

CSS Flex Exercises

What a flex

ex01: put three divs horizontally

understanding

By default, a div is a block. You can change the display type and it will make all the children go horizontal.

```
display: flex;
```

COPY

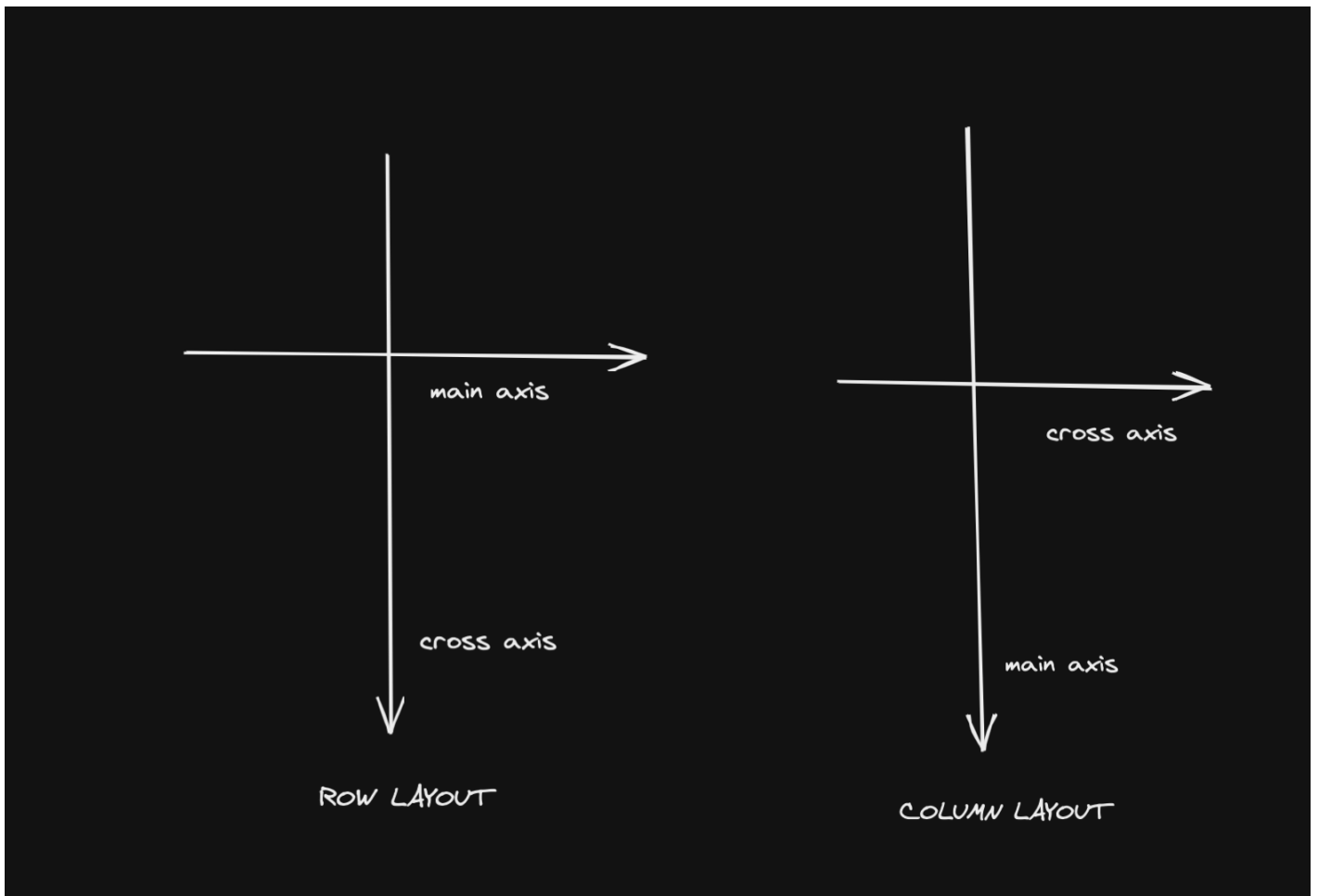
challenge

- Make a parent div.
- Create a class `row` and apply this to the div.
- Now create three divs as children.
- The children should go horizontal.

