

A photograph of two Disney characters, likely from the Toy Story franchise, standing on a stage. They are wearing futuristic, metallic-looking suits. One character is reaching up towards a glowing blue light source at the top of a tall, vertical structure. The stage floor has a grid pattern, and the background is dark with blue stage lights.

You might not need media queries

How to Use CSS Grid Today

Brenda Storer

@brendamarienyc

Asbury Agile – October 5, 2018

Me

@brendamarienyc

Software Engineer at Deft

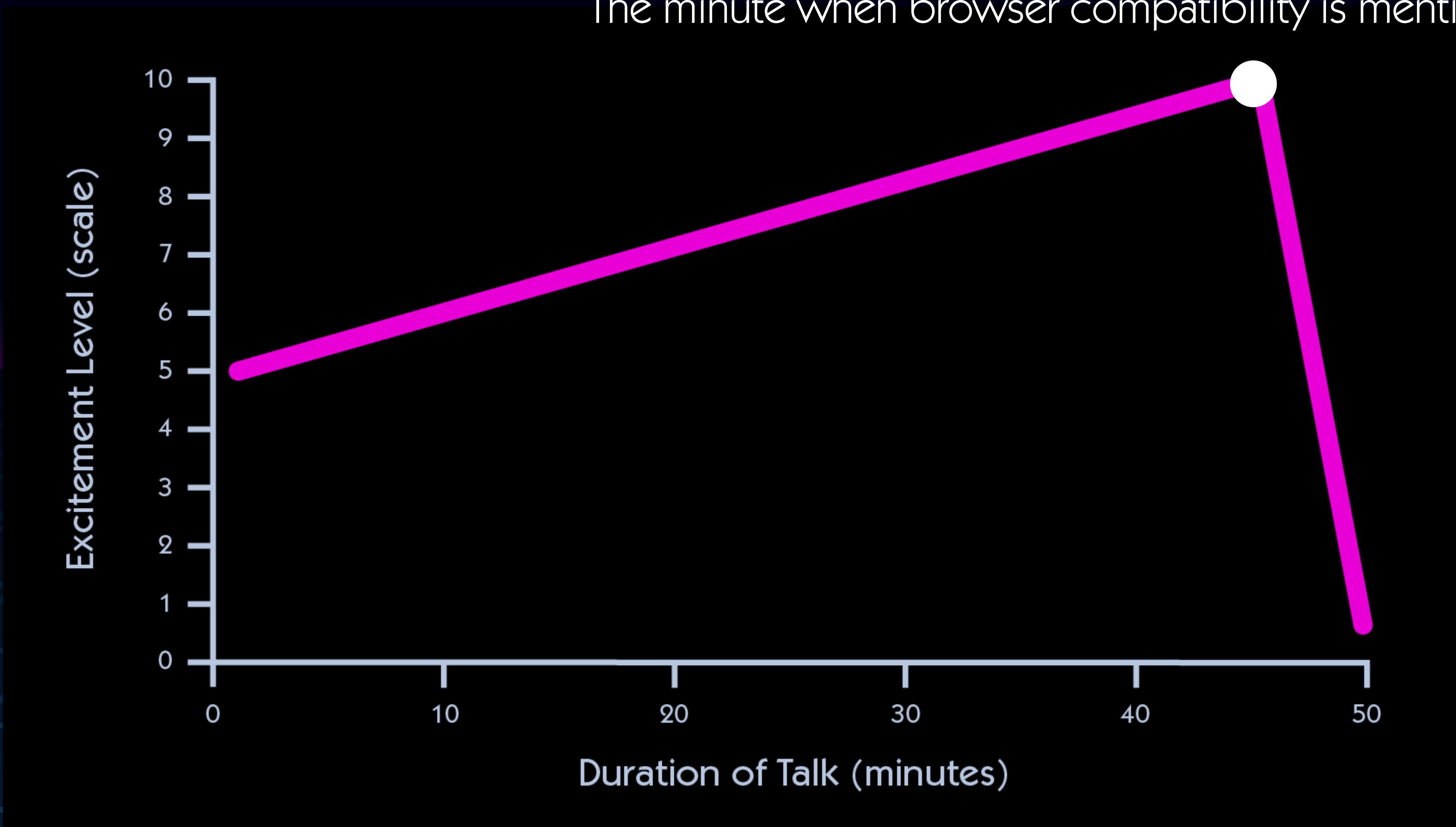
Designer/Front-End Development

(lots of client work!)

You?

Emotional Reaction to new CSS Specs

The minute when browser compatibility is mentioned 😢😢😡



Why can't we have nice things? 😭



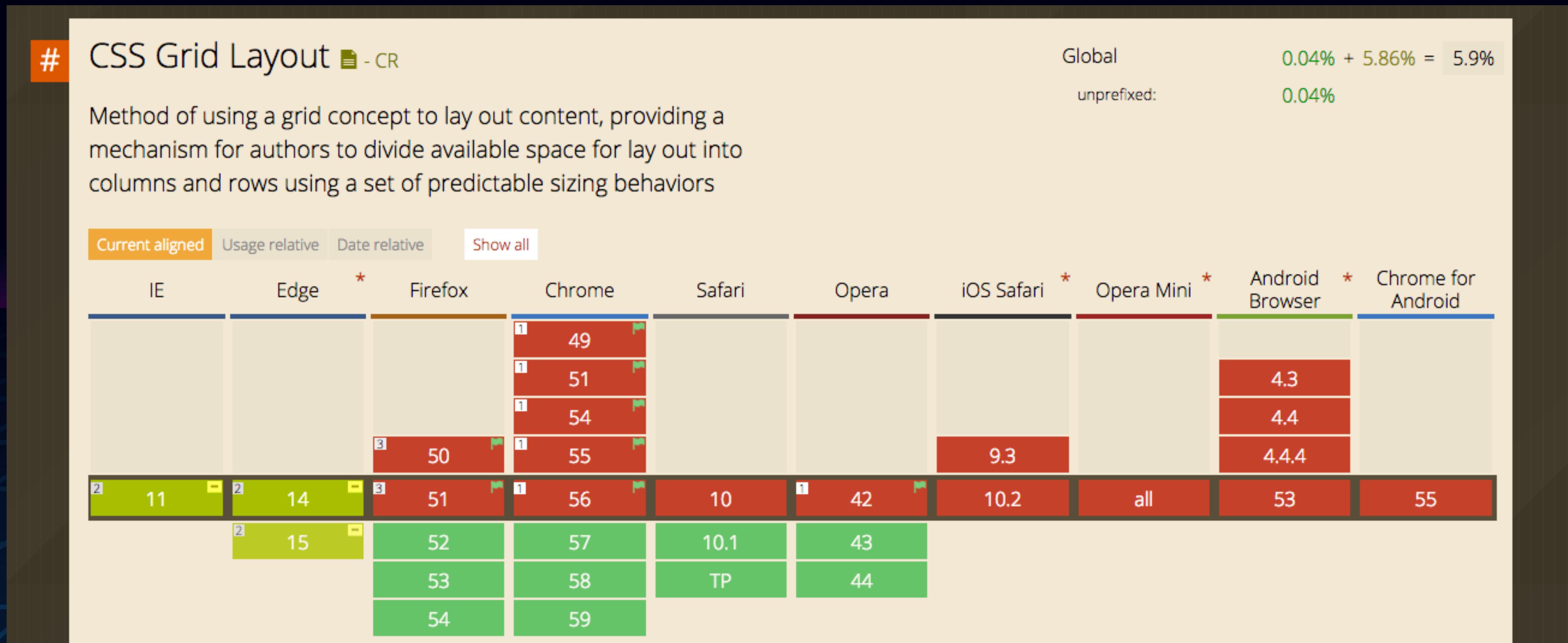
GRID IS NICE

Why?

