

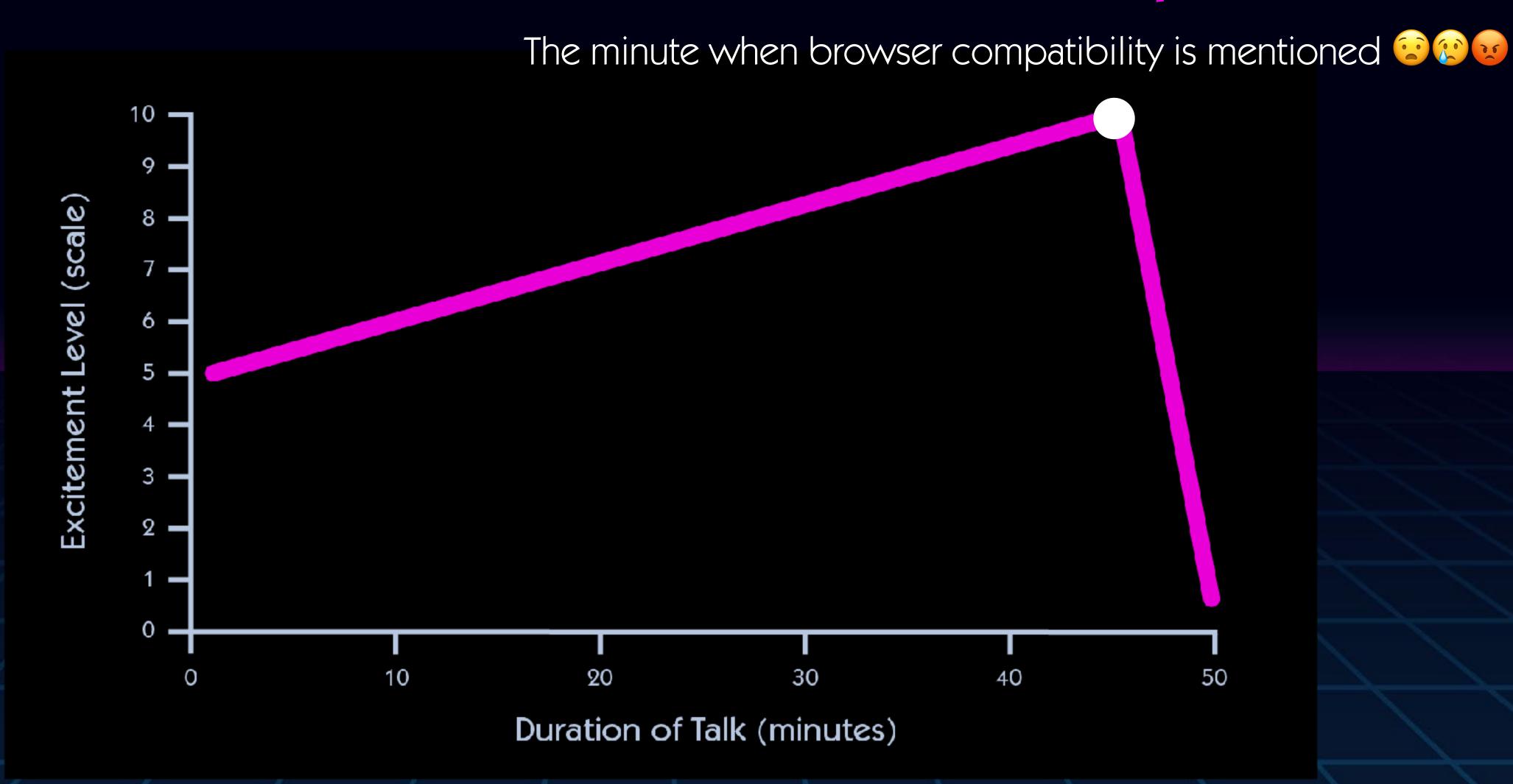
Ne

@brendamarienyc

Designer at thoughtbot (Front-End Dev too!)

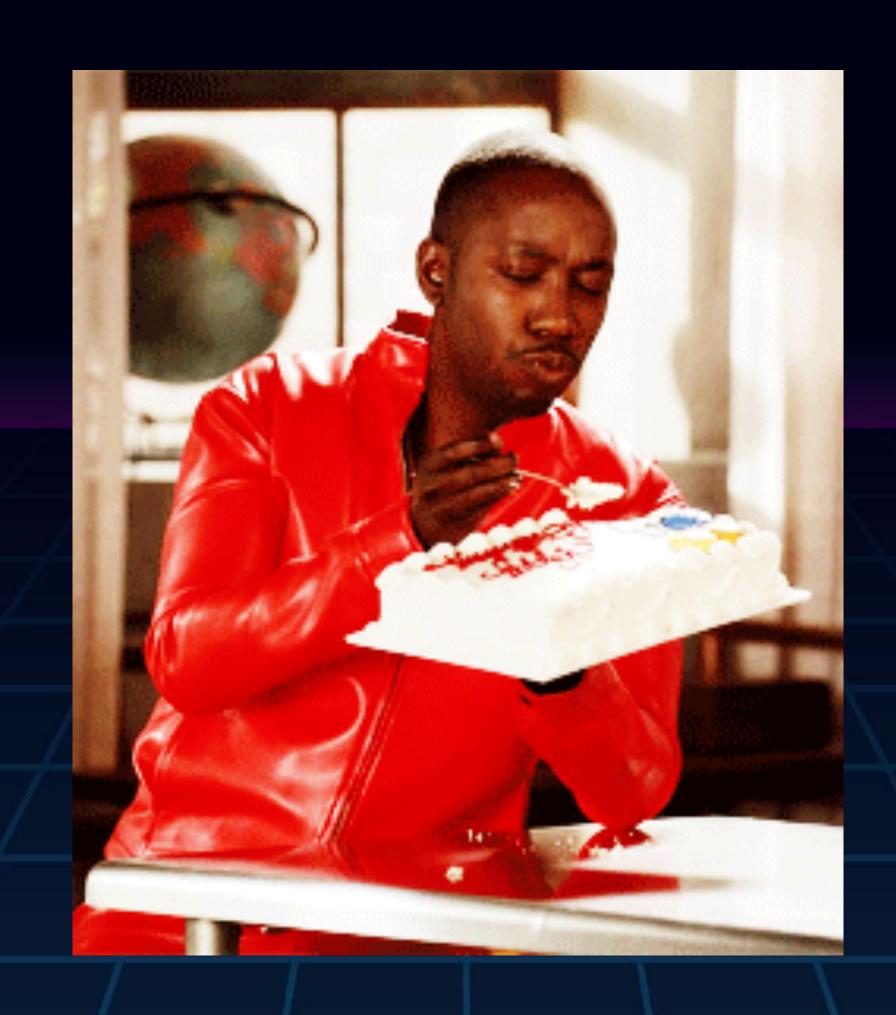


Emotional Reaction to new CSS Specs



Why can't we have nice things?





GRID IS NICE

Why?

