

Presenting

WWitch

»→ Matthias Ott
Smashing Conference
Freiburg 2025

the new web

Matthias Ott

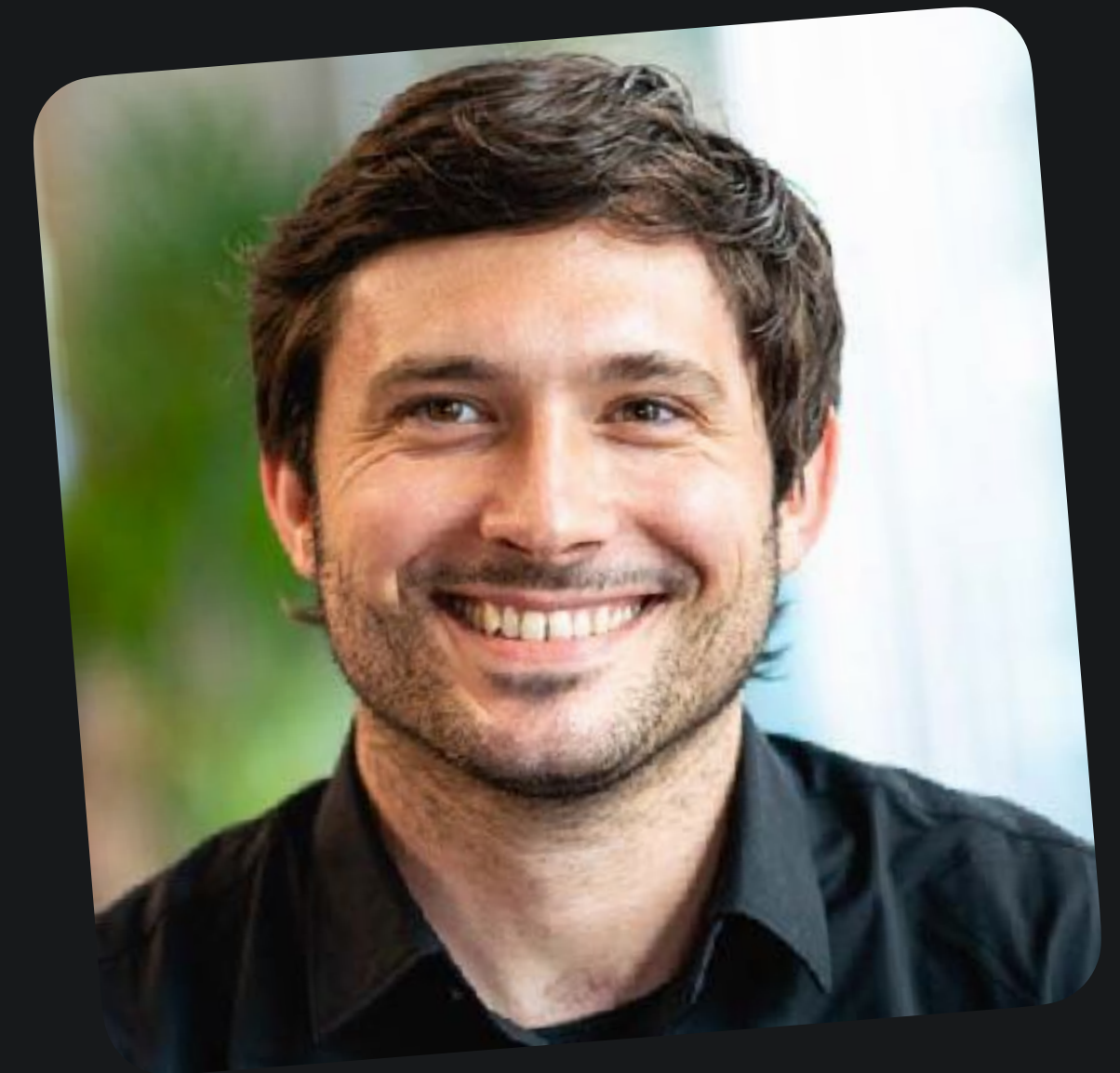
User Experience Designer

Web Design Engineer

Teacher for Interface Prototyping,
Muthesius University of Fine Arts and Design

@matthiasott@mastodon.social

<https://matthiasott.com>



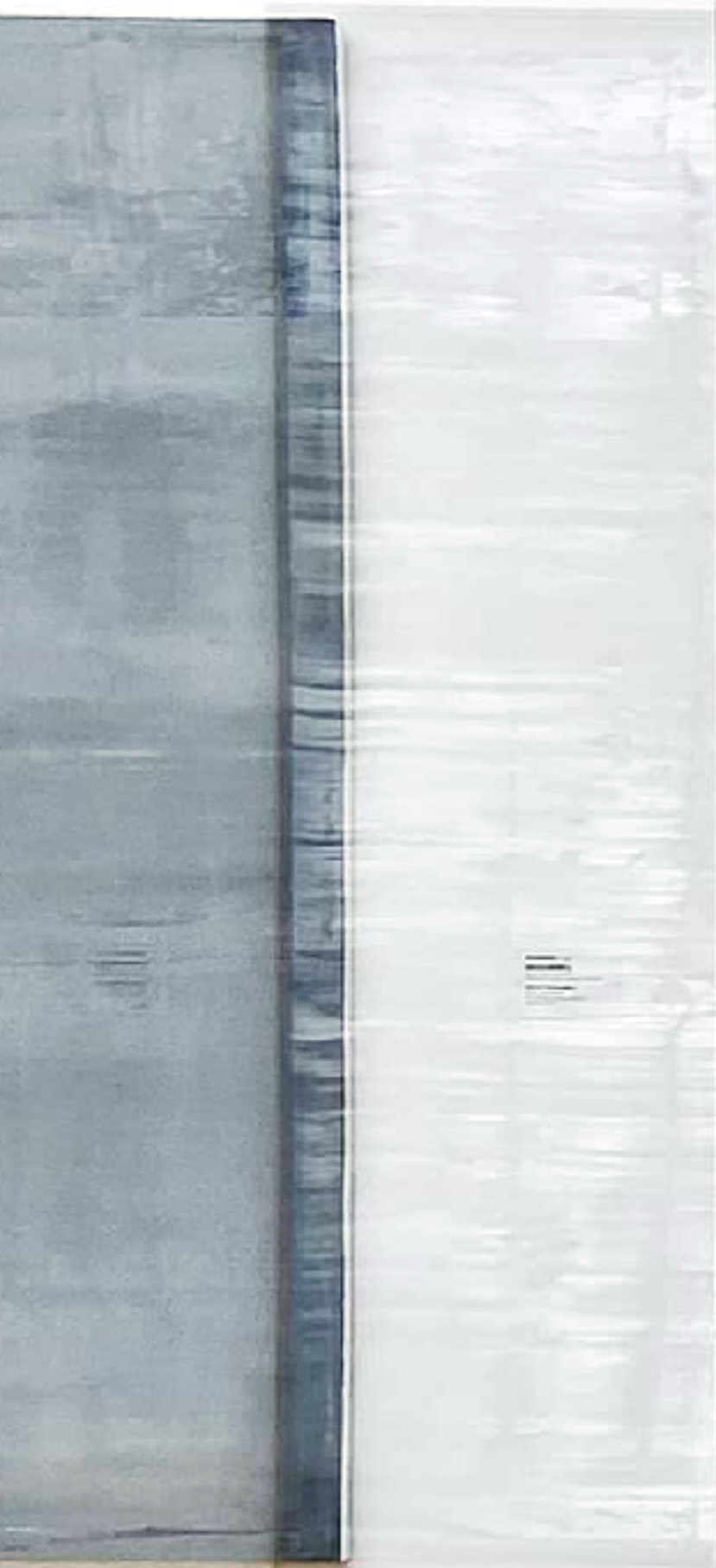
OWN YOUR



ownyourweb.site

WEB







**The ultimate
creative process.
A constant
conversation.**

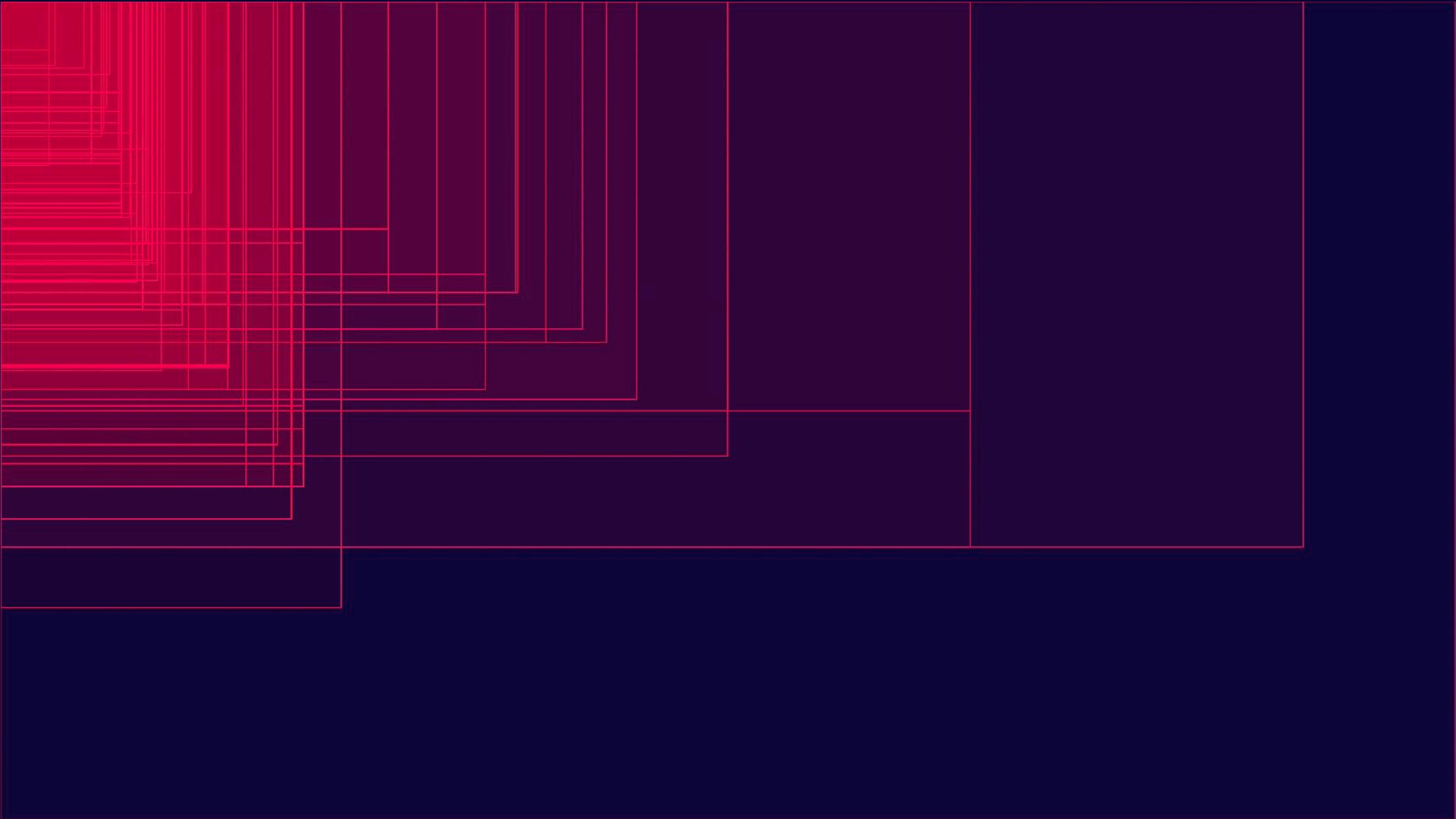


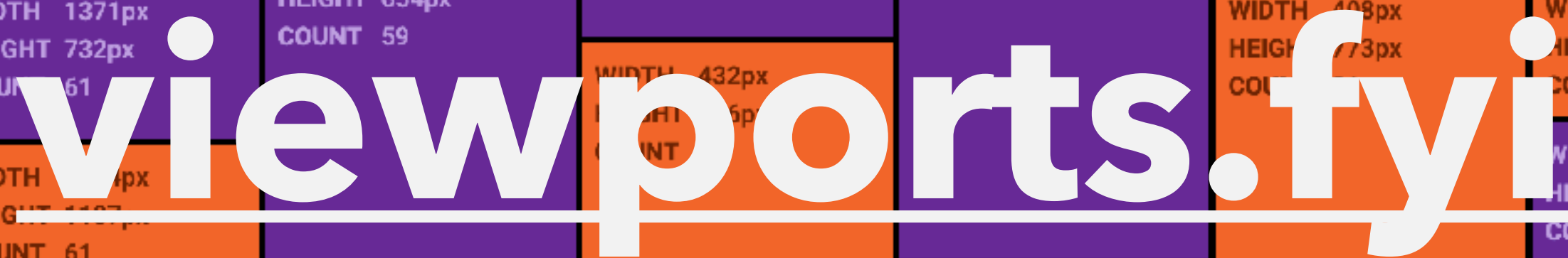


The Canvas



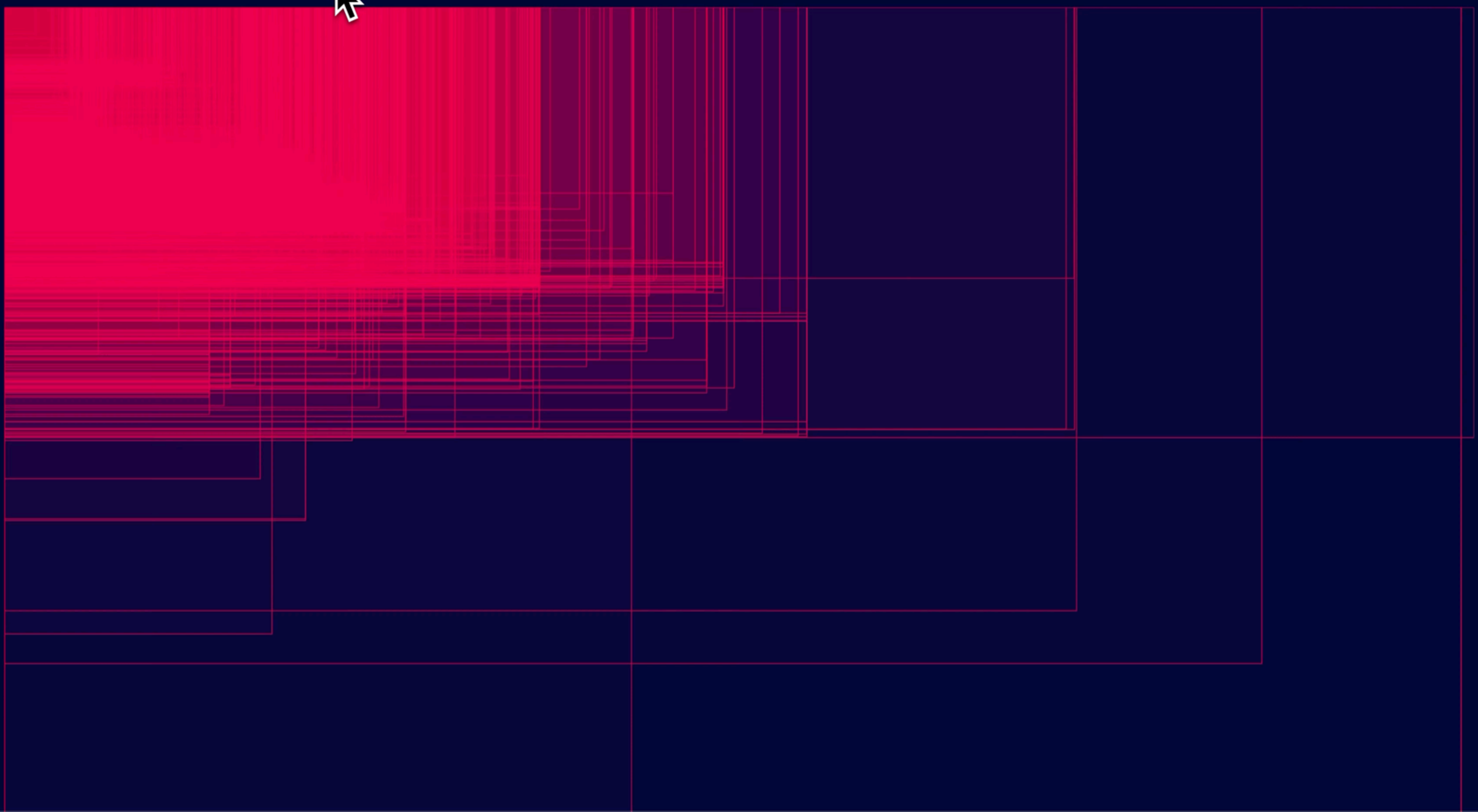
Photo: Brad Frost, 2012

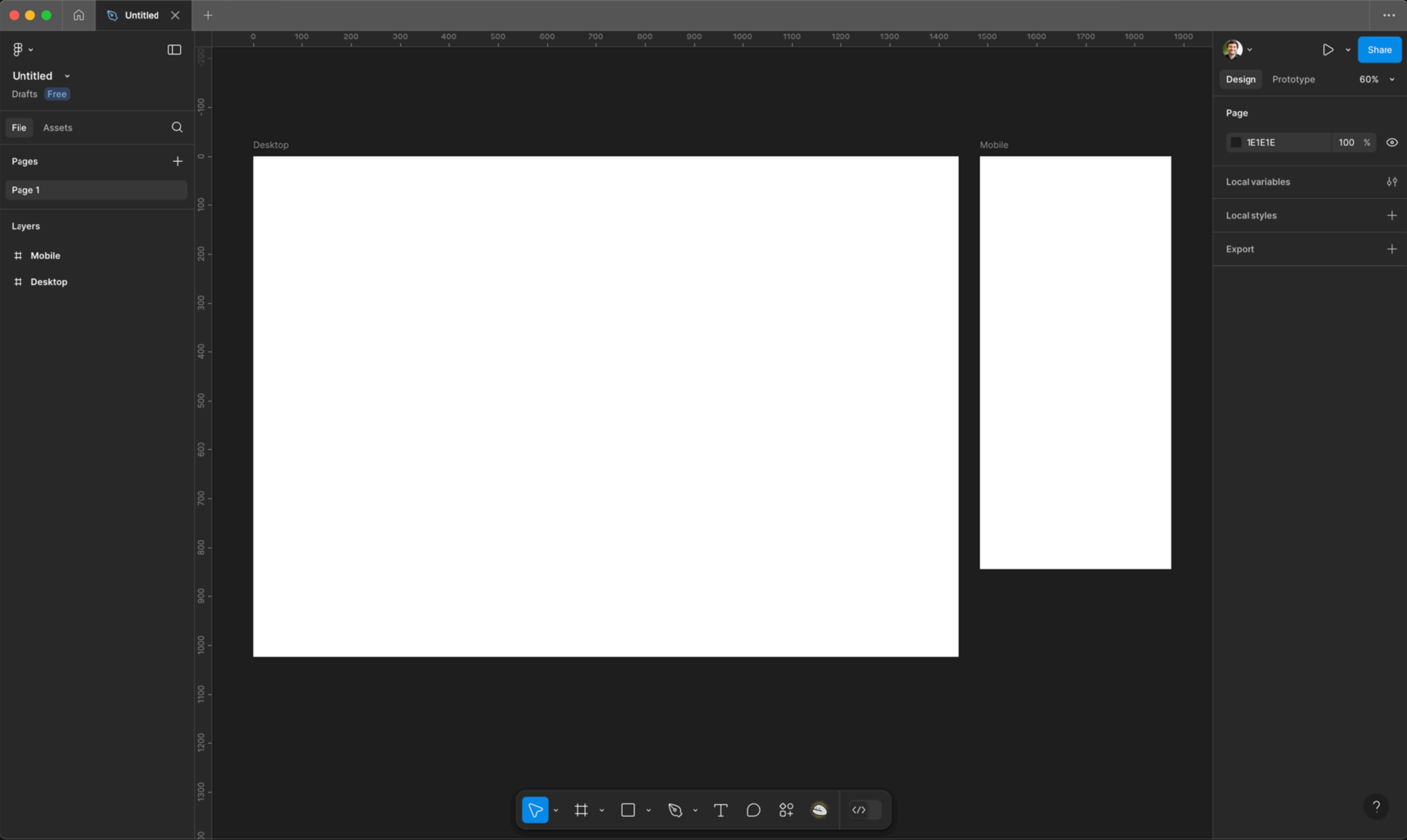




0 x 0

Toggle full-width





Responsive Web Design – A L x +

alistapart.com/article/responsive-web-design/

ARTICLES EVENTS TOPICS WRITE FOR US LANGUAGE (ENGLISH) ▾

A LIST APART



