

A photograph of two people in futuristic racing suits standing on a grid floor. One person is reaching up towards a glowing blue structure. The scene is set against a dark background with a grid pattern on the floor.

GET ON THE GRID

Using CSS Grid in the Real World

Brenda Storer

@brendamarienyc

Me

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Designer at thoughtbot (Front-End Dev too!)

Help host CSS Layout Club in NYC

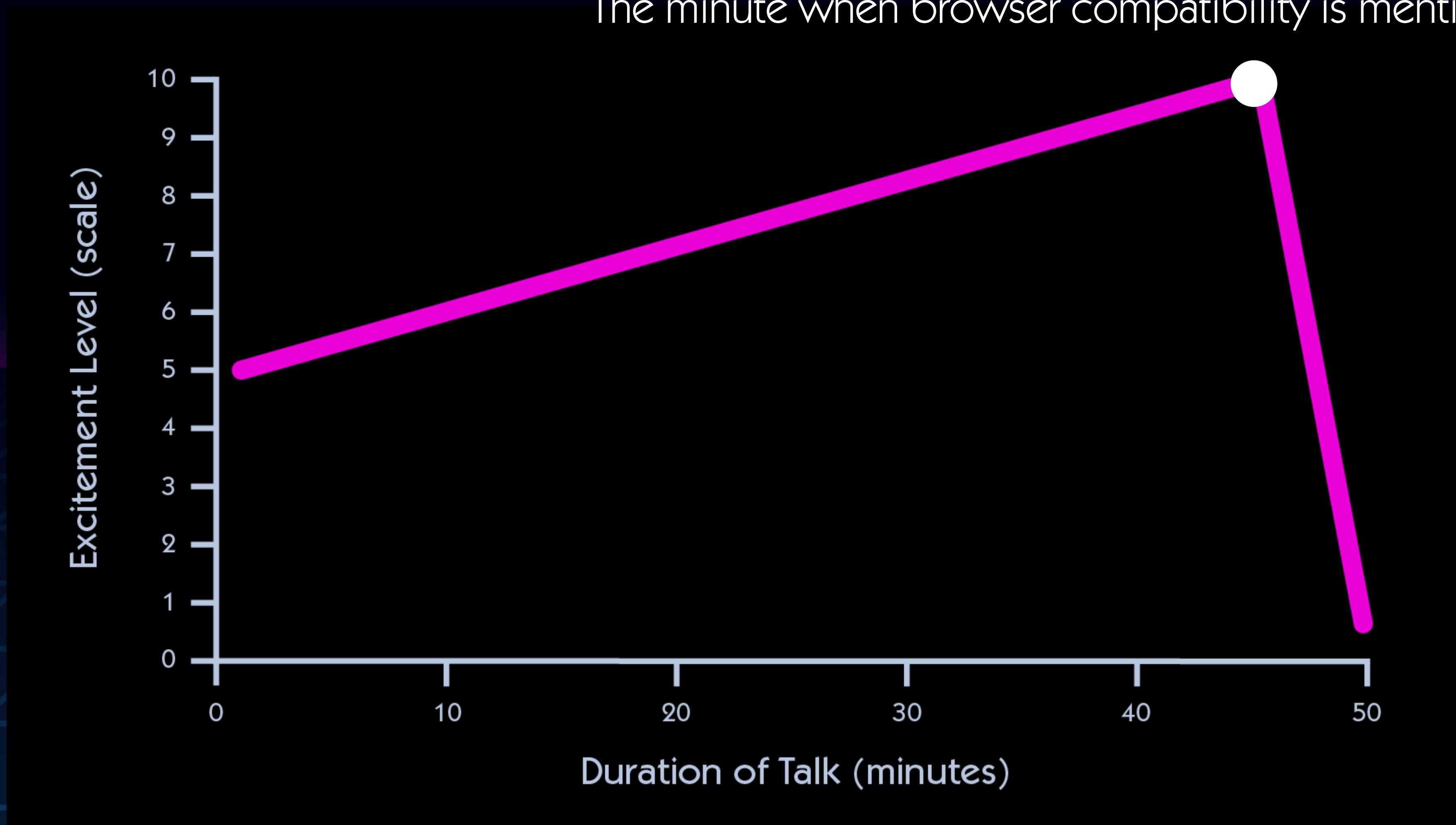
You?

Grid for the everyday

The layouts we all know and love.