Bye Bye Vendor Prefixes ©

Hello Feature Flags

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 Usage relative Date relative Show all Chrome for Android iOS Safari * Opera Mini * Edge Firefox Chrome Safari ΙE Opera Browser Android 49 51 4.3 54 4.4 55 50 9.3 4.4.4 51 56 10 42 10.2 53 55 all 52 57 10.1 43

TP

44

53

54

58

59

Today

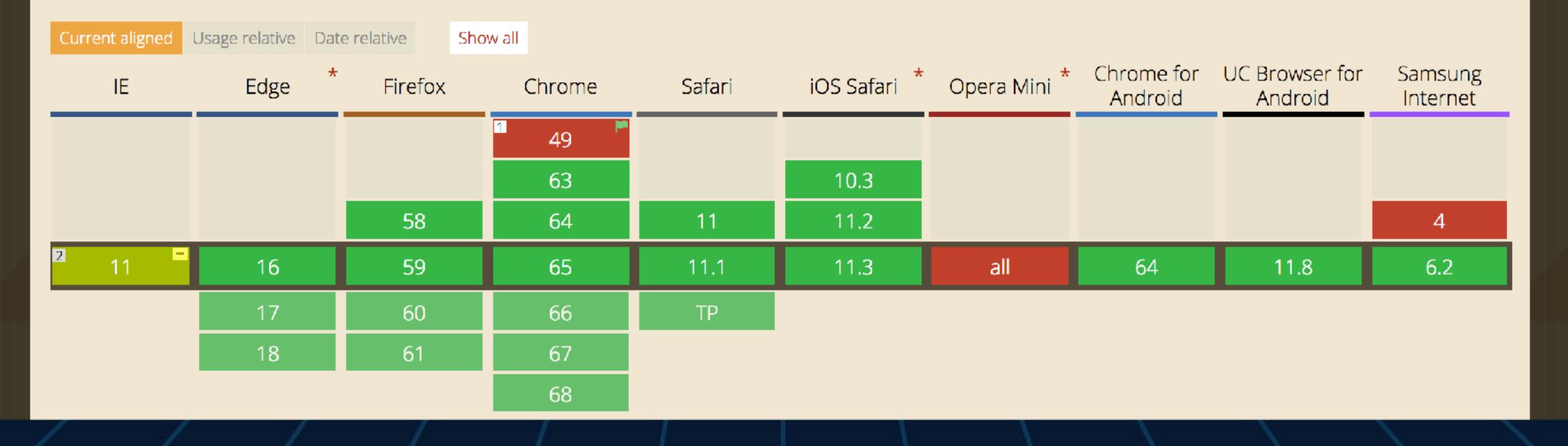
CSS Grid Layout - cr

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. Includes support for all grid-* properties and the fr unit.

Usage % of all users \$

Global 84.02% + 3.38% = 87.4%

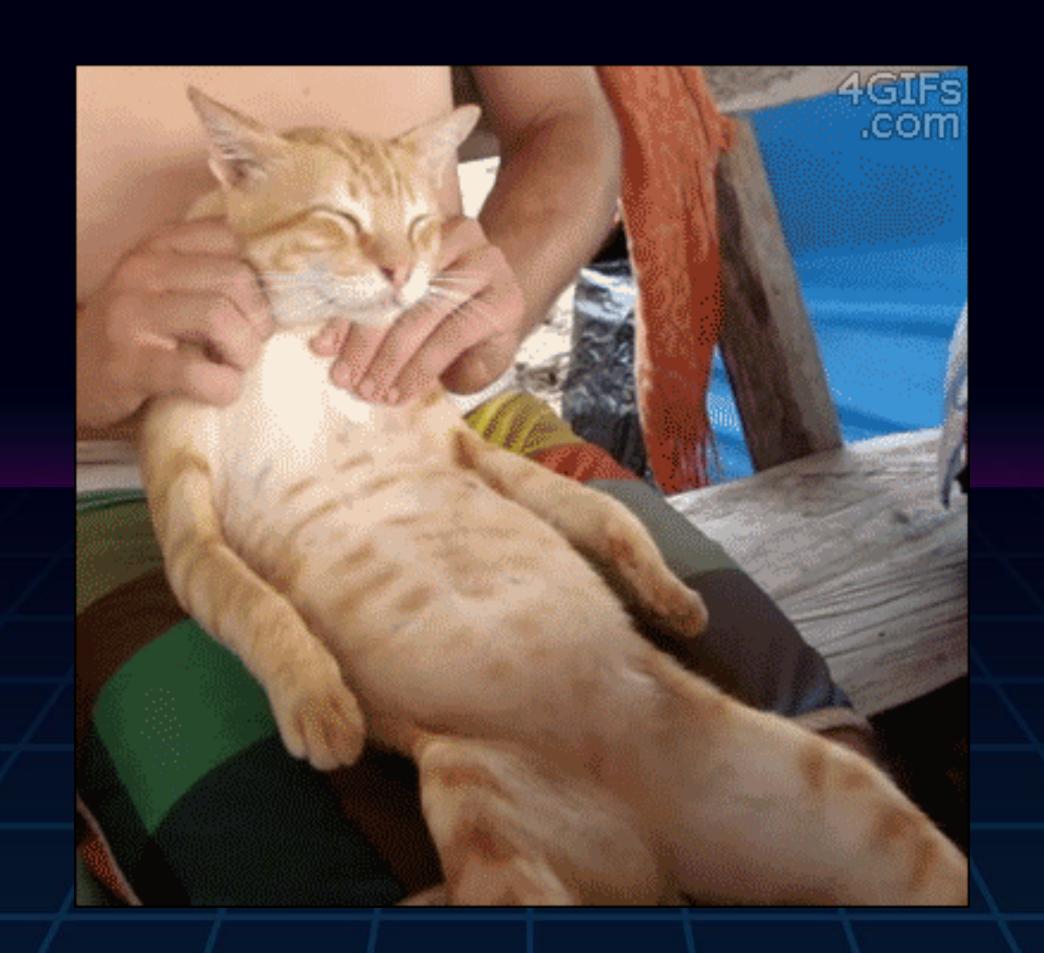
unprefixed: 84.02%



...with one exception. IE.

