



Introduction to Flexbox

Foundations Course

Introduction

As you'll learn, there are *many* ways to move elements around on a web page. New methods have been developed over the years and older things have fallen out of style. Flexbox was not always available in CSS - its debut was revolutionary. Learn more about the <u>history of flexbox</u>.

Many resources put it near the end of their curriculum because it is somewhat new as a technology. But at this point, it has become the default way of positioning elements for many developers. Flexbox will be one of the most used tools in your toolbox, so why not learn it first?

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

Lesson overview

You will learn how to position elements using flexbox.

- You will learn about flex containers and flex items.
- You will learn how to create useful components and layouts that go beyond just
- Before we get started

Flexbox layouts can get a little complicated. In a previous lesson, you learned how to inspect and debug things using your browser's developer tools. Those tools will be

all of the code examples.

stacking and centering items.

expect, inspecting it in the developer tools should be your first step every time. Flexbox isn't necessarily any more difficult than the other concepts that we've covered so far, but it *does* have a few more moving parts. It is going to be somewhat difficult to make use of any of the things you're learning in these first lessons until you

get to the end and can put it all together. As we go, do yourself a favor and play with

crucial for you in the following lessons. If something isn't behaving the way you

of the resources we share with you) when you get to the assignments at the end of the section, but if you take your time and experiment with all the code examples we provide, you'll know better where to look when that time comes. Let's flex!

Flexbox is a way to arrange items into rows or columns. These items will flex (i.e. grow

You will almost definitely need to come back and reference these lessons (or a couple

or shrink) based on some rules that you can define. To get started, let's look at a demonstration.

We've embedded a lot of interactive examples in these lessons. Take your time to experiment with them as you go to cement the concepts in your mind!

*/ tags surrounding them, then check out the result. Comments prevent the browser from interpreting lines as code, and are wrapped

between specific tags. CSS uses /* as an opening comment tag and */ as a

closing comment tag, while HTML and JavaScript have their own syntax.

We'll get into exactly what's going on here soon enough. But for now, let's uncomment

the two flex related CSS declarations in the above Codepen by removing the /* and

surrounding the code. All 3 divs should now be arranged horizontally. If you resize the results frame with the "1x", ".5x" and ".25x" buttons you'll also see that the divs will 'flex'. They will fill the available area and will each have equal width.

Commented out lines of code can be 're-enabled' by removing the comment tags

If it's hard to see what's going on in the small embedded CodePen, feel free to

click the "Edit on CodePen" or "Fork on CodePen" button. This will bring the

If you add another div to the HTML, inside of .flex-container, it will show up

alongside the others, and everything will flex to fit within the available area.

example into a full-sized environment. Some of the later examples might especially benefit from doing this. Flex containers and flex items As you've seen, flexbox is not just a single CSS property but a whole toolbox of properties that you can use to put things where you need them. Some of these

properties belong on the *flex container*, while some go on the *flex items*. This is an

important concept.

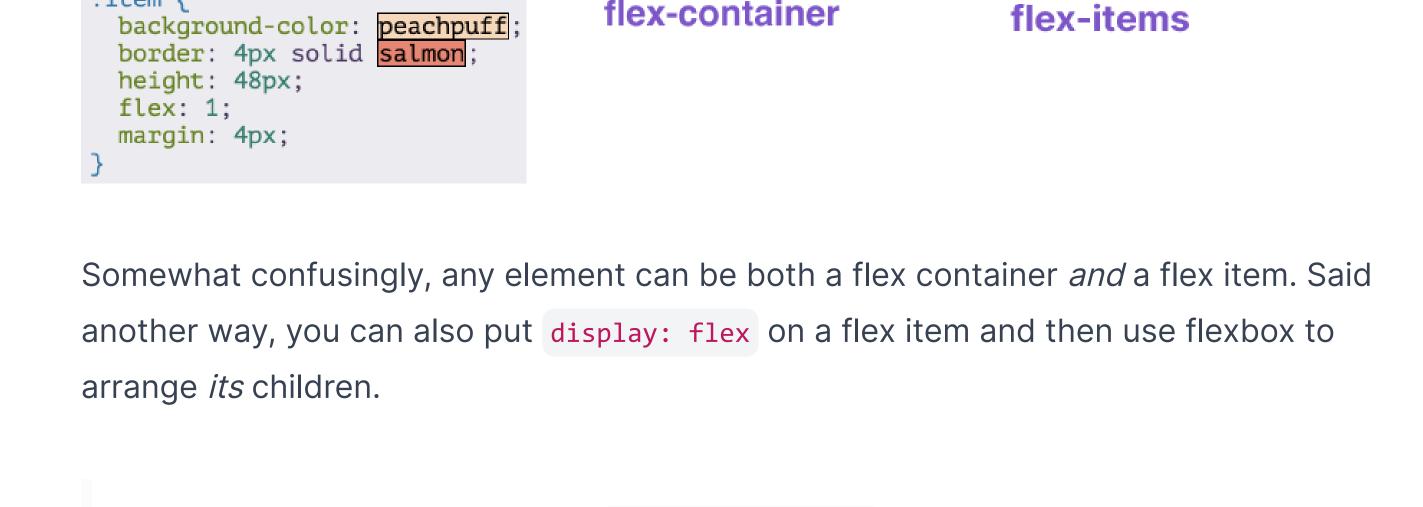
display: flex;

