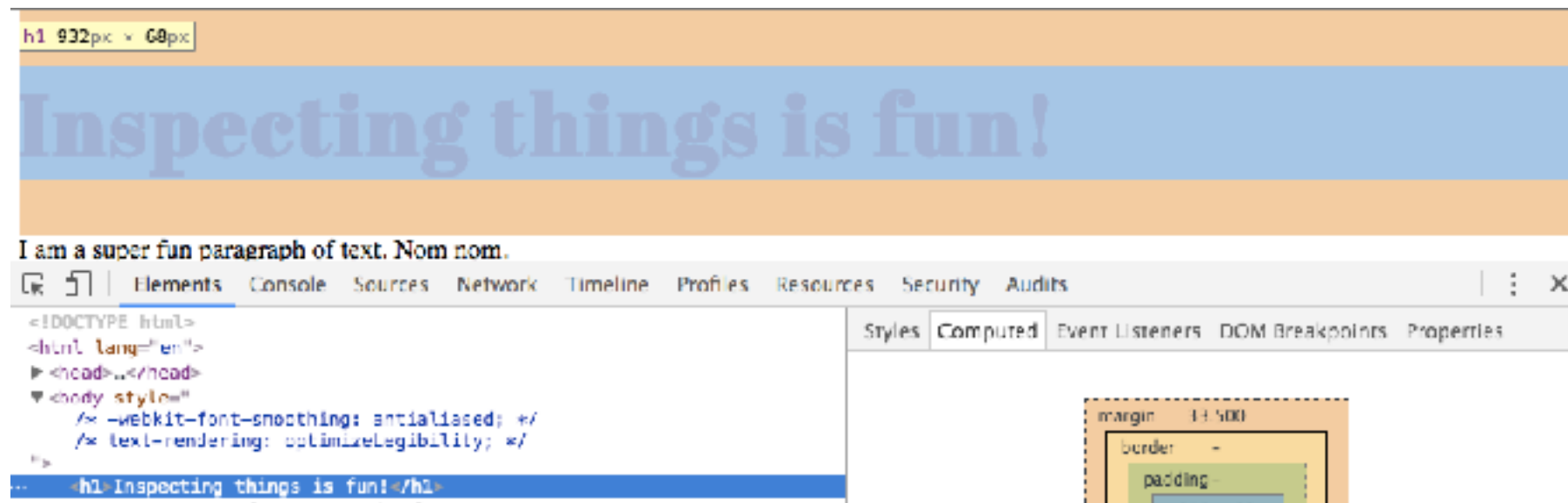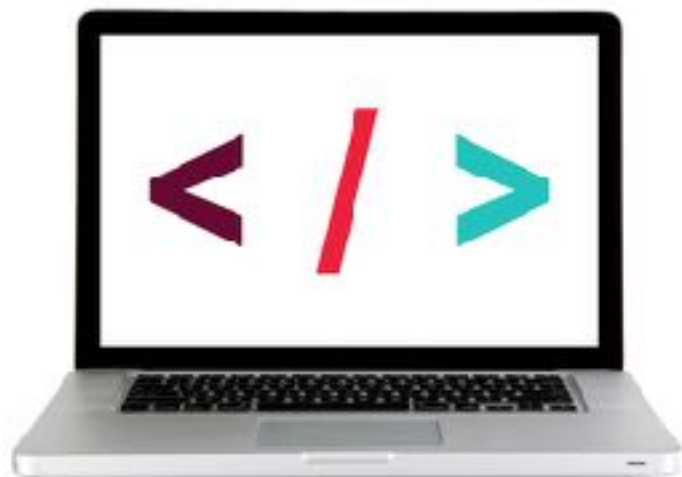

Orange: margin
Green: padding
Also notice width and height in a little yellow box by the element

INSPECT ELEMENT LAB

Starter Code > inspect_element

LET'S USE THE INSPECTOR!

EXERCISE

LOCATION

▸ Starter Code > inspect_element

LAB SESSION

10 min

1. What color is the h1? Can you find the rgb value?

2. What is the margin-top of the h1 element? Margin-bottom? Are these styles added in our stylesheet or default styles given by the browser (in the user agent stylesheet).

