



You might not need media queries

How to Use CSS Grid Today

Brenda Storer

@brendamarienyc

PiterCSS – 8 June, 2018

Me

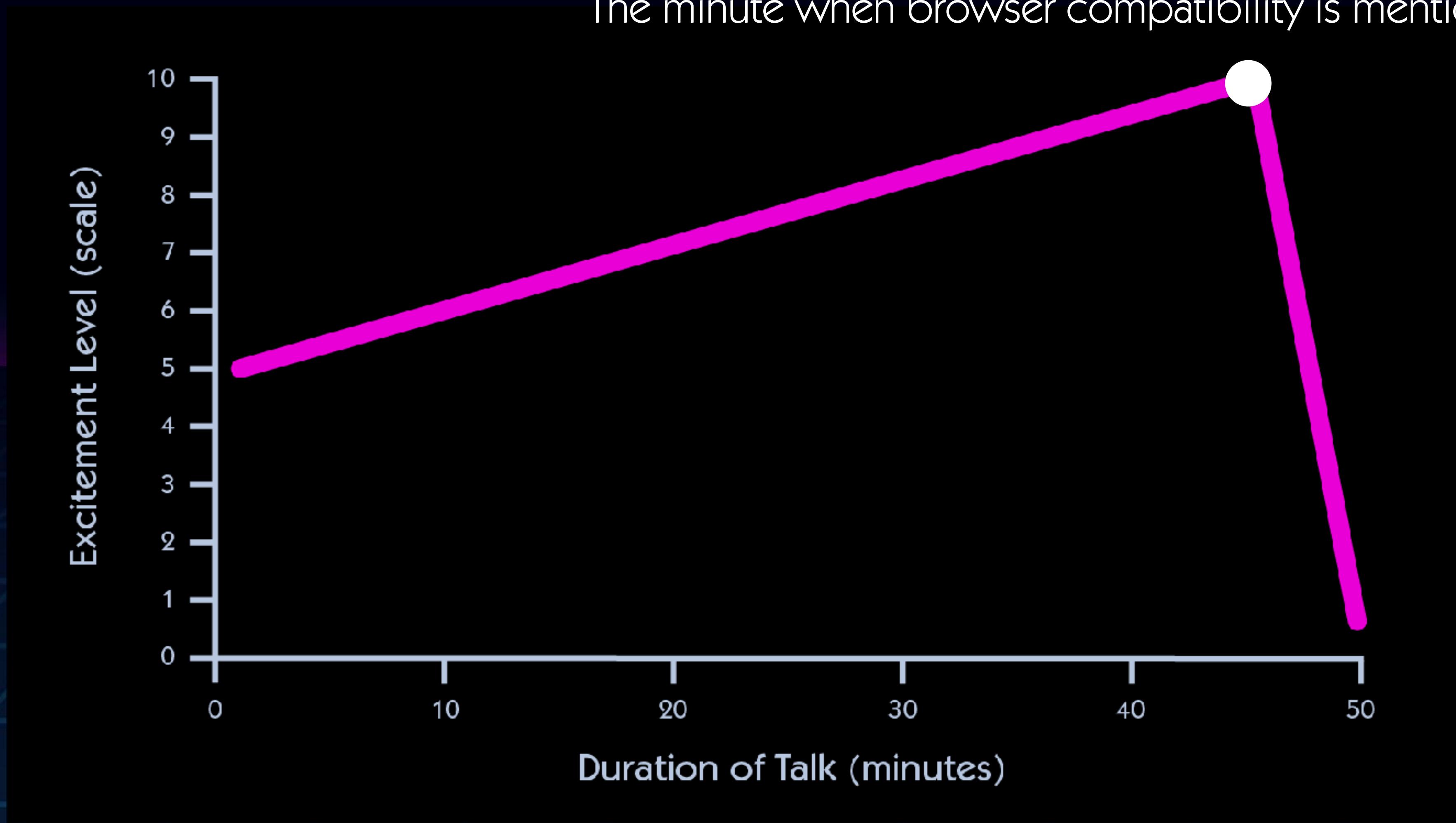
@brendamarienyc

Designer at thoughtbot (Front-End Dev too!)

You?

