

FULLSTACK

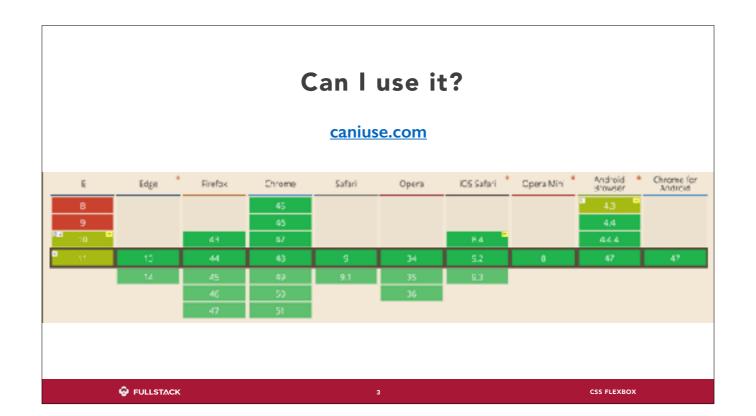
CSS FLEX BOX

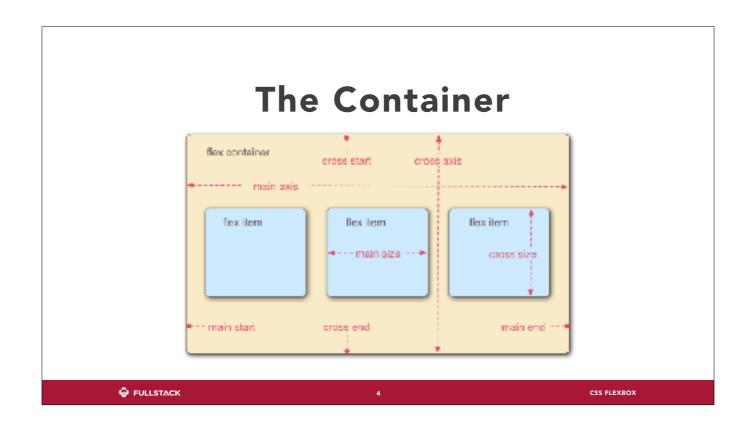
#### What is CSS Flexbox?

The Flexbox Layout module aims at providing a more efficient way to lay out, align and distribute space among items in a container, even when their size is unknown and/or dynamic (thus the word "flex").



- a design approach focused on items being flexible, creating appropriate spacing according to their content





the most useful parts of flexbox are set on the container, rather than the children

## Flexbox Container: display

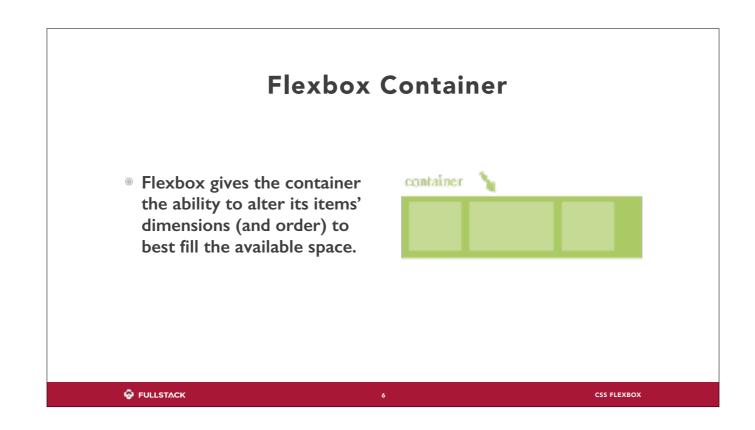
 display: flex defines an element as a flex container and enables a flex context for all its direct children.

```
.container {
   display: flex; /* or inline-flex */
}
```

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CSS FLEXBOX

- initialize the box



similar to giving text-align on a parent: put properties affects the children

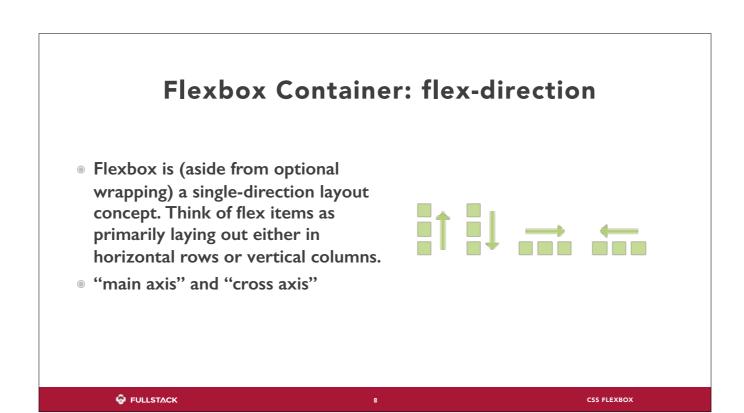
## Flexbox Container

A flex container expands flexible items to fill free space, or shrinks them to prevent overflow.