3. Hover over the h1 to visualize these dimensions.

4. If we didn't want margin on top, what could we do? Try to update the h1 so there is no margin on top — in your inspector.

5. Our two-column layout isn't working! Using your inspector can you figure out why? Can you fix this — in your inspector.

6. What is the background-color for each li? How much padding and margin does each li have? What is the width and height?

7. Hover over an li to visualize these dimensions.

8. Bonus - can you figure out why the image isn't loading? Hint: look in the "Console" tab and compare with what you see in the folder in Finder. What should the image path be?

MONUMENT LAB

STRUCTURAL ELEMENTS

<body>	
<header>	**Header**
<nav>	**Navigation**
<div id="content">	**Main Content**
<article>	**Article**
<article>	**Article**
<aside>	**Aside**
<footer>	**Footer**
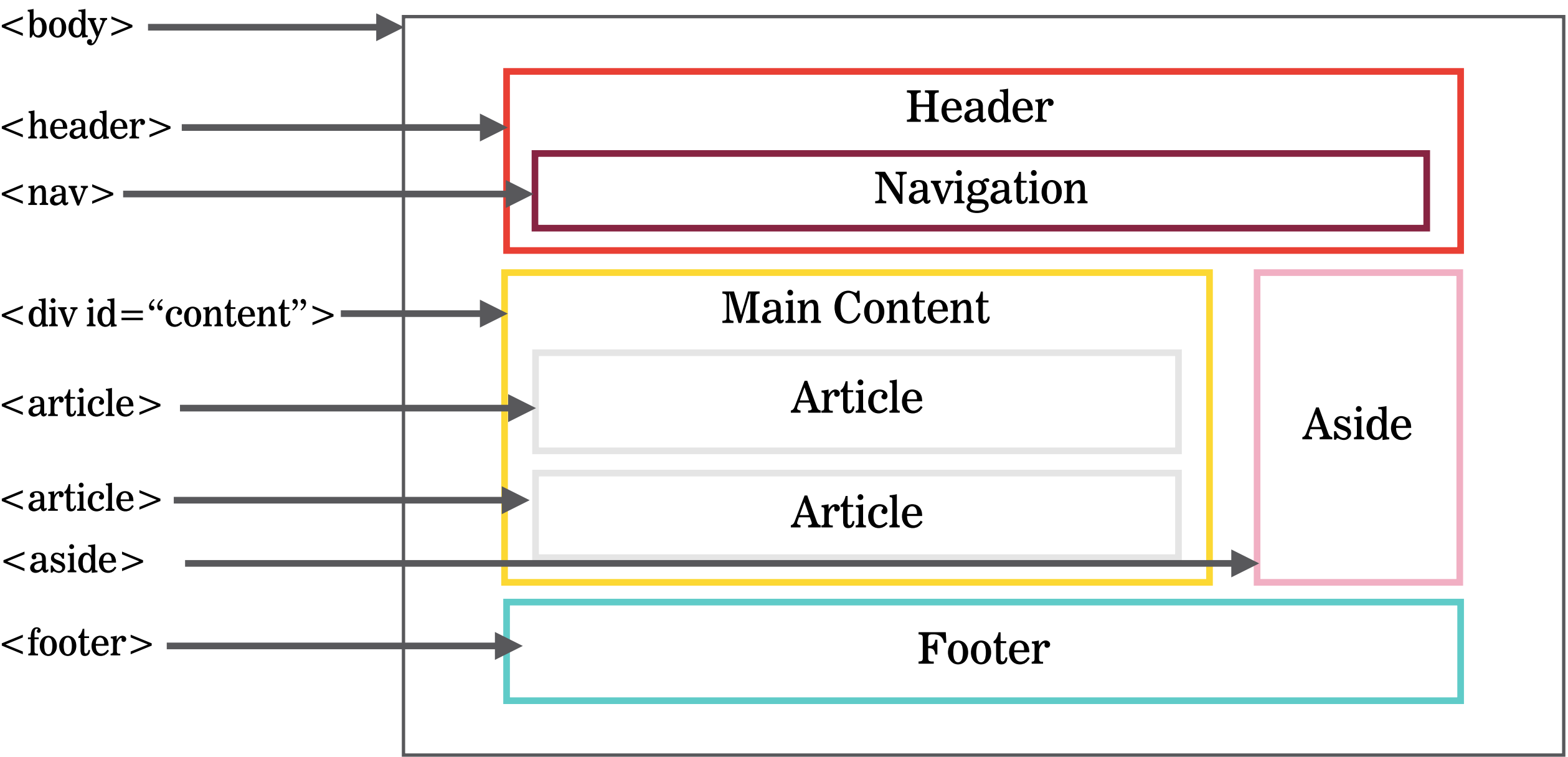
	DESCRIPTION
HEADER	Does it contain introductory content, such as the site title and navigation?
NAV	Does it contain a major navigational block?
FOOTER	Does it contain footer content?
MAIN	Does it contain content that is unique to that particular page?
ARTICLE	Is it self-contained, standalone content? Would it make sense on its own?
ASIDE	Is the content **not** required to understand the rest of the page?
SECTION	Is it a general section of the page that could have a heading?
DIV	Do you need a wrapper for styling and none of the above apply?