Prefixed version of Grid in IE only -ms

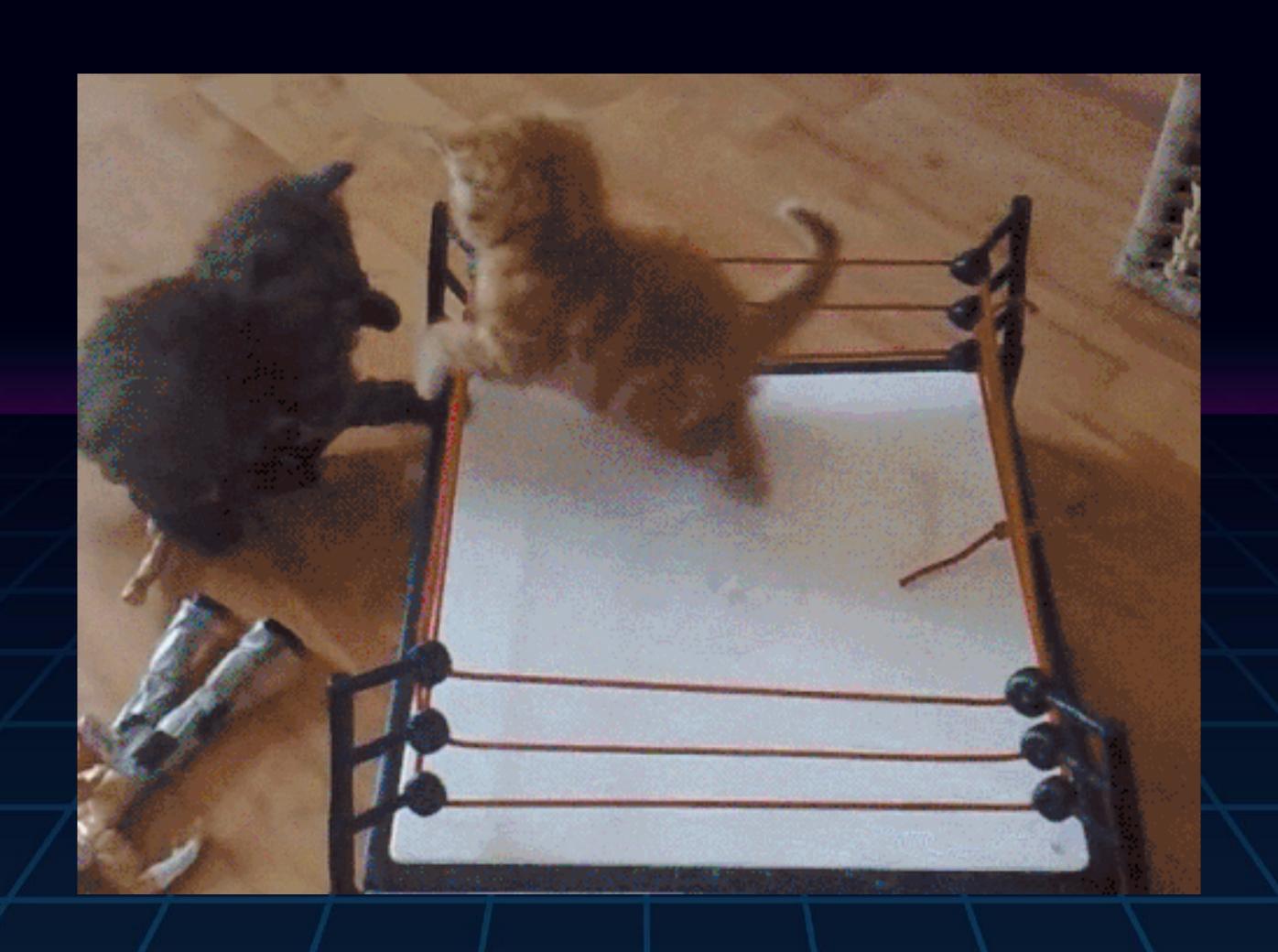
Early, not fully baked version of Grid



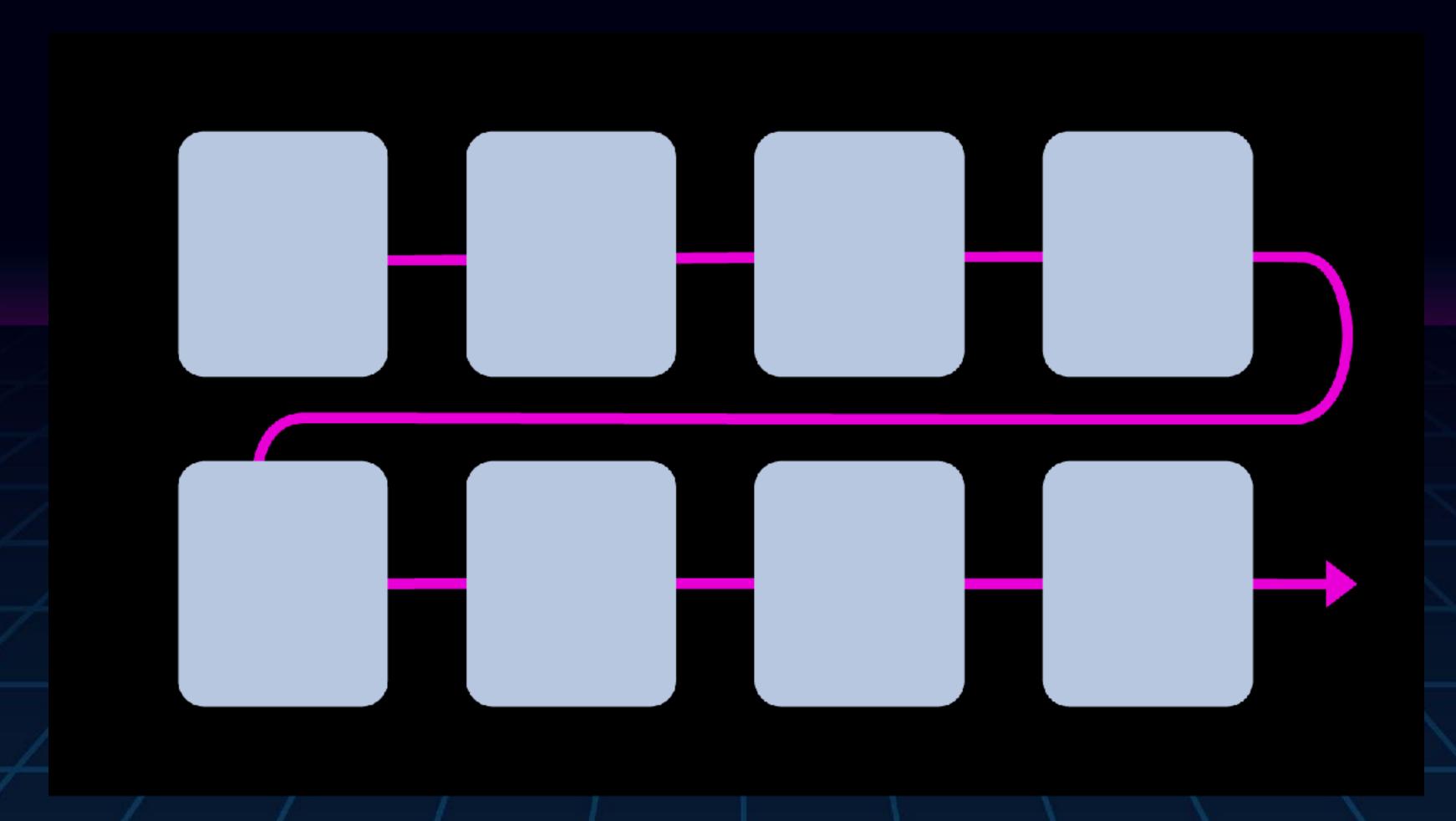
Step by Step Guide to writing CSS Grid

