



So far everything we've touched with flexbox has used the rule flex: 1 on all flex

Introduction

items, which makes the items grow or shrink equally to fill all of the available space. Very often, however, this is not the desired effect. Flex is also very useful for arranging items that have a specific size. **Lesson overview**

Foundations Course

This section contains a general overview of topics that you will learn in this lesson.

You'll learn how to align items inside a flex container both vertically and horizontally.

Alignment

Give it a shot before we move on!

The desired result looks like this:

Doing so should give you something like this:

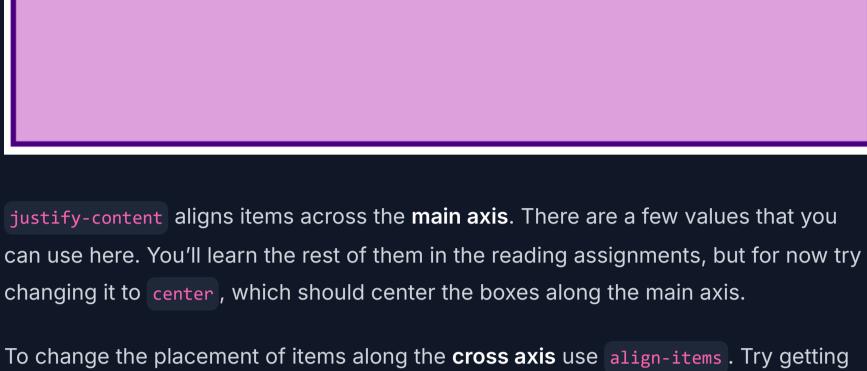
Let's look at an example.

what if we wanted them to stay the same width, but distribute themselves differently inside the container? We can do this!

Remove flex: 1 from .item and add justify-content: space-between to .container.

Adding flex: 1 to .item makes each of the items grow to fill the available space, but

You should be able to predict what happens if you put flex: 1 on the .item by now.



the boxes to the center of the container by adding align-items: center to .container.

Because justify-content and align-items are based on the main and cross axis of your container, their behavior changes when you change the flex-direction of a flexcontainer. For example, when you change flex-direction to column, justify-content aligns vertically and align-items aligns horizontally. The most common behavior, however, is the default, i.e. justify-content aligns items horizontally (because the main axis defaults to horizontal), and align-items aligns them vertically. One of the

biggest sticking points that beginners have with flexbox is confusion when this

One very useful feature of flex is the gap property. Setting gap on a flex container

adds a specified space between flex items, similar to adding a margin to the items

8px to the centered example above produces the result below.

could already put together some impressive layouts!

themselves. gap is a new property so it doesn't show up in many resources yet, but it

works reliably in all modern browsers, so it is safe to use and very handy! Adding gap:

behavior changes. Gap

There's more for you to learn in the reading below, but at this point you can surely see

how immensely useful flexbox is. With just the properties we've already covered, you

Take your time going through the reading. There will be some review of the items

that haven't been mentioned yet. Don't stress too much about trying to memorize

we've already covered here, but it goes into more depth and touches on a few things

every little detail yet; just code along with the examples and do your best to internalize

everything that is *possible* with flexbox. You'll have to reach for these resources again once you get to the practice exercises, but that's perfectly acceptable. The more you use this stuff the better it will stick in your mind... and you will be using it constantly. Have fun! **Assignment**

1. This beautiful Interactive Guide to Flexbox covers everything you need to

2. The CSS Tricks "Guide to Flexbox" is a classic. The images and examples

are super helpful. It would be a good idea to review parts 1-3 and part 5

(don't worry about the media query parts, we will cover them later in the

course) and then bookmark it as a great cheat sheet for future reference

<u>directory</u> (remember that the instructions are in the README) in the order:

3. Do the exercises in our <u>CSS exercises repository's</u> <u>foundations/flex</u>

be review at this point, but the foundations here are important!

(keep it handy for the practice exercises).

know. It will help reinforce concepts we've already touched on with some

really fun and creative examples. Spend some time here, some of it should

01-flex-center 02-flex-header 03-flex-header-2

06-flex-layout

05-flex-modal

04-flex-information

07-flex-layout-2 Note: Solutions for these exercises can be found in the solution folder of

each exercise.

content: space-around ?

flexbox.

Knowledge check

can't answer a question, click on it to review the material, but keep in mind you are not expected to memorize or master this knowledge.

The following questions are an opportunity to reflect on key topics in this lesson. If you

Additional resources This section contains helpful links to related content. It isn't required, so consider it supplemental.

What is the difference between justify-content and align-items?

How do you use flexbox to completely center a div inside a flex container?

What's the difference between justify-content: space-between and justify-

Flexbox Zombies is another gamified take on flexbox. Free, but requires an account.

There are helpful examples and interactive sections.

align-items **VS** justify-content.

- This Flexbox Tutorial from freecodecamp is another decent resource. Flexbox Crash Course is a nice resource by Traversy Media.
- For more interactive demos, try the Scrim on the justify-content property and the Scrim on the align-items property. Note that these Scrims require logging into Scrimba in order to view.
- Improve on GitHub Report an issue See lesson changelog

Mark Complete

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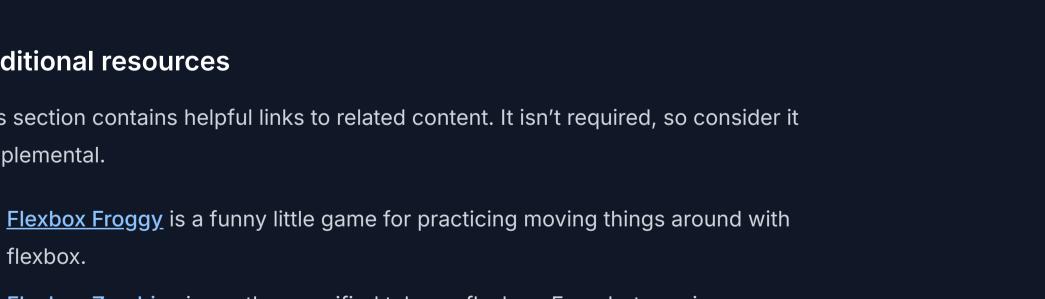
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The Basic Concepts of Flexbox article on MDN is another good starting point. Aligning Items in a Flex Container goes into more depth on the topic of axes and

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