.item {

.container { background-color: aqua; padding: 12px; border: 4px solid blue;

A flex container is any element that has display: flex on it. A flex item is any

element that lives directly inside of a flex container.



flex-container

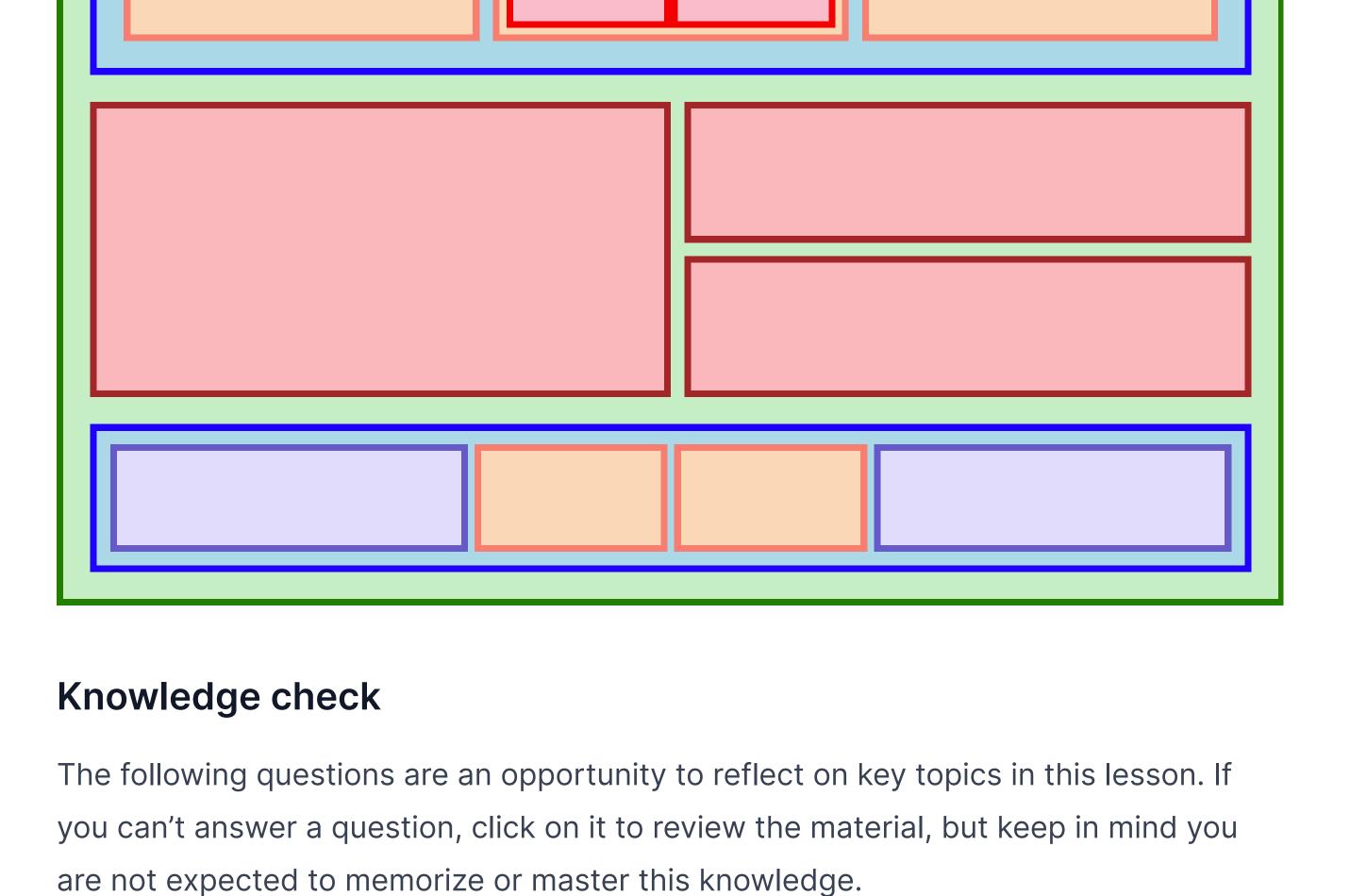
with flex items ALSO a flex container

Creating and nesting multiple flex containers and items is the primary way we will be

building up complex layouts. The following image was achieved using only flexbox to

arrange, size, and place the various elements. Flexbox is a very powerful tool.

flex items



What's the difference between a flex container and a flex item? How do you create a flex item?

Additional resources

Improve on GitHub

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

For a more interactive explanation and example, try this **Scrim on Flexbox**. Note

Interneting Is Hard has a tutorial on modern CSS layouts with flexbox.

that this Scrim requires logging into Scrimba in order to view.

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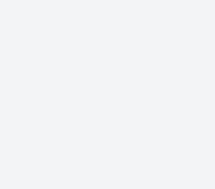












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