

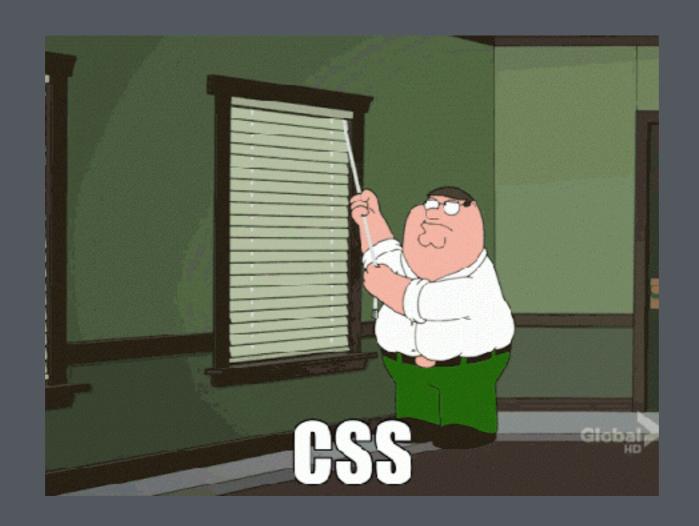
BUT FIRST...

THE BIG REVIEW

Let's see how much you learned...

Complete assignment #1 during the first half of class.

BACKGROUND



CSS layouts sometimes feel like you are fighting against the browser.

WHERE HAVE YOU FELT LIMITED BY LAYOUTS?



CSS was written a LONG time ago, in a galaxy far far away (called the 1990s).

There was no concept of a multi-device universe or interactive websites. Everything was based around print layouts.

Spotlight On

FLOATS

That why's we have the float-based system - it comes from print design where you "float" images in a sea of words - like in a magazine.

ALONG COMES FLEXBOX

CSS3 ushered in a new approach to improving CSS incrementally. Over about 3-4 years, flexbox finally settled out as the preferred method and has finally seen wide adoption as IE has declined in use.

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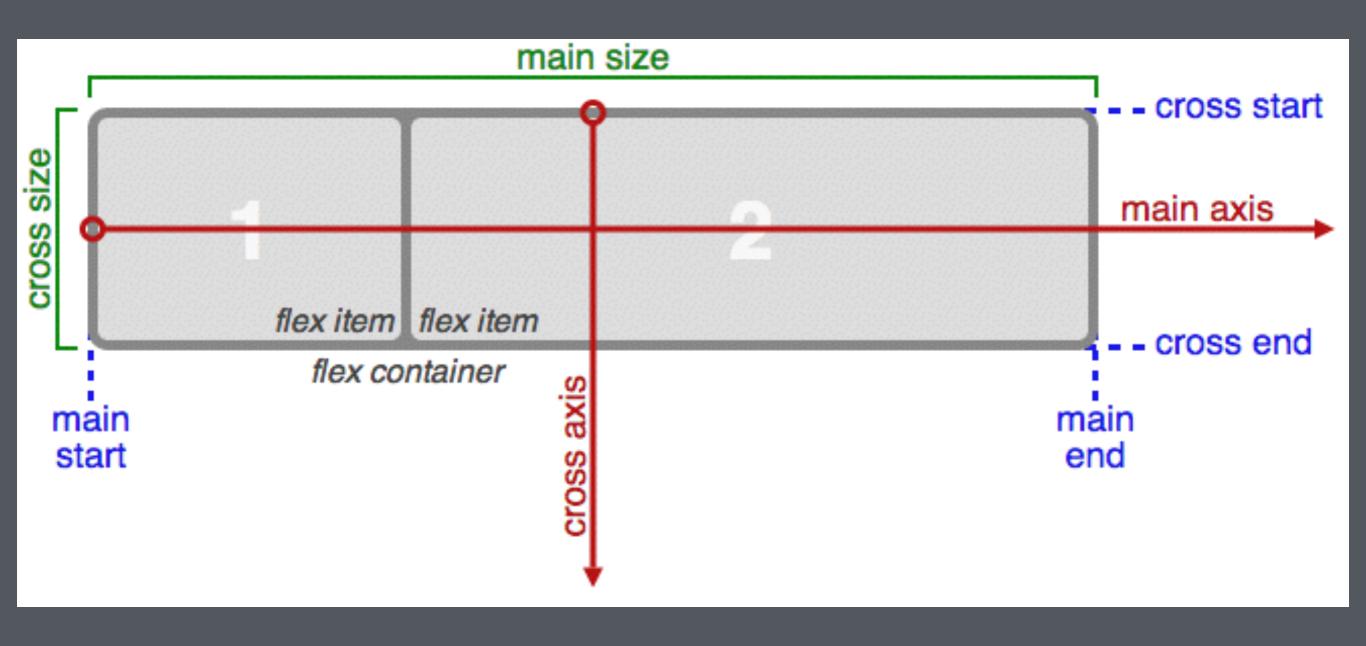
HOW TO FLEXBOX

