



# GET ON THE GRID

Using CSS Grid in the Real World

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Me

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Help host CSS Layout Club in NYC

You?

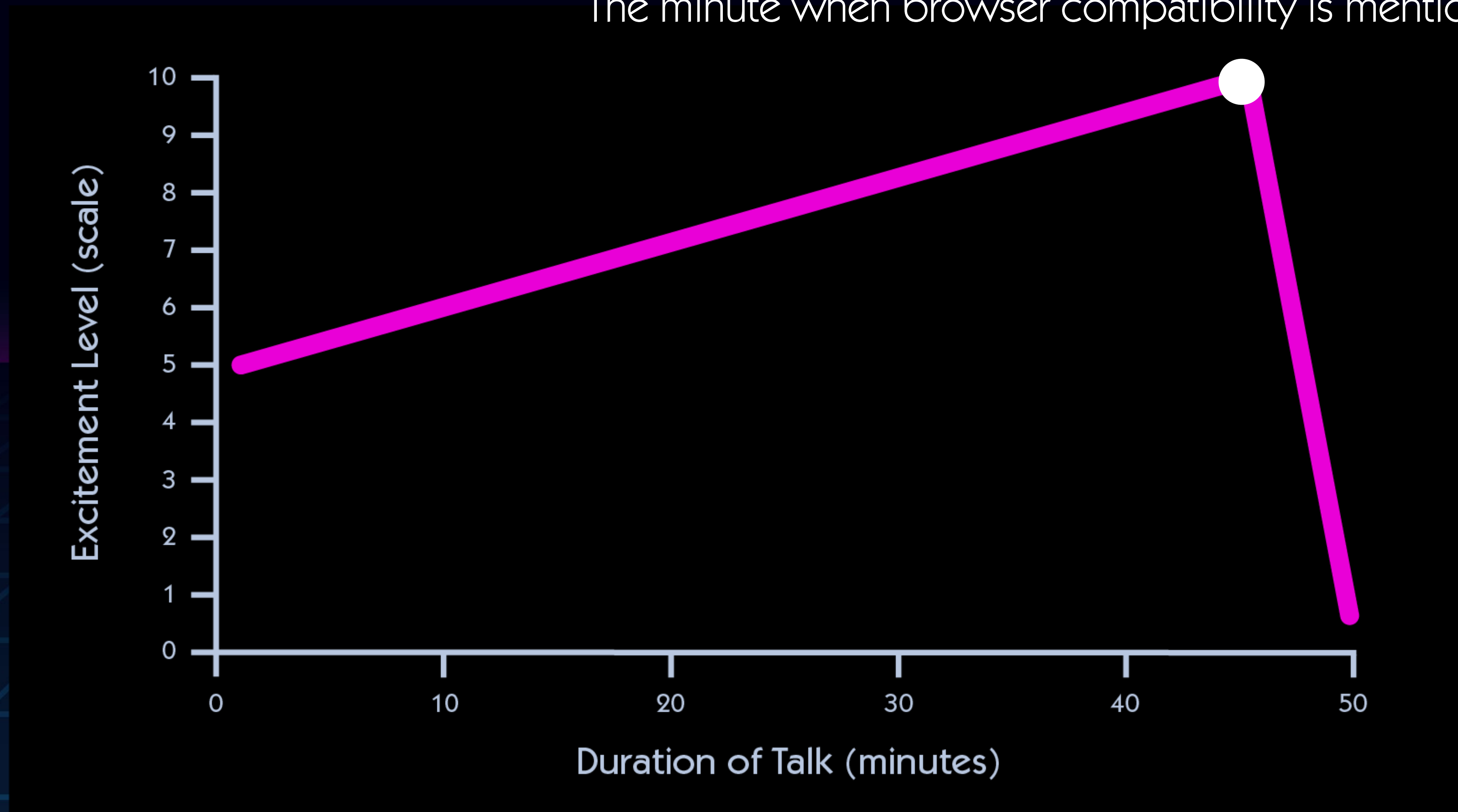
# Grid for the everyday

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? 🥹





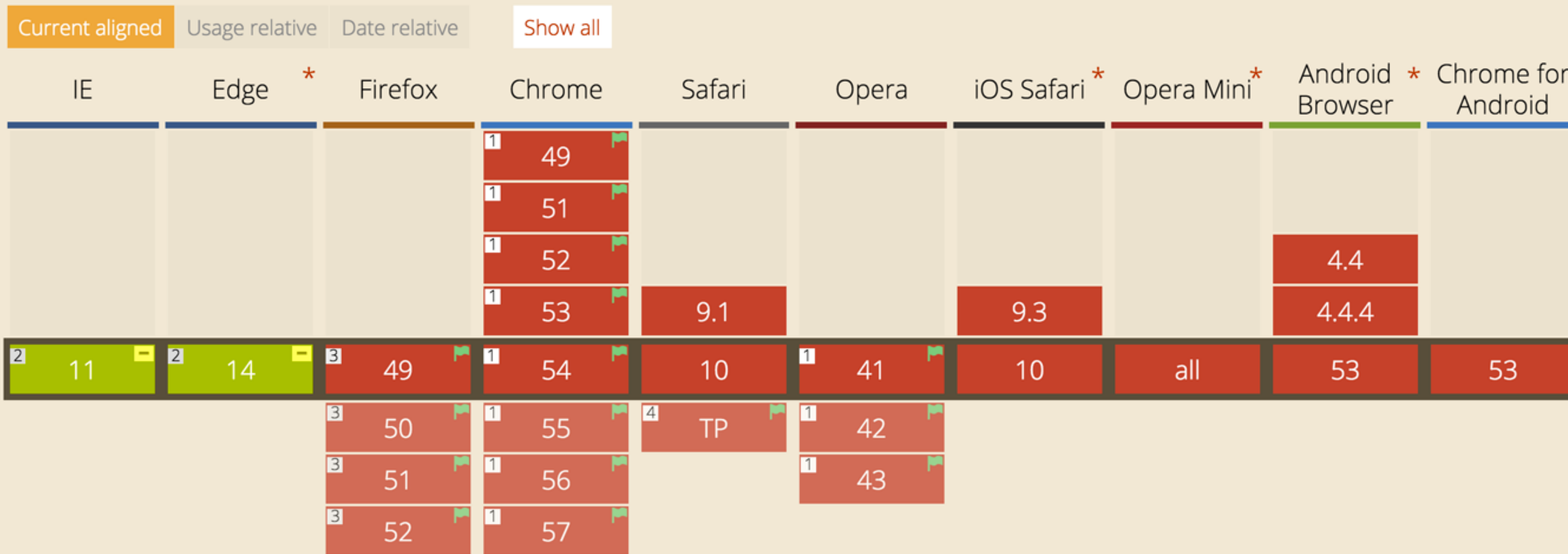
**GRID IS NICE**

# November 17, 2016

## # CSS Grid Layout - CR

Global 0% + 6.16% = 6.16%  
unprefixed: 0%

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





# January 27, 2017

## # CSS Grid Layout - CR

Global 0.04% + 5.86% = 5.9%  
 unprefixed: 0.04%

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

Current aligned Usage relative Date relative Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			1 49						
			1 51					4.3	
			1 54					4.4	
		3 50	1 55			9.3		4.4.4	
2 11	2 14	3 51	1 56	10	1 42	10.2	all	53	55
	2 15	52	57	10.1	43				
		53	58	TP	44				
		54	59						

# 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

Global 69.53% + 5.62% = 75.15%  
 unprefixed: 69.53%  
 U.S.A. 75.19% + 9.05% = 84.24%  
 unprefixed: 75.19%

Current aligned Usage relative Date relative Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			1 49			10.2			
		55	60	10.1		10.3		4.4	
2 11	2 15	56	61	11	47	11	all	56	61
	16	57	62	TP	48				
		58	63		49				
		59	64						