Emotional Reaction to new CSS Specs

The minute when browser compatibility is mentioned 😢😢😡



Why can't we have nice things? 😭



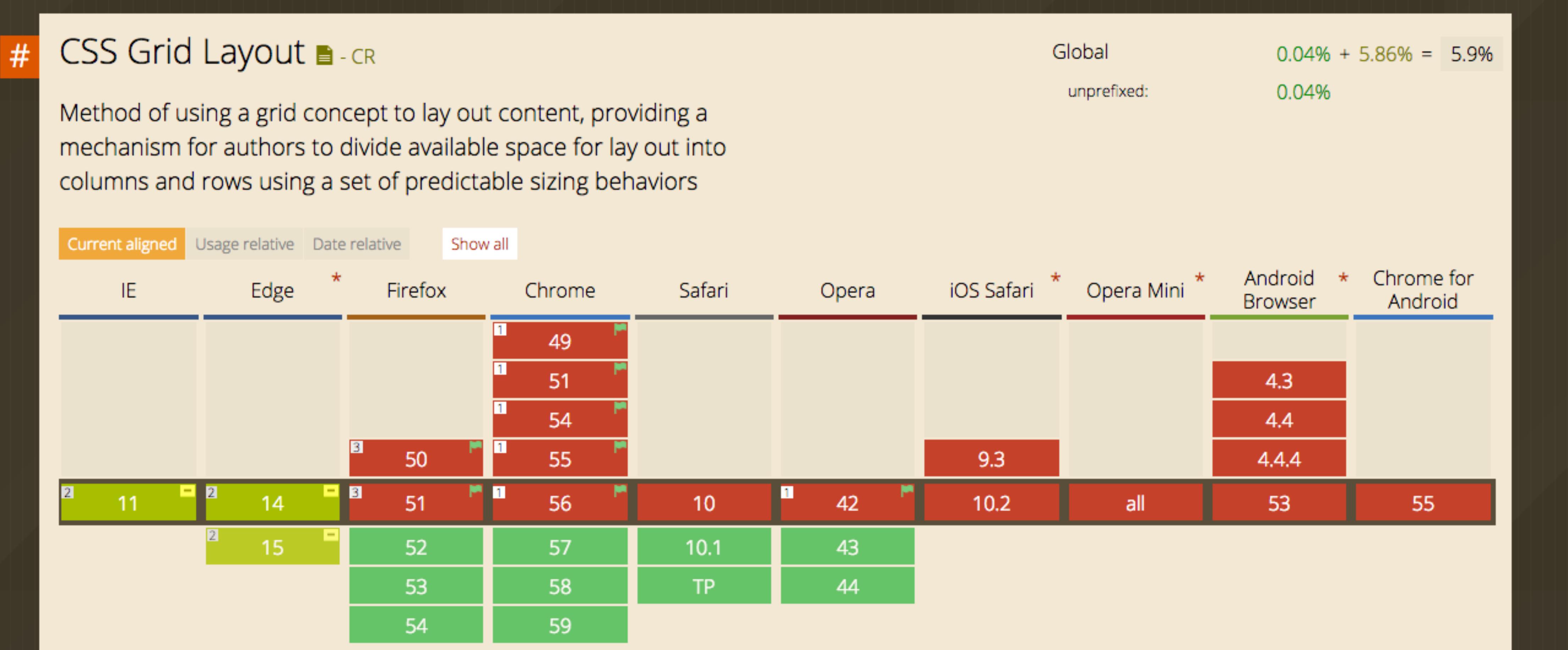
GRID IS NICE

Why?

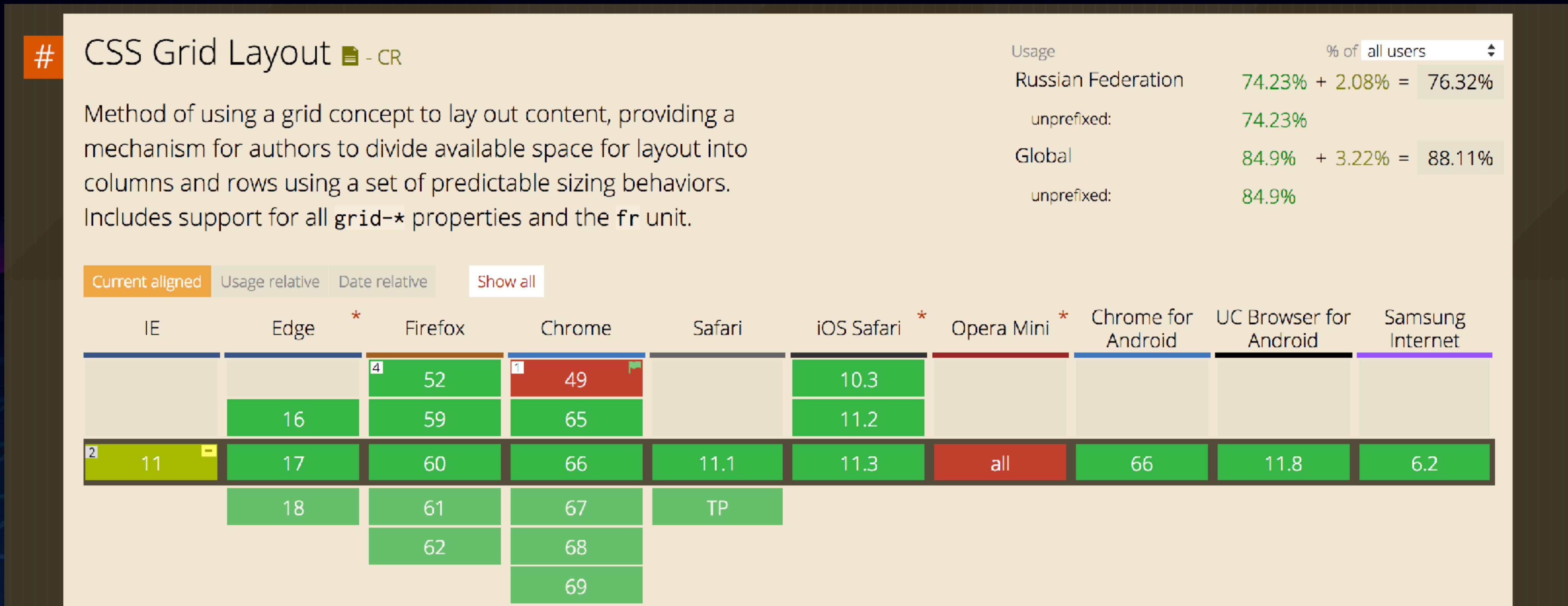
Bye Bye Vendor Prefixes 😱

Hello Feature Flags 🤗

January 27, 2017



Today



...with one exception. IE.