Step 1: Identify a Good Use Case

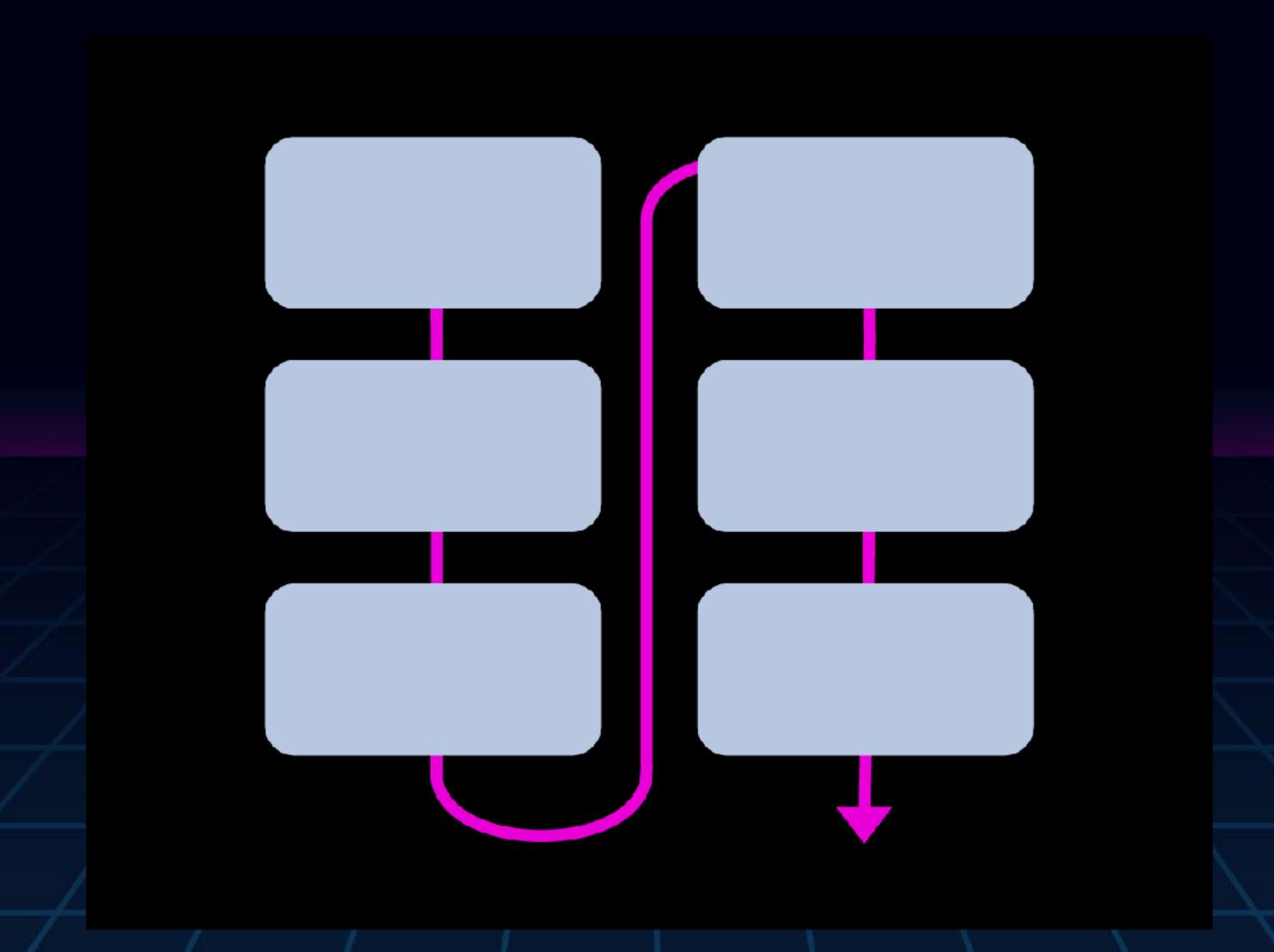
Flexbox vs. Grid



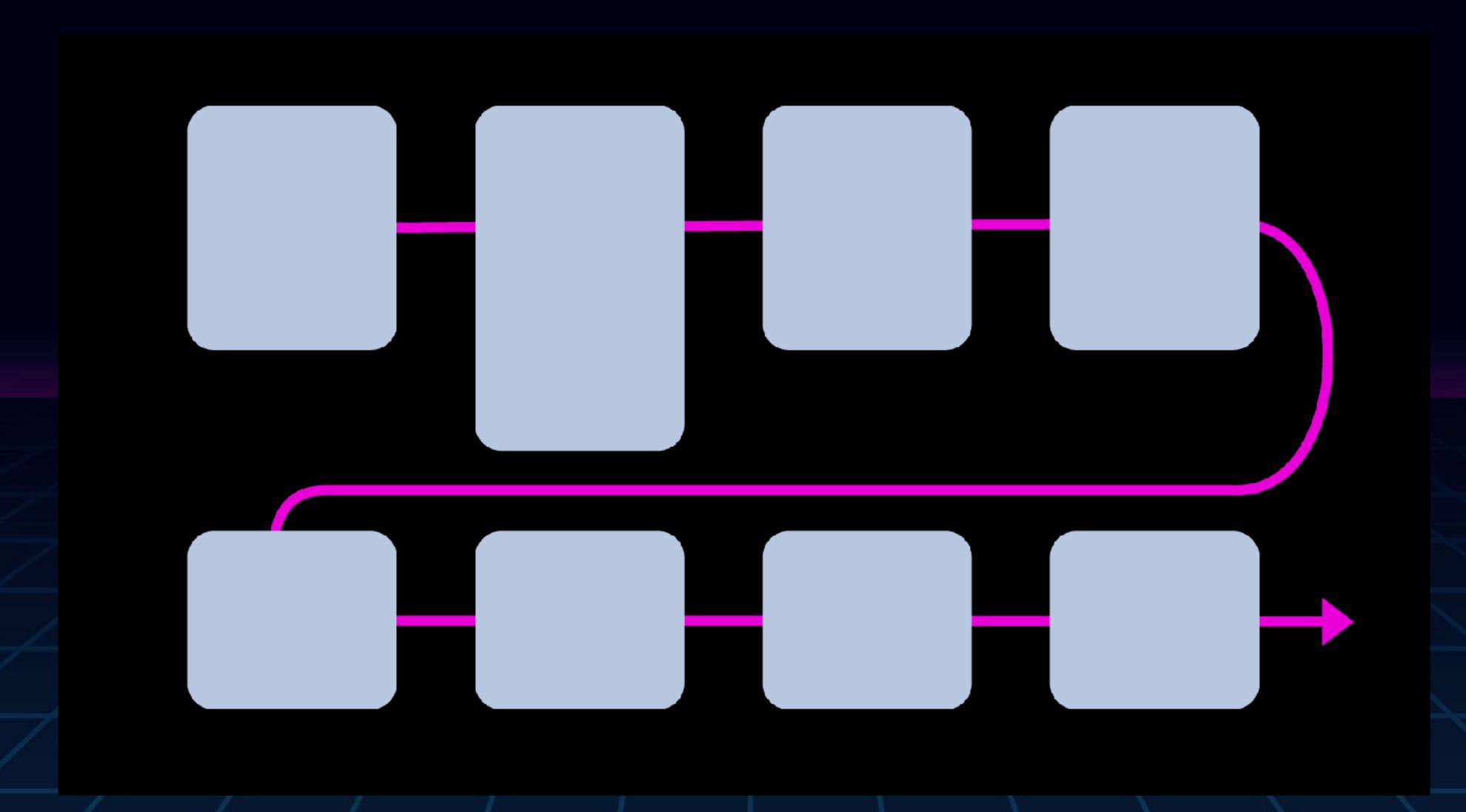
Flexbox is great for laying out items in one direction. In rows....