# 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

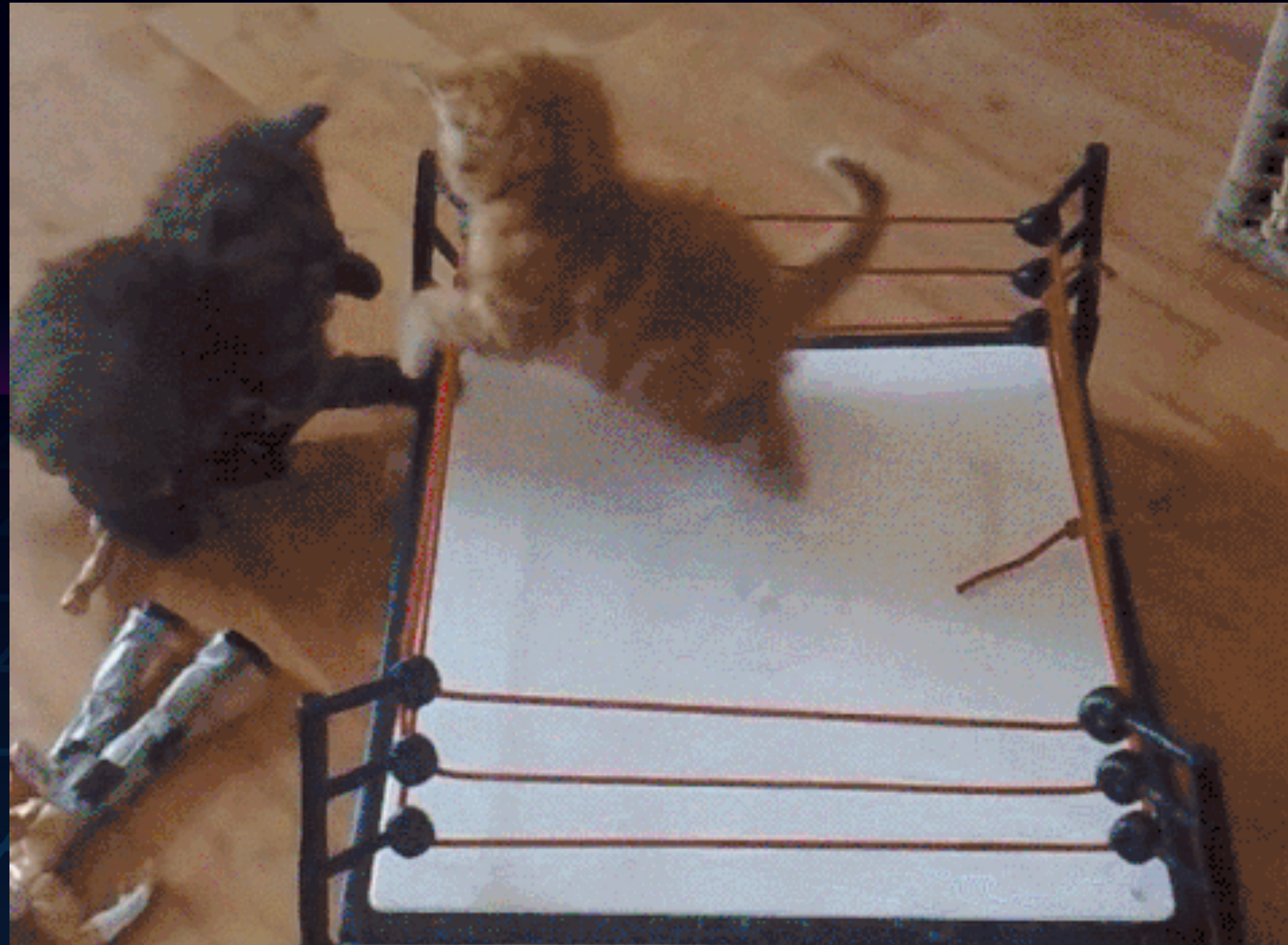
## Basics of CSS Grid: The Big Picture

Step 1:

Identify a Good Use Case

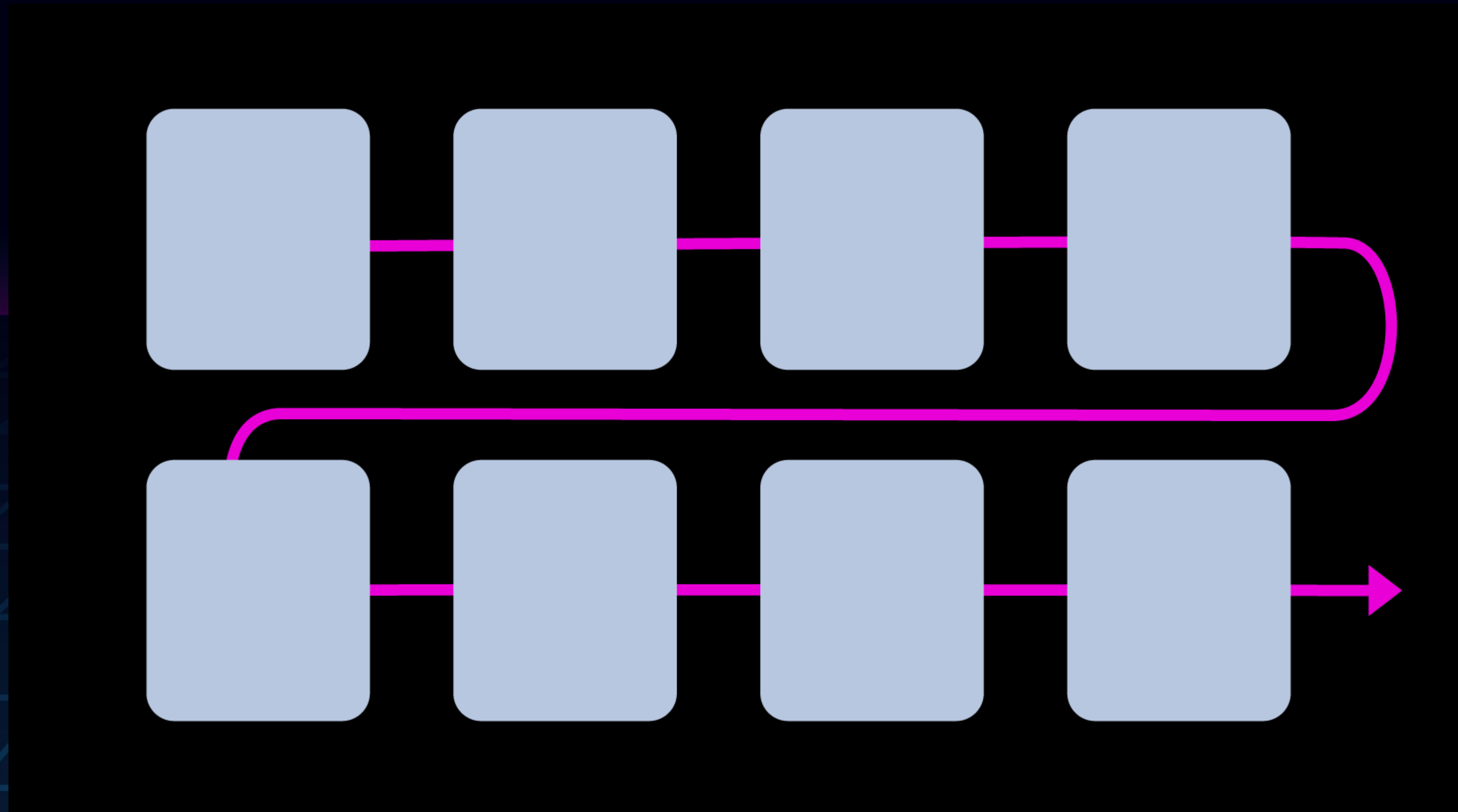


# Flexbox vs. Grid



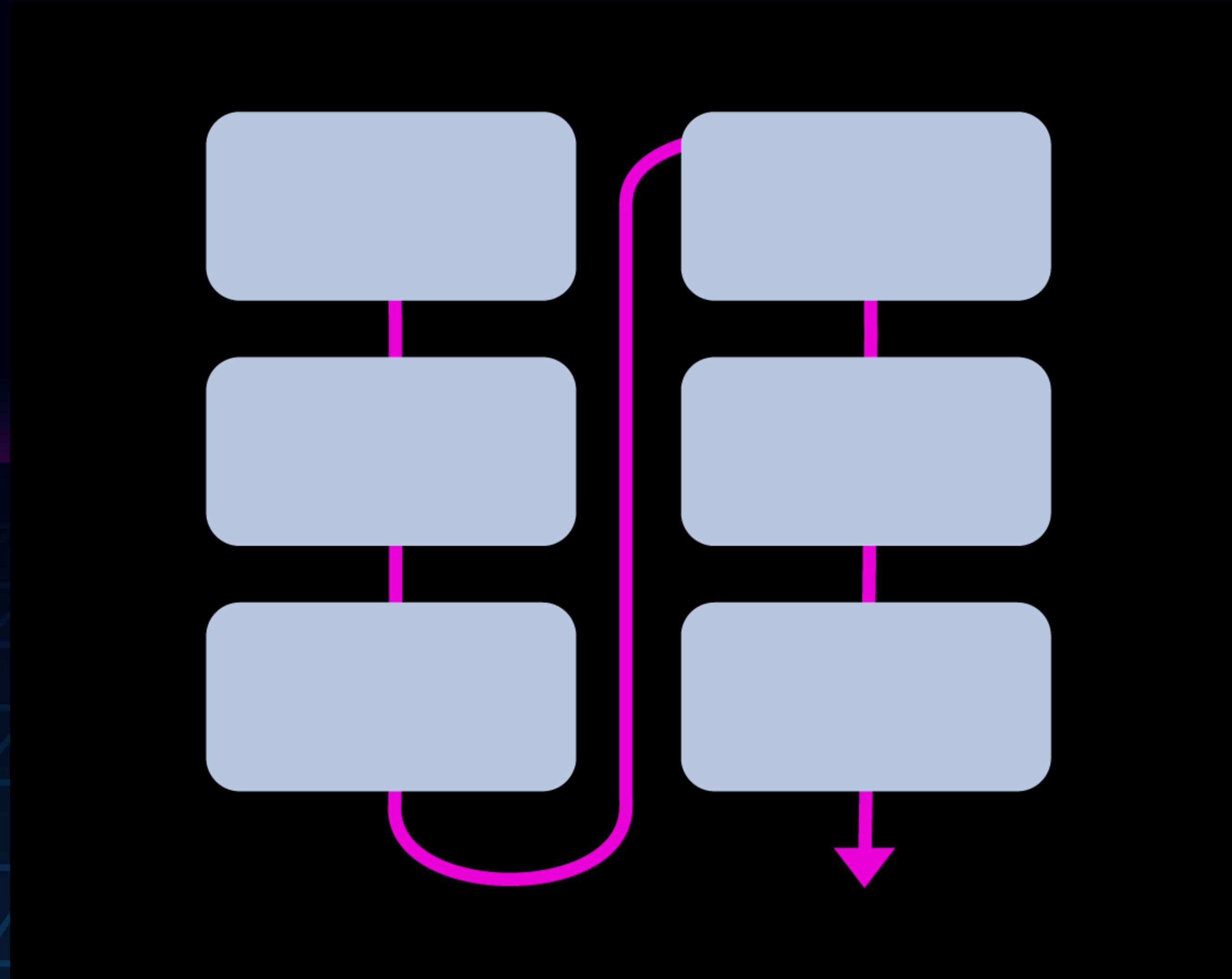


Flexbox is great for laying out items in one direction.  
In rows....