Prefixed version of Grid in IE only

-ms

Early, not fully realized version of Grid

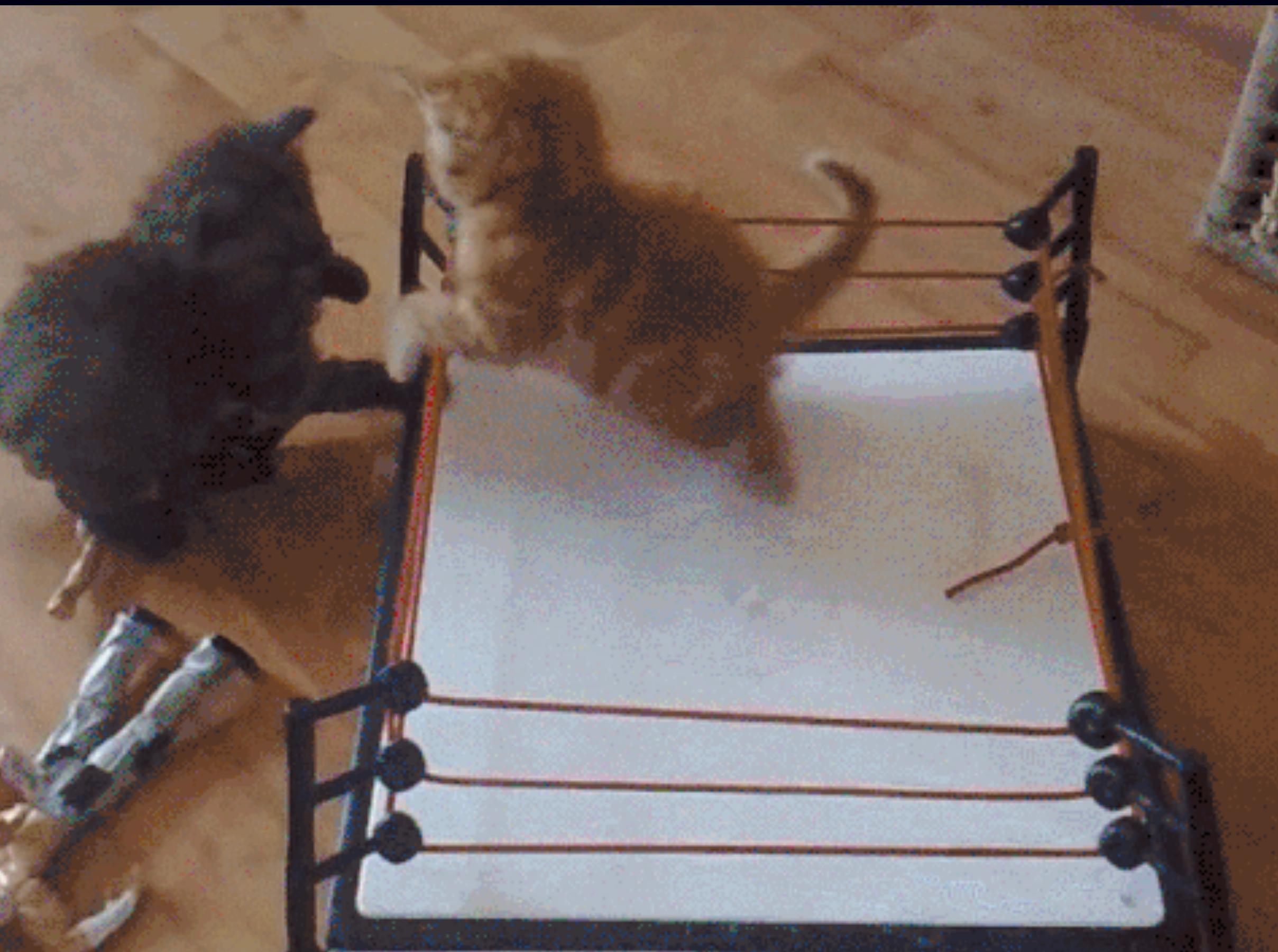


4GIFs
.com

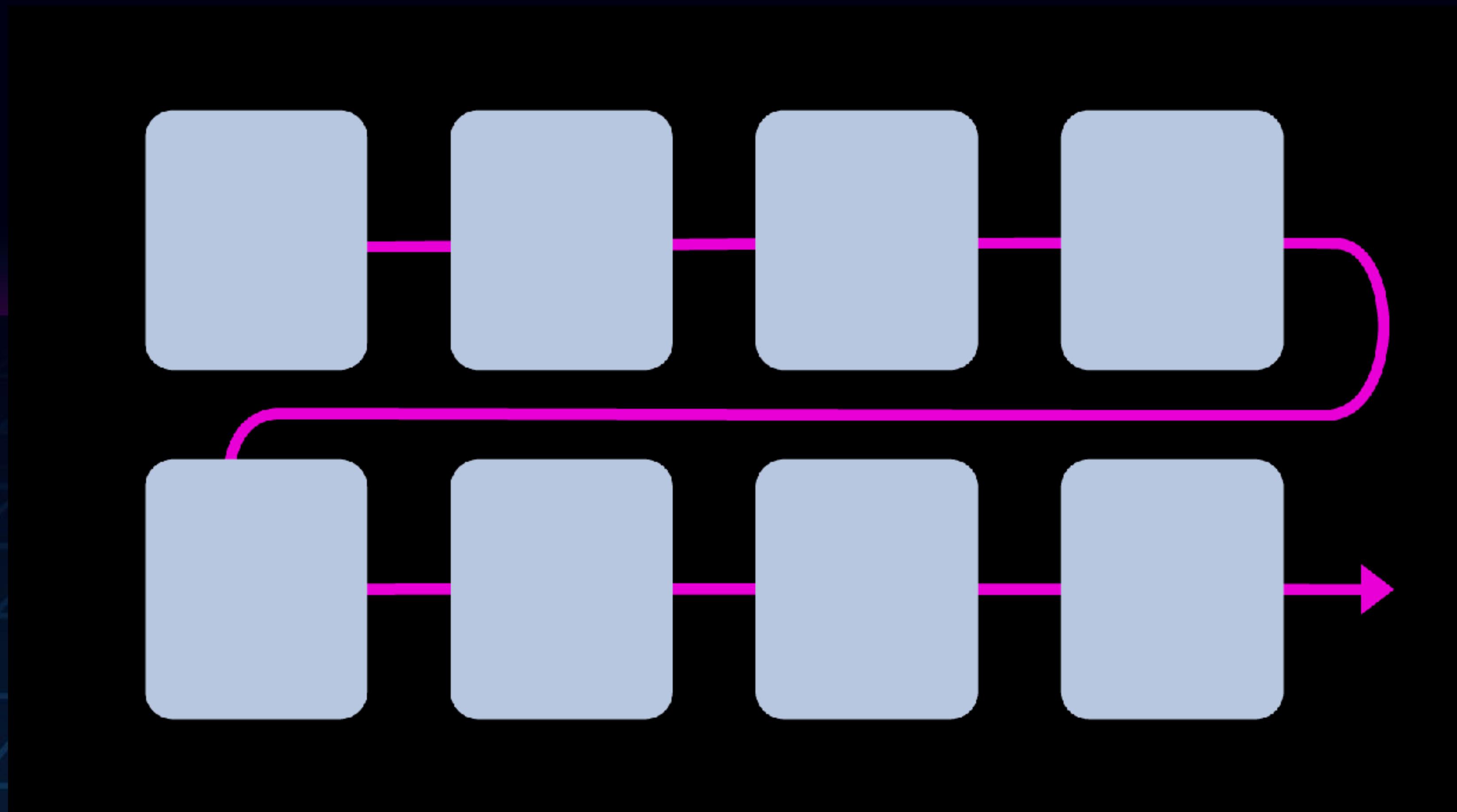
Step by Step Guide to writing CSS Grid