Responsive Web Design

by [Ethan Marcotte](#) · May 25, 2010

Published in [CSS](#), [Interaction Design](#), [Layout & Grids](#), [Mobile/Multidevice](#), [Responsive Design](#)

“The control which designers know in the print medium, and often desire in the web medium, is simply a function of the limitation of the printed page. We

<https://alistapart.com/article/responsive-web-design/>

We are still
painting **static**
pictures of
websites

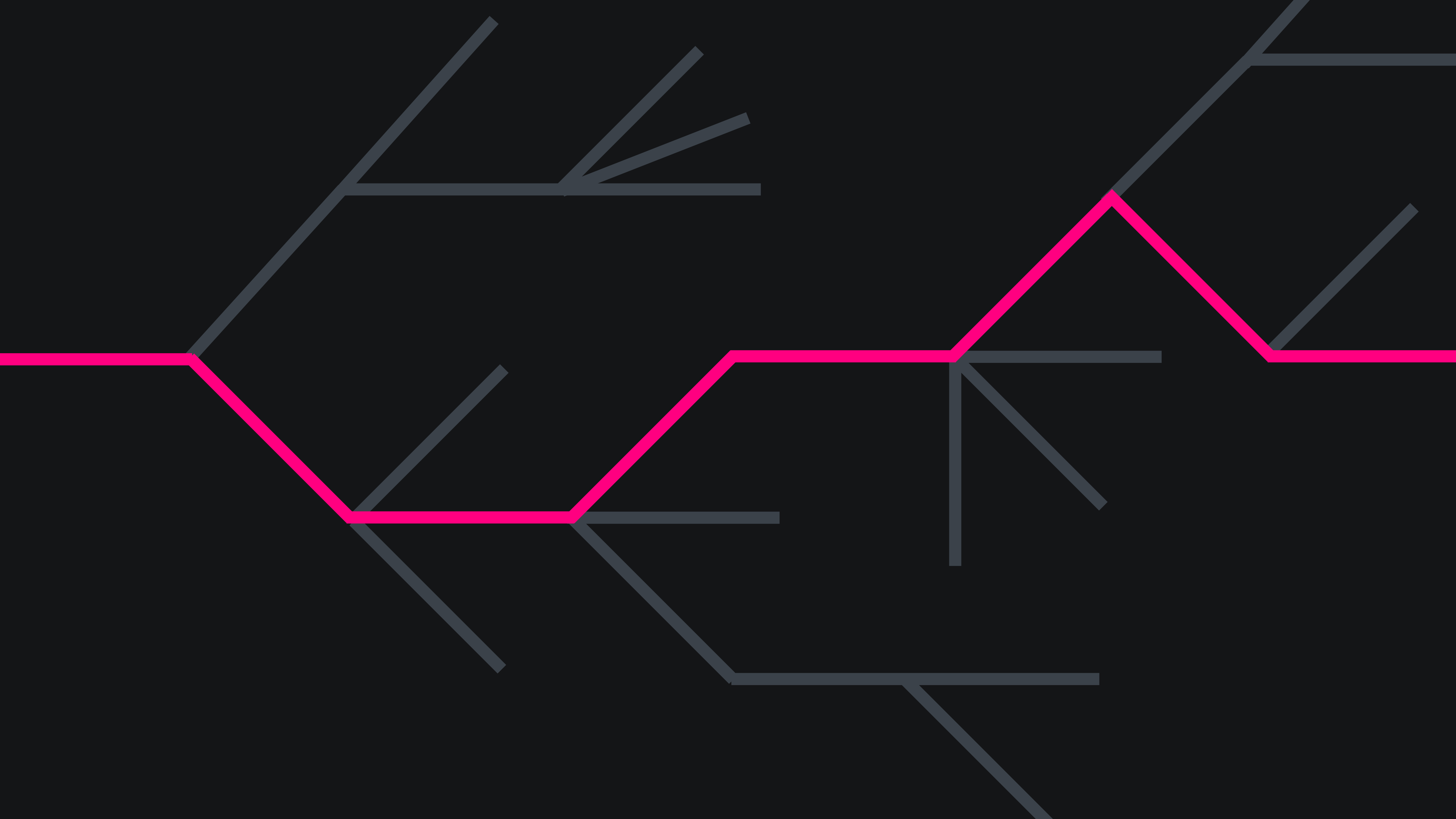
We are still
painting **static**
pictures of
components

The Material

**We have a broken
relationship with
the material**



**We are breaking
the feedback loop**



:has()
Container Queries
min(), max(), clamp()
Custom Properties
Intrinsic Sizing Keywords
Trigonometric Functions
Subgrid
ViewTransitions
Blend Modes
Logical Properties
CSS Filter Effects
Popover API