solution

<https://codesandbox.io/s/starting-with-flex-9sfibf>

understanding flex axis



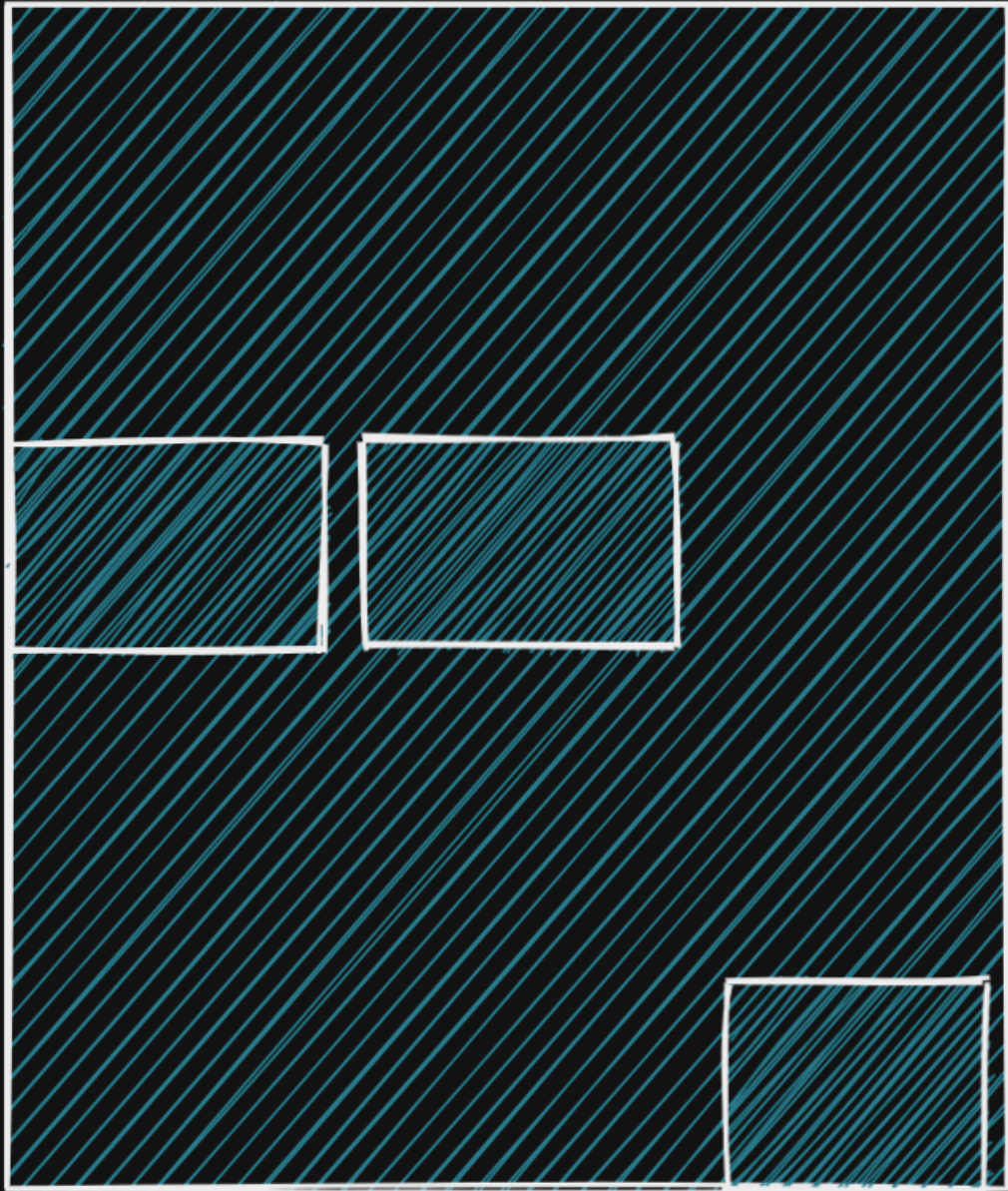
cross axis: align

- Align items is stretch by default.
- Other options are `stretch|center|flex-start|flex-end|baseline|`
- Now, alignment can be controlled from both parent and child
 - Parent: `align-items: center`
 - Child: `align-self: auto|stretch|center|flex-start|flex-end|baseline|`

ex02: practice align

Take a parent div and three child divs. parent should align all children to center. However, the third child needs to go to the end of the parent.

Give your parent a height of 500 pixels.