Bye Bye Vendor Prefixes 😱

Hello Feature Flags 😊

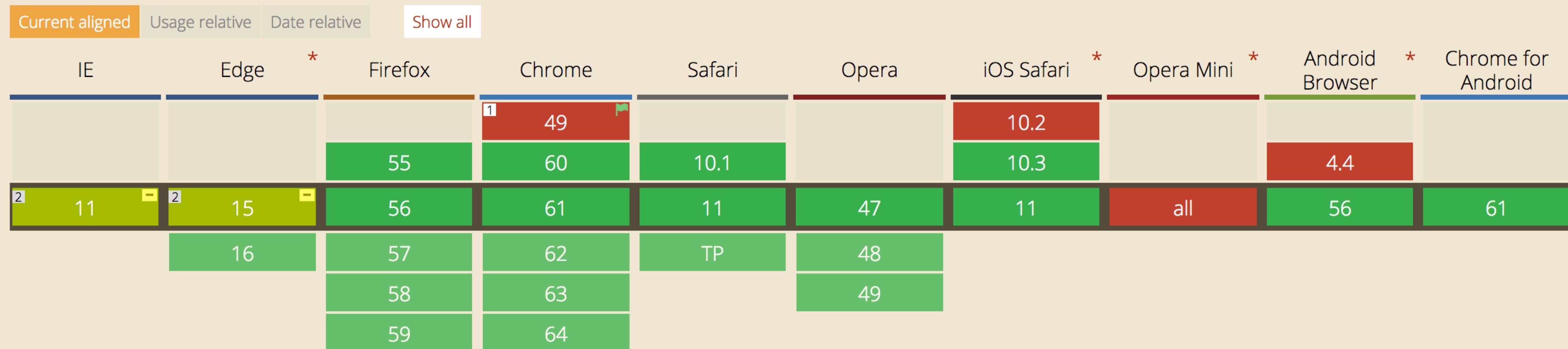
January 27, 2017



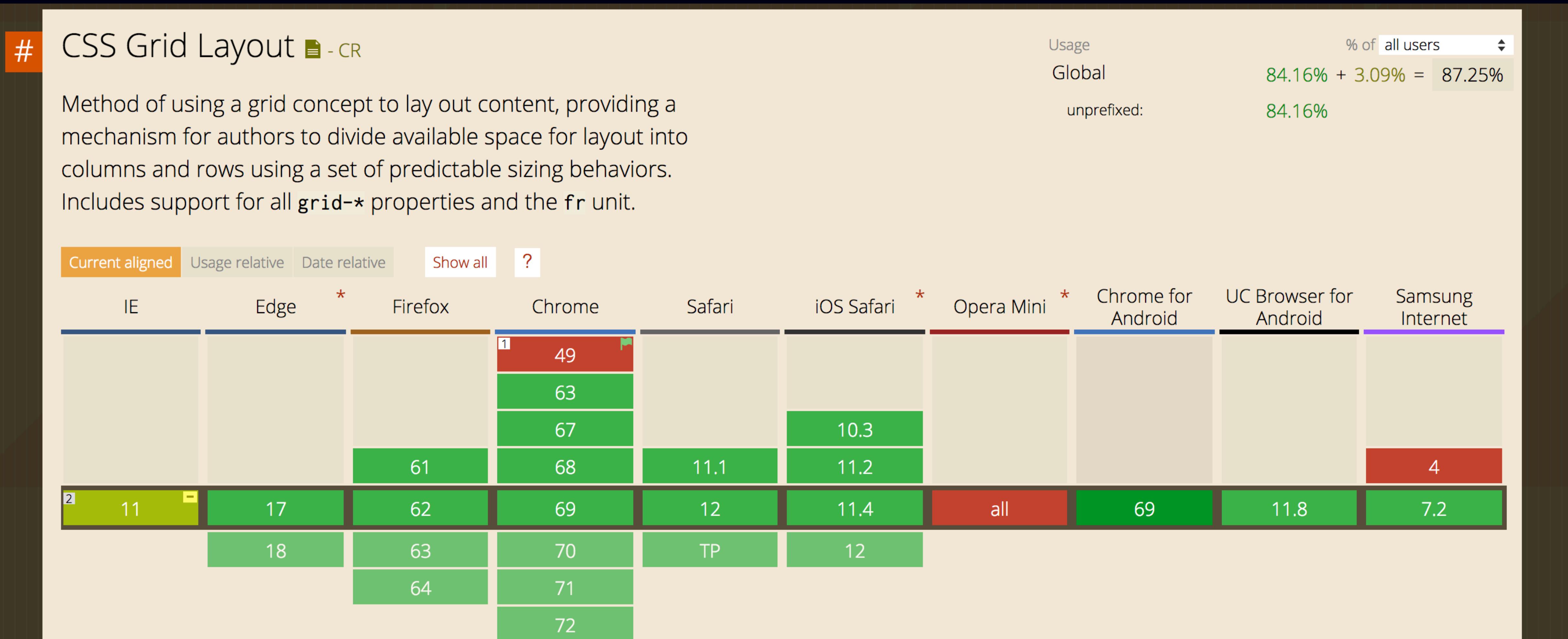
October 9, 2017

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

...with one exception. IE.

Prefixed version of Grid in IE only `-ms`

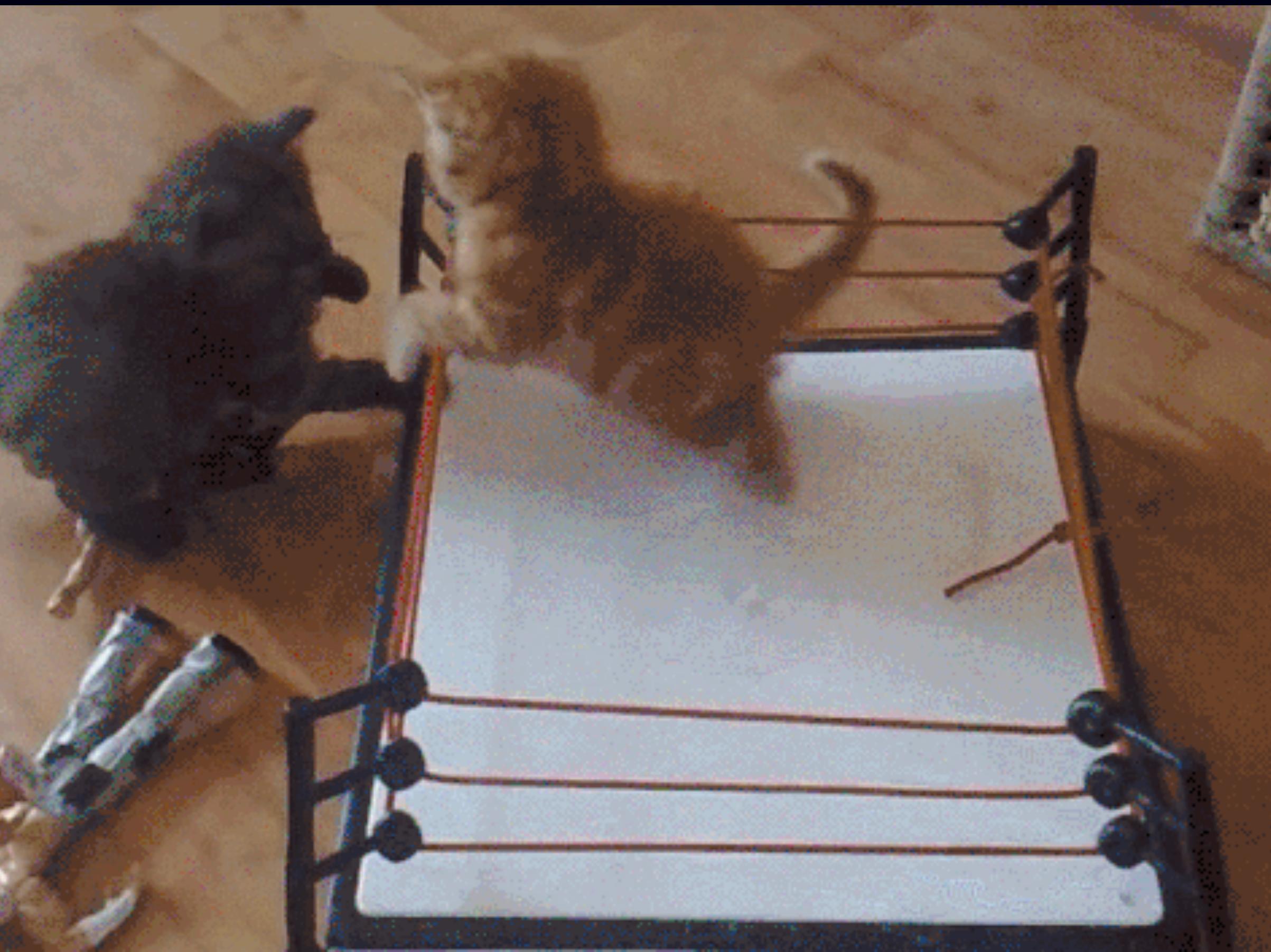
Early, not fully realized version of Grid