Emotional Reaction to new CSS Specs

The minute when browser compatibility is mentioned 😢😢😡

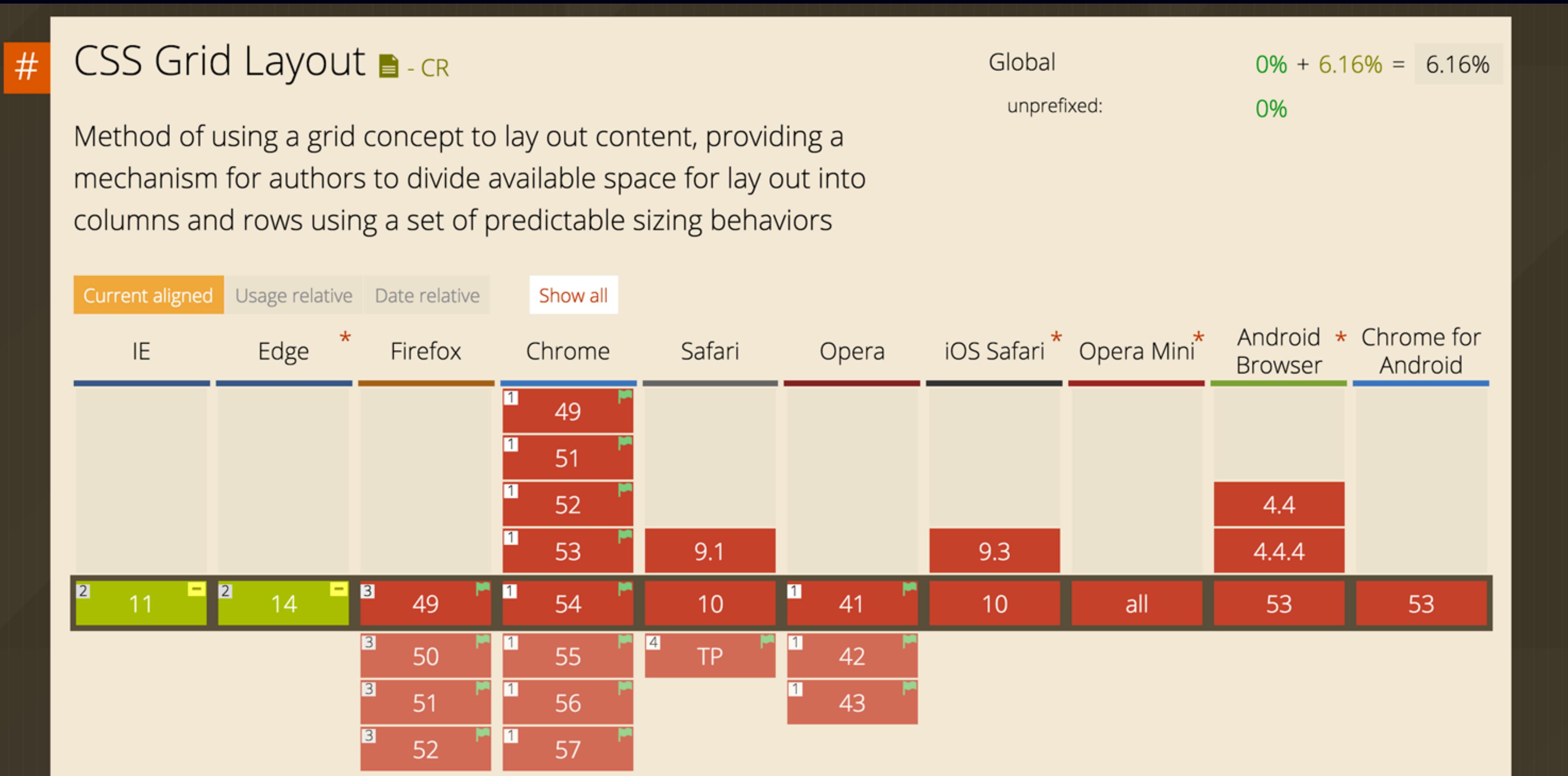


Why can't we have nice things? 😭

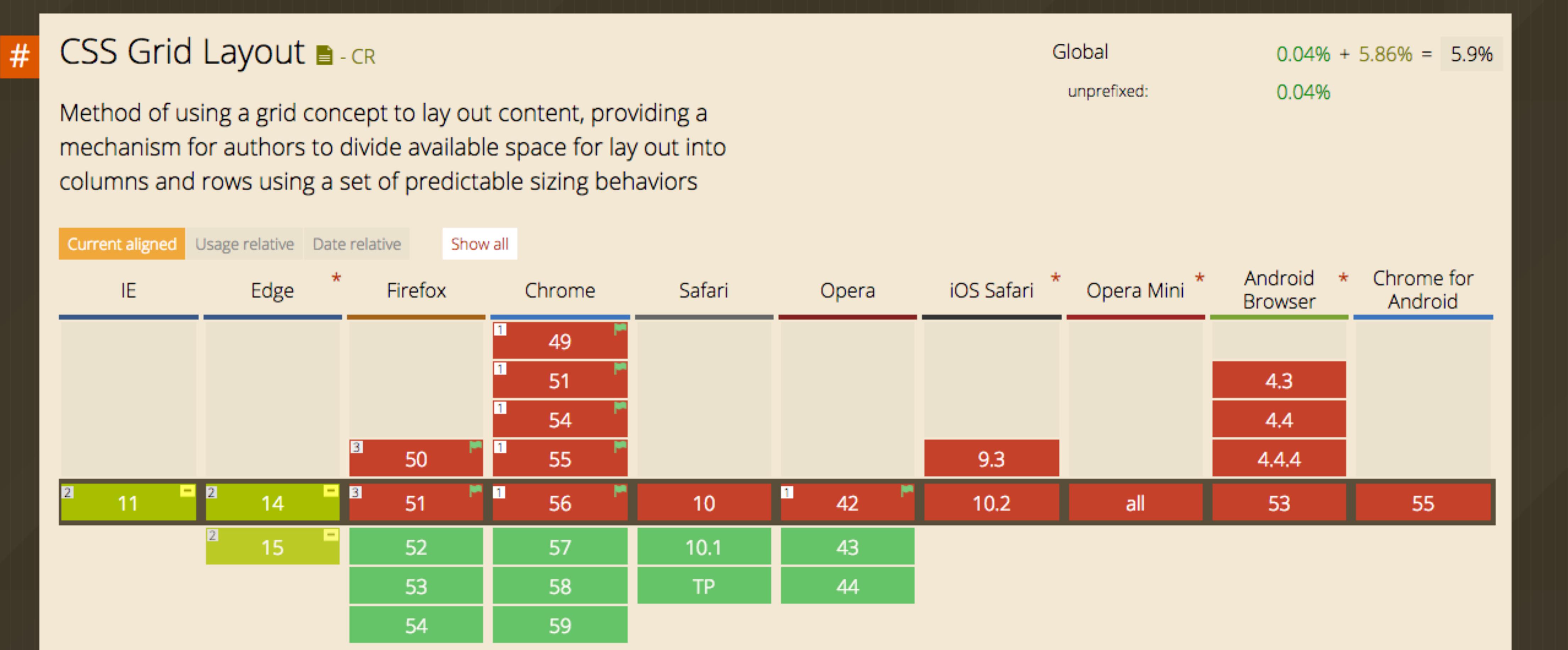


GRID IS NICE

November 17, 2016



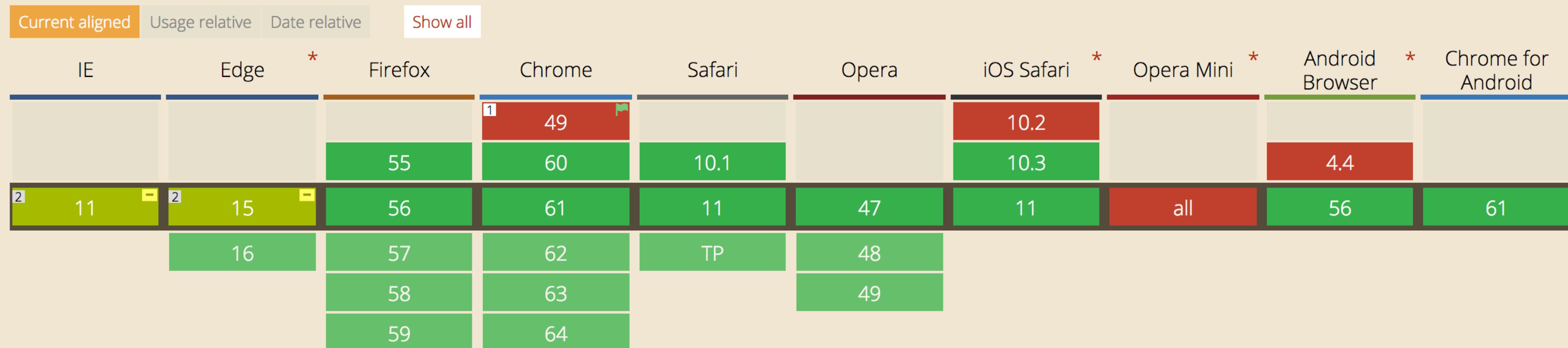
January 27, 2017



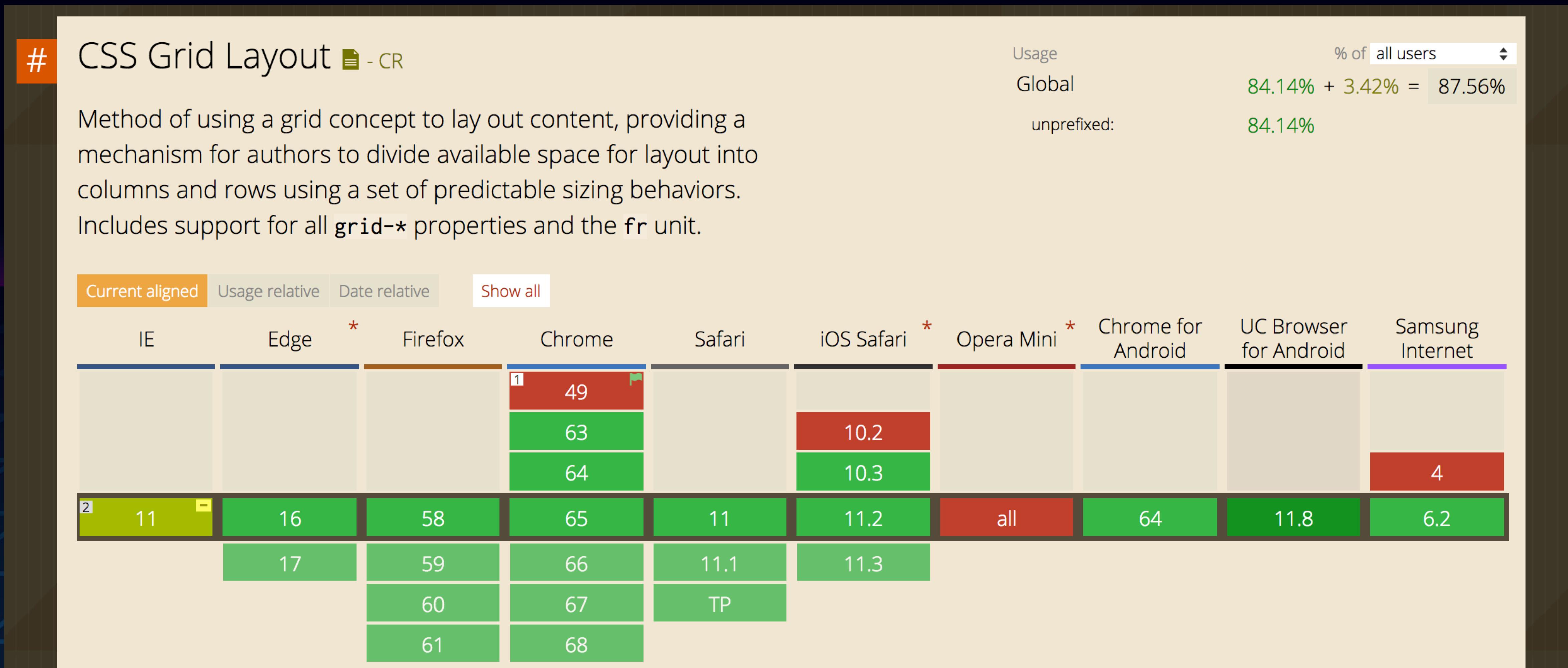
October 9, 2017

CSS Grid Layout - CR

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors



Today



0 – 70 in under a month!

Firefox: March 7, 2017

Chrome/Opera: March 14, 2017

Safari: March 27, 2017

Edge: October 17, 2017

How?

Bye Bye Vendor Prefixes 😱

Hello Feature Flags 😊

...with one exception. IE.