aspect-ratio
:is() and :where()
@property
conic-gradient()

Animation-start
linear() Easing Function
CSS Motion Path
Anchor Positioning
color()
color-mix()
Scroll Snap
CSS Nesting
light-dark()
overscroll-behavior
touch-action
scroll-behavior
scrollbar-gutter
Variable Fonts
font-palette
text-wrap: balance

**css is now
the most powerful
design tool
for the Web.**

**What
designers
design**

**What's possible
with the Web
platform today**

**What
designers
design**

**What's possible
with the Web
platform today**

“What would happen if we stopped treating the Web like a blank canvas to paint on, and started treating it like a material to build with?”

Frank Chimero, “The Web’s Grain”

<https://frankchimero.com/blog/2015/the-webs-grain/>



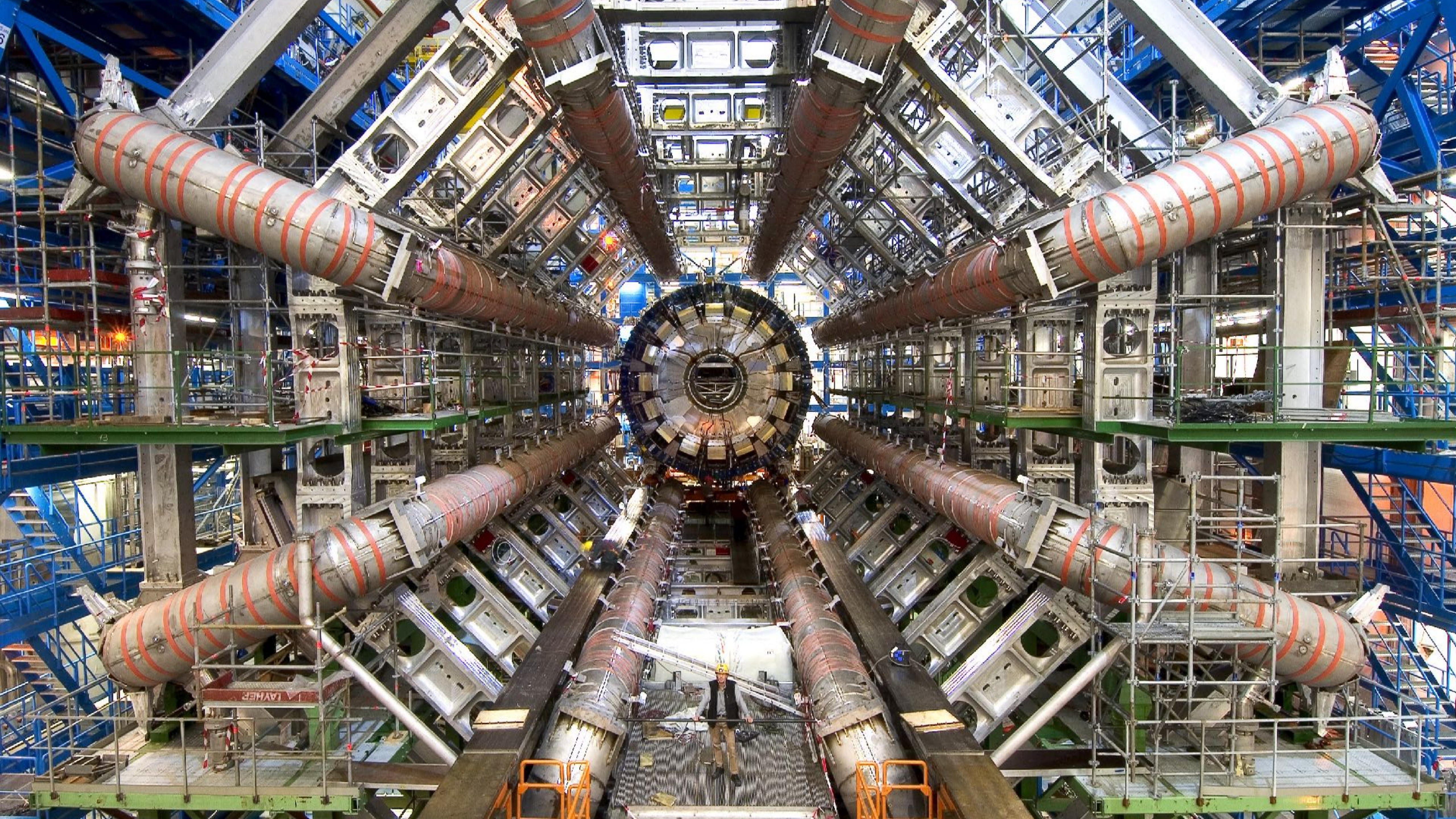
A modern wooden chair with a curved back and seat, positioned behind the text.