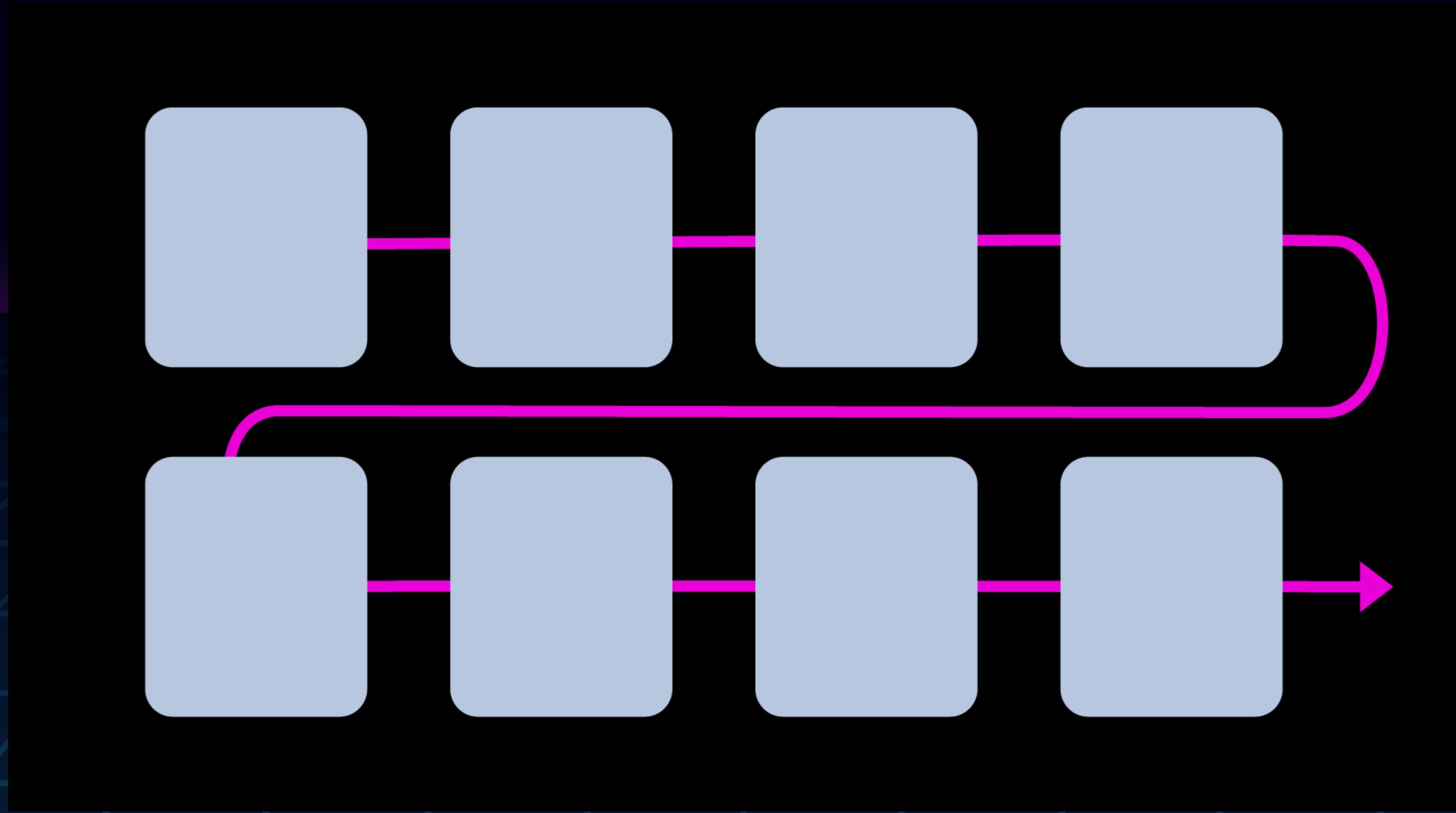
Step by Step Guide to writing CSS Grid

Step 1: Identify a Good Use Case

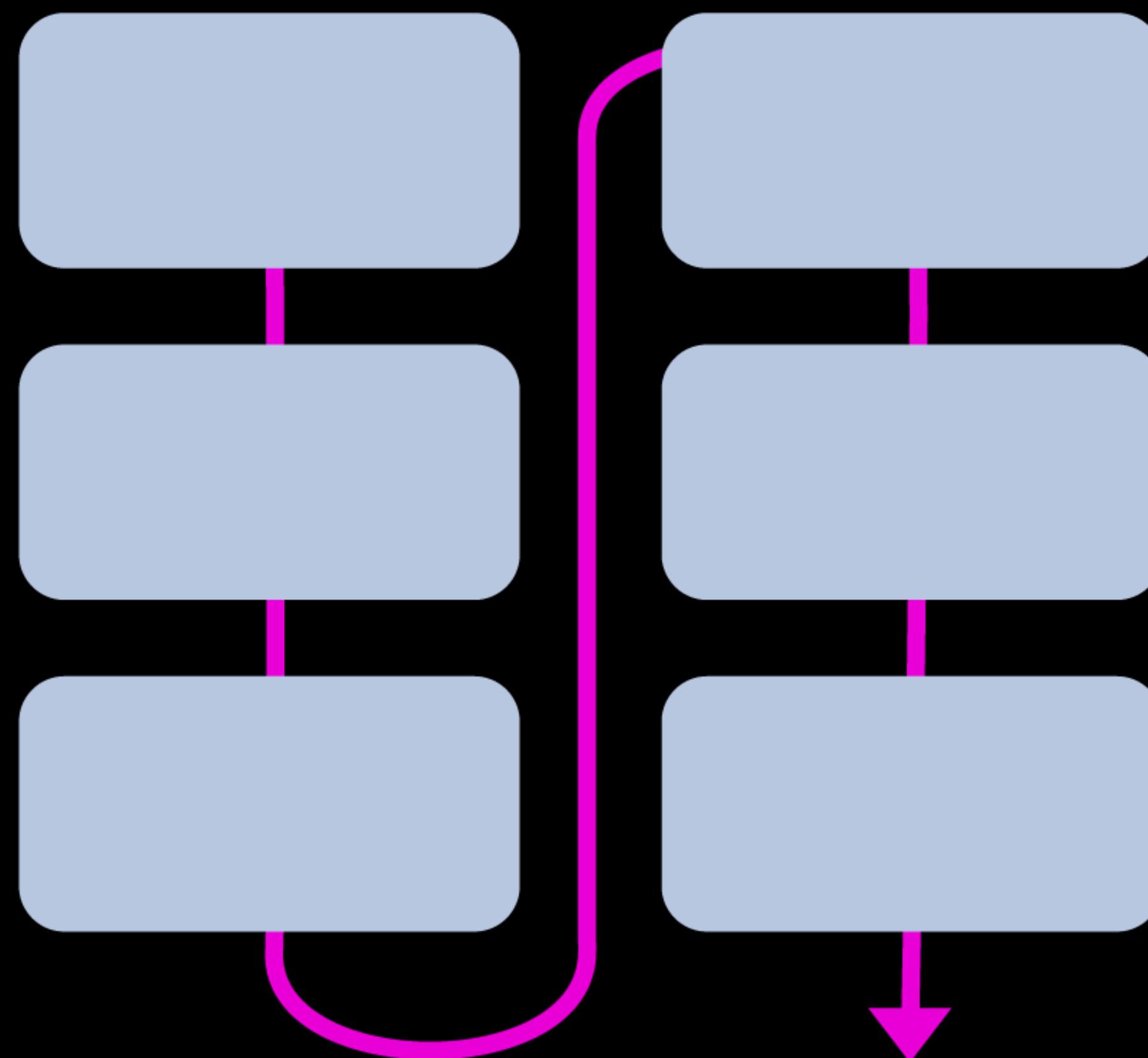