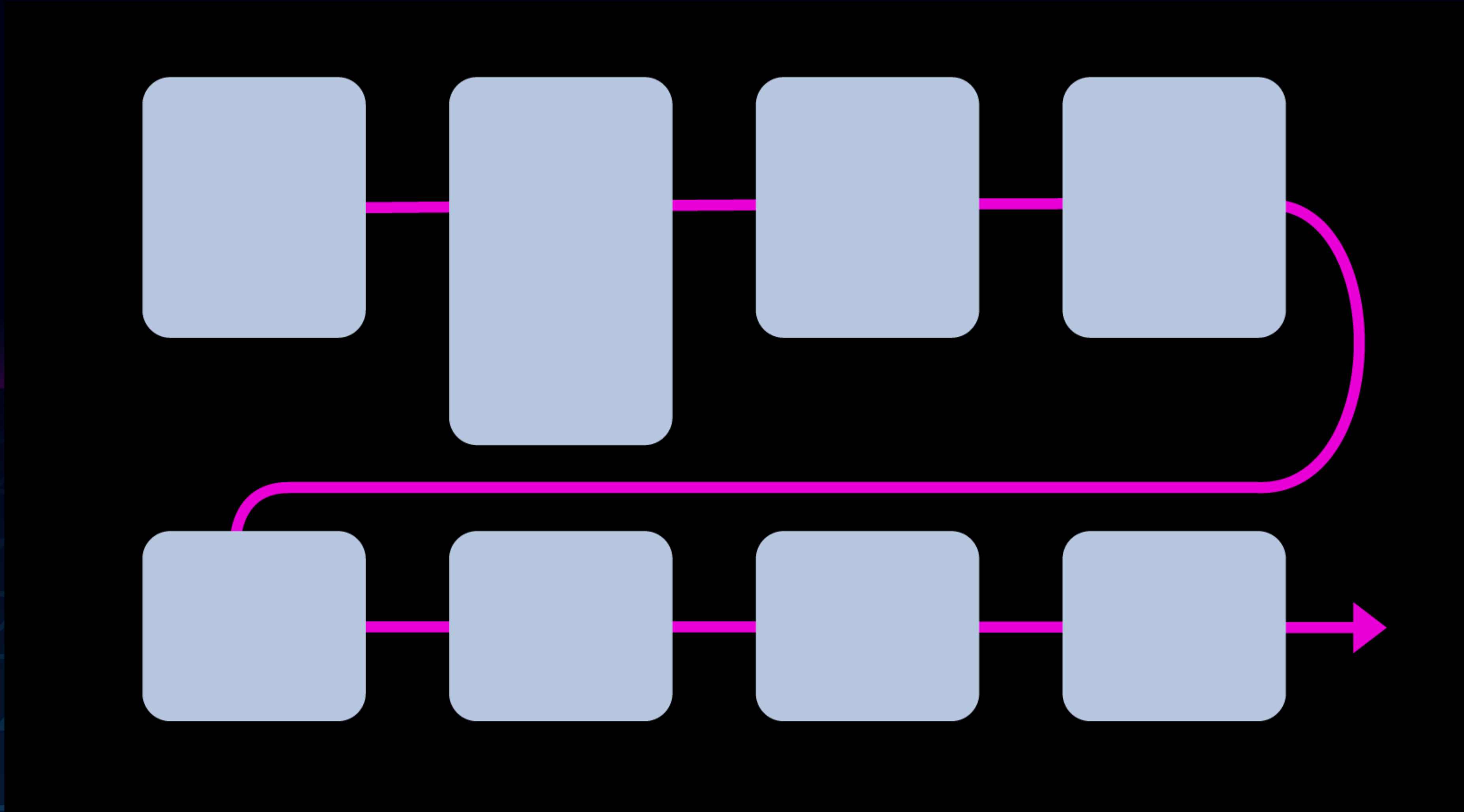




...or columns