**The Web
as a design
material?**

Tim Berners-Lee











Tim Berners-Lee



We should work toward a universal linked information system, in which generality and portability are more important than fancy graphics techniques and complex extra facilities.

Information Management: A Proposal, 1989


```
<div class="max-w-7xl mx-auto px-4 sm:px-6 md:px-8 mt-20 sm:mt-24  
lg:mt-32">  
  <div class="relative row-start-1 col-start-6 xl:col-start-7 col-span-7  
xl:col-span-6">  
    <div class="-mx-4 sm:mx-0">  
      <div class="relative overflow-hidden shadow-xl flex bg-slate-800 h-  
[31.625rem] max-h-[60vh] sm:max-h-[none] sm:rounded-xl lg:h-[34.  
6875rem] xl:h-[31.625rem] dark:bg-slate-900/70 dark:backdrop-blur  
dark:ring-1 dark:ring-inset dark:ring-white/10 !h-auto max-h-[none]  
">  
        web development is my passion  
      </div>  
    </div>  
  </div>  
</div>
```

EIZO



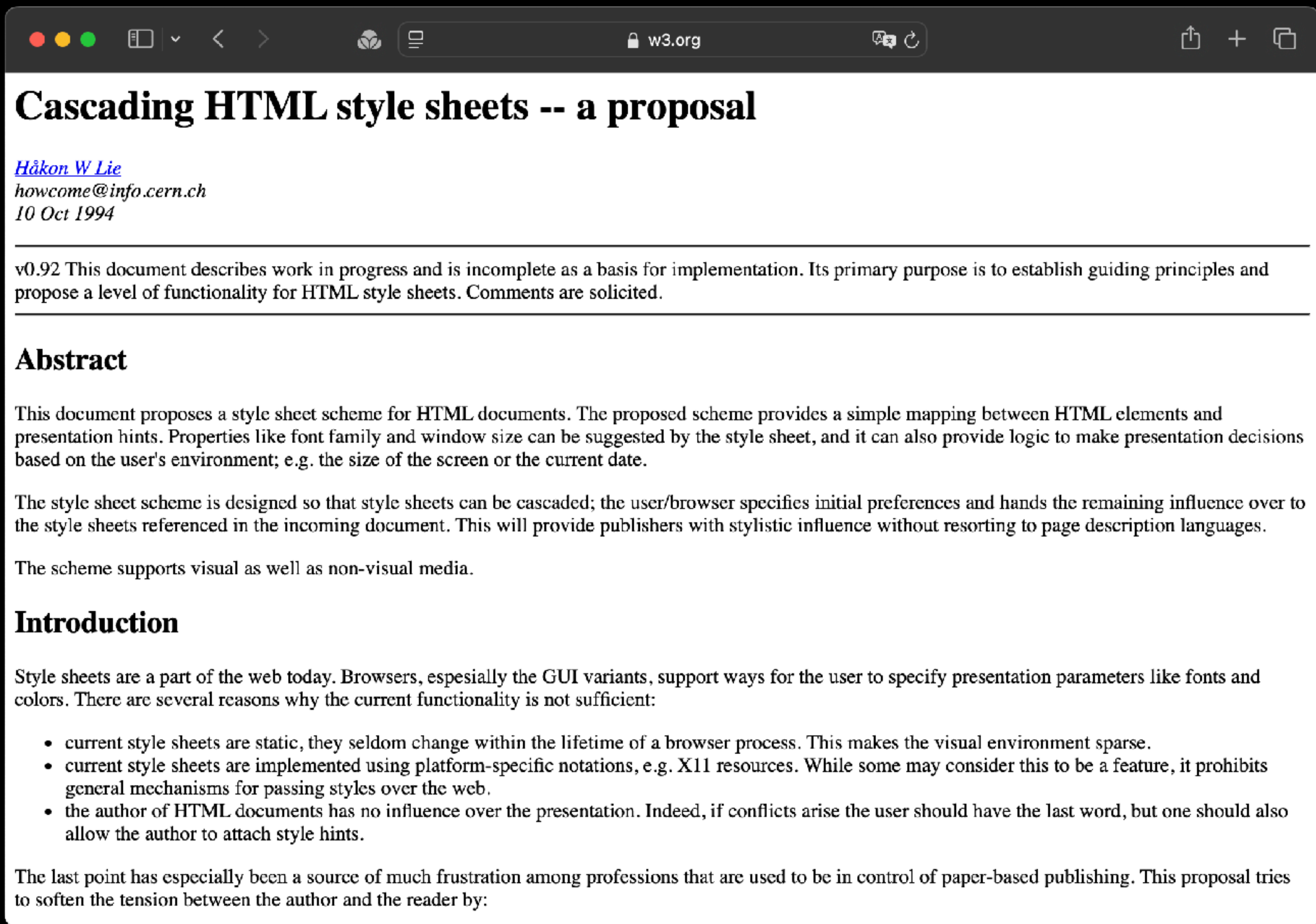
Tim Berners-Lee



Tim Berners-Lee



Håkon Wium Lie



<https://www.w3.org/People/howcome/p/cascade.html>



“Negotiating between the needs and wishes of readers and authors was one of the main ambitions of CSS. If successful, authors would get their fair share of influence over the presentation and would not feel compelled to use presentational HTML and other tricks. Readers, on the other hand, would be served documents in a form in which they could choose between accepting the author’s suggested presentation or specify their own.”

Håkon Wium Lie

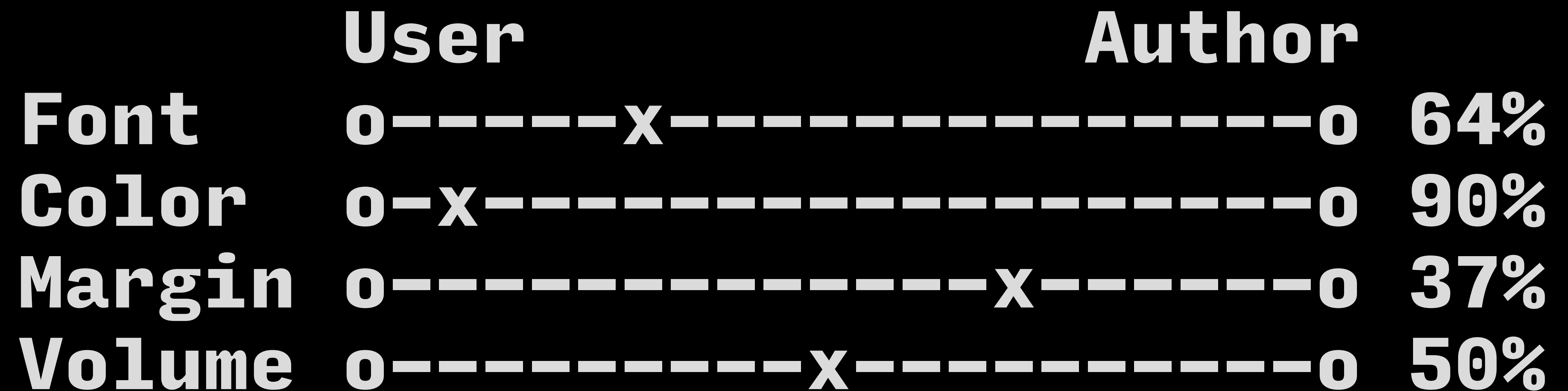
Cascading Style Sheets (PhD Thesis)

<https://www.wiumlie.no/2006/phd/>


```
h1.font.size = 24pt 100%
```


24pt

100%



Ceci n'est pas une fonte.