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- kind of like float: fly items to the left or right in the order of the html.

#### **Flexbox Container: Direction**

 Think of flex items as primarily laying out either in horizontal rows or vertical columns.

```
Column Column Row Row Reversed Reversed
```

```
.container {
   flex-direction: row | row-reverse | column | column-reverse;
}
```

## Flexbox Container: wrap

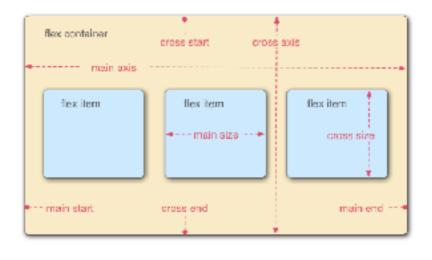
Items will all try to fit onto one line. Items can wrap as needed with this property. Direction also plays a role here, determining the direction new lines are stacked in.



```
.container{
  flex-wrap: nowrap | wrap | wrap-reverse;
]
```

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# The Items



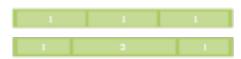
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## Flexbox Items: flex-grow

Flex items can grow if necessary. This property accepts a unit-less value that serves as a proportion. It dictates what amount of the available space inside the flex container the item should take up.

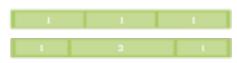


```
.item {
  flex-grow: <number>; /* default 0 */
}
```

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## Flexbox Items: flex-grow

 eg. if all items have flex-grow set to I, every child will set to an equal size inside the container. If set to 2, that child would take up twice as much space as the others.



```
.item {
  flex-grow: <number>; /* default 0 */
}
```

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#### Flexbox Items: flex-shrink

- This defines the ability for a flex item to shrink if necessary. Negative numbers are invalid.
- Not that necessary

```
.item {
  flex-shrink: <number>; /* default 1 */
}
```

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#### Flexbox Items: flex-basis

- <sup>®</sup> Like width property (or height, depending on flex-direction).
- If a relative value, indicates proportion of that item's width that should be applied.
- Default size of element before flex-grow or flex-shrink kick in

```
.item {
  flex-basis: <length> | auto; /* default auto */
}
```

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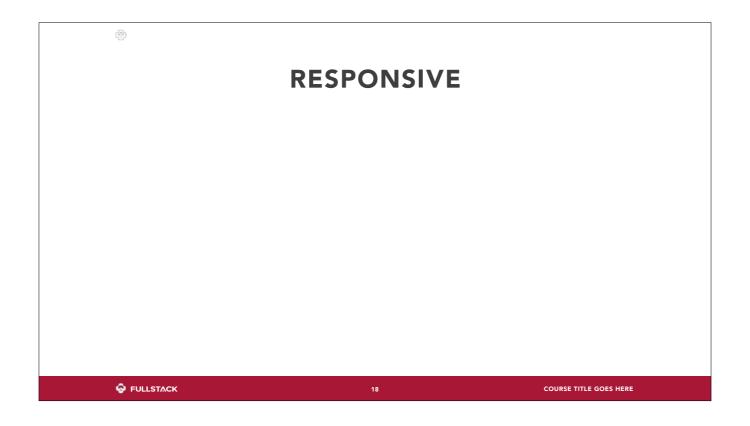
#### Flexbox Items: flex

 This is the shorthand for flex-grow, flex-shrink and flex-basis combined. The second and third parameters (flex-shrink and flexbasis) are optional. Default is 0 I auto.

```
.iten {
  flex: none | [ <'flex-grow'> <'flex-shrink'>? || <'flex-basis'> ]
}
```

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**RESPONSIVE DESIGN** 

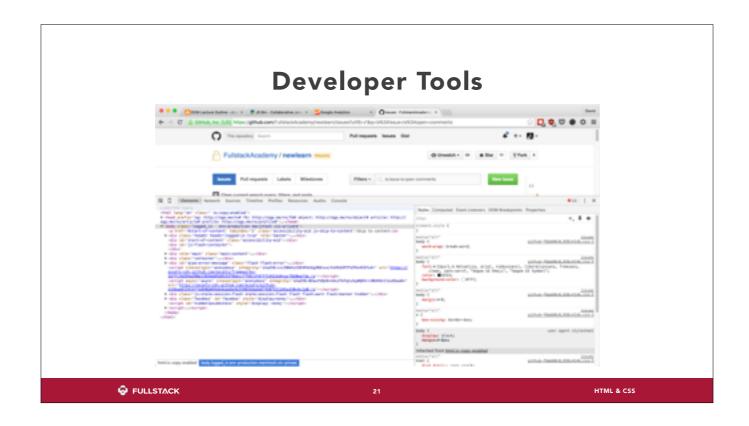
- Website is fully functional for all screen sizes, resolutions and orientations
- Born out of necessity (see previous slide)
- Developers and designers should cater to the user's environment, not the other way around



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source = serialized stuff
developer tools = shows the actual dom representation