Flexbox vs. Grid



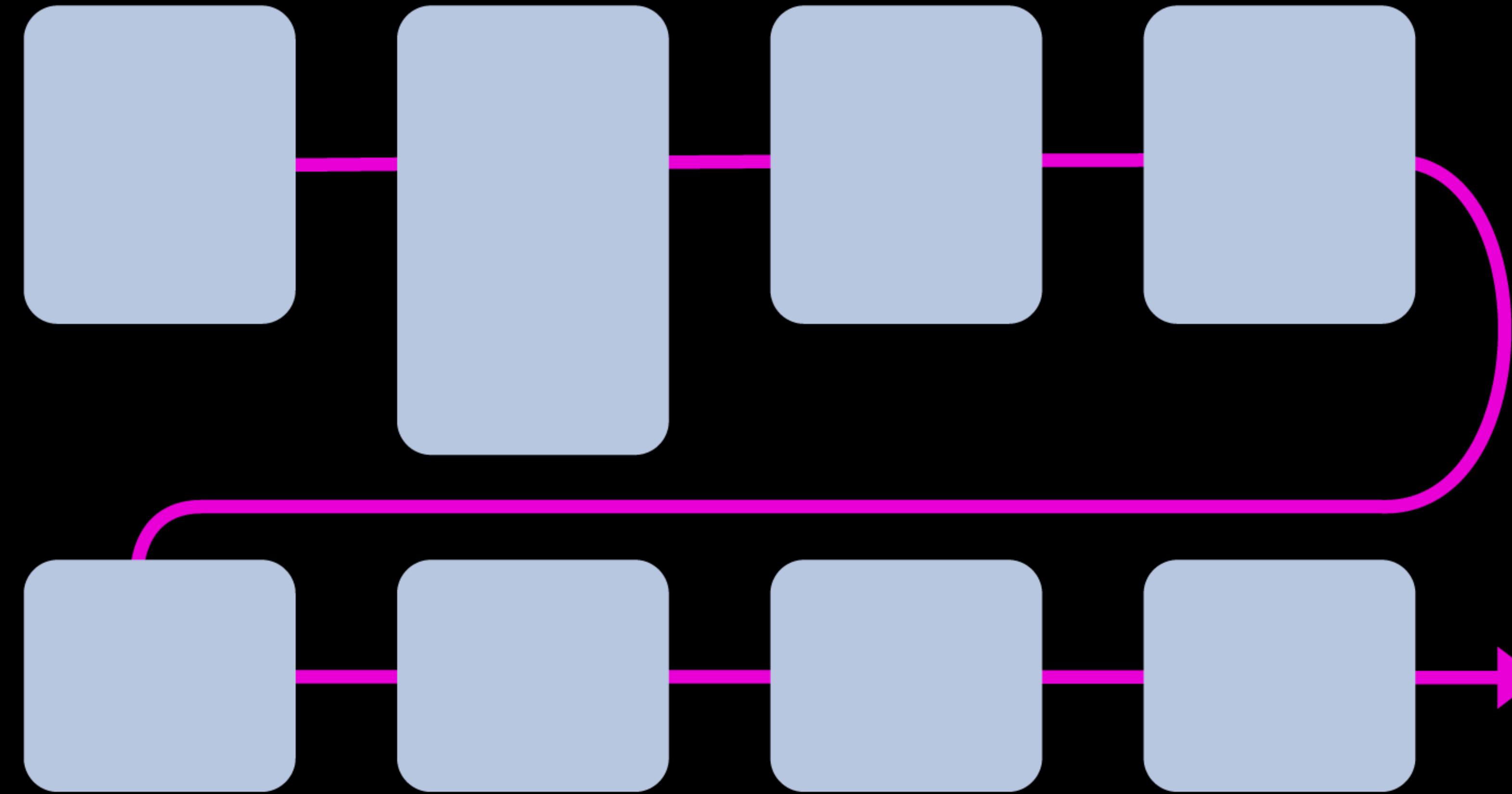
Flexbox is great for laying out items in one direction.
In rows....