Prefixed version of Grid in IE only `-ms`

Should I try to use the IE implementation of CSS

Grid Layout? — Rachel Andrew

Internet Explorer + CSS Grid???? — Jen Simmons



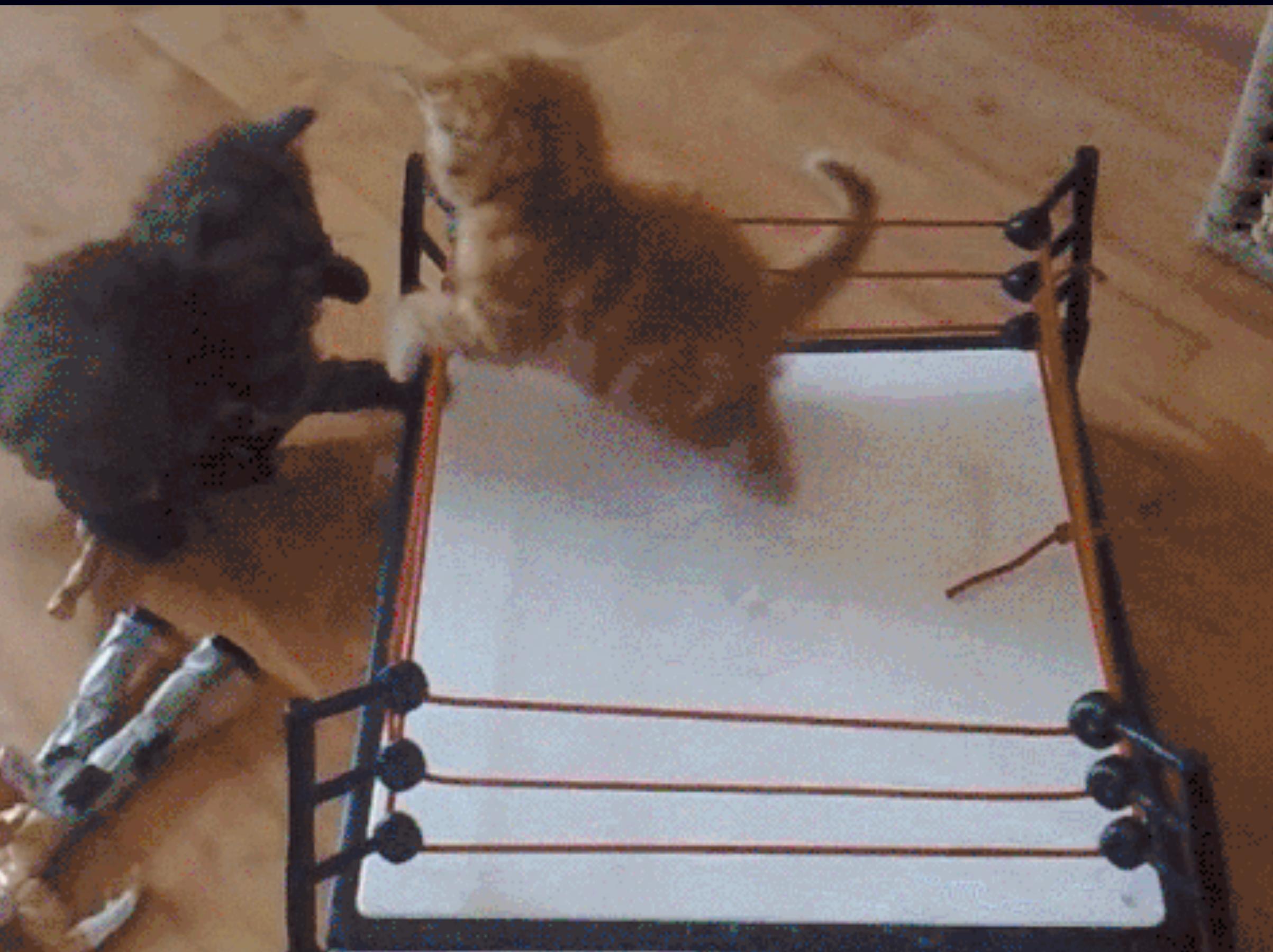
Step by Step Guide to writing CSS Grid

Layout Land Video Series by Jen Simmons