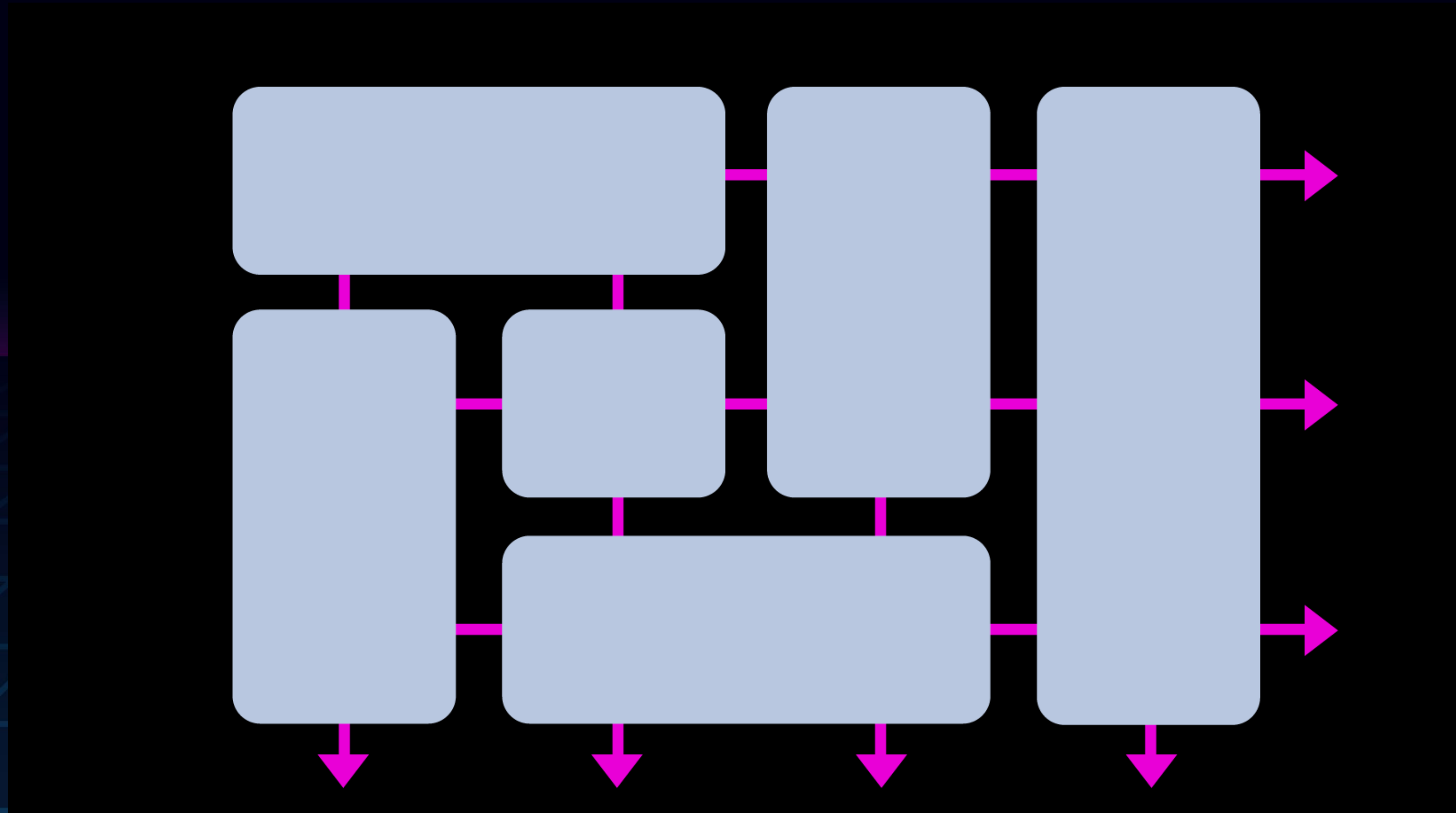


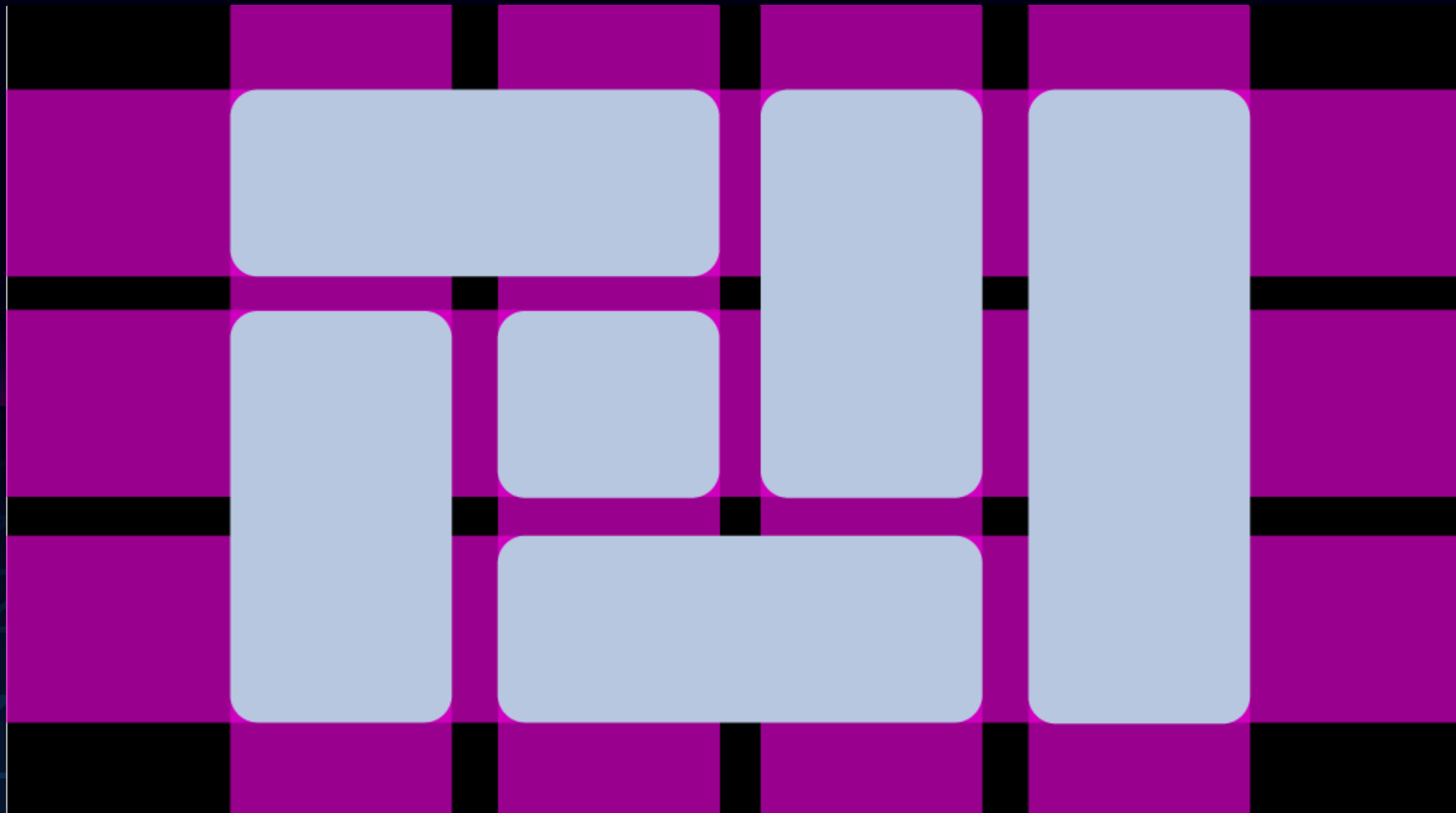
Uh oh.