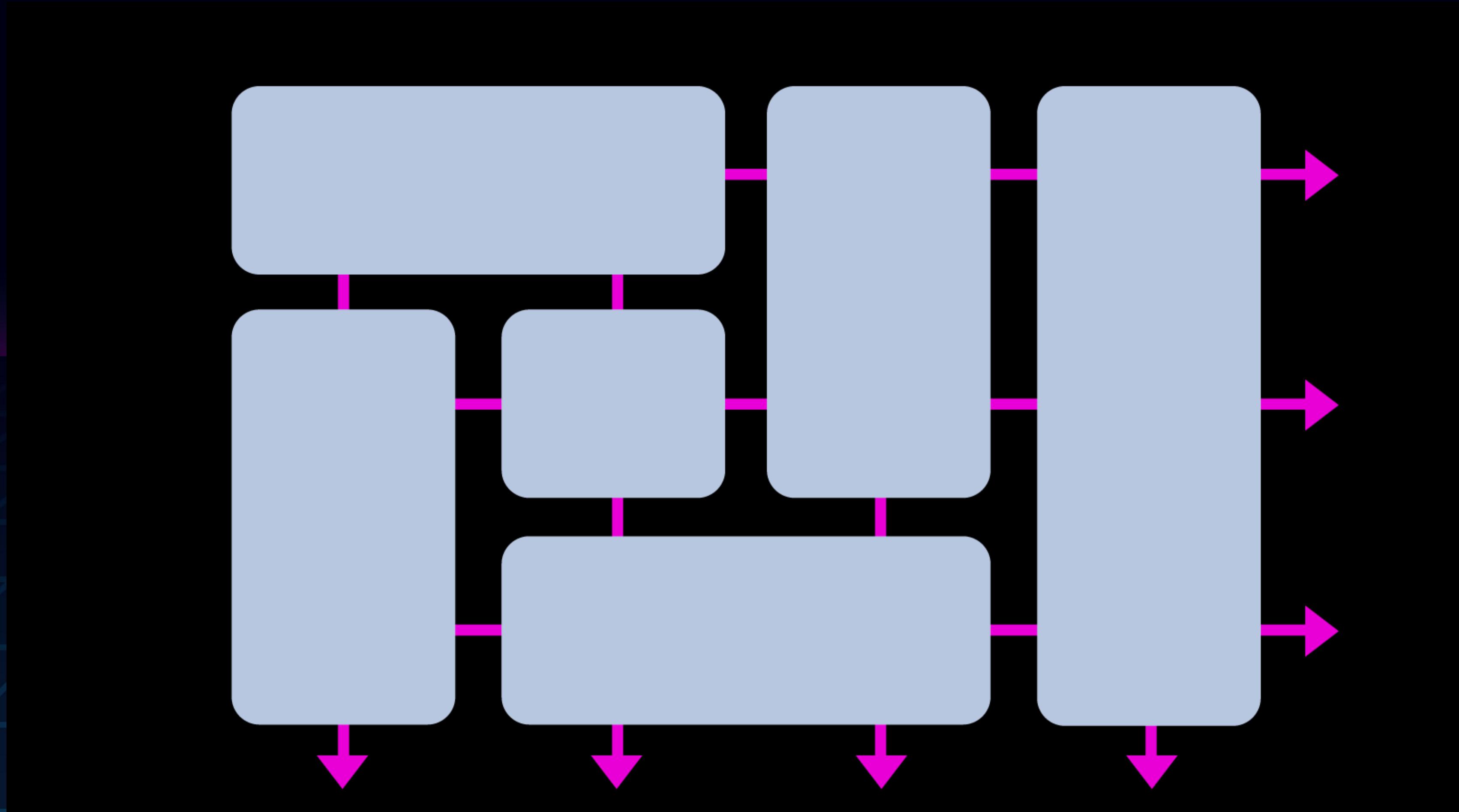
...or columns