PLANNING – MONUMENT

EXERCISE

KEY OBJECTIVE

▸ Demonstrate the ability to plan and build a website

PLANNING

8 min

1. Plan out divs and HTML5 Sections
2. Where will you need to use flexbox for columns?
3. What are the base text styles for the page? (font-family, color, background-color, text-transform, text-align, etc.)
4. What are the base styles for headings? (Font, color, text-transform, text-align, etc.)
5. Are there base styles for anchors on the page? (font, color, text-decoration, text-transform, text-align)

LAB – MONUMENT – HTML MARKUP

KEY OBJECTIVE

▸ Demonstrate the ability to plan and build a website

LAB SESSION

30 min   1. Write HTML for provided text in the starter code for the lab.

EXERCISE

GOOGLE FONTS

Web font services — like Google Fonts — allow us to ensure that all users can see the same font.

1. Go to the Google Fonts website and click the + button next to the fonts you want to use
2. Click the tab that pops up at the bottom:


```
2 Families Selected                                    —
```

3. Click the "customize" tab and choose the font weights you'll need
4. Click the @import tab
5. Copy the code inside of the <style> tags and place it at the TOP of the CSS panel in CodePen.
6. To use these fonts, use the `font-family` property and the name of the font within quotes:

```css
body {
    font-family: 'Raleway';
}
```

```css
p {
    font-family: 'Lato';
}
```

LAB – MONUMENT – ADDING GOOGLE FONTS & ICONS

EXERCISE

KEY OBJECTIVE

▸ Learn to work with external tools

LAB SESSION

8 min

1. Hook up Google Fonts (Lato 400 and Raleway 400 and 600) https://fonts.google.com/

2. Add the FontAwesome Icons http://fontawesome.io/

LAB – MONUMENT – CSS

EXERCISE

KEY OBJECTIVE

▸ Demonstrate the ability to plan and build a website

LAB SESSION

1. Get everything where it needs to be! Add styles for page structure (flexbox-containers, wrappers for columns). Use "*Steps to achieve a multi-column layout*" in review section or your handout for reference

2. Add base Styles (base fonts, colors, etc.)

3. Add base styles for headers, anchors, text

4. Style everything else!

LAB – MONUMENT – BONUSES

KEY OBJECTIVE

▸ Demonstrate the ability to plan and build a website

BONUS TASKS (GIFS IN STARTER CODE)

1. Add a hover effect to anchors, buttons, social media icons. Extra bonus: Look up "transition effect hover CSS" to add a smoother transition to hover effects.

2. Create a fixed background effect on scroll for header image. Google "background-attachment CSS"

3. Turn the nav into a "sticky nav" so that it stays fixed while the user scrolls. Google "position CSS"

4. Add an effect to the images in the gallery on hover.

5. Implement "Jump Links" so that clicking on a nav item jumps you to that section of the page. Google "Jump Links HTML"

EXERCISE

LAB

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