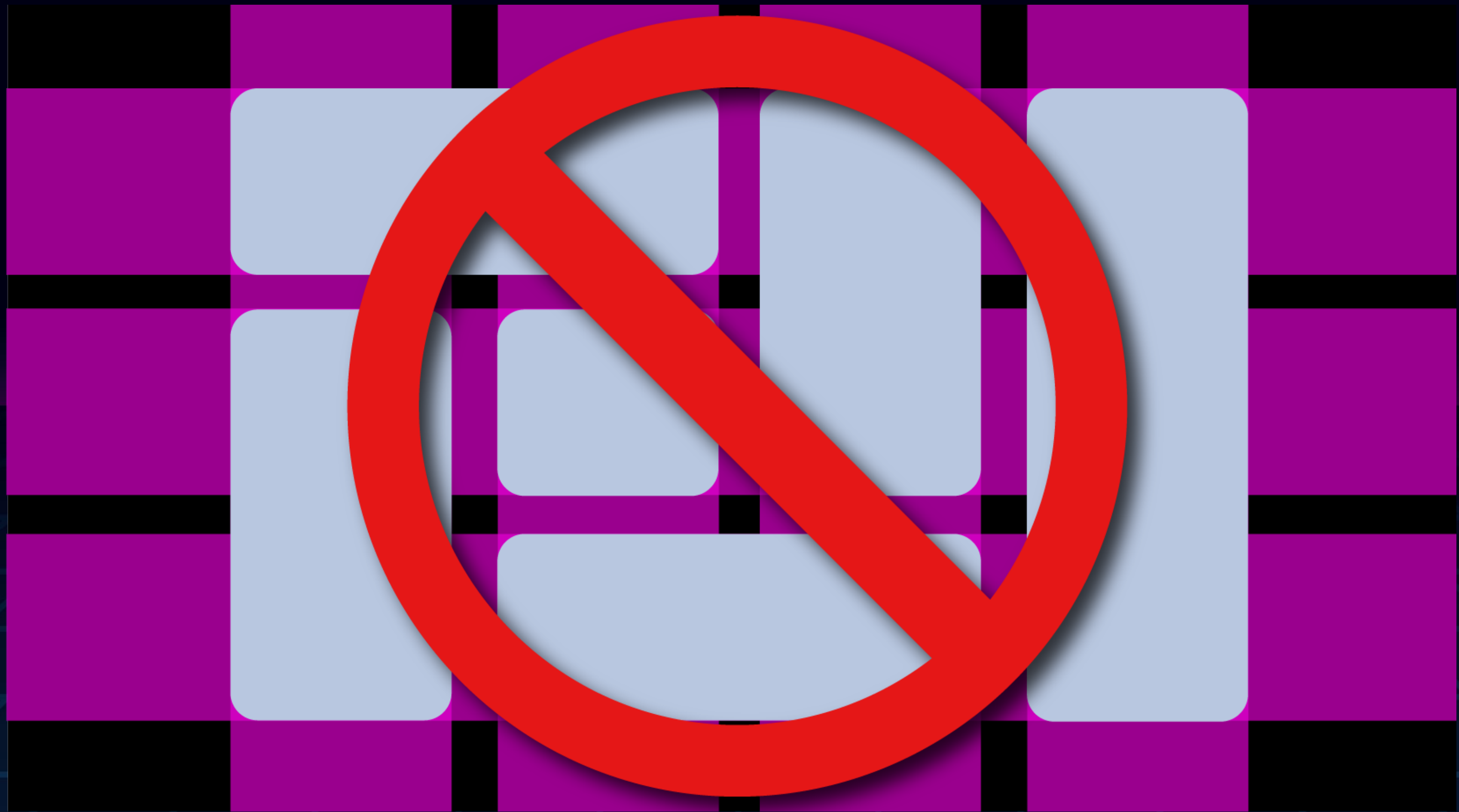


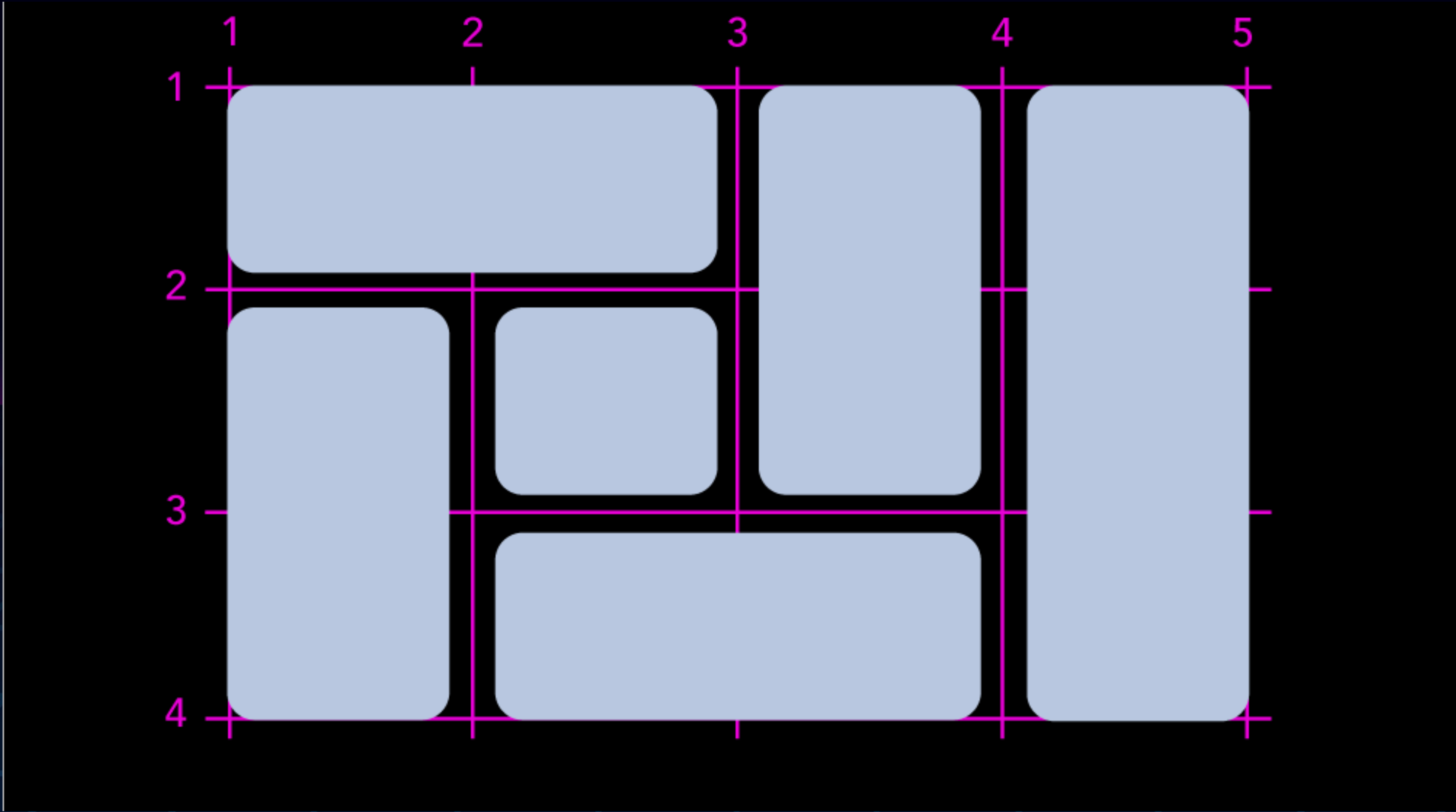
Grid allows you to lay out elements in two directions,  
rows & columns