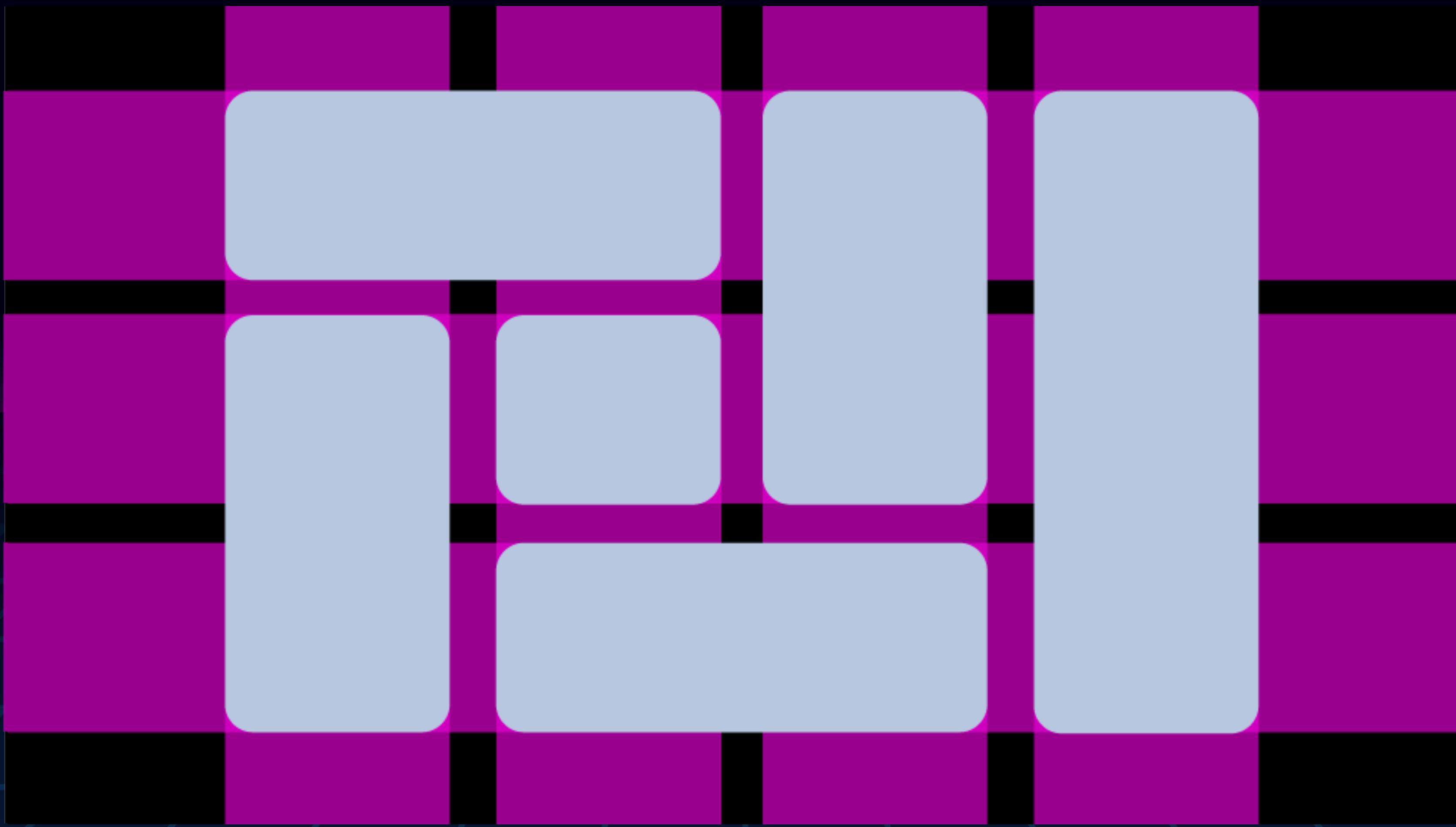


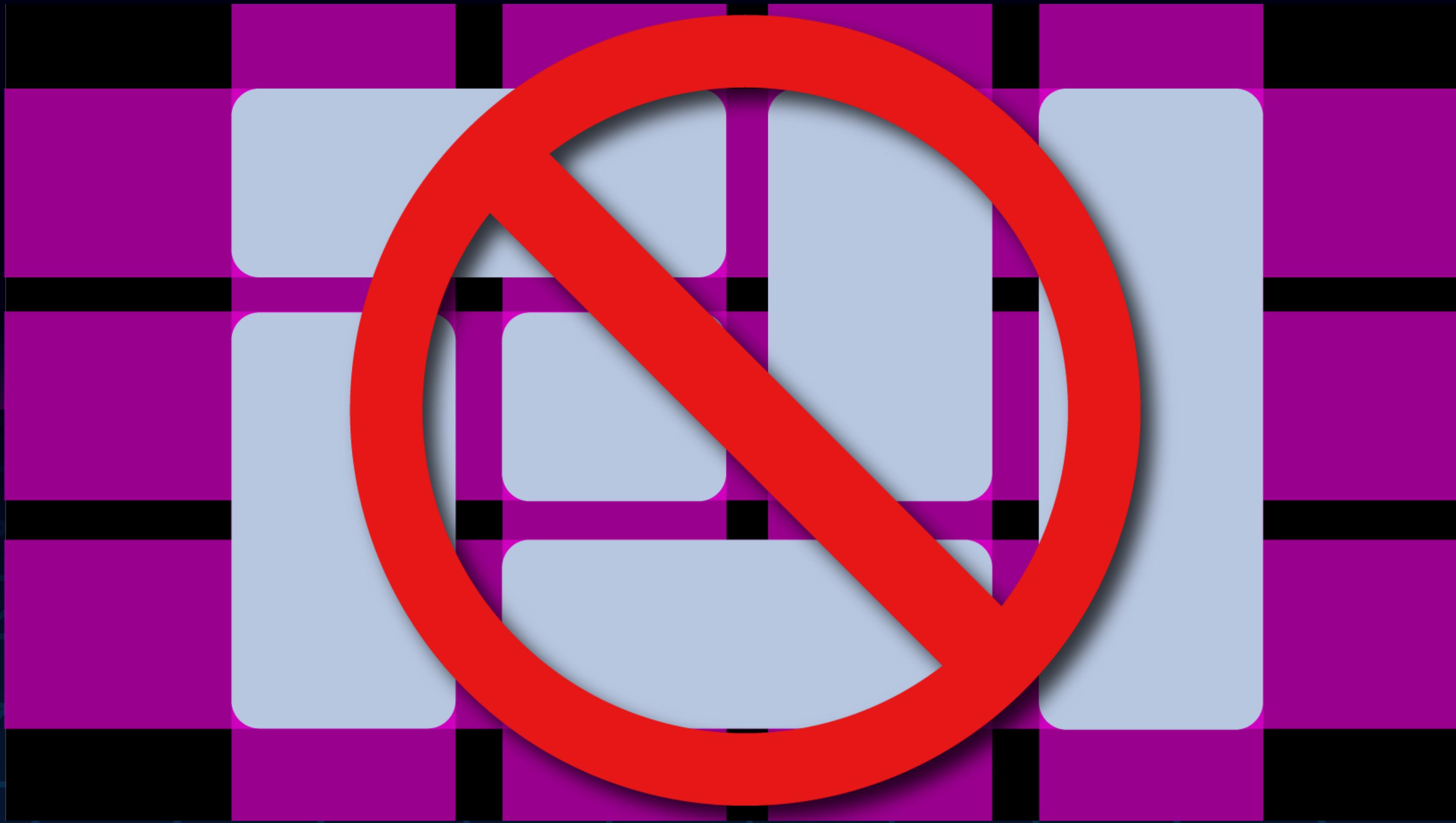
Uh oh.

