

CSS Flexbox

WEB 1.0

Agenda



- Learning Outcomes
- Review: CSS Box Model
- Flex Box
 - It's all for the children
 - Using Direction
 - Nesting flex containers
- BREAK
- Flex Box Challenges
- Homework
- Lab Time

Learning Outcomes



By the end of today, you should be able to...

- 1. **Create a Layout** with flex
- 2. **Create a plan** for creating content
- 3. Use background-images



Review: Box Model & Flexbox

Warm-Up (5 minutes)



Quick draw a picture of the box model

Label your drawing with the parts of the box model.

- Content
- Padding
- Border
- Margin



Warm-Up (15 minutes)

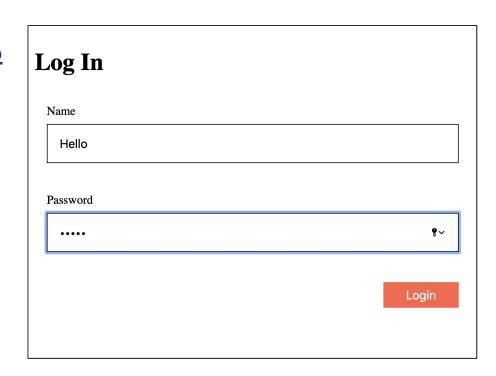


Style the form in this Repl:

https://repl.it/@MitchellHudson/flex-bo x-practice

The goal is to make it look like this image on the right.

TIP: Try out Repl.It's "Multiplayer" feature - click on "Share" to give your partner a link!





Flexbox review



Flexbox arranges the child elements of a flex container.

Use display: flex to declare a flex container

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

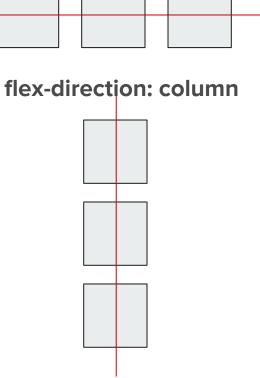


Flex box arranges elements along an axis.

The axis can be **horizontal** or **vertical**.

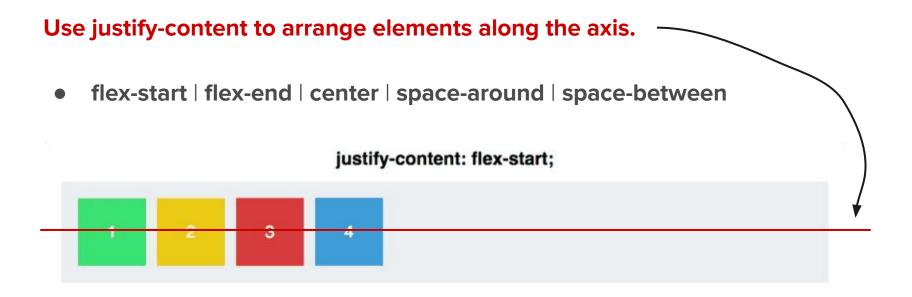
 Use flex-direction: row | column to set the direction of the axis





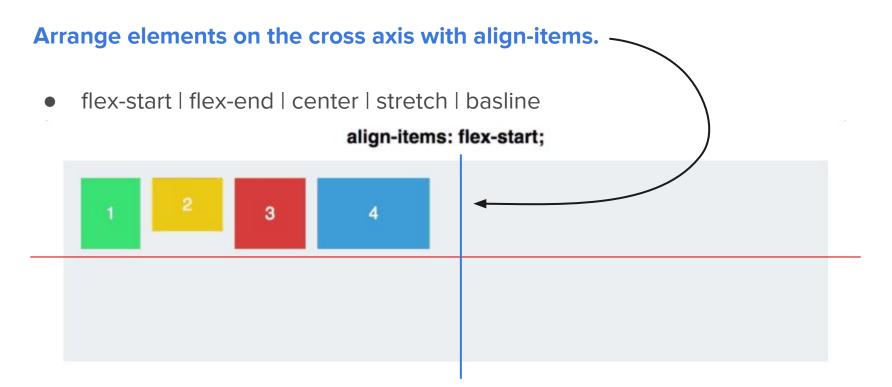


Elements can be arranged along the axis at the beginning, the end, the center, or be be spread out.





The cross axis is 90 degrees/perpendicular to the axis.





Use this playground to study flex properties:

https://make-school-courses.github.io/WEB-1.0-Web-Foundations/#/fle x-box.html

Flexbox Documentation



There's no need to memorize these properties!

Check out this guide for an instant refresher on all things flex:

https://css-tricks.com/snippets/css/a-guide-to-flexbox/

What questions do you still have about how to use Flexbox?



Play a Game with Flex

Flex



Try one of these games to **practice your flexbox skills.**

Tower defense: http://www.flexboxdefense.com

Flexbox Froggy: https://flexboxfroggy.com



Try these Challenges

Flex



Try these challenges:

https://github.com/soggybag/learn-css-flex-box

Look at the solution file in a browser to see the end results. Then work through the code samples to practice.



Break - 10 min

"Take a 10 minute break and wrap a tag around everything you see."



Portfolio Workshop

Portfolio Workshop (15 minutes)



Break out into pairs and choose who will be the **reviewer** and **reviewee** for your finished (and styled!) portfolio assignment.

- Reviewee: Share your screen and explain what your code does from top to bottom.
- Reviewer: Listen, ask questions, and make suggestions for improvement. Pay attention to the styles used.

After 7 minutes, switch roles.



Cast your vote for next activity:

- 1. Flex box challenges
- 2. I'm ready! Start the next homework assignment!
- 3. Other???



Single Page Site (5 minutes)



The **Single Page Site** is a common modern web page design. All of the content fits on one page and we read it vertically.

Take a few minutes to **explore the One Page Love site**:

https://onepagelove.com/

Post your favorite in the chat!





Your project will be a web site that presents an idea.

You can present any idea.

Treat it like an essay.

- Intro
- Topic 1
- Topic 2
- Topic 3
- Conclusion



- Pick any topic.
- Use an idea from your S&L class (try and get credit for it in that class!)
- Choose something that interests you!



Imagine the page as made of a series of boxes. Plan it something like:

```
<main>
   <nav id="nav"></nav>
   <section id="banner"></section>
   <section id="topic-1"></section>
   <section id="topic-2"></section>
   <section id="topic-3"></section>
   <footer id="contact"></footer>
</main>
```



Start with some styles:

```
body, html {
   height: 100%;
   margin: 0;
nav {
   overflow: auto;
main > section {
   display: block;
   min-height: 100vh;
   overflow: auto;
```

```
#nav {
   background-color: #FF3B30;
#banner {
   background-color: #26B63E;
#topic-1 {
   background-color: #007AFF;
#topic-2 {
   background-color: #5856D6;
#topic-3 {
   background-color: #FF00BE;
#contact {
   background-color: #FF9500;
```



Next class, we'll go over how to make Cards like in the example site.



Lab Time

Homework



This week's assignments:

- CSS Challenges Part 2 Due today
- Portfolio Part 2: Styles Due today
- Single Page Site Due in 1 week

Lab Rules



Modify your Zoom name (hover over your photo and click the 3 dots) to put a "1" before your name if you'd like to work alone, "2" if you'd like to work with a partner.

Stay in the main Zoom room if you'd like to stay for more Q&A, homework help, etc.

Go to your individual breakout room if you'd prefer to work with a partner or have quiet time!