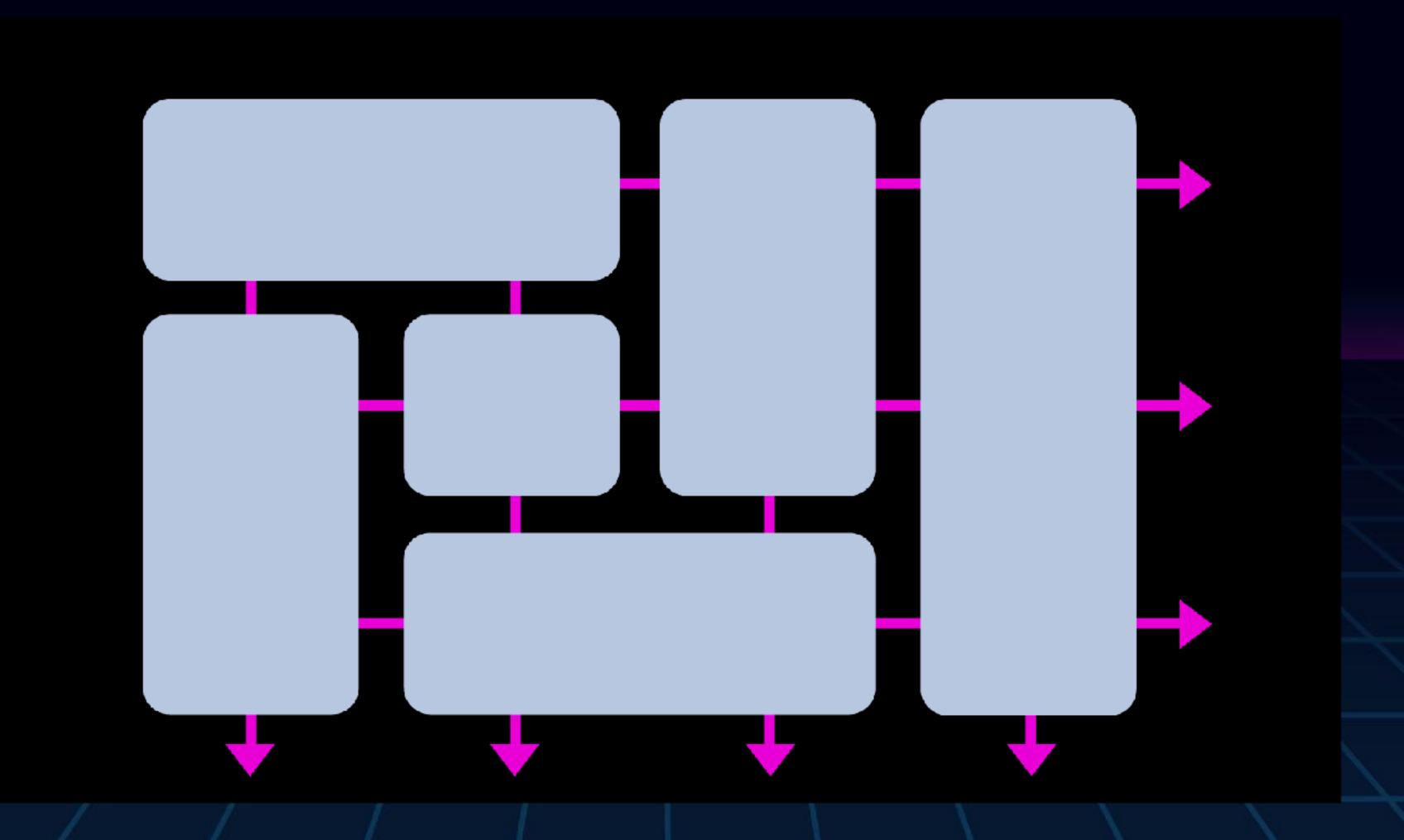
...or columns