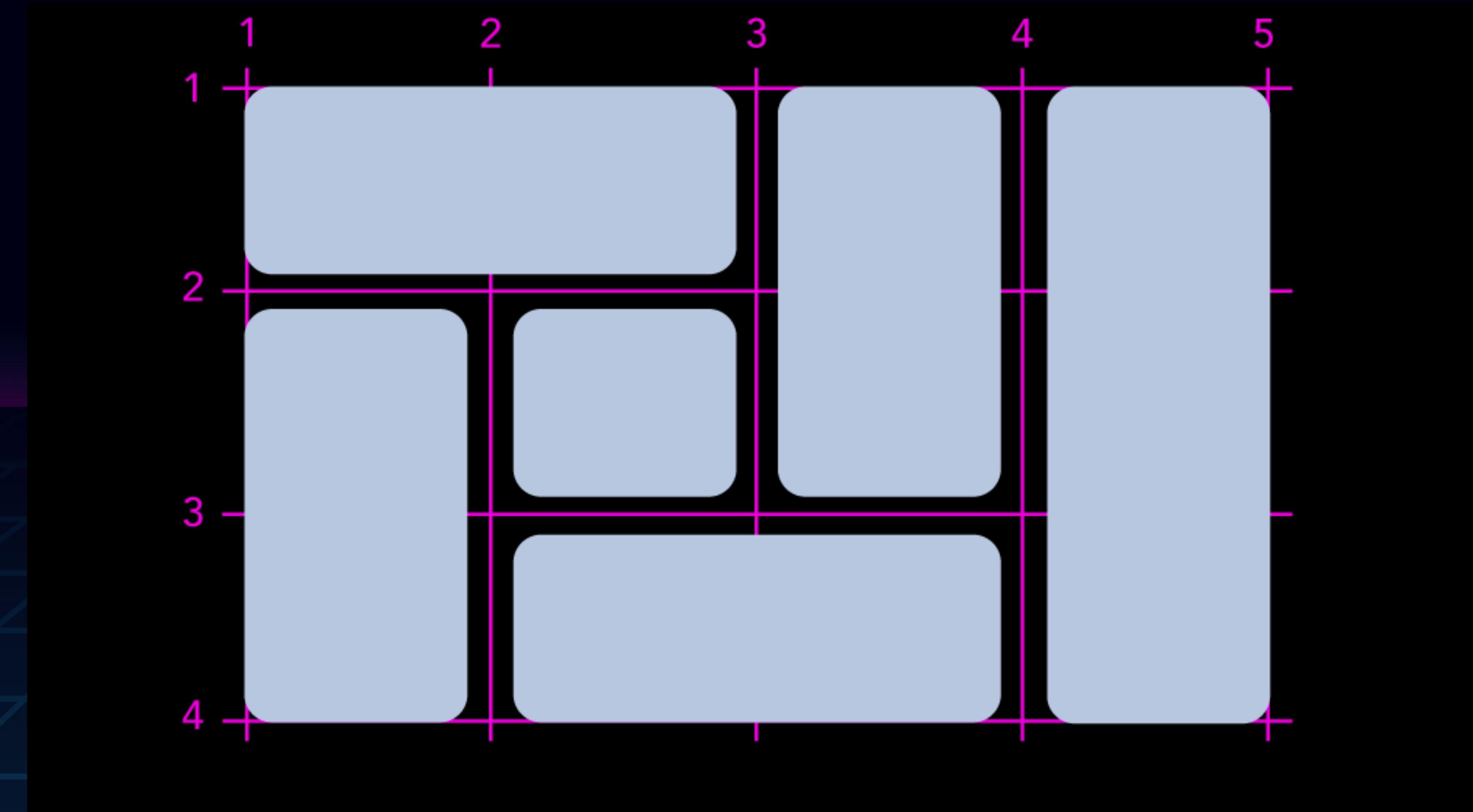


Grid allows you to lay out elements in two directions,
rows & columns





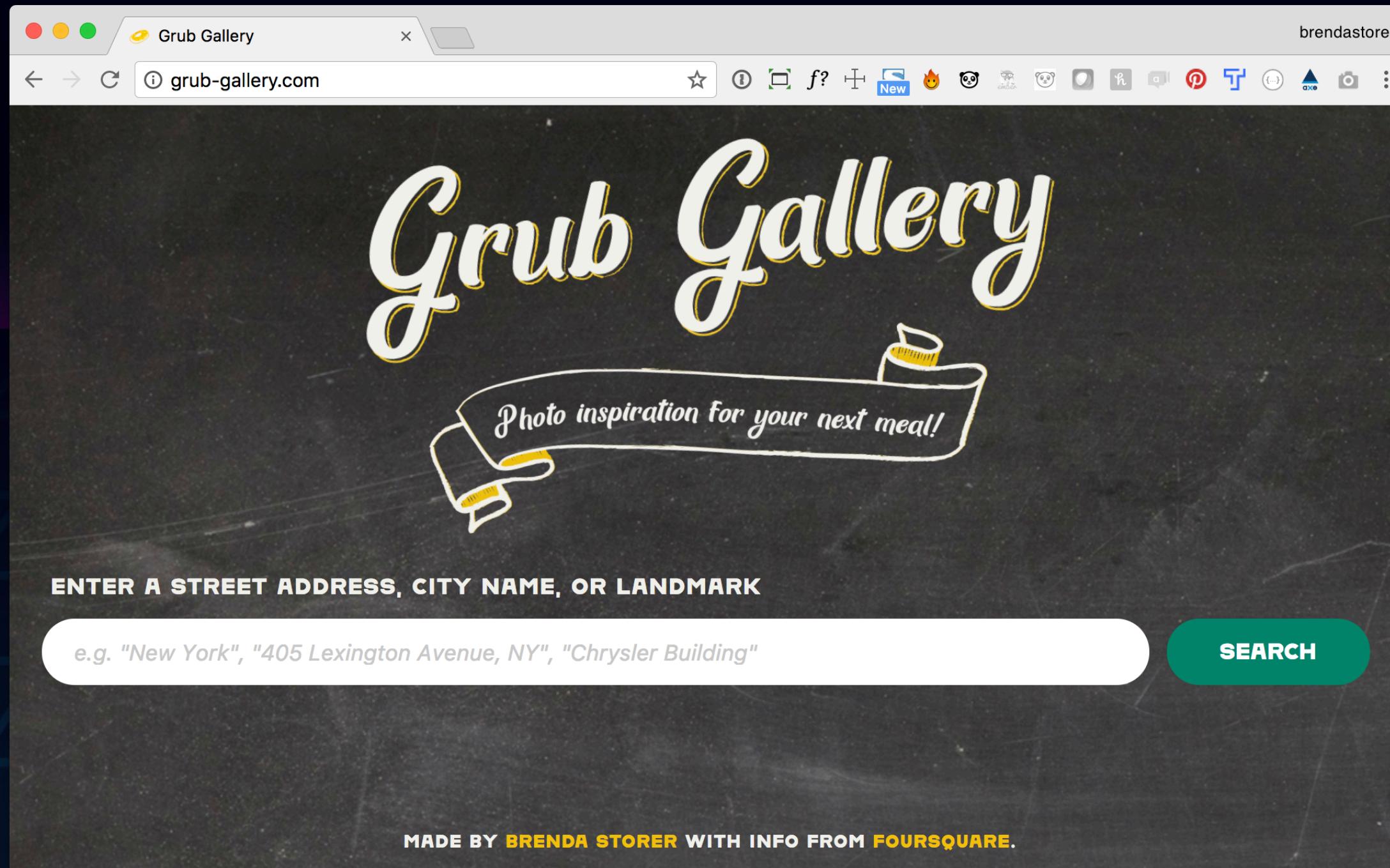




When normally reaching for a layout property like
Flexbox, floats, or positioning,
consider Grid.



A good use case



Firefox Nightly File Edit View History Bookmarks Tools Window Help

Thu 8:16 AM

Grub Gallery

grub-gallery.com

Grub Gallery

Photo inspiration for your next meal!

ENTER A STREET ADDRESS, CITY NAME, OR LANDMARK

e.g. "New York", "405 Lexington Avenue, NY", "Chrysler Building"

SEARCH

MADE BY BRENDA STORER WITH INFO FROM FOURSQUARE.

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



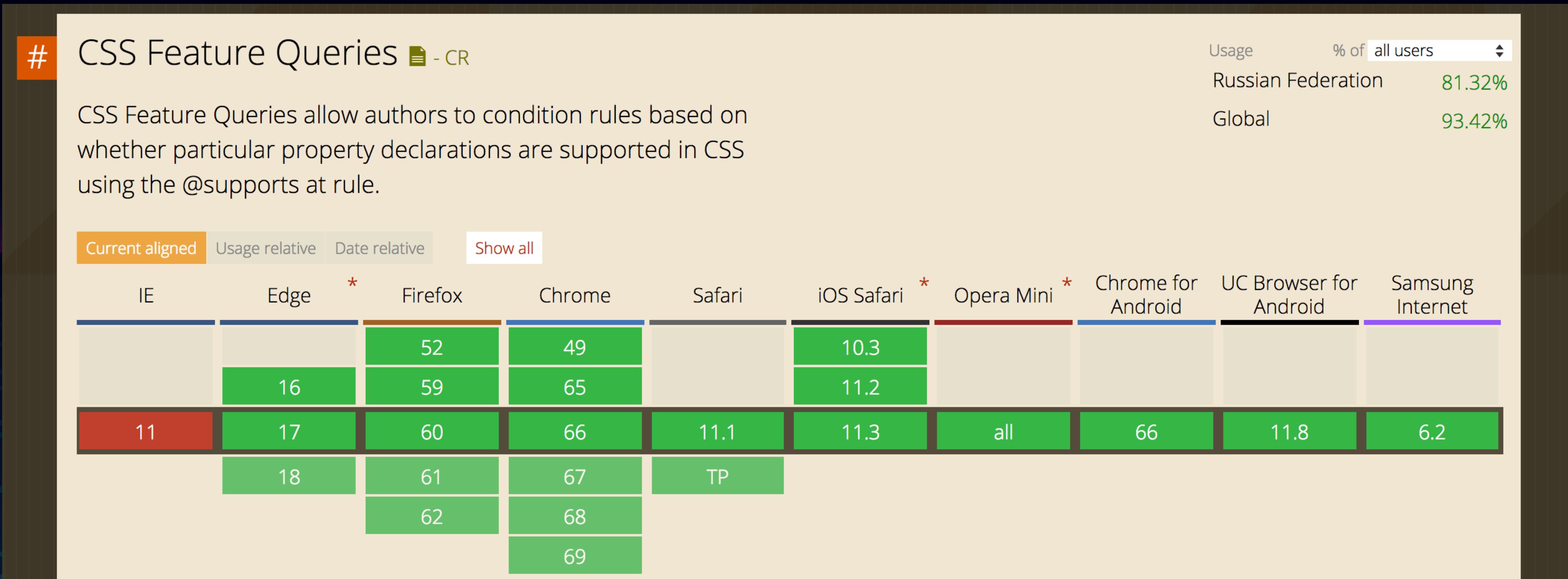
```
.search-results {  
    display: grid;  
    grid-gap: 10px;  
    grid-template-columns: repeat(auto-fit, minmax(320px, 1fr));  
    padding: 10px;  
}
```

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);  
    }  
}
```

```
.search-results {  
    display: flex;  
    flex-wrap: wrap;  
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}  
  