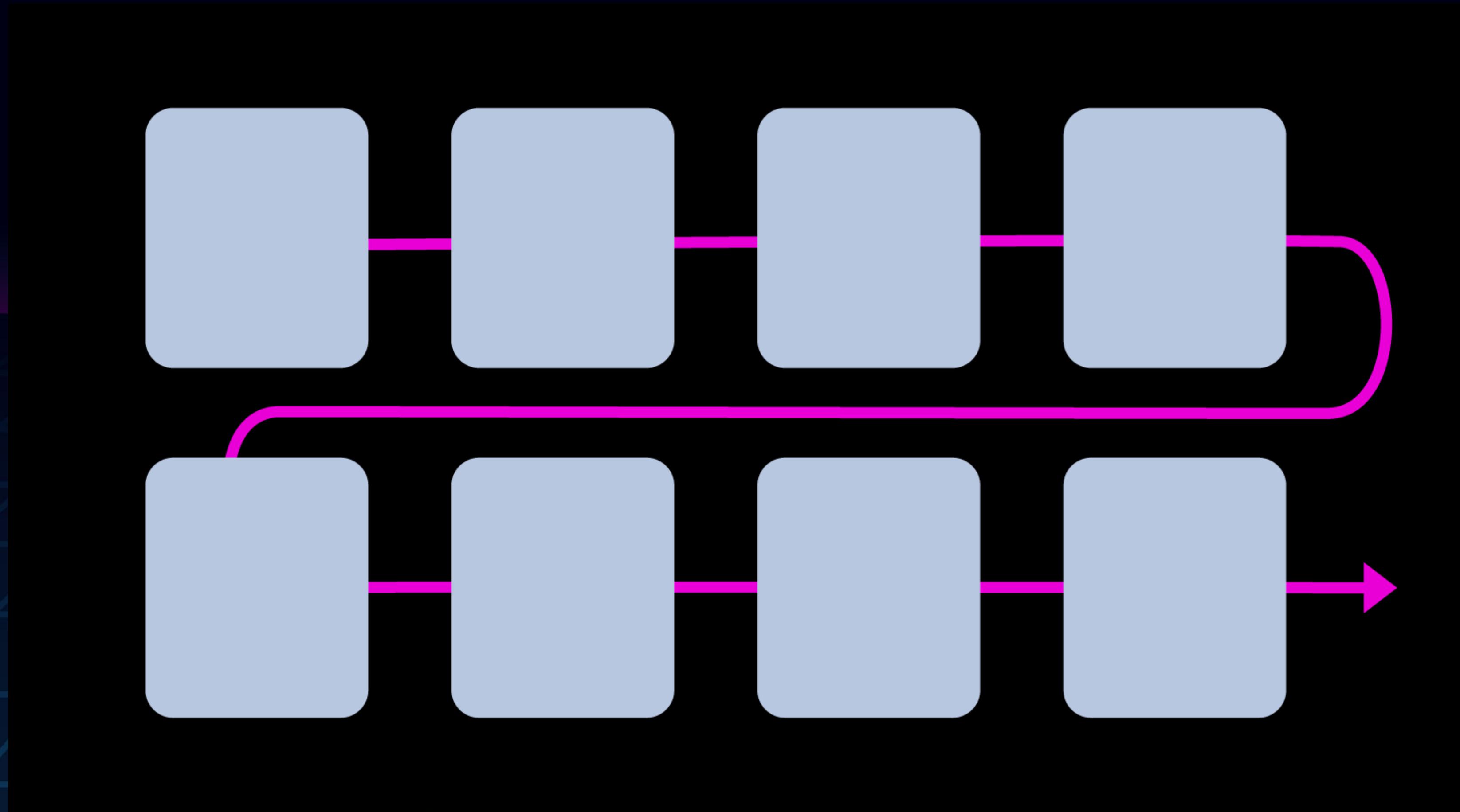
Basics of CSS Grid: The Big Picture

Step 1: Identify a Good Use Case

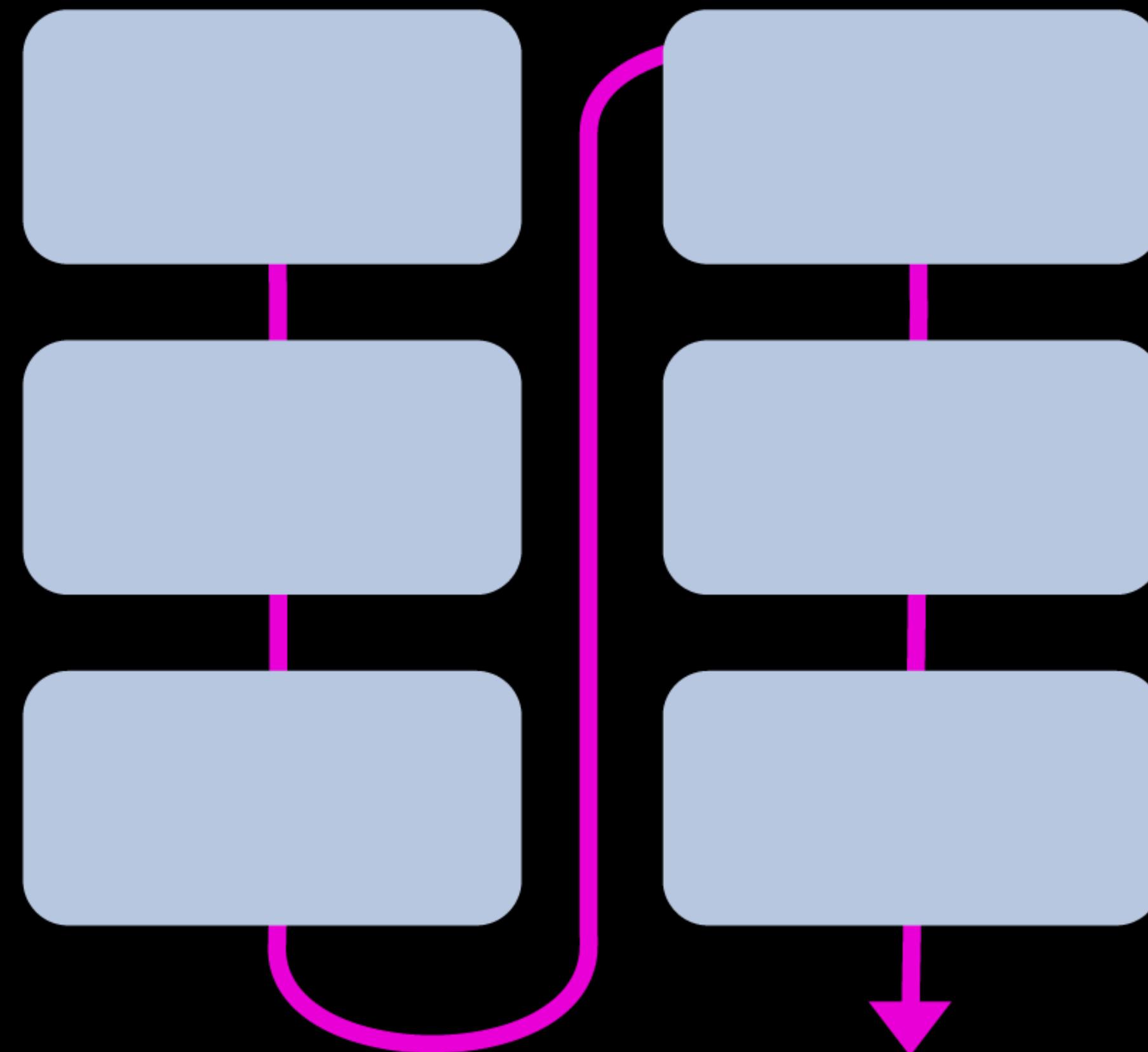
Flexbox vs. Grid



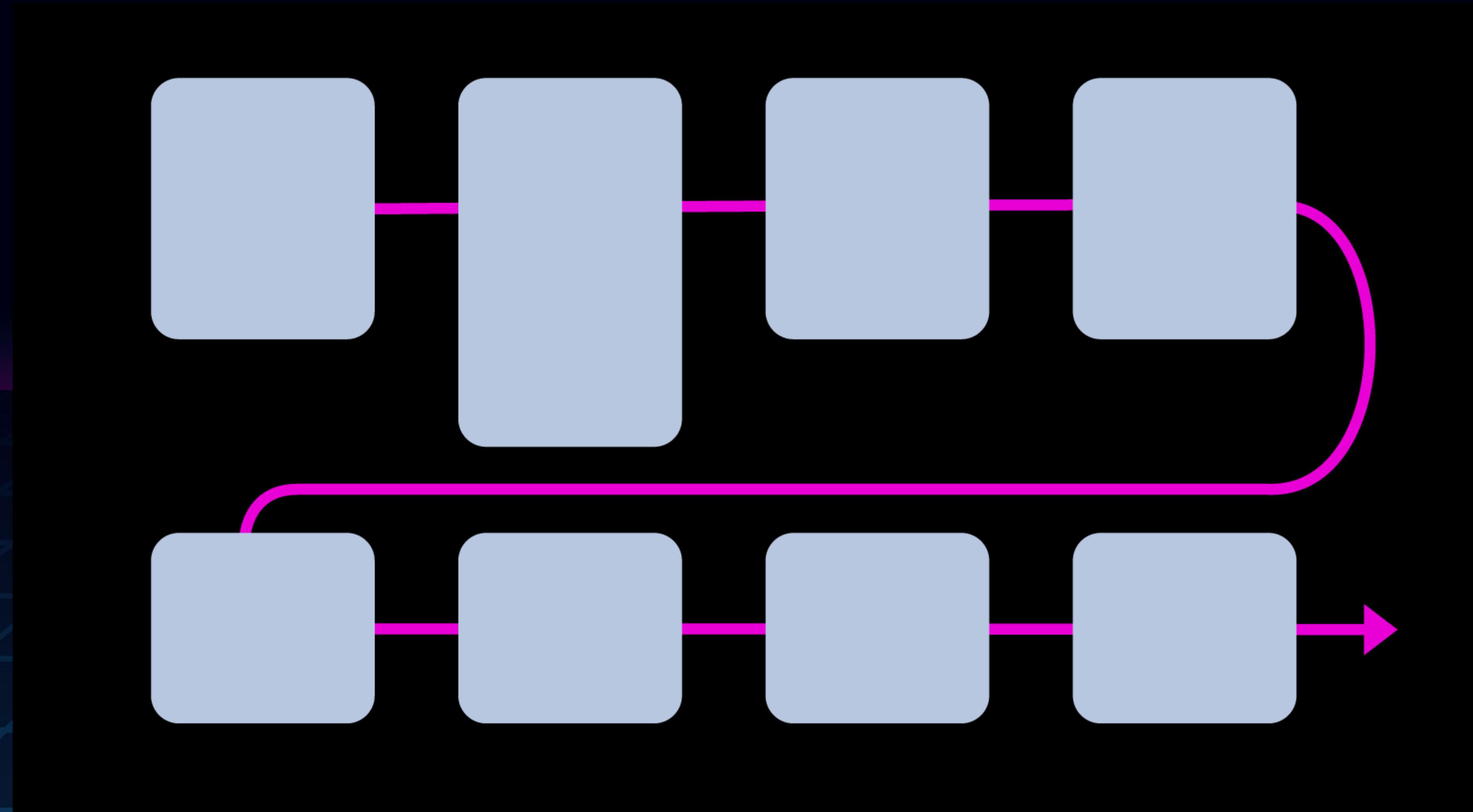
Flexbox is great for laying out items in one direction.
In rows....