Step 1: Identify a Good Use Case

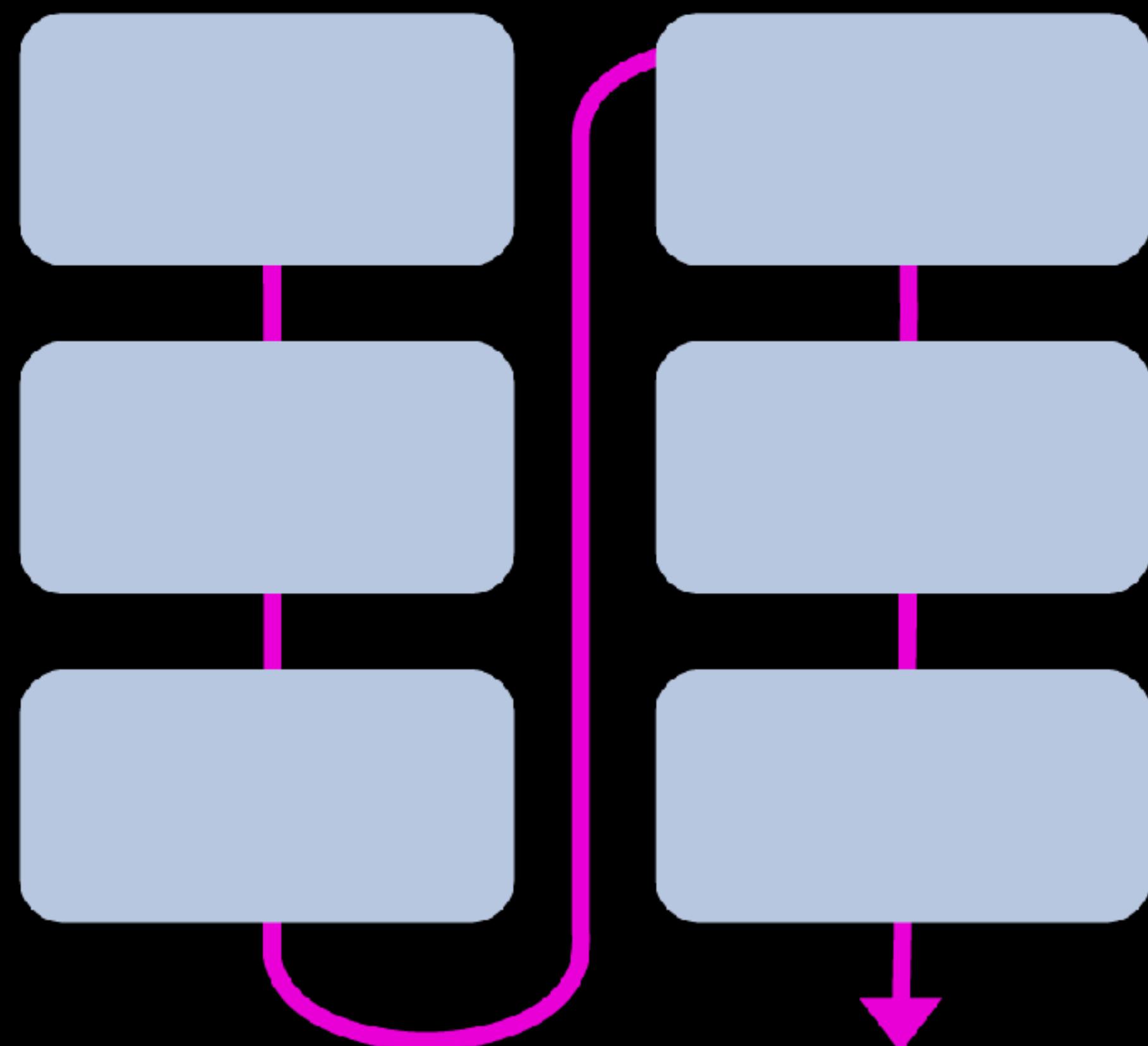
Flexbox vs. Grid



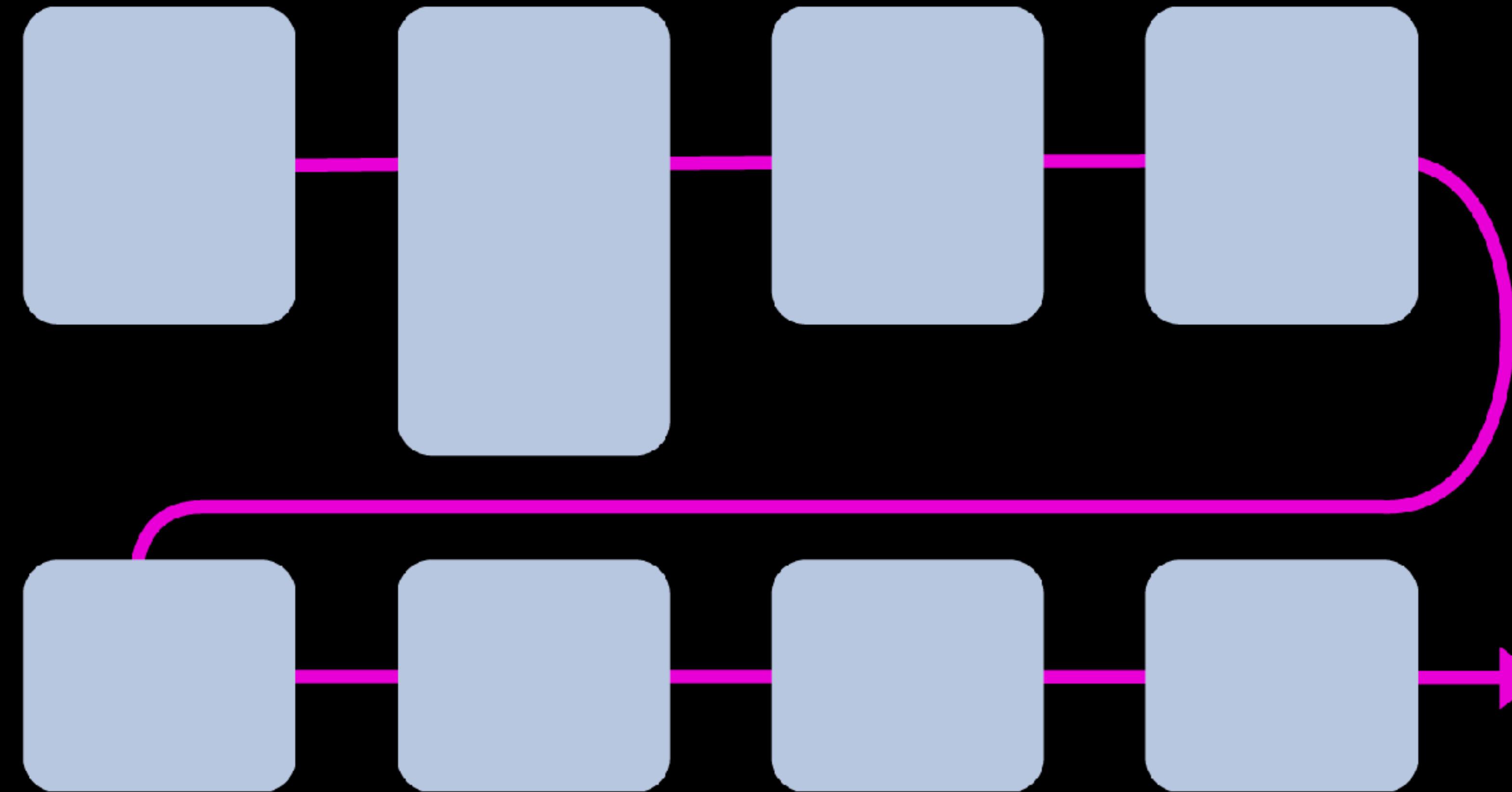
Flexbox is great for laying out items in one direction.
In rows....