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

## # CSS Feature Queries - CR

Usage Global    
 94.03%

CSS Feature Queries allow authors to condition rules based on whether particular property declarations are supported in CSS using the @supports at rule.

**Current aligned** Usage relative Date relative Show all

IE	Edge *	Firefox	Chrome	Safari	iOS Safari *	Opera Mini *	Chrome for Android	UC Browser for Android	Samsung Internet
			49						
			63		10.2				
			64		10.3				4
11	16	58	65	11	11.2	all	64	11.8	6.2
	17	59	66	11.1	11.3				
		60	67	TP					
		61	68						

# 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

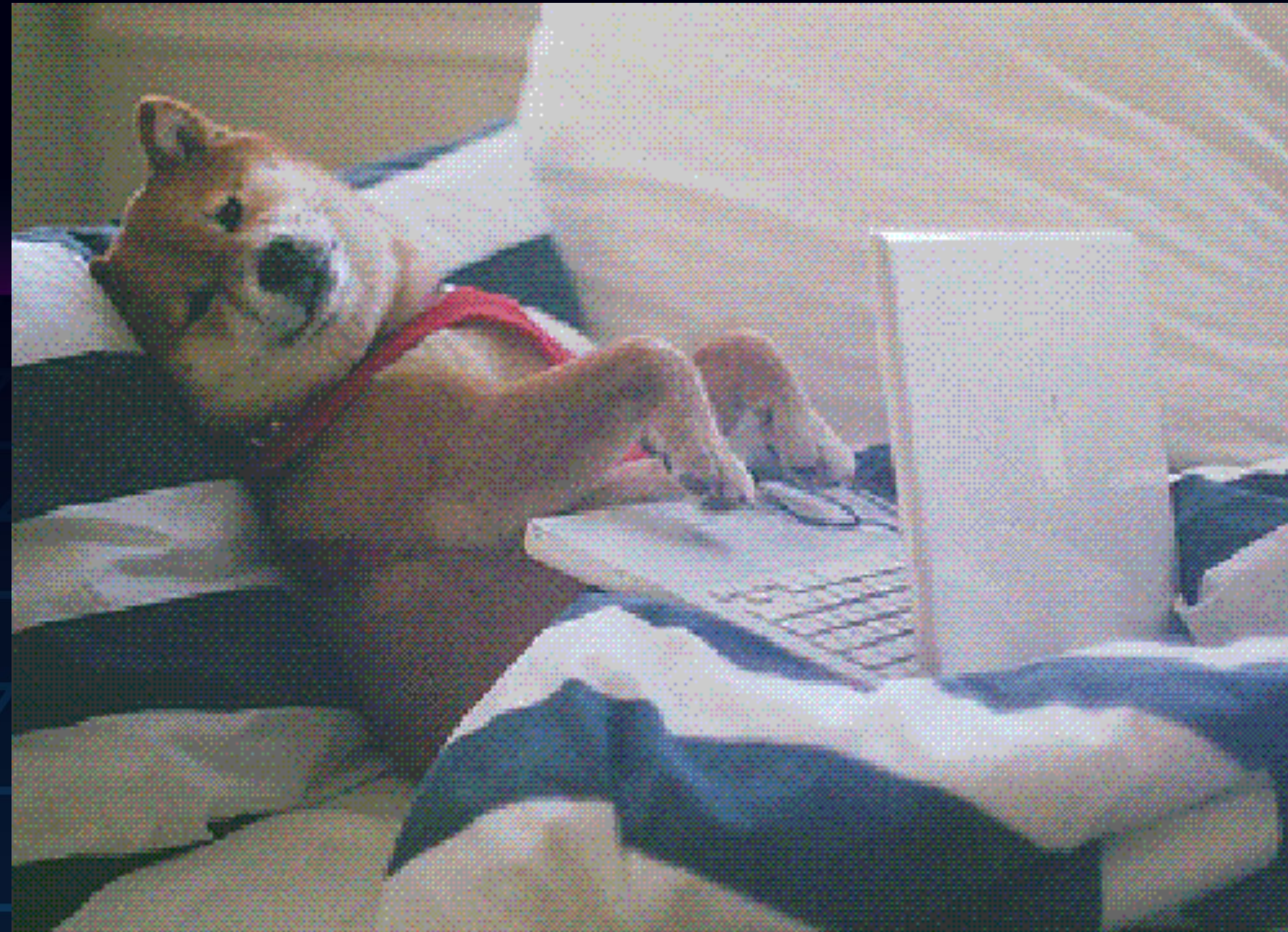
- This is the default for Autoprefixer v7.0 and greater

## 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?





# 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!

@brendamarienyc