

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;
```

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.

ex04: let's create a card

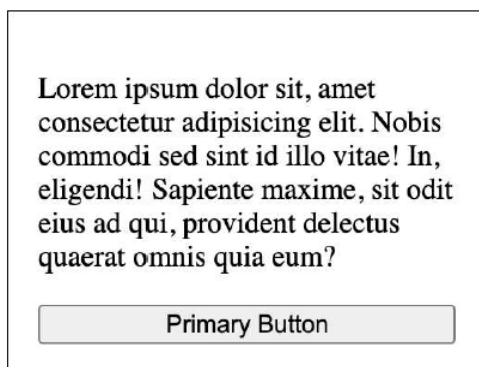
understanding

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

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

challenge

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



ex05: justify-content

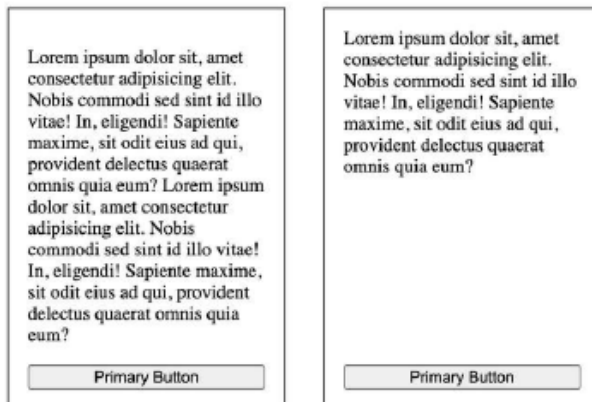
understanding

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.



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.

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

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?

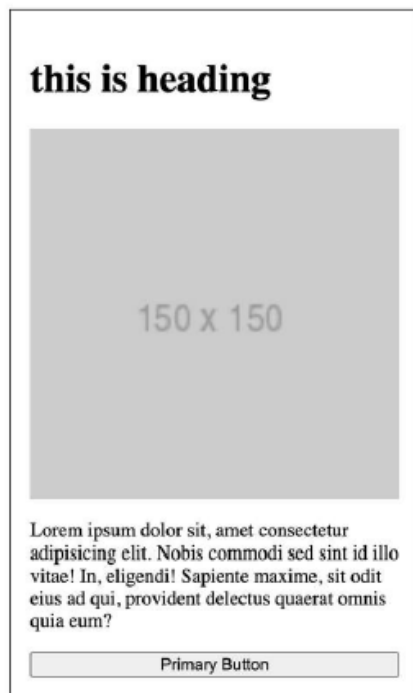
Primary Button

ex07: add a thumbnail image to the card

Note: Give your card class a max-width of 200px otherwise the image will stretch. We'll cover putting card in grid and then making image responsive and this issue will go away.

challenge

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



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;
```

challenge

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

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

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

positioning

<https://developer.mozilla.org/en-US/docs/Web/CSS/position>

One key thing to understand here is positioning works relative to something. The **top**, **right**, **bottom**, and **left** properties determine the final location of positioned elements.

ex01: superscript component

understanding

Relative is **relative** to its actual position in the flow.

challenge

Use **position:relative** to create this component below:

- a **class=superscript** which when used in any text it will make it small and move to the top.
- Now, this is about **relative sizing of fonts**. So use **em**. This is the best use case of relative sizing based on the font size it is inheriting.

This is a heading^{superscript}

ex02: snackbar component/class

understanding

`position:fixed` is used to fix something relative to the body.

challenge

Use `position:fixed` to create this component below:

- A notification component will be positioned to the bottom of the window.
- Make it 1rem away from left and bottom.

This is a heading superscript

You got a new email. This is a notification.

Create this



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ex04: remove button on the card

understanding

`position: absolute` positions the element with the respect to it's parent. This is where position `relative` is most useful. Most of the time it is used to position the parent when you're planning to position the child with `absolute`.

challenge

Put the remove button on the card we created earlier. You can find the svg for this later. You can start with just a button with `x` in place.

Tip: When you're doing it make sure that the `padding-top` and `padding-left` are inherited so that card's internal padding is not messed up.



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ex05: overlay text on card image

challenge