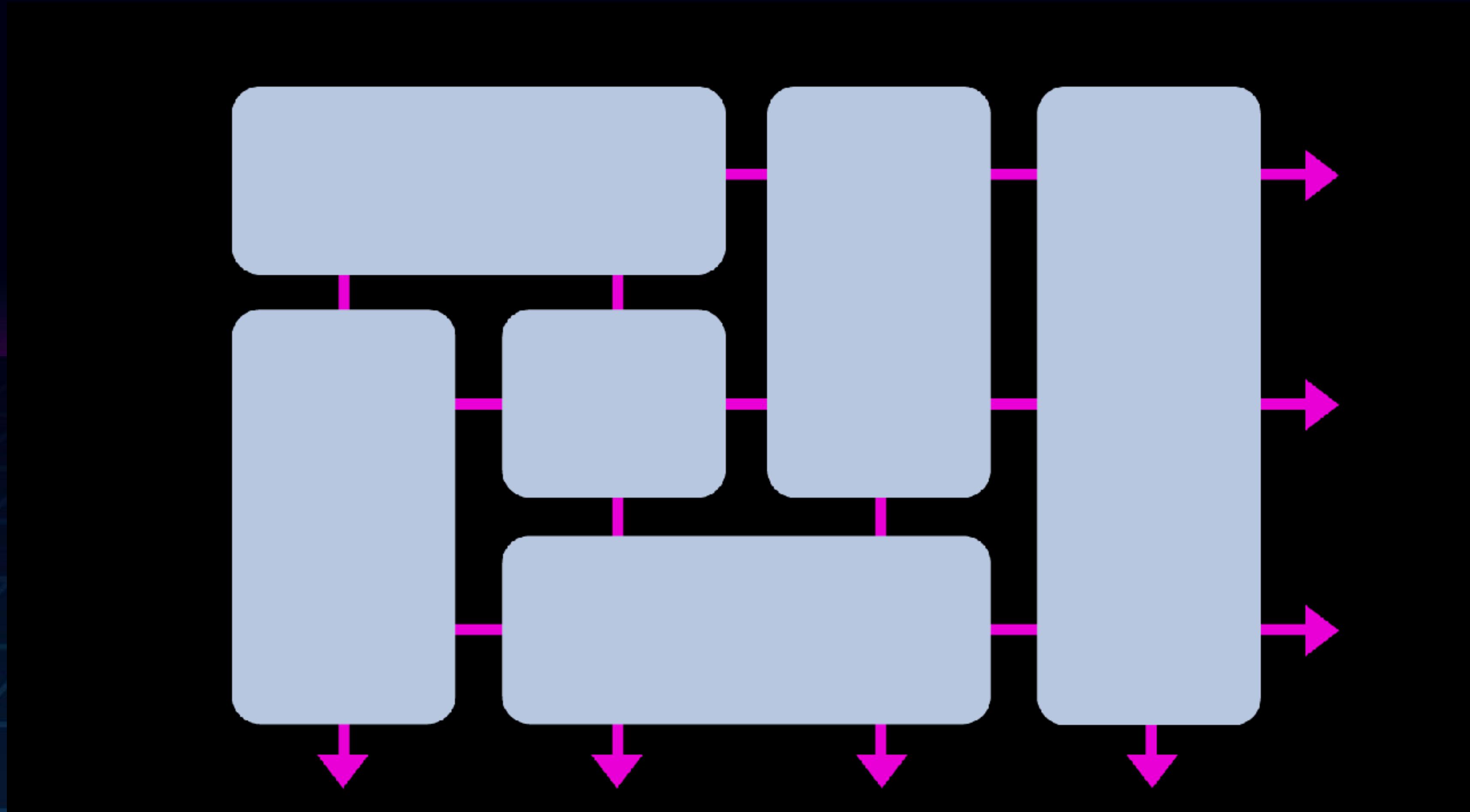
...or columns

