

CSS GRID



SOME REVIEW

What direction does a Flexbox natively go - horizontal or vertical?

Bonus: What CSS property adjusts that?

MORE REVIEW

How do you reorder Flexbox children?

Bonus: What CSS property adjusts that?

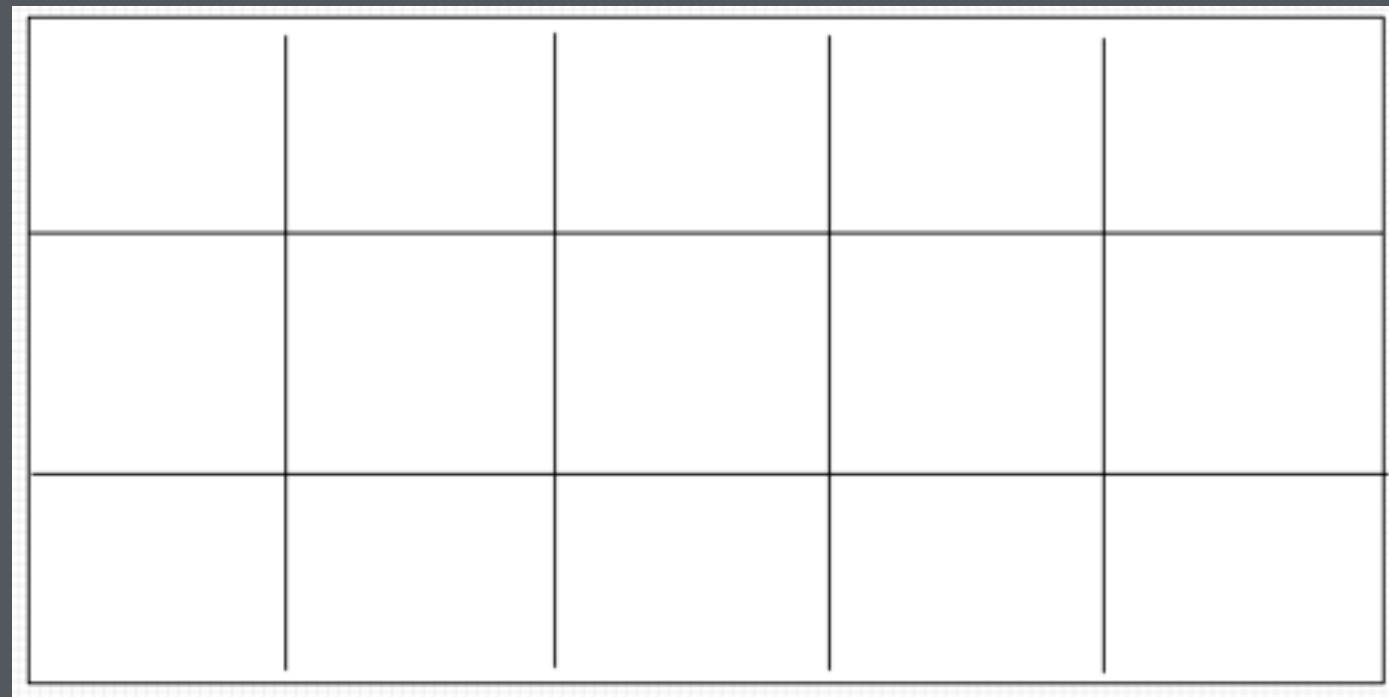
ENOUGH ALREADY

Can you nest a flexbox inside of a flexbox?
How?

CHECK OUT ASSIGNMENT 1

WHAT IS A GRID?

Think of spreadsheets - columns and rows -
that you can lay content into.



WHY DO I WANT THIS?

Flexbox only works in ONE dimension at a time (either a row or a column).

Floats don't work in any dimension ;)

Grid works in TWO dimensions all the time (row and column).

FLEXBOX CAN BE A ROW

1

2

3

4

5

OR A COLUMN

1

2

3

4

BUT NOT BOTH

How does
GRID
work?