@supports (display: grid) {  
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        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;  
  }  
}
```

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...

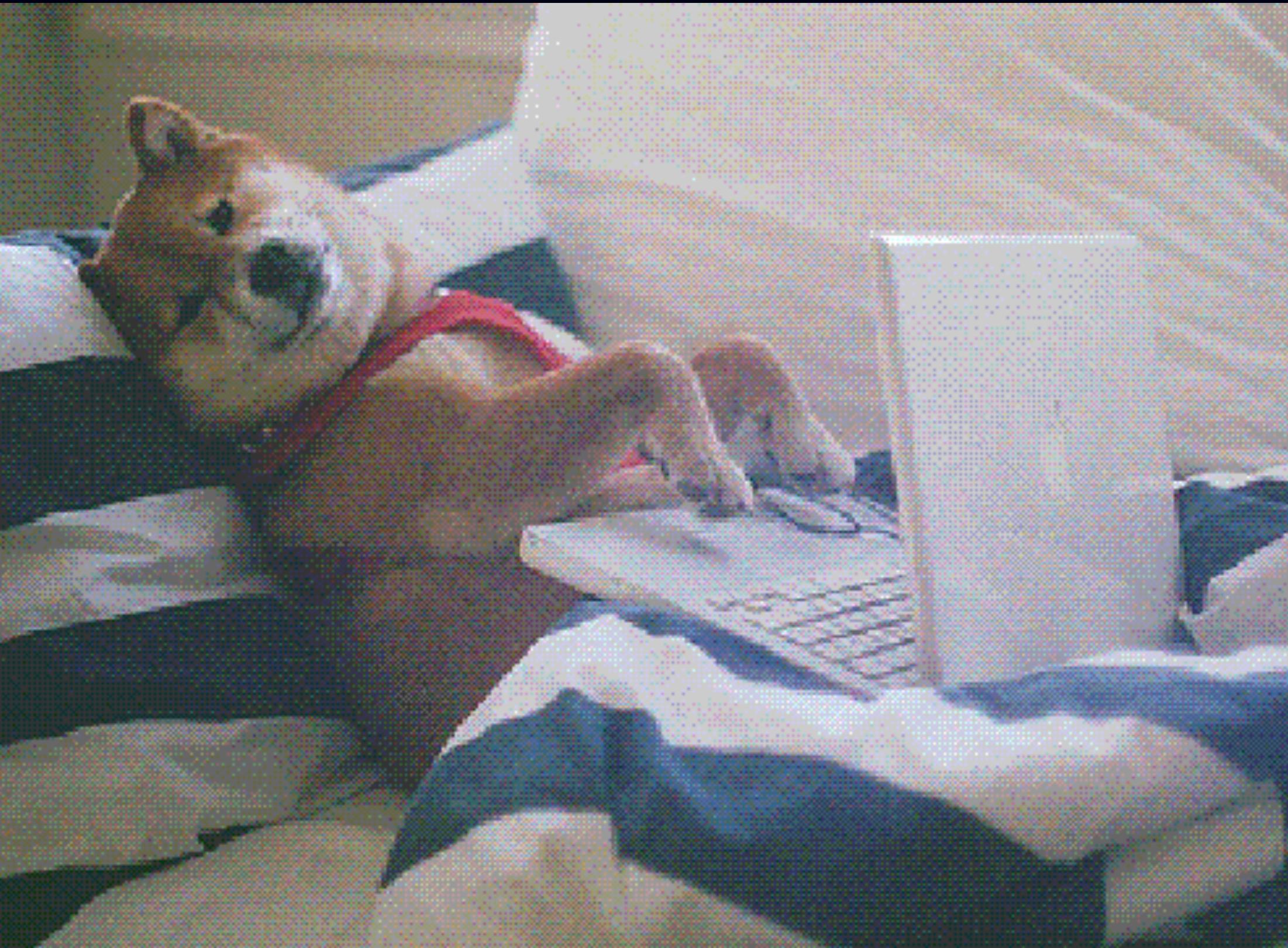
Disable Grid in Autoprefixer

- 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?

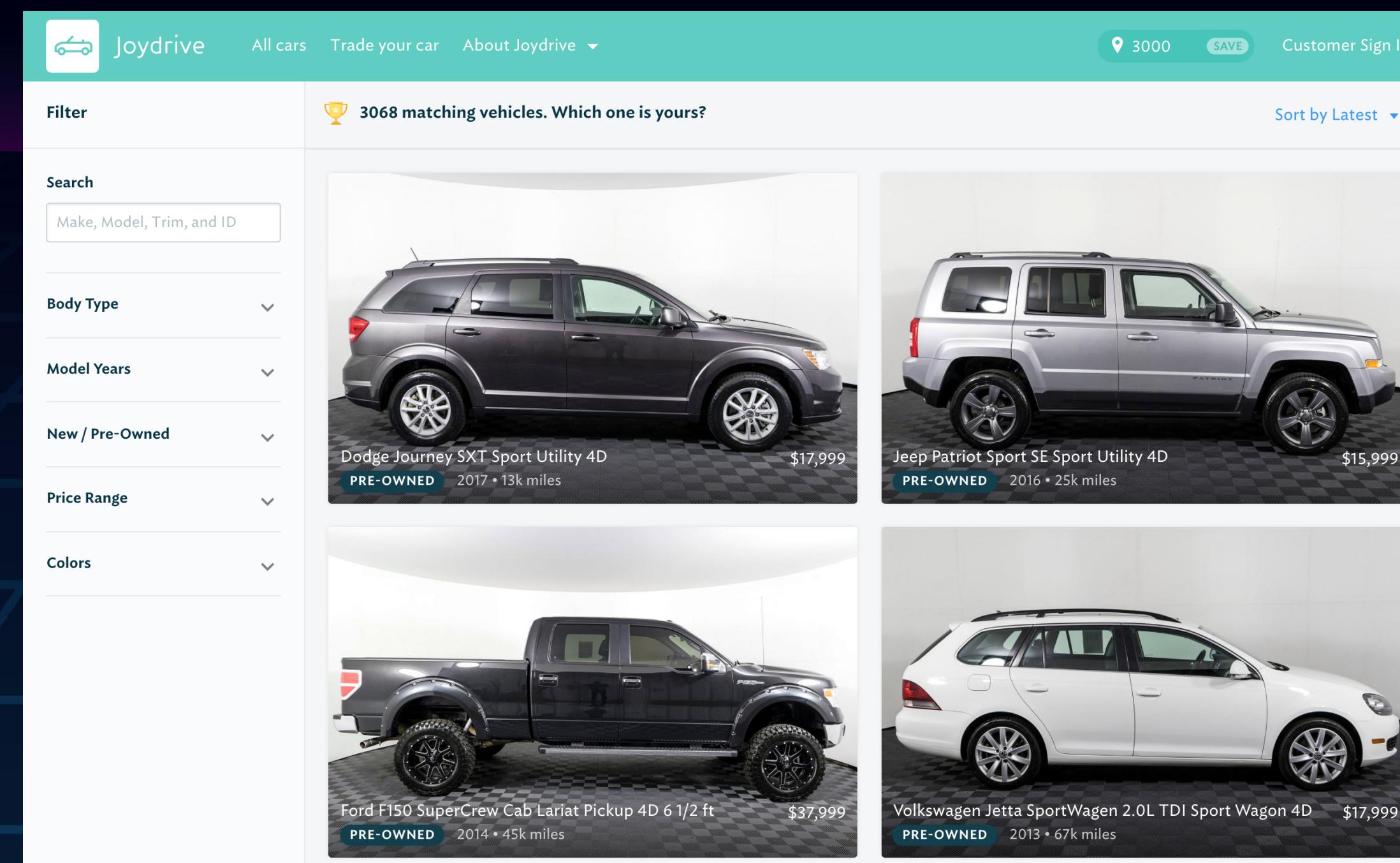
Control placement around unknowns.

Using media queries with grid.

HOTSHOTPD

Beyond media queries

Responsive based on content size
rather than screen size



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 coastal or rural landscape with green fields and hills under a bright sky. The room is furnished with a light-colored sofa, a small round ottoman, and a floor lamp. A large window on the right side has pink curtains. The overall aesthetic is clean and minimalist.

Grid + Navigations = ❤

Products ▾ How it works About

LOLA

LOG IN • BUY NOW THE BROADCAST

Build your subscription

The screenshot shows a website for LOLA products. At the top, there's a navigation bar with links for 'Products ▾', 'How it works', and 'About'. The main heading is 'LOLA' with a small icon to its right labeled 'THE BROADCAST'. Below the heading, there's a section titled 'Build your subscription' featuring a grid of four product categories. Each category includes an image of the product packaging, a title, a brief description, a price starting point, and a 'SHOP NOW' button.

| Product Type | Description | Starting Price | Action |
|------------------------------------|---|--------------------|--------------------------|
| Compact plastic applicator tampons | 18 Count – Choose your mix of 100% organic cotton tampons from light to super+. | Starting at \$10 – | SHOP NOW |
| Non-applicator tampons | 18 Count – Choose your mix of 100% organic cotton tampons from regular to super+. | Starting at \$9 – | SHOP NOW |
| Cardboard applicator tampons | 18 Count – Choose your mix of 100% organic cotton tampons in regular and super. | Starting at \$8 – | SHOP NOW |
| Ultra thin pads w/ wings | 12 Count – Choose your mix of ultra thin pads made with 100% organic cotton. | Starting at \$9 – | SHOP NOW |

RESOURCES

Layout Land - Jen Simmons

- Basics of CSS Grid: The Big Picture

Labs - Jen Simmons

Grid By Example - Rachel Andrew

- Get Started Guide
- Flexible Sized Grids with auto-fill and minmax

From Bootstrap to CSS Grid - Natalya Shelburne

- Move Forward without Breaking Anything

Grid + IE

Should I try to use the IE implementation of CSS Grid Layout? — Rachel Andrew

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

Supporting CSS Grid in Internet Explorer How to Make CSS Grid Work in IE in 5 Minutes! — Elad Shechter

Resources from Me

[Codepen Collection of CSS Grid Examples](#)

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

Thank you!

@brendamarienyc

<http://brendastorer.com>

<http://brendastorer.com/presentations/2018-10-AsburyAgile.pdf>