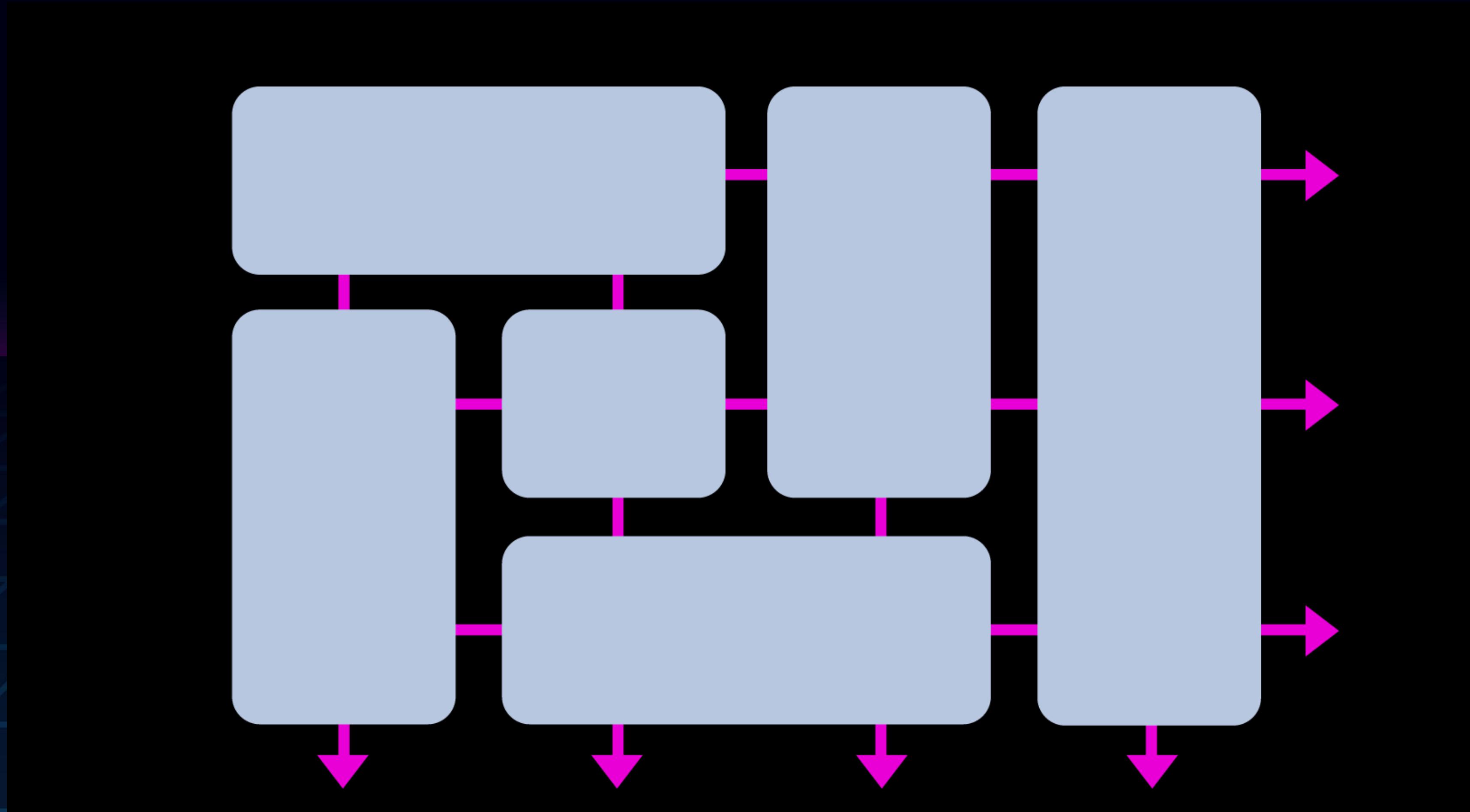
...or columns

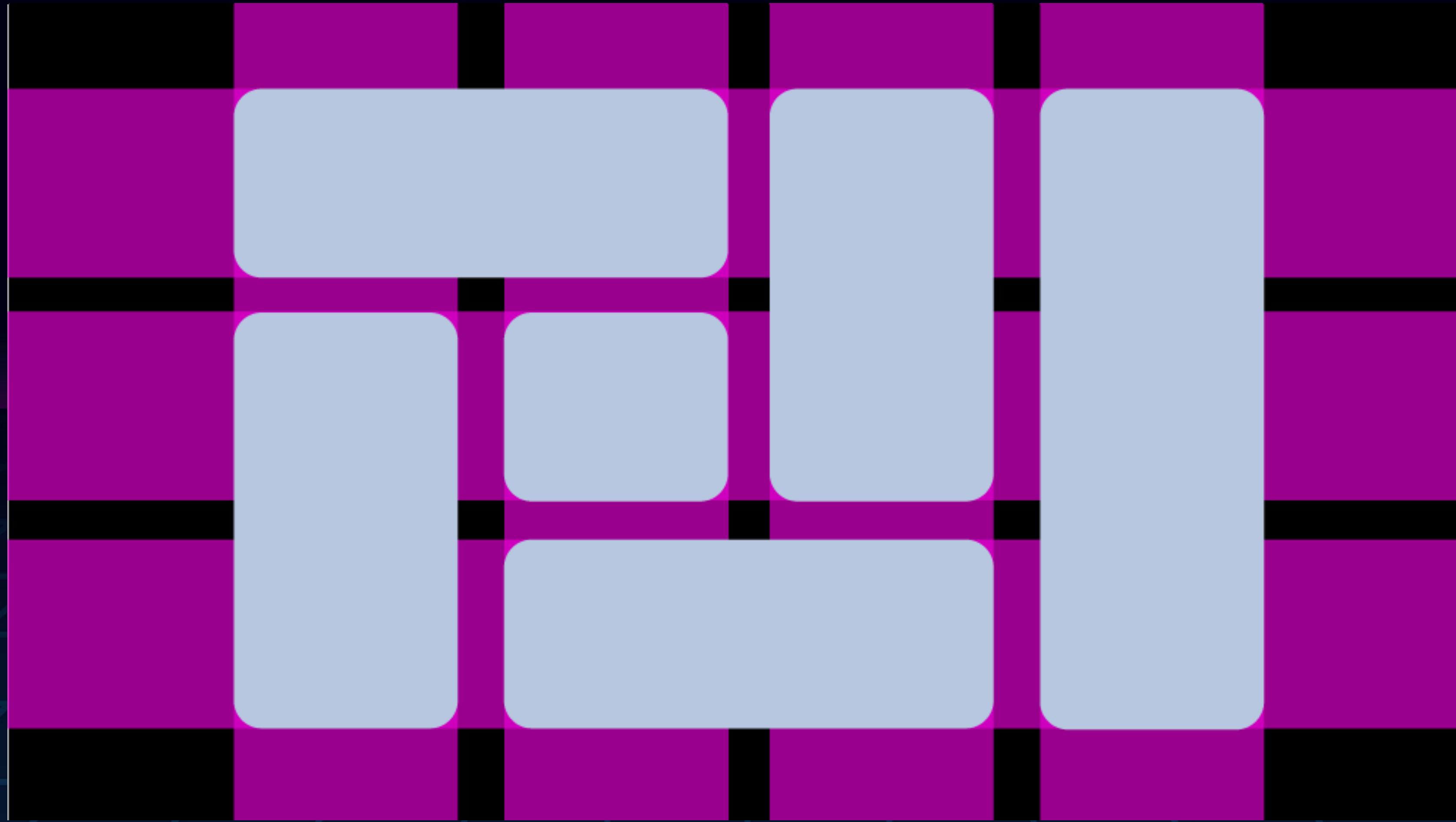


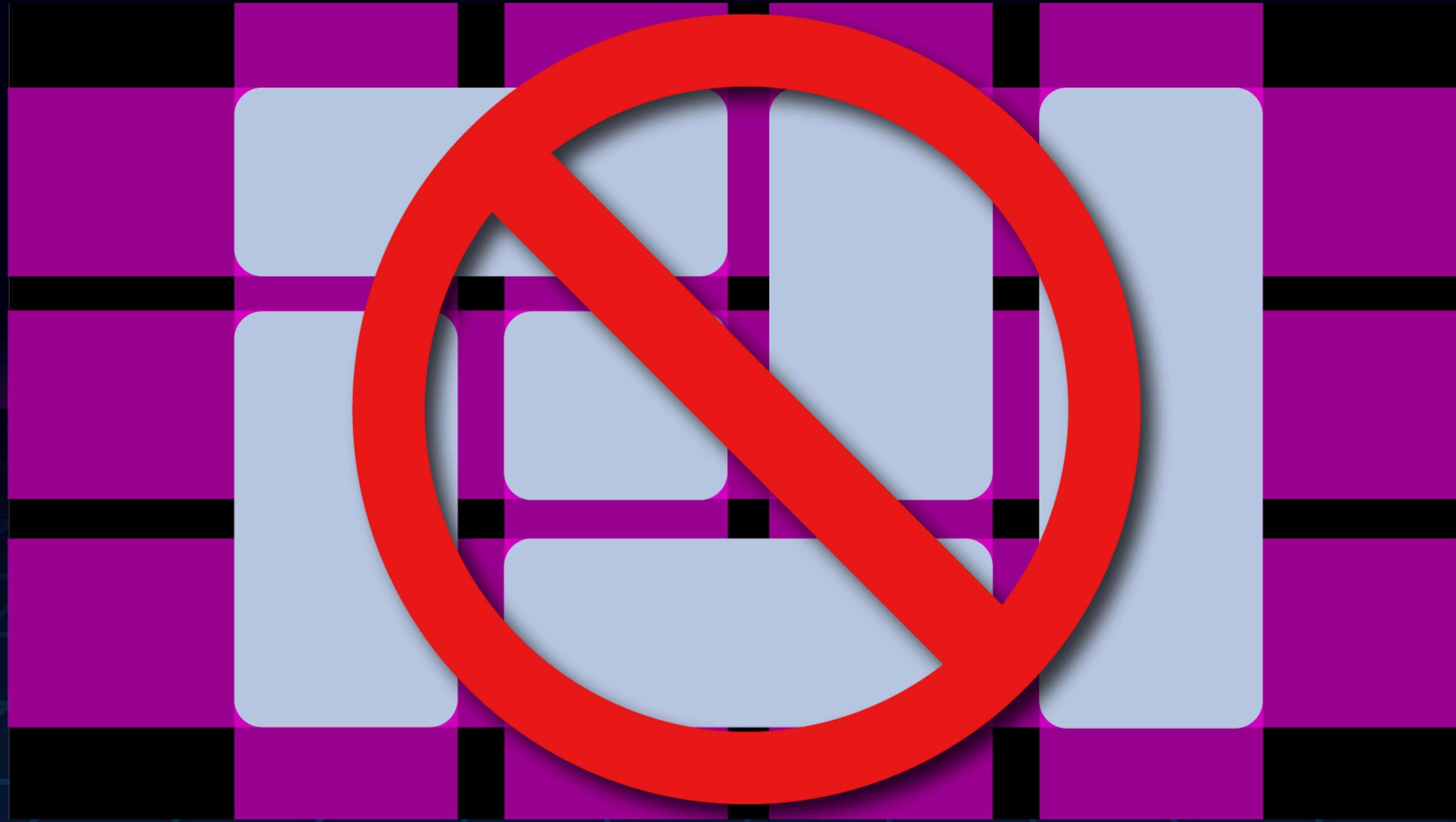
Uh oh.