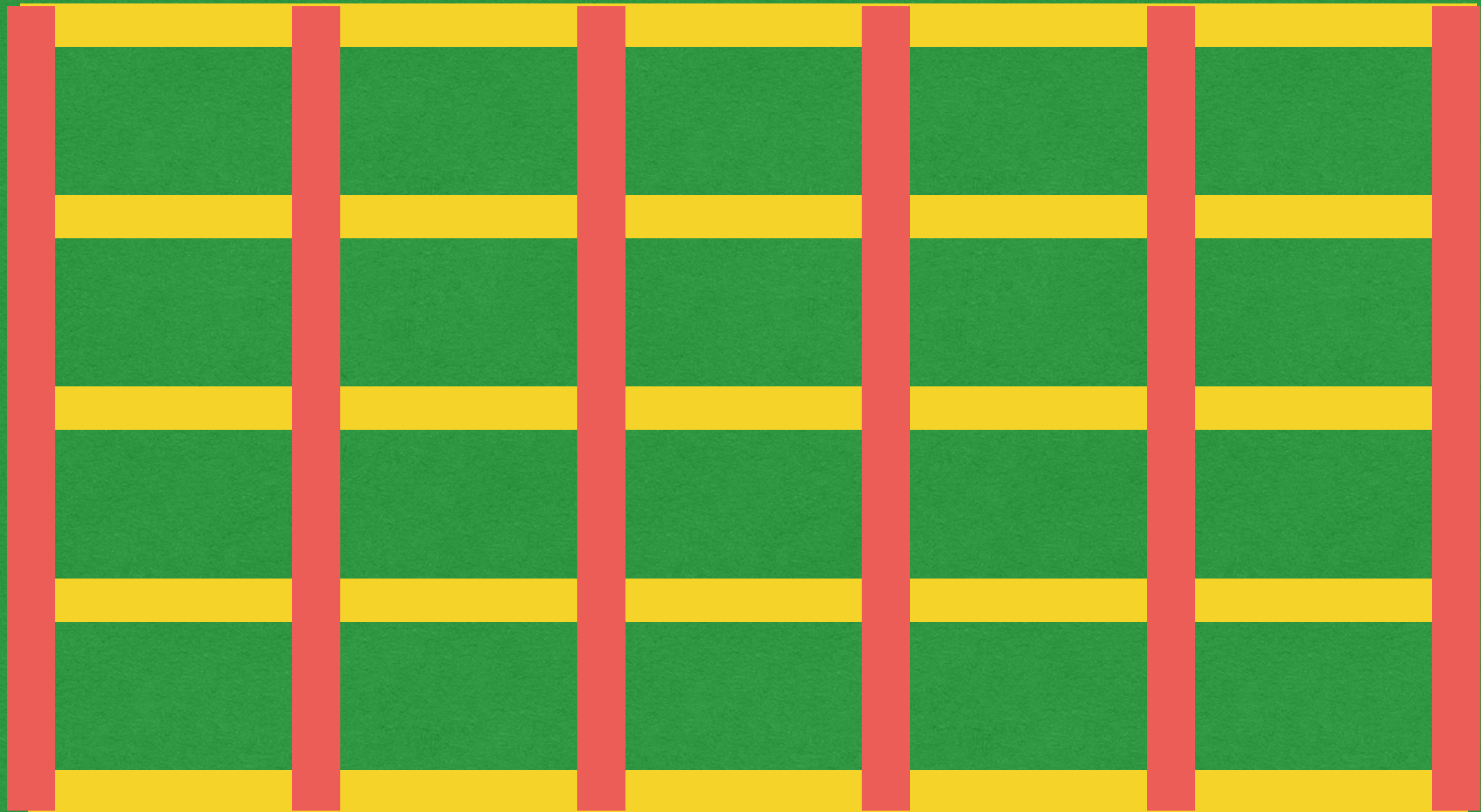
COUSIN OF FLEXBOX

Built with modern web in mind

Natively responsive

Parent —> Child Relationship

GRID TRACKS

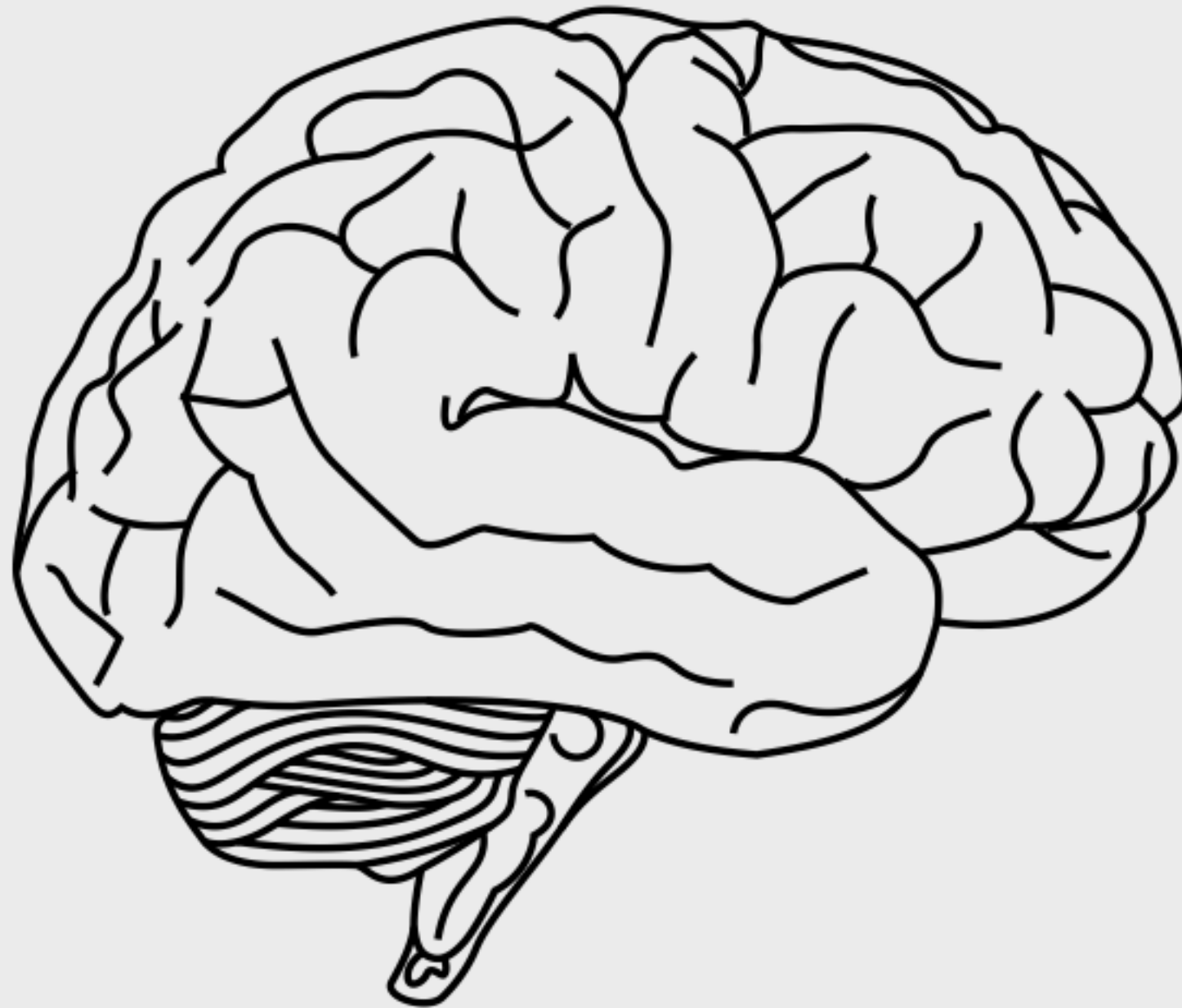


(thats what the rows and columns are called)

1 - USE DISPLAY

```
.container {  
  display: grid;  
}
```

2 - THINK !



**WHAT KIND OF LAYOUT
DO YOU WANT?**



Make some **COLUMNS**



ROW

And maybe a **ROW**

EXAMPLE

```
/* 2 column, 1 row grid */  
.container {  
  display: grid;  
  grid-template-column: 100px 100px;  
  grid-template-row: 100px;  
}  
  
.item {  
  background-color: orange;  
}
```

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	

CHECK OUT
ASSIGNMENT 2
GRID-01

IMPLICIT TRACKS

You can leave off `grid-template-row` and CSS grid will automatically make the rows, conceptually called the implicit grid.

SO THIS ALSO WORKS

```
/* 2 column, 1 row grid */  
.container {  
  display: grid;  
  grid-template-column: 100px 100px;  
}  
  
.item {  
  background-color: orange;  
}
```

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	

GRID-GAP

`grid-gap` is the margin/padding of CSS grid.
If you want space between your grid items,
you apply `grid-gap` to the container. So
easy!

GRID-GAP

One Value

```
.container {  
  display: grid;  
  grid-template-column: 100px 100px;  
  grid-gap: 20px;  
}  
  