**Author control
becomes shared
author/user
influence**

The browser
The user
Web authors

“If you use style sheets properly, to suggest
the appearance of a page, not to control the
appearance of a page, and you don’t rely on
your style sheet to convey information, then
your pages will work fine in any browser,
past or future.”

John Allsopp, “A Dao of Web Design”

<https://alistapart.com/article/dao/>





ARTICLES

EVENTS

TOPICS

WRITE FOR US

A LIST APART

A Dao of Web Design

by [John Allsopp](#) · April 07, 2000

Published in [CSS](#), [Layout & Grids](#), [Typography & Web Fonts](#), [Accessibility](#)

What Zen was to the 70's (most famously with motorcycle maintenance), the *Tao Te Ching* was to the 90's. From Piglet and Pooh to Physics and back, many have sought sense in applying the *Tao Te Ching* to something (the *Tao of Physics*), or something to the *Tao Te Ching* (the *Tao of Pooh*). It can be a cheap trick, but lately it has struck me that there is more than a little to be understood about web design by looking through the prism of the Tao.

Daoism is a philosophy, like Buddhism, a way of living, of being in the world, which stems from a text of great antiquity, the *Tao Te Ching*, whose 81 "chapters" enigmatically sweep across human experience, but with a strong common theme, that of harmony.

For the last couple of years, for better or worse, my life has revolved

Share this on



Declarative Design

Jeremy Keith

Photo by Stefan Nitzsche

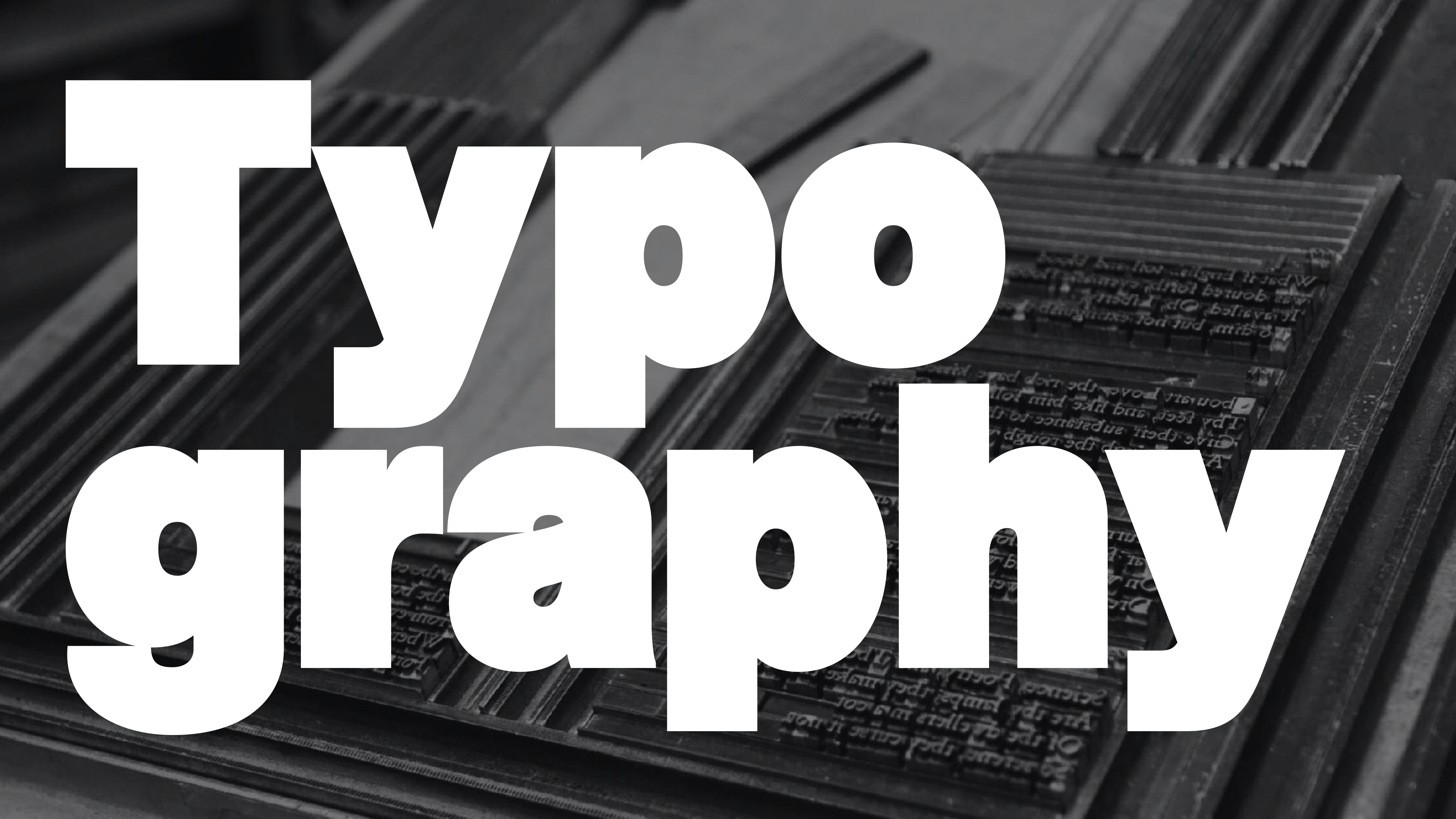


ARIA

■ javascript()