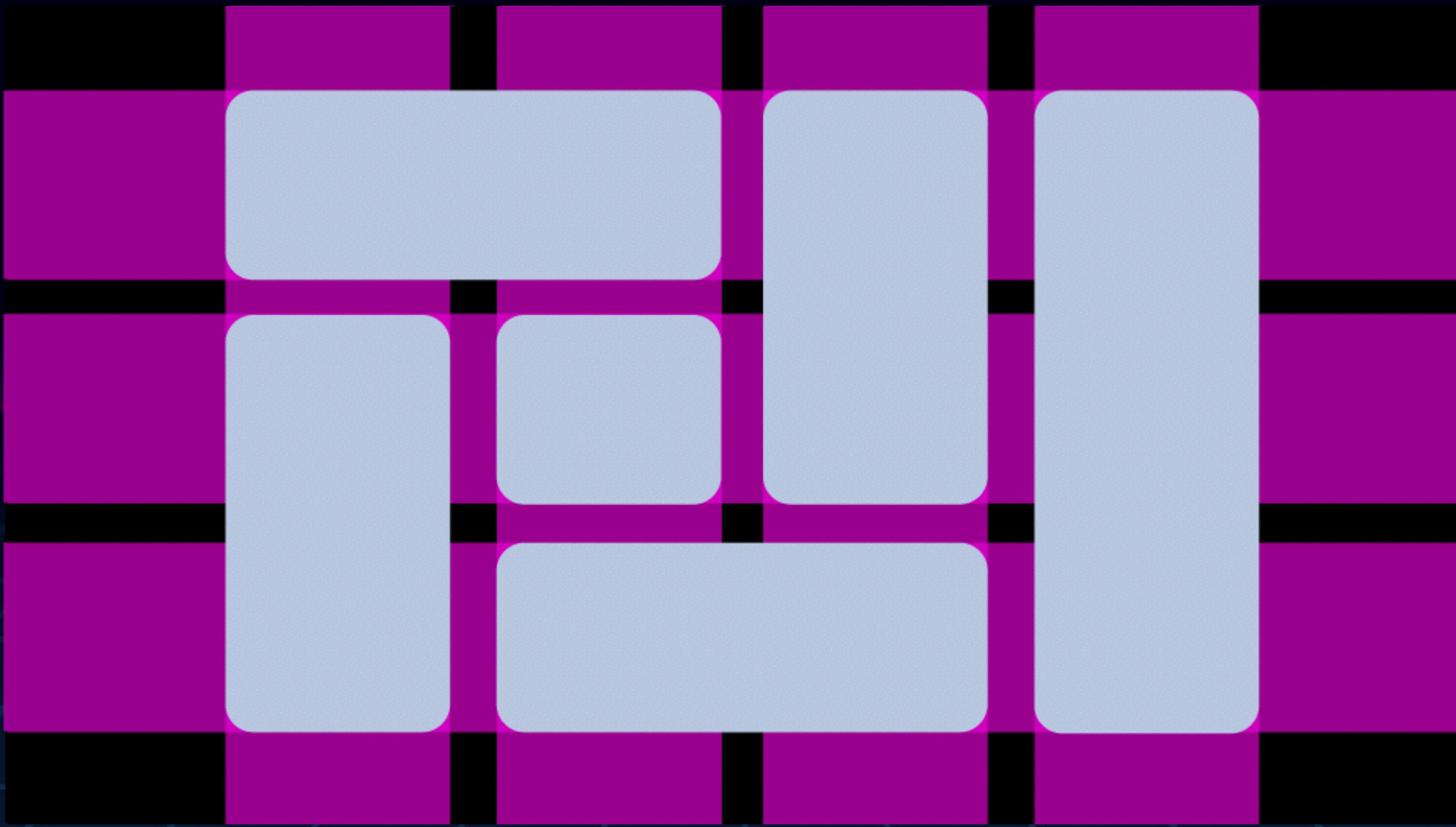


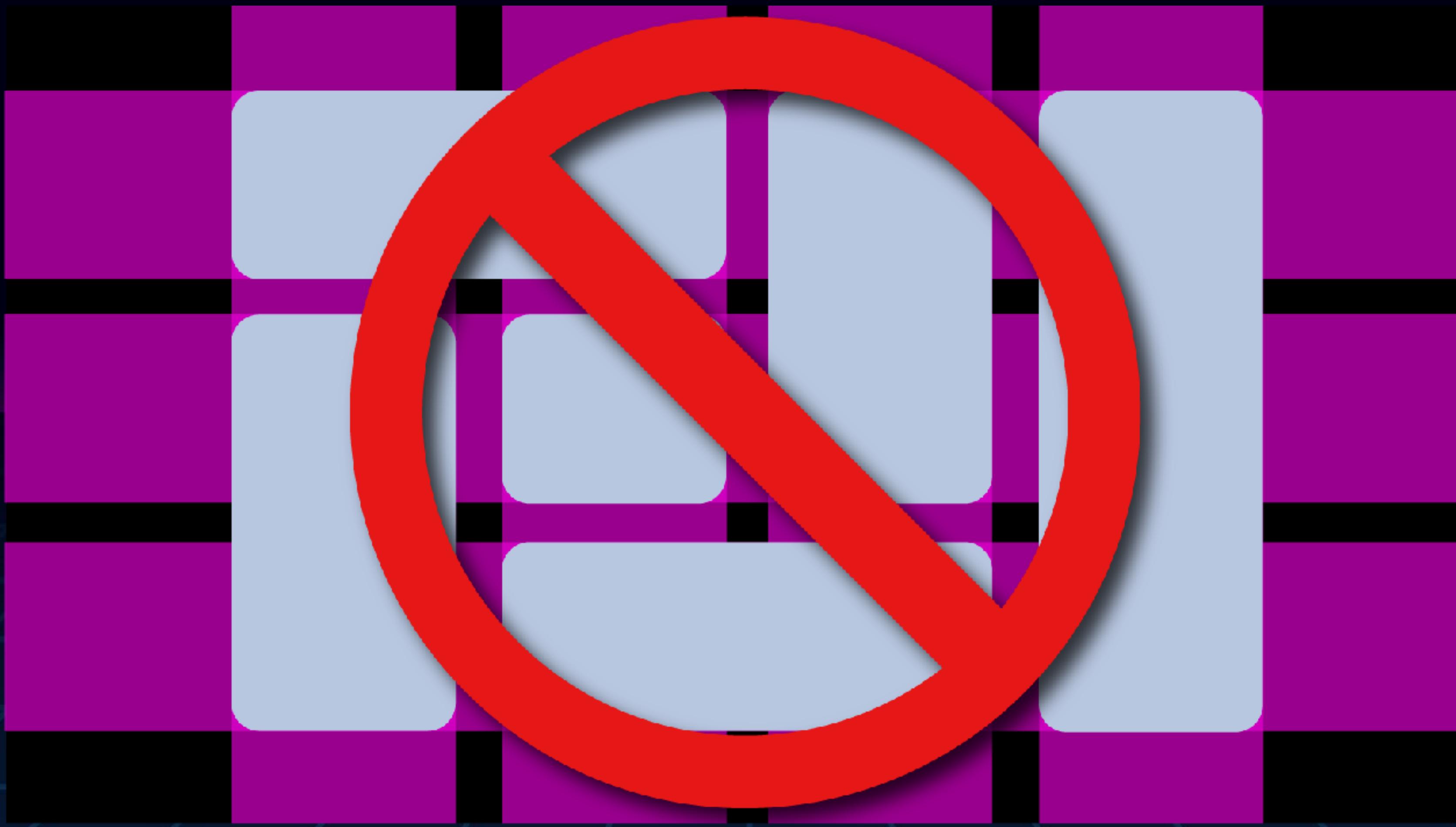
Uh oh.