.item {  
  background-color: orange;  
}
```

GRID-GAP

One Value

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

GRID-GAP

`grid-gap` can take two values, which set column and row padding respectively

GRID-GAP

Two Value

```
.container {  
  display: grid;  
  grid-template-column: 100px 100px;  
  grid-gap: 20px 80px;  
}  
  
.item {  
  background-color: orange;  
}
```

GRID-GAP

Two Value (note column/row padding difference)

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20

CHECK OUT
ASSIGNMENT 2
GRID-3

FR UNIT

The 'fractional unit' - `fr` - is a new unit to be used with CSS grid (similar to percentages).

It stands for fractions of a grid container, and it intelligently takes `grid-gap` into account.

FR UNIT

```
/* 4 column grid, with fr */
.container {
  display: grid;
  grid-template-columns: 1fr 1fr 1fr 1fr;
  grid-gap: 20px;
}

.item {
  background-color: orange;
}
```

MIX FR & PIXEL / % ?

Yeah - we feel free to mix fixed width and variable width units like pixels, fr and percentages.

They can be used together - fr is like saying 'use the remainder of the space left AFTER you take out the fixed width elements'.

FR UNIT

Can't really tell what's going on unless you open a browser up

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

CHECK OUT
ASSIGNMENT 2
GRID-5

NEXT TIME

Layout Lab!