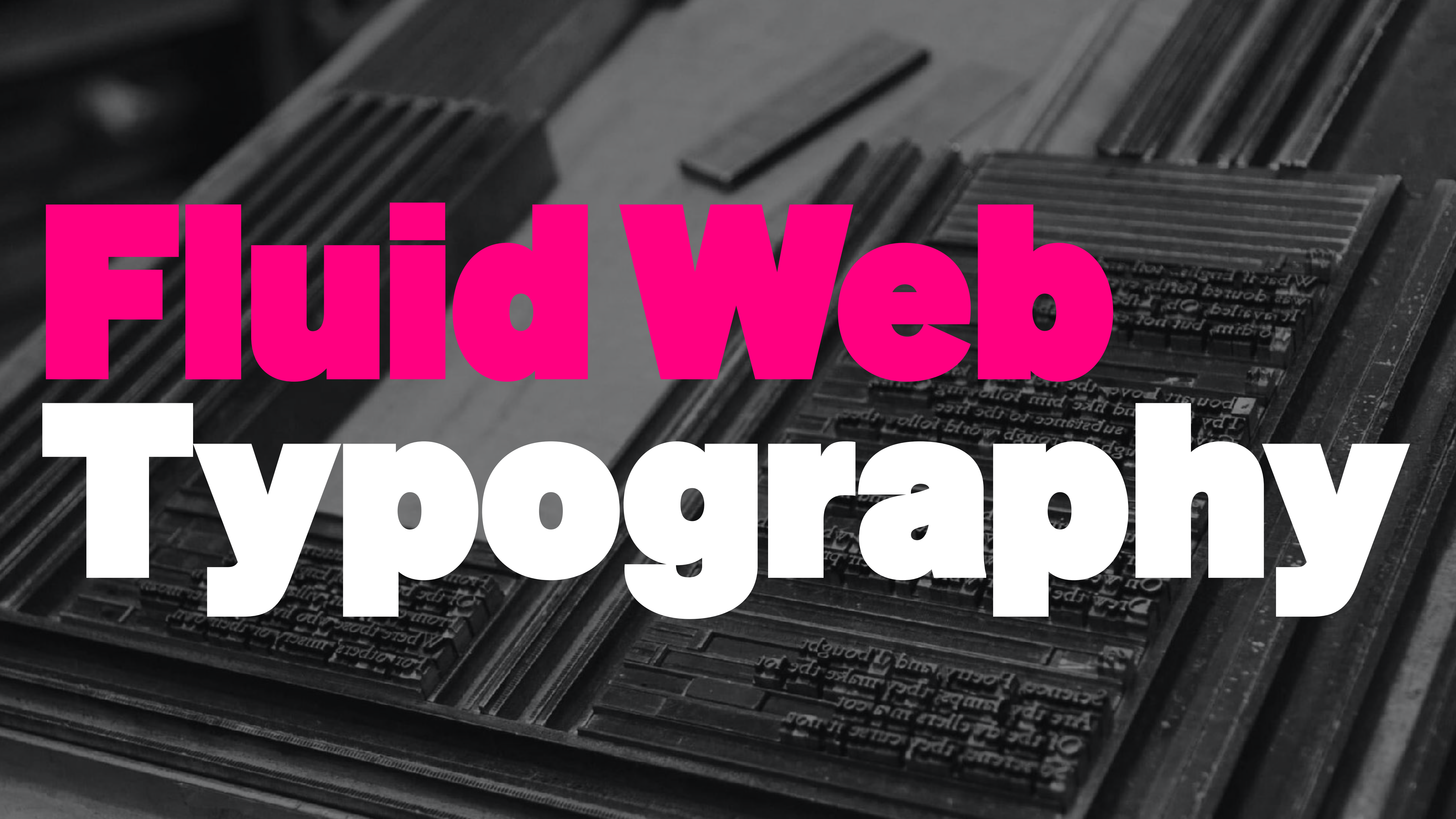
■ .css

<html>

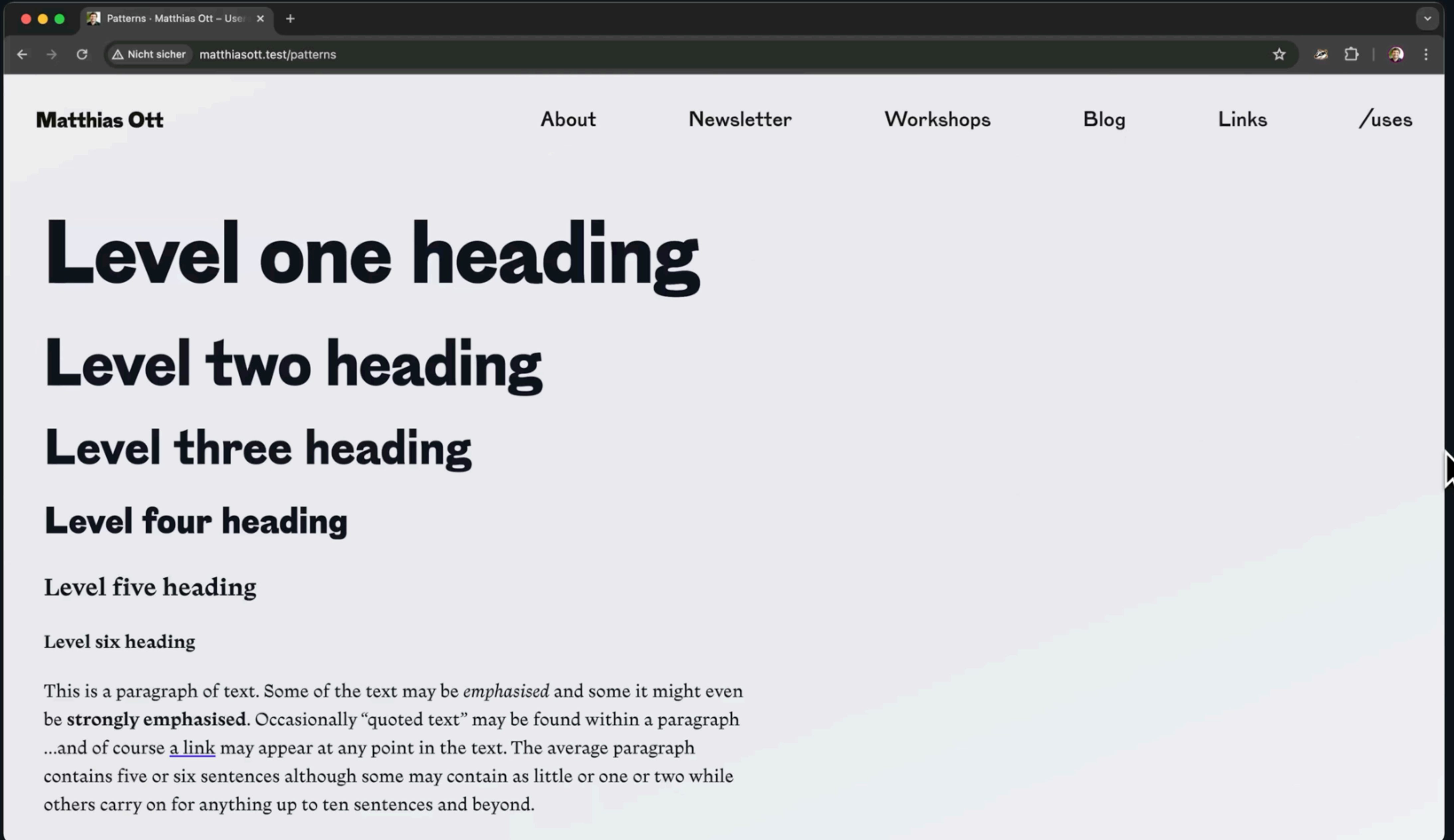


typography


```
font-family: Tausend, Helvetica, Arial, sans-serif;
```

Fluid Web Typography



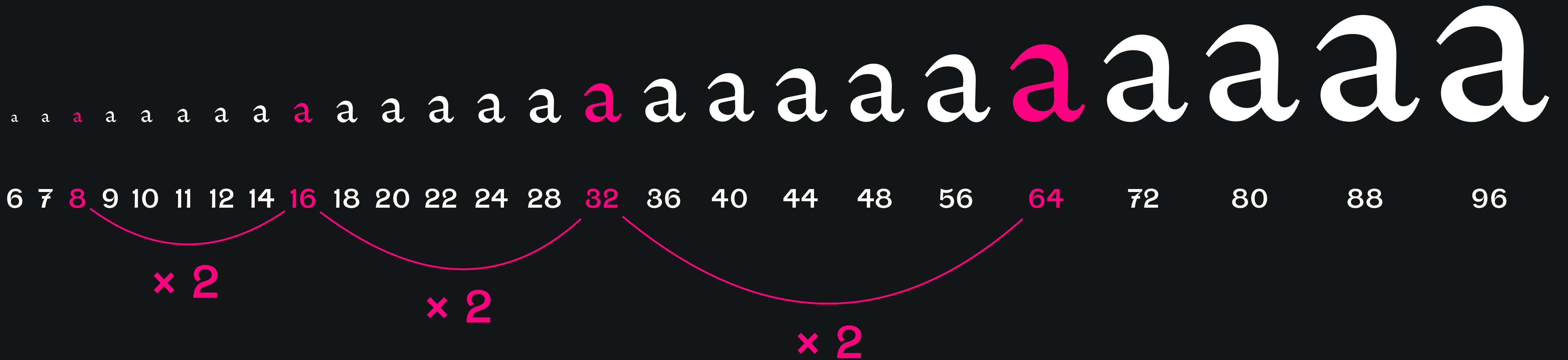

```
font-size: clamp(1rem, 0.6522rem + 1.7391vw, 2rem);
```