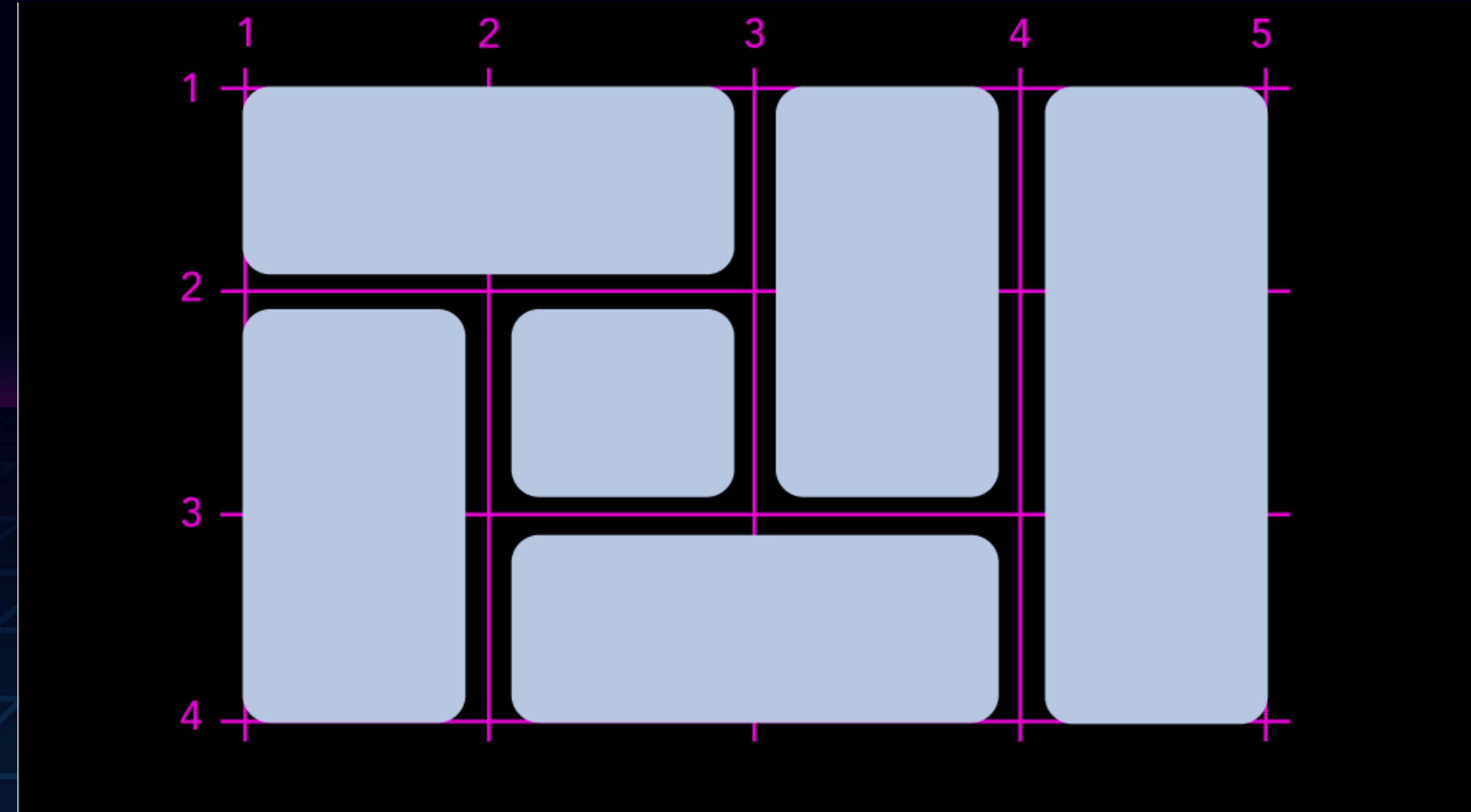


Grid allows you to lay out elements in two directions,
rows & columns









When normally reaching for a layout property like
Flexbox, floats, or positioning,
consider Grid. 

A good use case



Step 2: Write Grid Code

The Markup (simplified)

```
<ul class="search-results">
  <li class="search-results__result">
    
  </li>
  <li class="search-results__result">
    
  </li>
  ... more <li>s
</ul>
```

The CSS



```
.search-results {  
    display: grid;  
    grid-gap: 10px;  
    grid-template-columns: repeat(auto-fit, minmax(320px, 1fr));  
    padding: 10px;  
}
```

Some great references by Rachel Andrew

[Flexible Sized Grids with auto-fill and minmax](#)

[The fr unit](#)

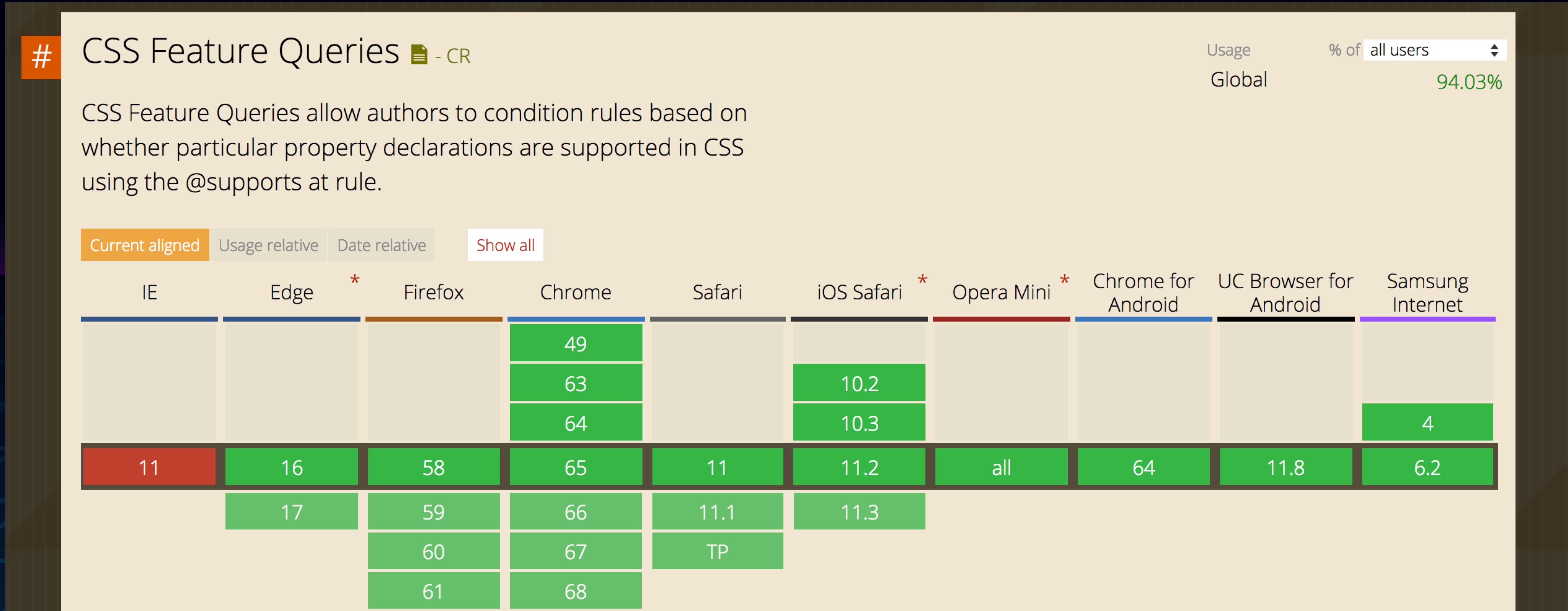
Step 3:

Fallback gracefully with feature queries

@supports

```
@supports (display: grid) {  
  .search-results {  
    display: grid;  
    grid-gap: 10px;  
    grid-template-columns: repeat(auto-fit, minmax(320px, 1fr));  
    padding: 10px;  
  }  
}
```

@supports Support



Fallin' back with Flexbox

```
.search-results {  
    display: flex;  
    flex-wrap: wrap;  
    padding: 5px;  
}  
  
.search-results__result {  
    margin: 5px;  
}  
  
@media only screen and (min-width: 500px) {  
    .search-results__result {  
        width: calc(50% - 10px);  
    }  
}  
  
@media only screen and (min-width: 800px) {  
    .search-results__result {  
        width: calc(33.3333% - 10px);  
    }  
}  
  
@media only screen and (min-width: 1200px) {  
    .search-results__result {  
        width: calc(25% - 10px);  
    }  
}
```

Grid code with a Flexbox fallback: Ready for production!

```
.search-results {  
    display: flex;  
    flex-wrap: wrap;  
    padding: 5px;  
}  
  
@supports (display: grid) {  
    .search-results {  
        display: grid;  
        grid-gap: 10px;  
        grid-template-columns: repeat(auto-fit, minmax(320px, 1fr));  
        padding: 10px  
    }  
}  
  
.search-results__result {  
    margin: 5px;  
}  
  
@media only screen and (min-width: 500px) {  
    .search-results__result {  
        width: calc(50% - 10px);  
    }  
}  
  
@media only screen and (min-width: 800px) {  
    .search-results__result {  
        width: calc(33.3333% - 10px);  
    }  
}  
  
@media only screen and (min-width: 1200px) {  
    .search-results__result {  
        width: calc(25% - 10px);  
    }  
}  
  
@supports (display: grid) {  
    .search-results__result {  
        margin: 0;  
        width: auto;  
    }  
}
```

Order matters

Fallback first as the default

Grid code last, so it can override the default styles

A few considerations...

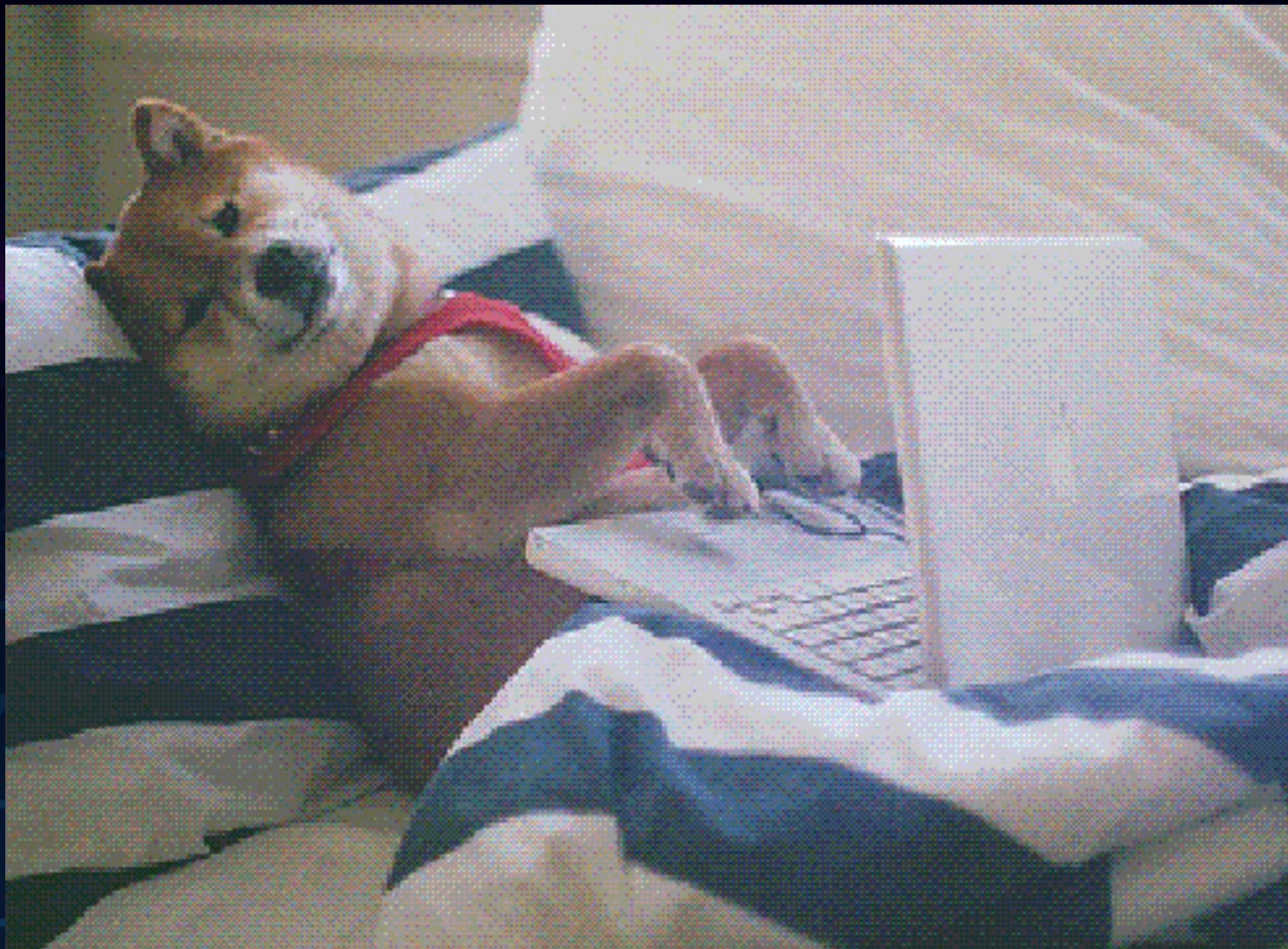
Disable Grid in Autoprefixer

- This is the default for Autoprefixer v7.0 and greater

Some syntax not supported in Sass until v3.5

- Sass-rails only running Sass v3.1

Step 4: Ship it



Everyday examples!*

*disclaimer

“It’s ok that when I look back at my old code
I sometimes say, ‘Whatever was I thinking?!!’
That means I’m still learning & growing.”

– Brenda Storer

What things can CSS Grid do that CSS couldn't do before?

Control placement around unknowns.

Using media queries with grid.

HOTSHOTPD

Can CSS Grid replace Masonry?

Not really, but kinda sometimes sorta?



Graceful Degradation

Who made the rules that web pages must look the same in every browser?



March 22, 2017

My Article Title is Really Cool and Look, It Goes Longer Than the Content Below

by Brenda Storer

A photograph of a modern interior room featuring large floor-to-ceiling windows that offer a view of a landscape with green fields and hills. The room is furnished with a brown leather armchair, a small ottoman, and a floor lamp. A white grid pattern is overlaid on the bottom half of the slide, containing a white rectangular box that holds the photograph and article details.

Resources & References

From Bootstrap to CSS Grid - Natalya Shelburne

Labs - Jen Simmons

Grid By Example - Rachel Andrew

- Get Started Guide

Firefox Devtools CSS Playground - Mozilla

CSS Grid Layout Slideshow - Mary Lou on Codrops

Resources & Examples from Me

[Codepen Collection of CSS Grid Examples](#)

[A Fearless Guide to Using CSS Grid Today](#)

Thank you!

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