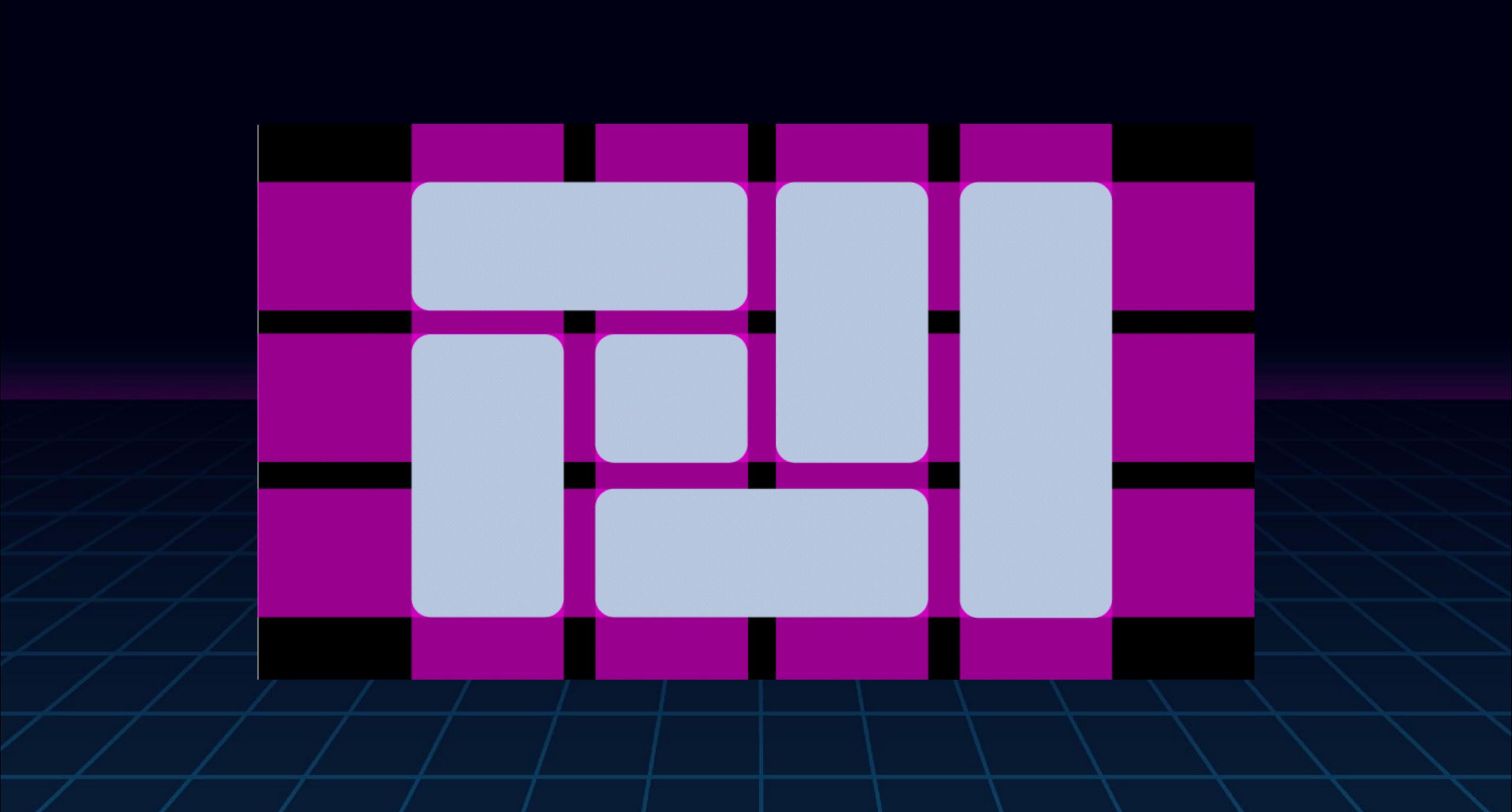


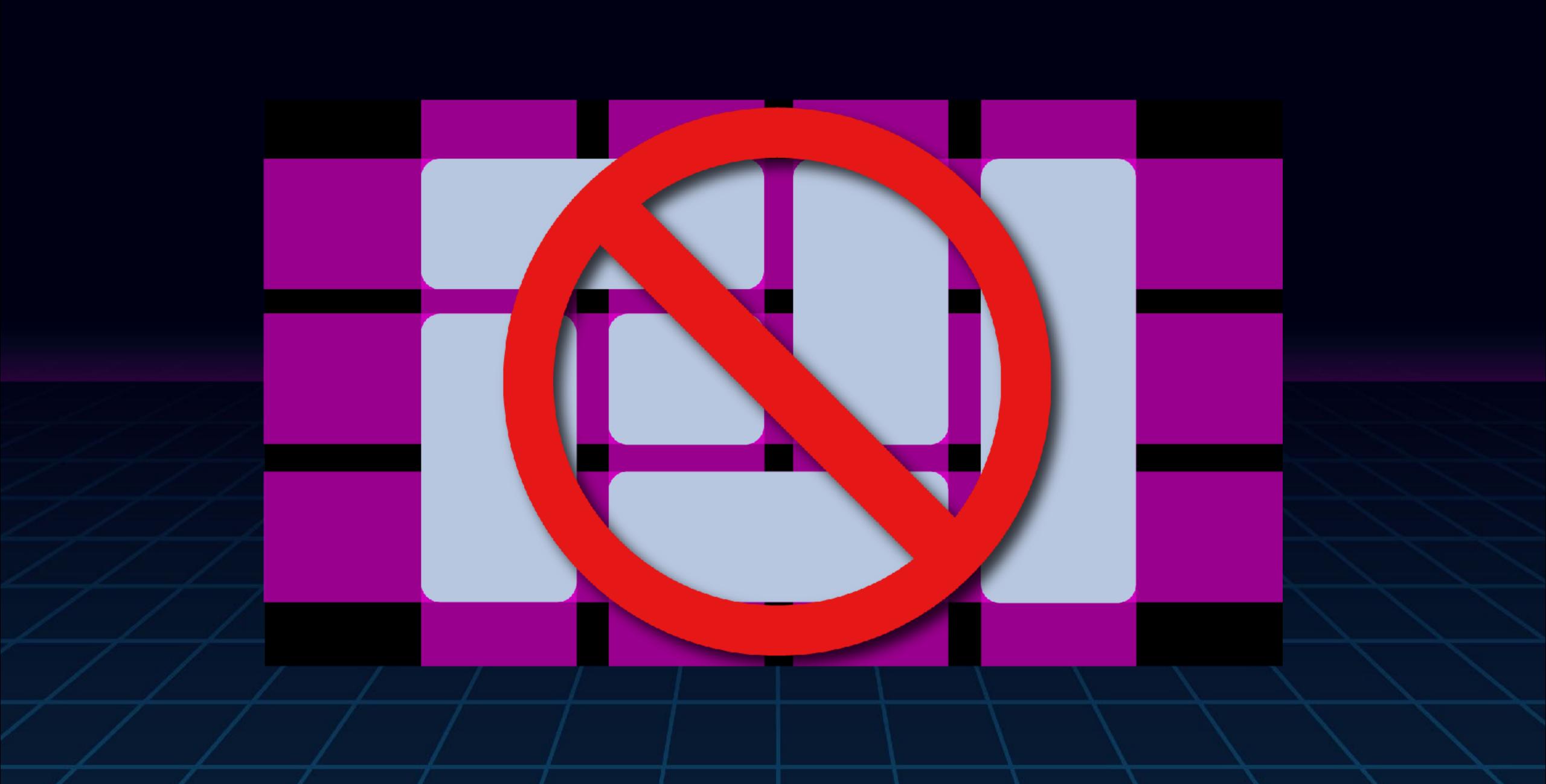
Uh oh.