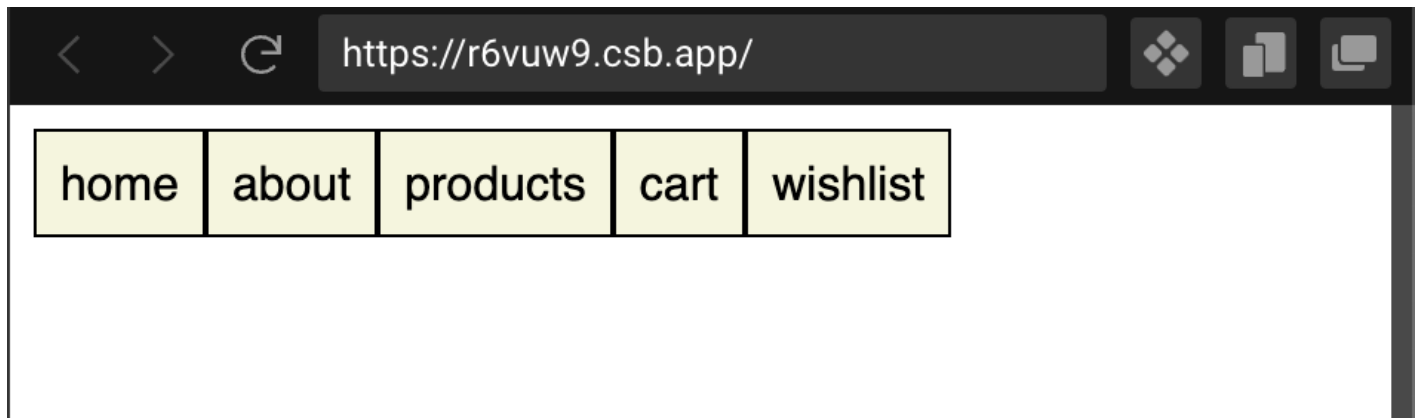
solution

<https://codesandbox.io/s/practice-align-gdptf6>

ex03: navbar

Use `` elements inside a `nav` element to create a navbar.

By default `li` items are block. Align them as shown in the image using `flex`



solution

<https://codesandbox.io/s/navigation-exercise-r6vuw9>

ex04: let's create a card

understanding

The direction of the main axis can be changed using `flex-direction`

```
flex-direction: column; /** will align flex items vertically */
```

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challenge

- Create a `div`
- Create a class `card` for the `div`
- Add text in it in `p` tag
- Add a button in the `div` Enroll Now too.
- The `p` and button should go vertically.
- Make it look like the below image.

<https://codesandbox.io/s/getting-card-ready-question-mmdq2x>

```
/* filename: style.css */
```

```
.card {  
  border: 1px solid #d3d3d3;  
  border-radius: 5px;  
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);  
  padding: 0.5rem;  
  max-width: 250px;  
}
```

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solution

<https://codesandbox.io/s/getting-card-ready-solution-emxhno>

ex05: justify-content

understanding

The justify-content property aligns the flexible container's items when the items do not use all available space on the main-axis (horizontally).

```
justify-content: flex-start | flex-end | center | space-between | space-around | space-evenly;
```

challenge

When there's more text in one card you would want the primary buttons to align.

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solution

<https://codesandbox.io/s/two-cards-justify-content-solution-fdm7tg>

ex06: shrink and grow

understanding

The flex is useful to control what happens when something grows and shrinks. That's where it shines. So what happens if you add a heading in this card too? The previous exercise won't work out now.

We need to control what grows and fills the empty space.

See the demo: <https://developer.mozilla.org/en-US/docs/Web/CSS/flex-grow>

And see how the shrink works: <https://developer.mozilla.org/en-US/docs/Web/CSS/flex-shrink>

This is applied to the child.

challenge

Make use of `flex-grow` and `flex-shrink` on the right element to make this work when size changes.

This is without the grow/shrink.

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Fix it and make it like this:

this is heading

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Nobis commodi sed sint id illo vitae! In, eligendi! Sapiente maxime, sit odit eius ad qui, provident delectus quaerat omnis quia eum? Lorem ipsum dolor sit, amet consectetur adipisicing elit. Nobis commodi sed sint id illo vitae! In, eligendi! Sapiente maxime, sit odit eius ad qui, provident delectus quaerat omnis quia eum?

Primary Button

this is heading

Lorem ipsum dolor sit, amet consectetur adipisicing elit. Nobis commodi sed sint id illo vitae! In, eligendi! Sapiente maxime, sit odit eius ad qui, provident delectus quaerat omnis quia eum?