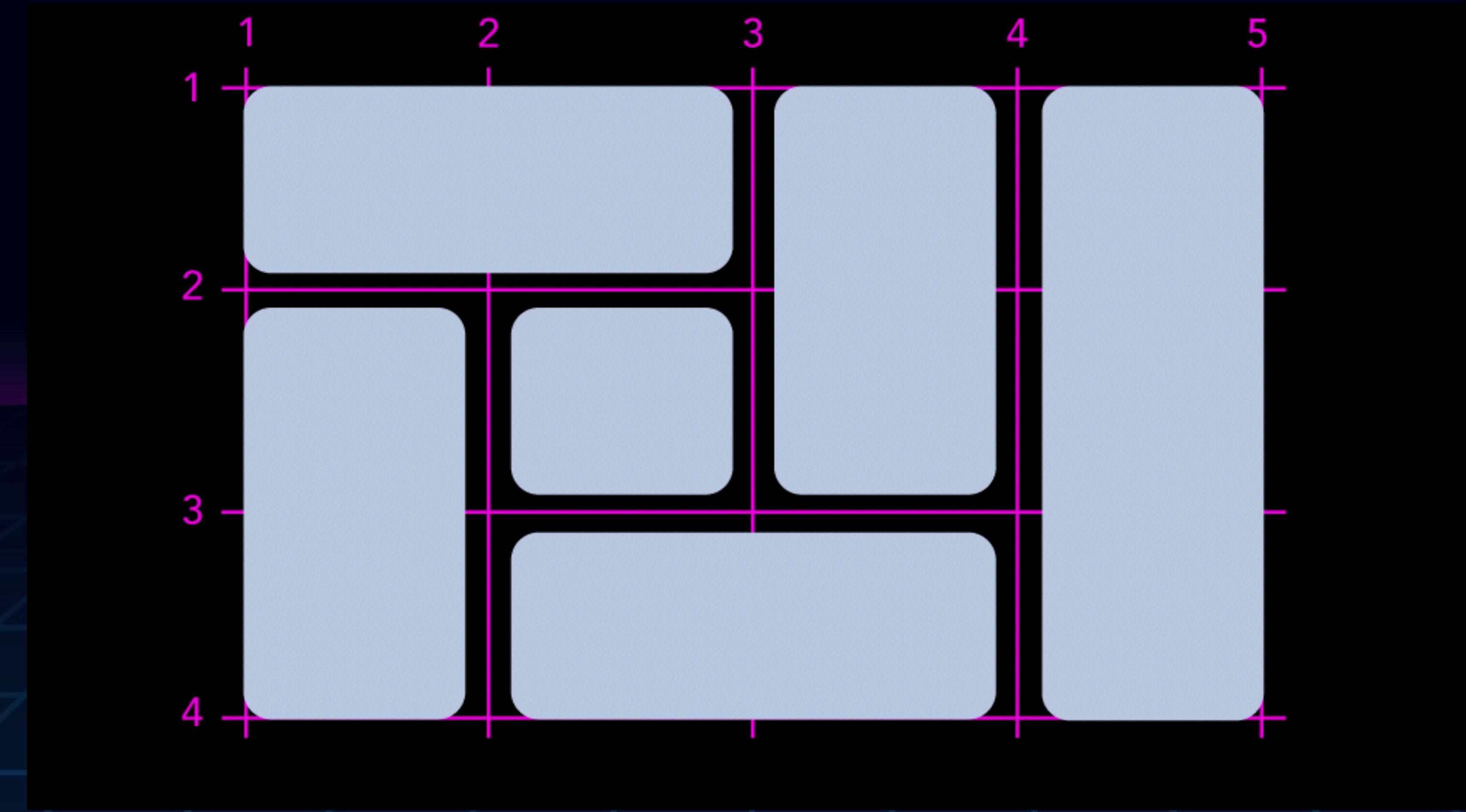


Grid allows you to lay out elements in two directions,
rows & columns









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 {  
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@media only screen and (min-width: 500px) {  
  .search-results__result {  
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  .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  
    }  
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.search-results__result {  
    margin: 5px;  
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@media only screen and (min-width: 500px) {  
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    .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...