min

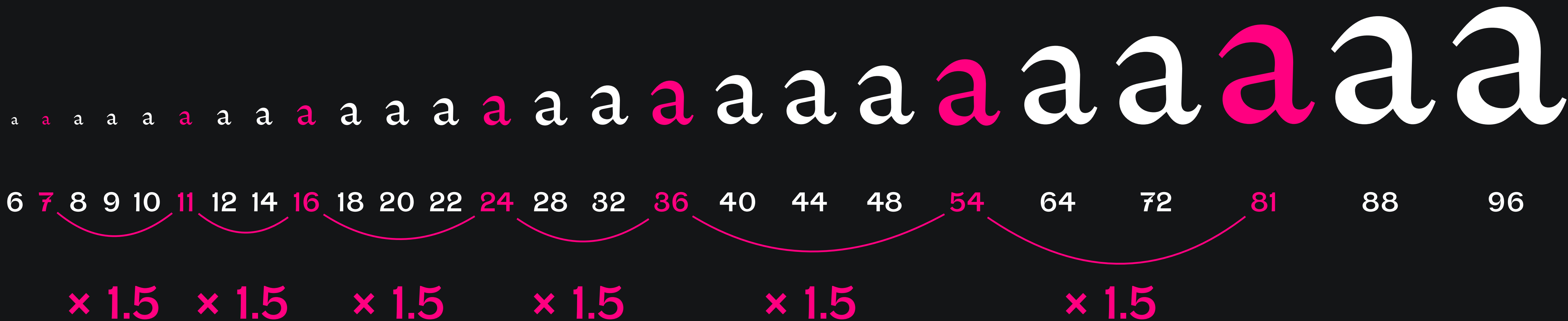
preferred

max

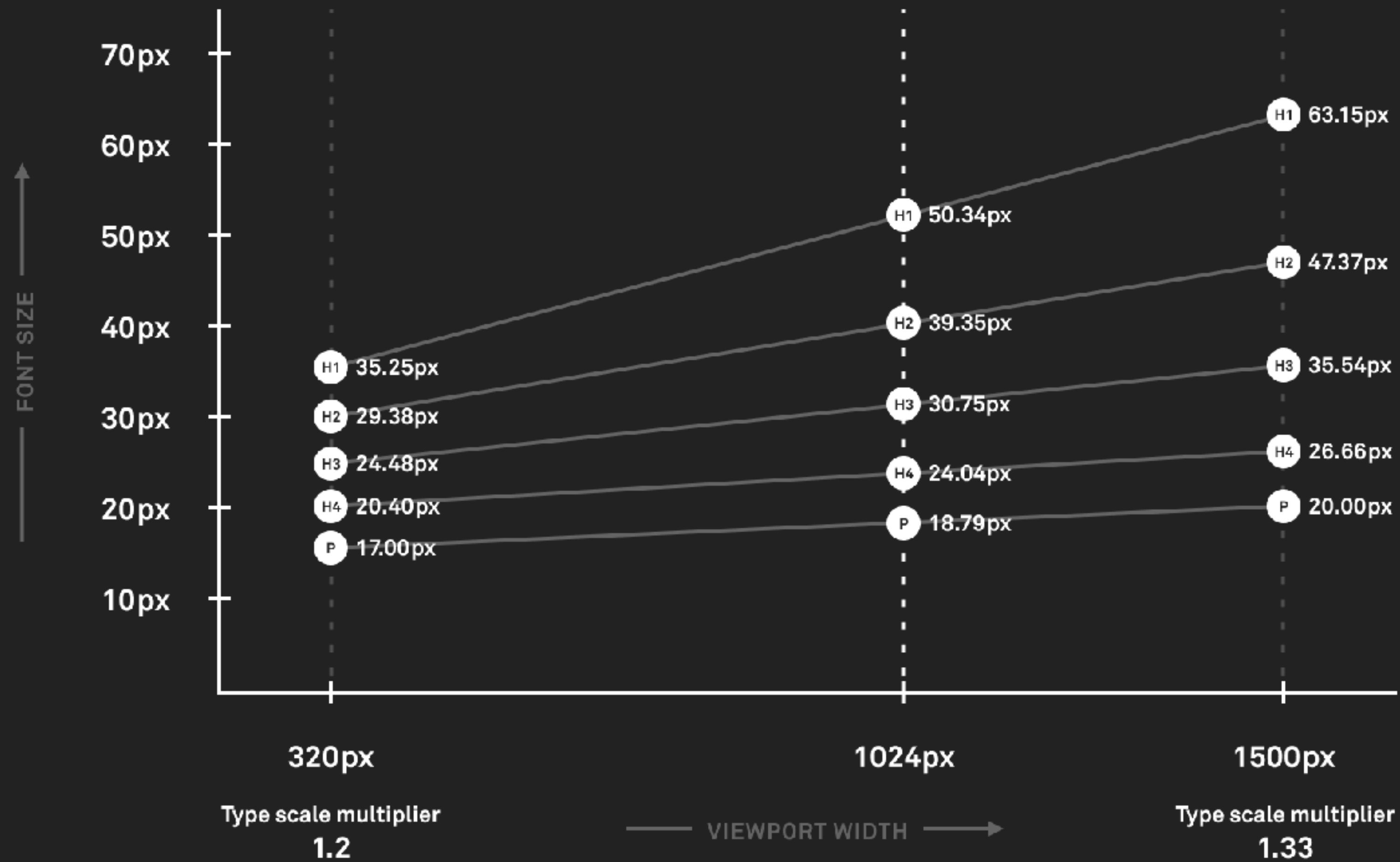
Octave



Perfect Fifth



Interpolation between two typographic scales by viewport width



FLUID TYPE SCALE CALCULATOR

MIN VIEWPORT

Width

320

px

Font size

18

px

Type scale

1.2

Minor Third

MAX VIEWPORT

Width

1240

px

Font size

20

px

Type scale

1.25

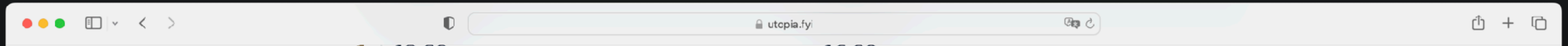
Major Third

CALCULATED FONT SIZES

This table lists font size values in px for your type scales at the min and max viewport widths entered above.

Add a *viewport width* to show its corresponding font size values.

Add a *scale step* to extend your scale up or down.



-1	12.80	16.00
⊖ -2	10.24	10.67
⊕		

CSS Generator

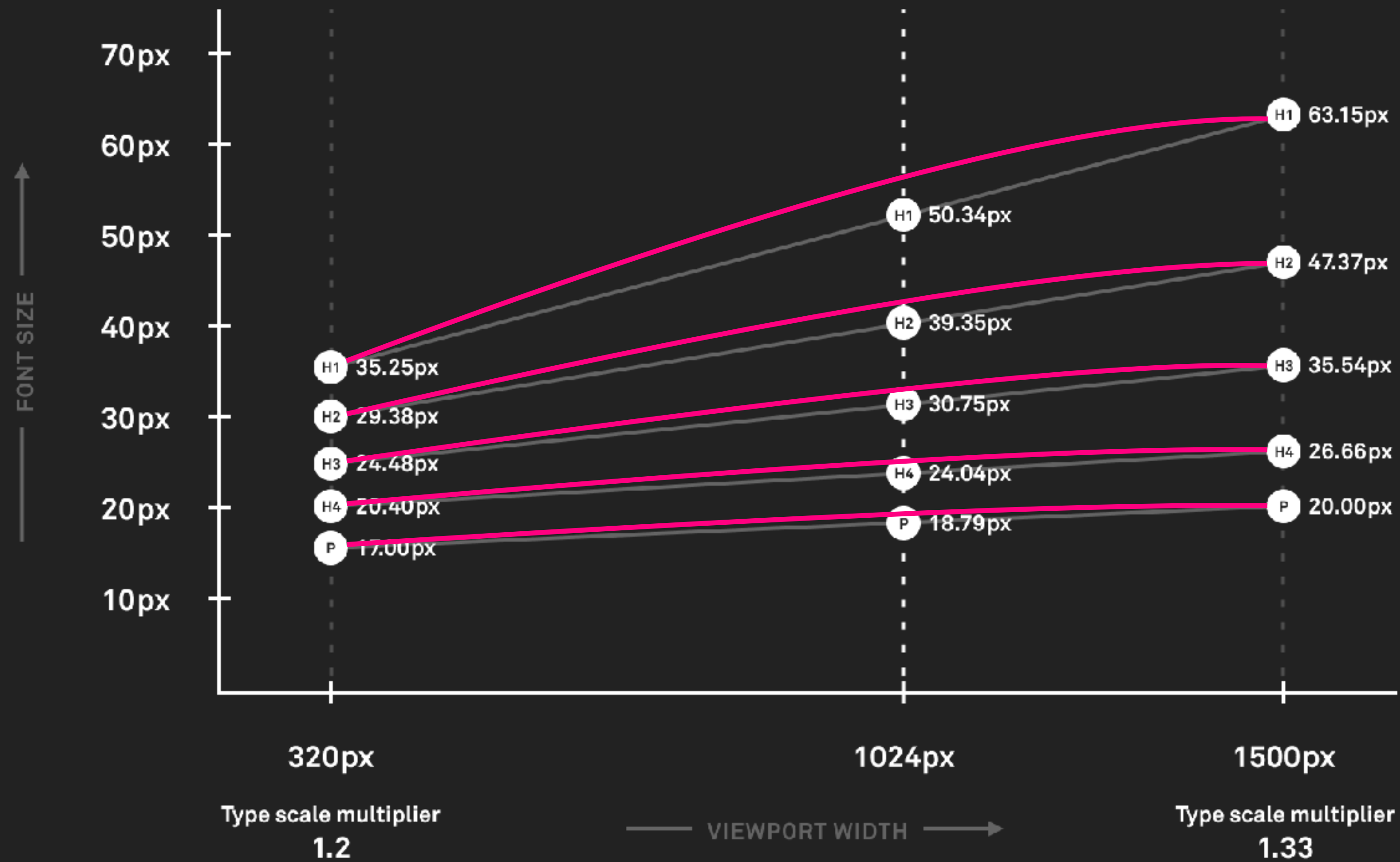
☒ USE CLAMP

```
/* @link https://utopia.fyi/type/calculator?c=320,16,1.25,1140,24,1.5,5,2,&s=0.75|0.5|0.25,1.5|2|3|4|6

:root {
  --step--2: clamp(0.64rem, calc(0.63rem + 0.05vw), 0.67rem);
  --step--1: clamp(0.80rem, calc(0.72rem + 0.39vw), 1.00rem);
  --step-0: clamp(1.00rem, calc(0.80rem + 0.98vw), 1.50rem);
  --step-1: clamp(1.25rem, calc(0.86rem + 1.95vw), 2.25rem);
  --step-2: clamp(1.56rem, calc(0.86rem + 3.54vw), 3.38rem);
  --step-3: clamp(1.95rem, calc(0.74rem + 6.07vw), 5.06rem);
  --step-4: clamp(2.44rem, calc(0.43rem + 10.05vw), 7.59rem);
  --step-5: clamp(3.05rem, calc(-0.20rem + 16.27vw), 11.39rem);
}
```