Easy to start, harder to use well

display: flex;

HOW TO FLEXBOX

Multi-axis alignment method



1

2

5

4

Think about orientation - flexbox layouts are inherently vertical or horizontal

flex-direction: column;

4

3

You can easily flip the display order without reordering your HTML!

flex-direction: column-reverse;

1

1 2 3 4 5

You can also do layouts in a row.

flex-direction: row;

5 4 3 2 1

You can also flip rows - this is very advantageous for right-to-left languages like Arabic.

flex-direction: row-reverse;

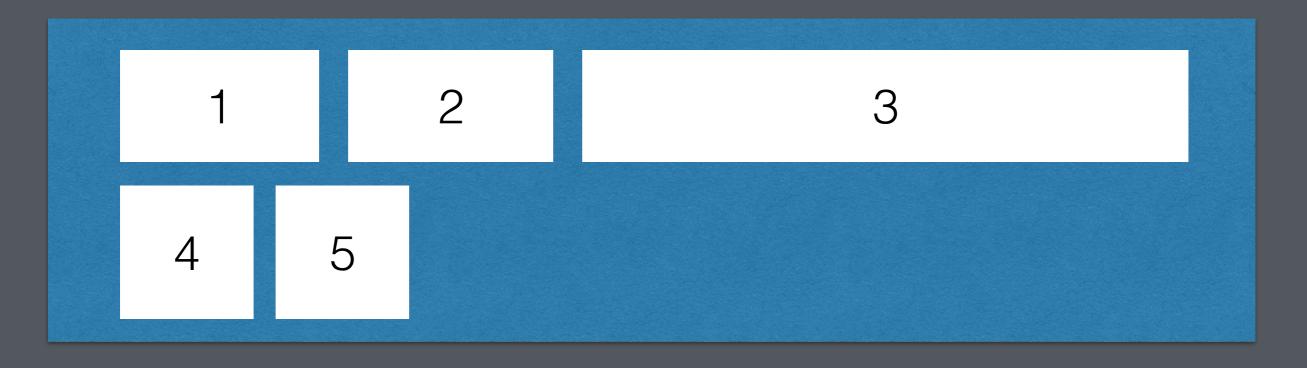


1 2 3 4 5

Be default, all boxes are stuffed into one row.

flex-wrap: nowrap;

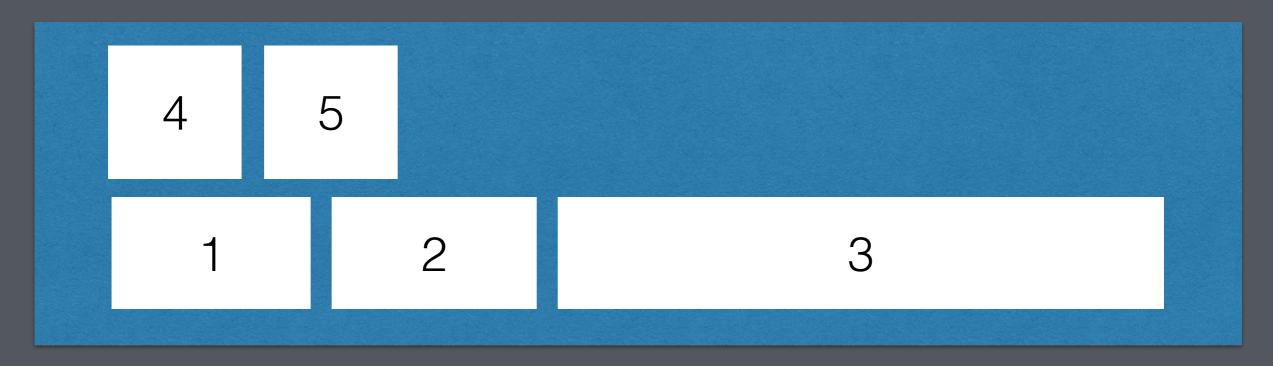
FLEX-WRAP



But you can make them pop-out into additional rows as needed.

```
flex-wrap: wrap;
```

FLEX-WRAP



They can display right to left as well and bottom-to-top (I find this very confusing personally and don't use it).

```
flex-wrap: wrap-reverse;
```

1 2 3

Controls how boxes space in flexbox rows/columns.

```
justify-content: flex-start;
```

1 2 3

Centering is easy - note, auto margins don't work in flex land.

justify-content: flex-center;

1 2 3

Push everything right, similar to text-align: right; but for layouts!

justify-content: flex-end;

1 2 3

Pushes stuff as far apart as possible.

```
justify-content: space-between;
```

1 2 3

Centers with respect to total row/column, equal spacing between each item.

justify-content: space-around;

ALIGN-CONTENT

1 2 3

Centers with respect to total row/column, equal spacing between each item.

justify-content: space-around;

CODE ALONG

Assignment #1

NEXT TIME

You tell me! Keep working on Final Projects!