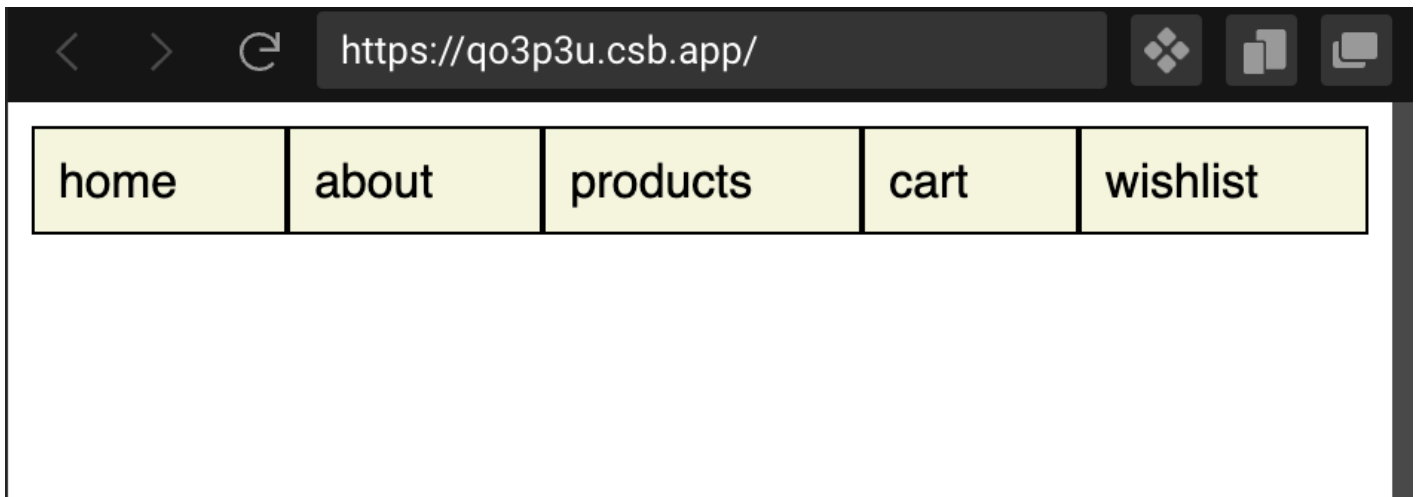
Primary Button

solution

<https://codesandbox.io/s/two-cards-grow-solution-d1d8zz>

ex 06a: use shrink and grow for navbar

Use the shrink/grow property to ensure that navbar takes up all the space



solution

<https://codesandbox.io/s/navigation-exercise-with-grow-qo3p3u>

h/w ex07: add a thumbnail image to the card

challenge

Use the placeholder for image: <https://via.placeholder.com/150>

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150 x 150

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solution

<https://codesandbox.io/s/card-with-image-solution-1e3xr4>

ex08: make the cards wrap

understanding

When window size decreases the cards shrink. But we can wrap the items in a row so that when the width decreases card will go down.

Syntax.

```
flex-wrap: nowrap; /* Default value */  
flex-wrap: wrap;  
flex-wrap: wrap-reverse;
```

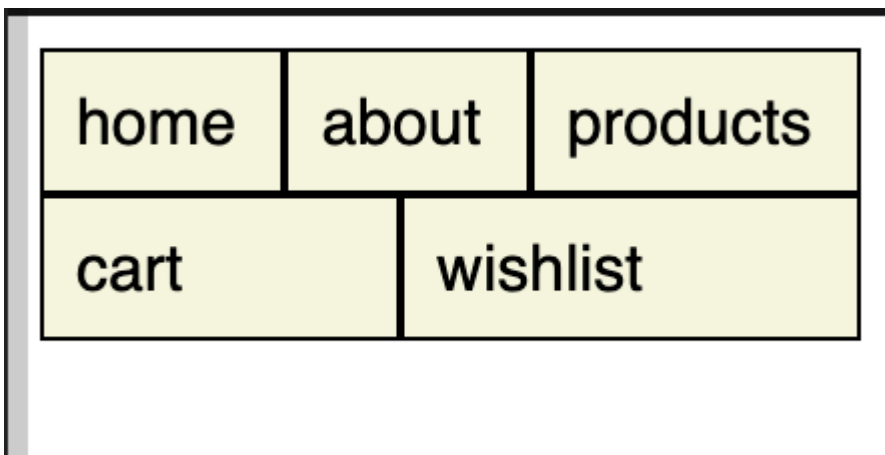
[COPY](#)

challenge

Apply flex-wrap on row class and then cards will start wrapping.

ex09: navbar with wrap

Use flex wrap property to make the navbar responsive



solution

<https://codesandbox.io/s/navigation-exercise-with-wrap-wdr6df>