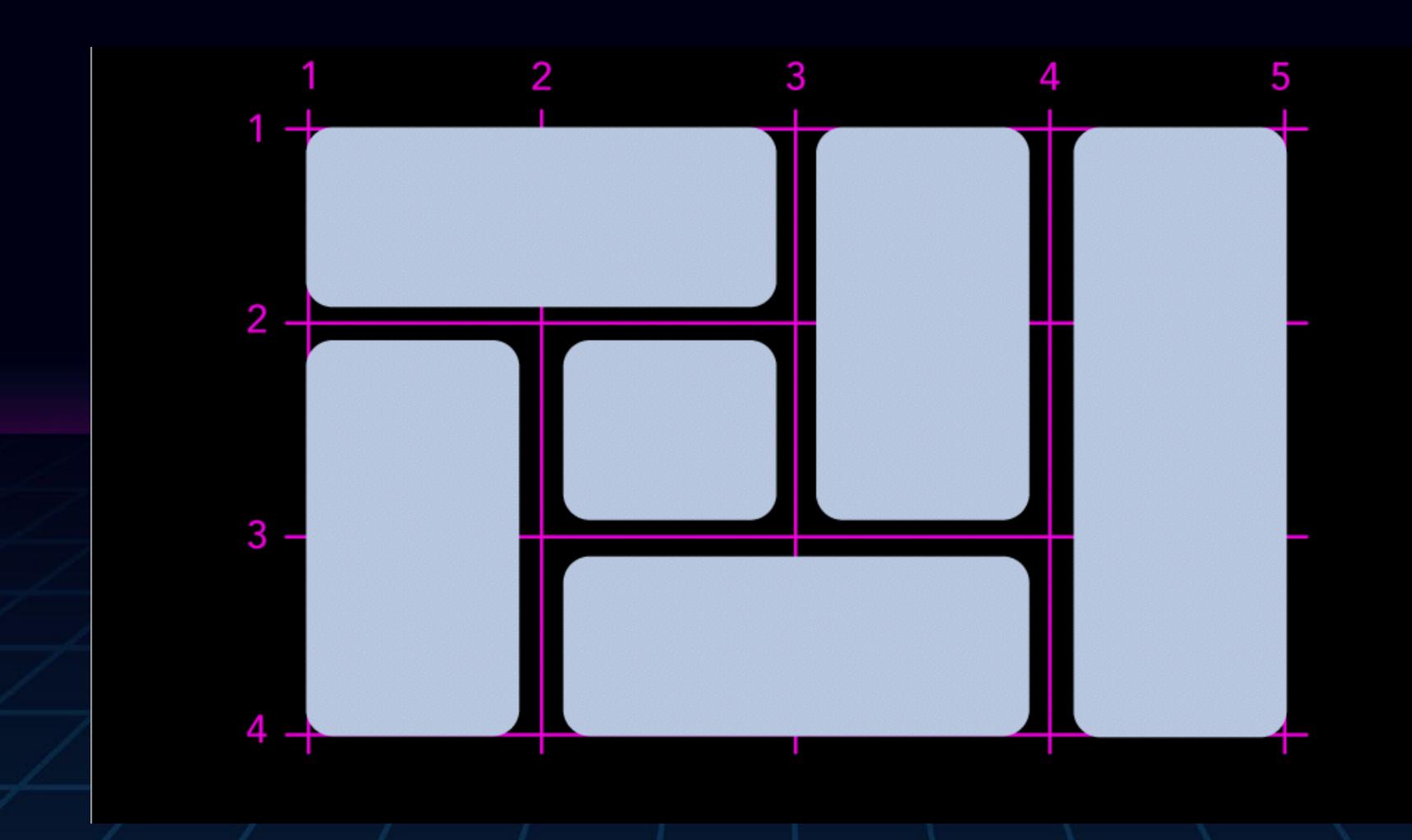


Grid allows you to lay out elements in two directions, rows & columns



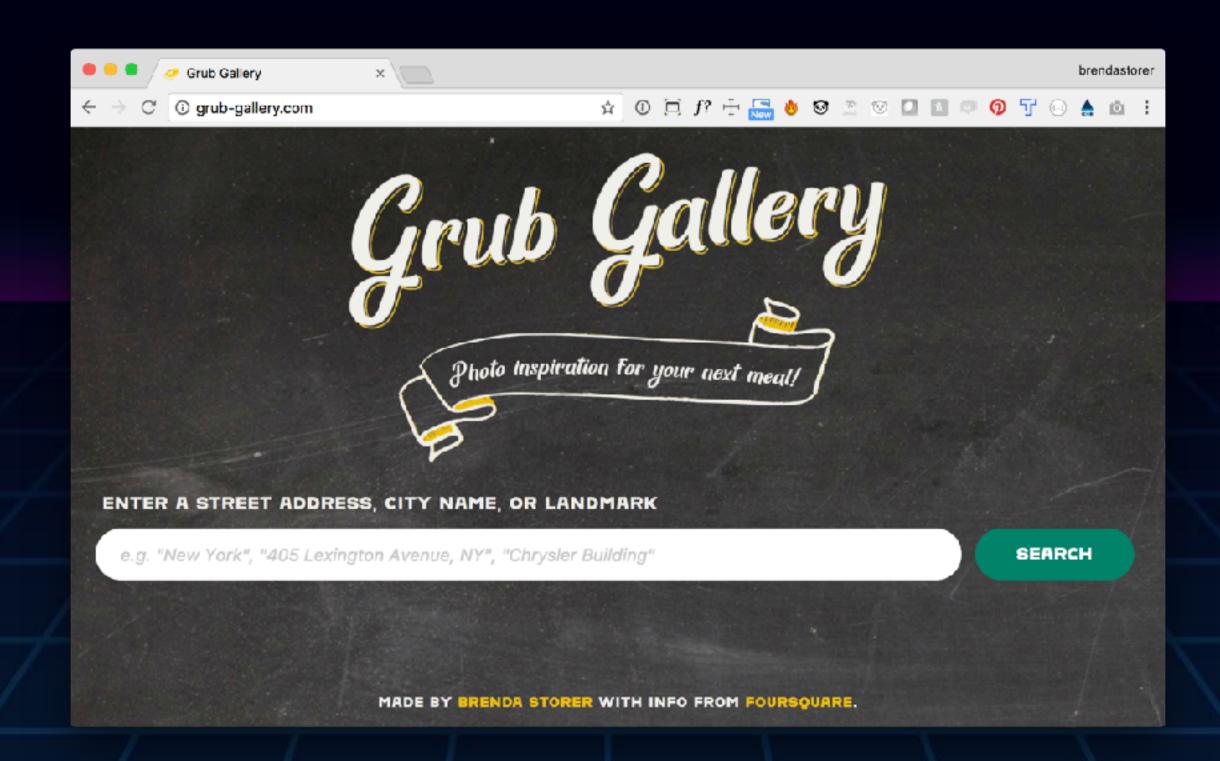






When normally reaching for a layout property like Flexbox, floats, or positioning, consider Grid.

A good use case



Step 2: Write Grid Code

The Markup (simplified)

The CSS

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

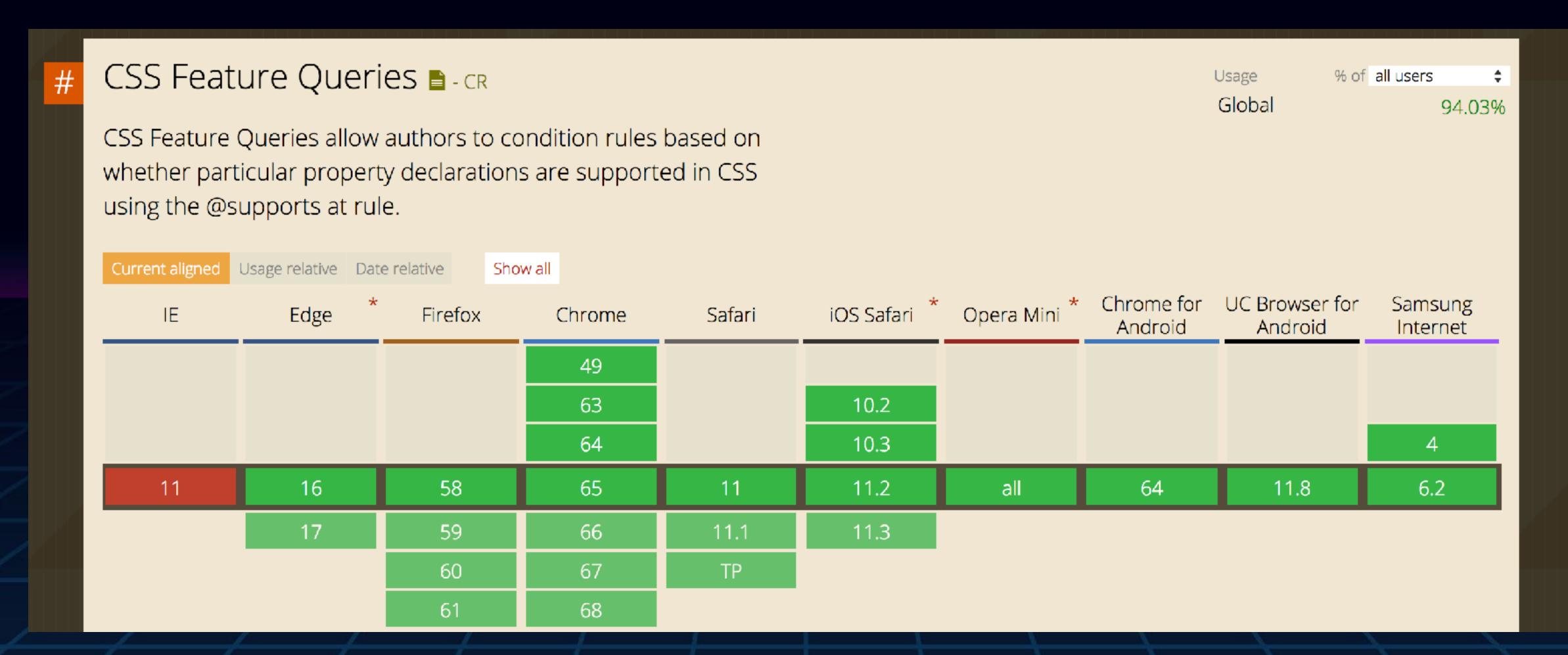
Step 3:

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;
  padding: 5px;
@supports (display: grid) {
  .search-results {
    display: grid;
    grid-gap: 10px;
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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...