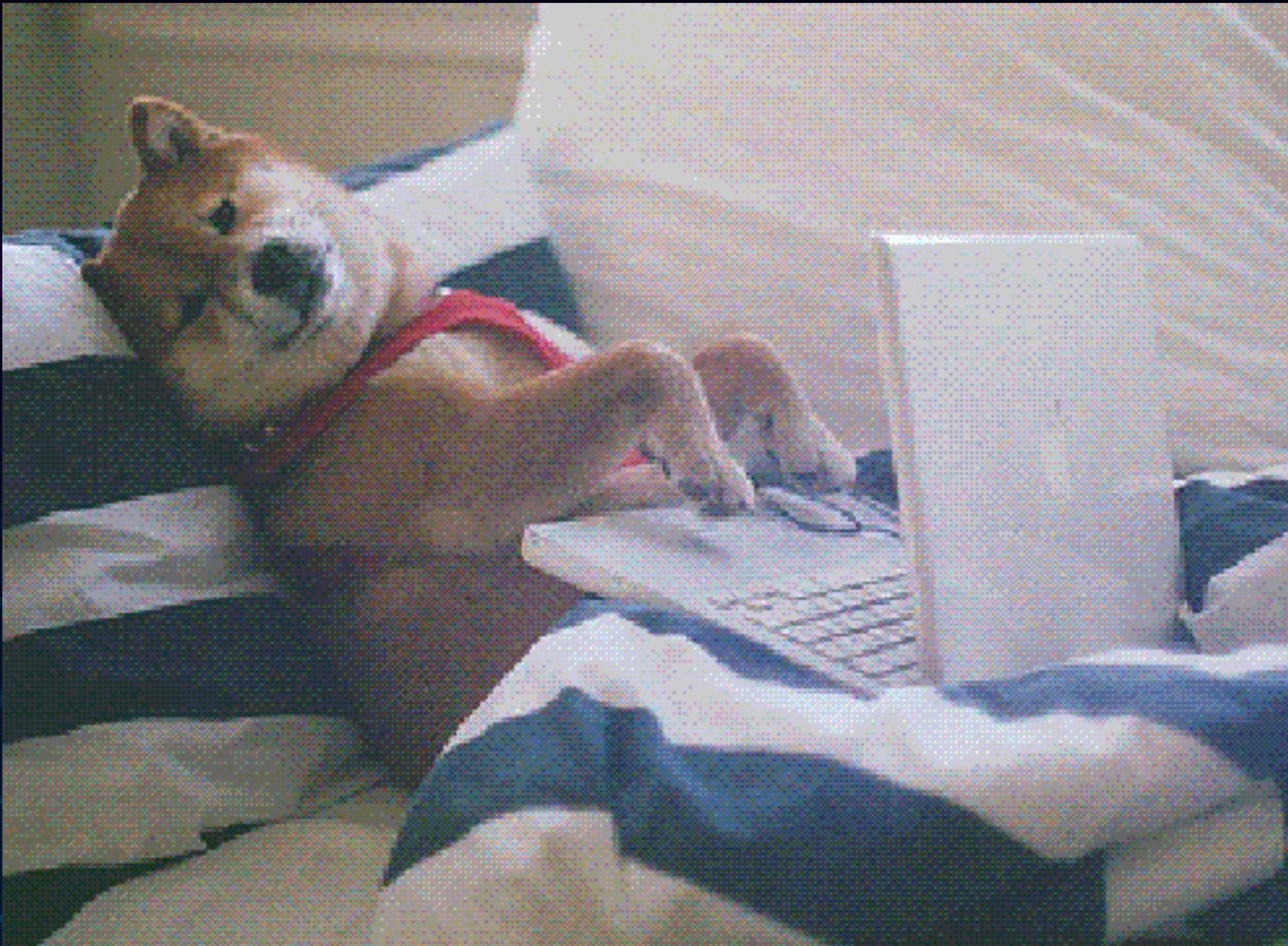
Disable Grid in Autoprefixer

- 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!*

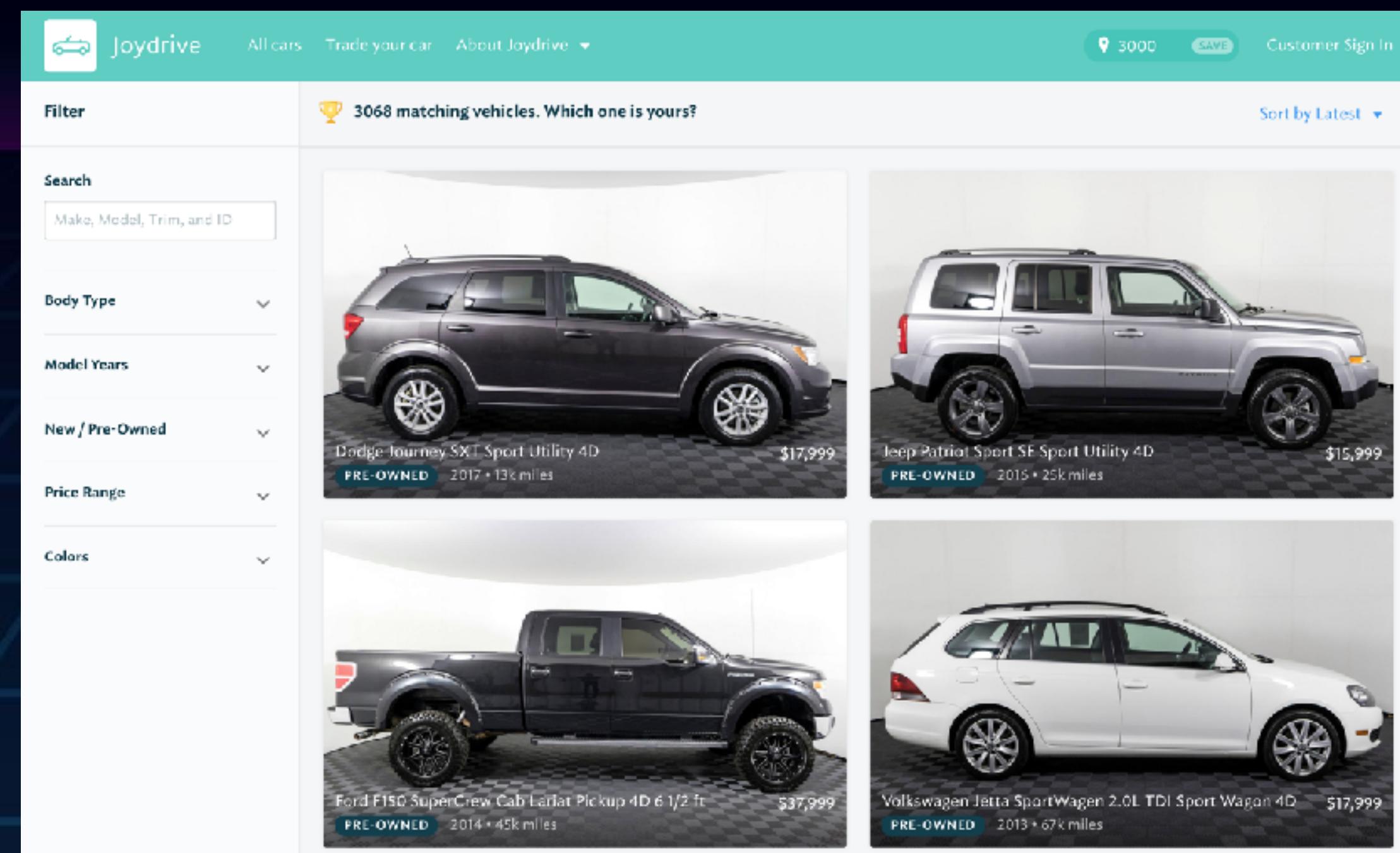
*disclaimer

“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

Beyond media queries

Responsive based on content size
rather than screen size



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

Control placement around unknowns.

Using media queries with grid.

HOTSHOTPD

Graceful Degradation

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



It's a Grid party

Centered logo in header

Using fr units instead of margin auto

The screenshot shows a website for LOLA products. At the top, there is a navigation bar with links for "Products", "How it works", and "About". The central logo is "LOLA" in a bold, black, sans-serif font. To the right of the logo are "LOG IN" and "BUY NOW" buttons, and a small "THE BROADCAST" icon. Below the navigation, the main heading is "Build your subscription". There are four product categories displayed in a grid:

- 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
- The fr unit

From Bootstrap to CSS Grid - Natalya Shelburne

Grid + IE

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

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

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/2018-06-PiterCSS.pdf>