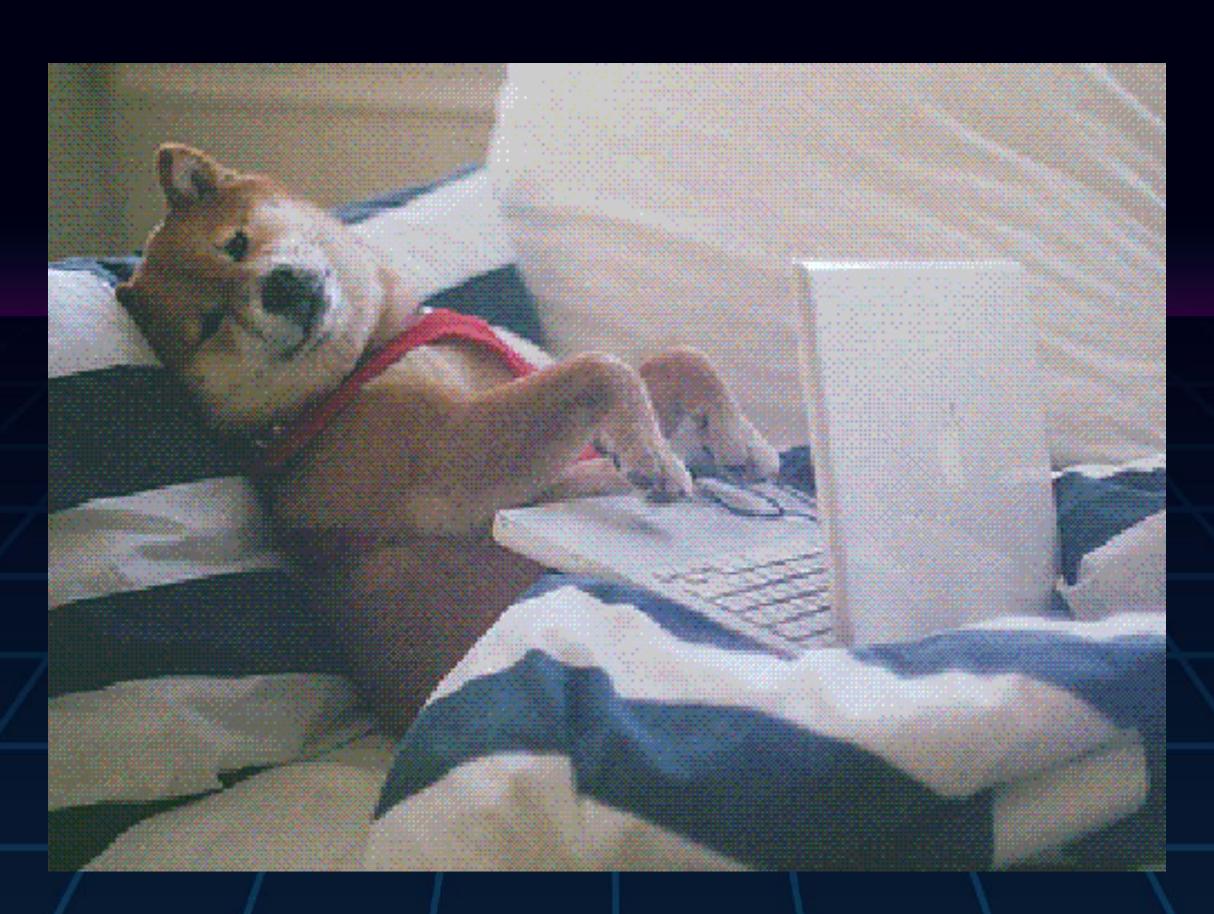
Disable Grid in Autoprefixer

- 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!*

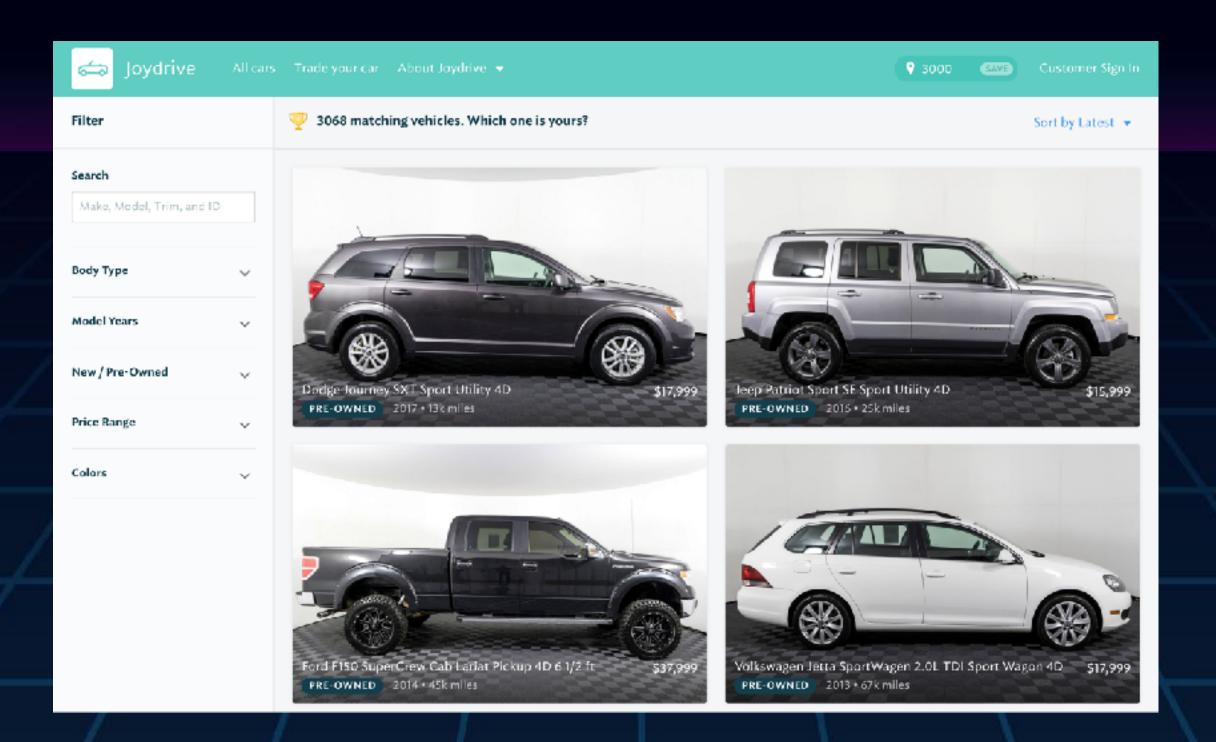
*disclaimer

"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

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

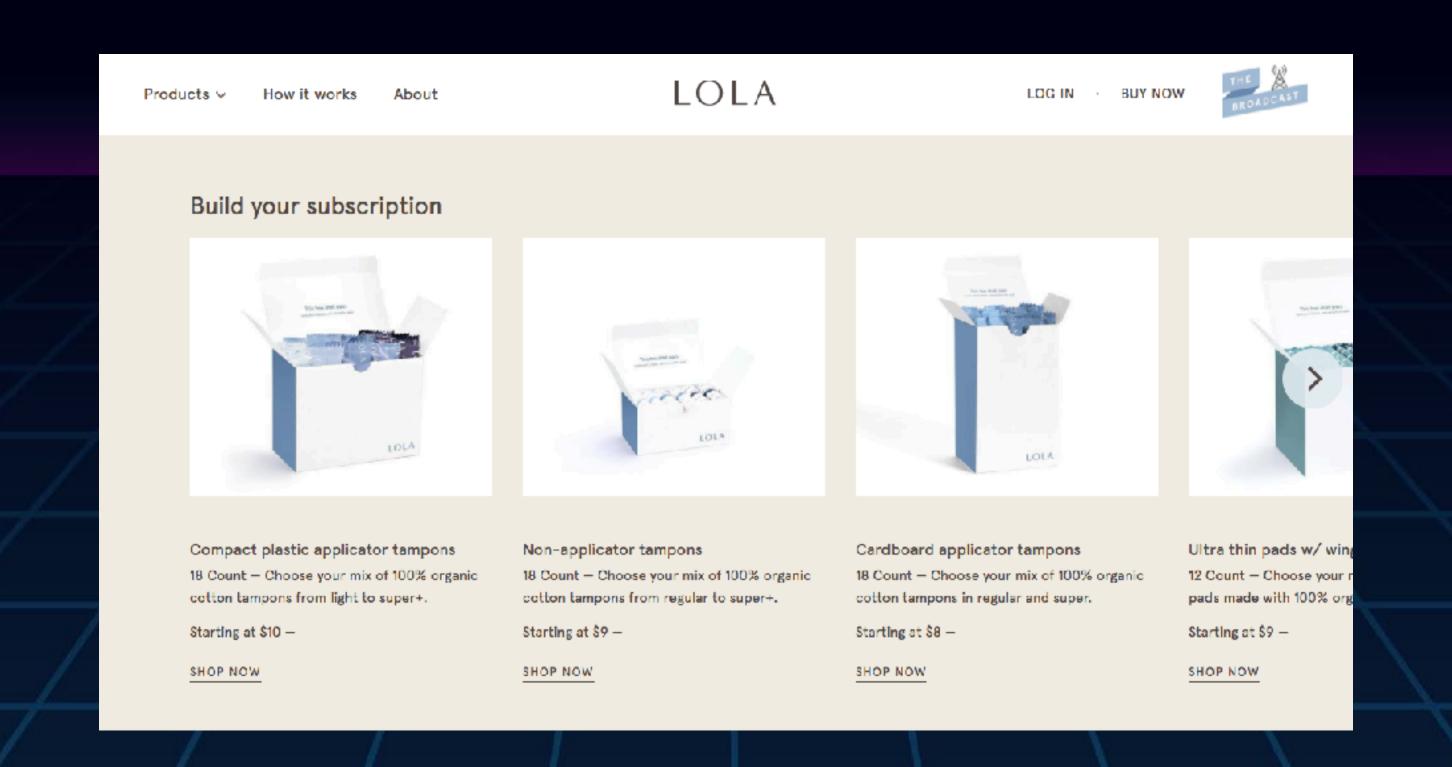
Graceful Degradation

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



RESCURCES

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.

<u>@brendamarienyc</u>

http://brendastorer.com

http://brendastorer.com/presentations/2018-04-GenerateNYC.pdf