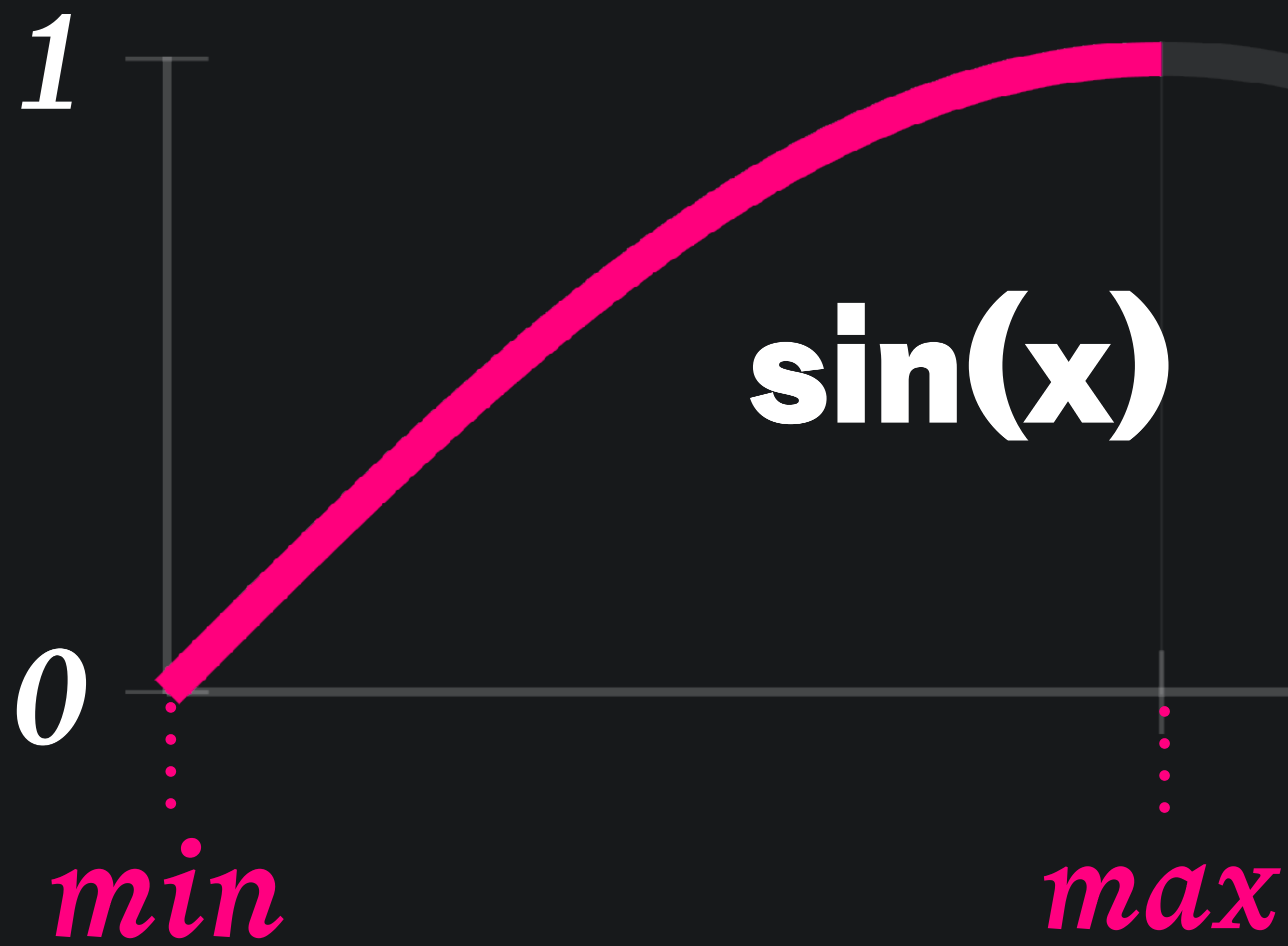
Visualise this scale

Interpolation between two typographic scales by viewport width



$\sin(x)$





`sin()`, `cos()`, `tan()`, `asin()`, `acos()`, `atan()`, and `atan2()`

✓ Baseline 2023



111



111



108



15.4


```
:root {
  --minWidth: 320;
  --maxWidth: 1600;
  --100vw: 100vw;
  --font-size-min: 1rem;
  --font-size-max: 1.5rem;

  /* Current viewport width in pixels without a unit */
  --currentWidth: tan(atan2(var(--100vw), 1px));

  /* This normalizes the value between 0 and 1 */
  --x: clamp(0, calc((var(--currentWidth) - var(--minWidth)) /
    (var(--maxWidth) - var(--minWidth))), 1);

  /* Now we can put our x into the sine function */
  --easeOutSine: sin(var(--x) * pi) / 2);

  /* And calculate our font-size */
  --fluid-font-size: clamp(var(--font-size-min), var(--font-size-min) +
    ( var(--easeOutSine) * (var(--font-size-max) - var(--font-size-min)) ),
    var(--font-size-max));
}
```


Harmonic Fluid Typography

codepen.io/matthiasott/pen/xxNVmGP??editors=0100

Harmonic Fluid Typography
Matthias Ott PRO

Save Settings

Viewport Width: 1057

h1 harmonic fluid typography

h2 harmonic fluid typography

h3 harmonic fluid typography

h4 harmonic fluid typography

h5 harmonic fluid typography

Blank canvasses leant against gallery walls
Flowing towards sculptures of Anything Goes
On the marble stairs
Leading to almost wherever you want them to

HTML

CSS (SCSS)

```
56 --baseFontSizeMin: 1rem;
57 --ratioMin: var(--minorSecond);
58 --minWidth: 320;
59
60 --baseFontSizeMax: 1.3125rem;
61 --ratioMax: var(--augmentedFourth);
62 --maxWidth: 1800;
63
64 /* Which curve do we want to use? */
65 --curve: var(--easeOutSine);
66
67 --currentWidth: calc(100vw / 1vw); /* Not supported in any brows
68
69 /* We are using the property we declared as a <length>, so 100vw
70 --100vw: 100vw;
71 --currentWidth: clamp(var(--minWidth), calc(tan(atan2(var(--100v
72
73 /* This normalizes the value between 0 and 1 */
74 --x: clamp(0, calc((var(--currentWidth) - var(--minWidth)) / (var
75
76 /* Min and max sizes of the scales are calculated based
77 on the provided ratio with pow():
78 https://developer.mozilla.org/en-US/docs/Web/CSS/pow */
79
80 /* Scale min */
81 --size-min-4: calc(var(--baseFontSizeMin) * pow(var(--ratioMin),
82 --size-min-3: calc(var(--baseFontSizeMin) * pow(var(--ratioMin),
83 --size-min-2: calc(var(--baseFontSizeMin) * pow(var(--ratioMin),
84 --size-min-1: calc(var(--baseFontSizeMin) * pow(var(--ratioMin),
85 --size-min-0: calc(var(--baseFontSizeMin) * pow(var(--ratioMin),
86 --size-min--1: calc(var(--baseFontSizeMin) * pow(var(--ratioMin),
87
```

JS

Console Assets Comments Keys

Last saved MAY 31, 2024 — 11:31:06 PM Delete Add to Collection Fork Embed Export Share

**Painting
always has
reality**



Portrait

**Painting
always has
reality**



Landscape

Painting
always has
reality

vh

sqrt(100vw * 100vh)

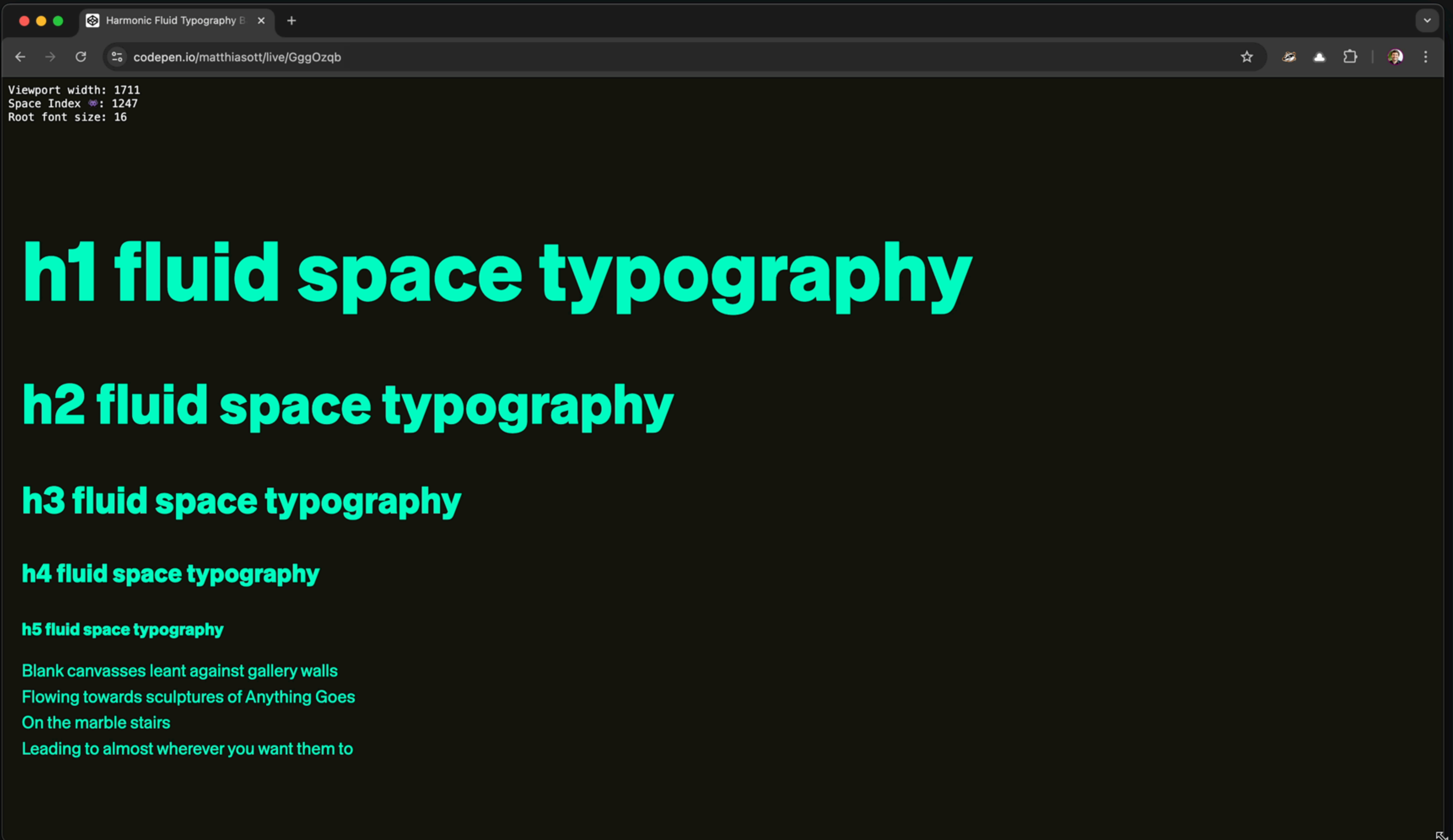
vw

**Painting
always has
reality**

vh

SPACE INDEX

vw



h1 fluid space typography

h2 fluid space typography

h3 fluid space typography

h4 fluid space typography

h5 fluid space typography

Blank canvasses leant against gallery walls
Flowing towards sculptures of Anything Goes
On the marble stairs
Leading to almost wherever you want them to

Gimlet X-Ray

Weight: 300 ————— 900
Width: 64 ————— 100
Oncurve Point Size: 4 ————— 36
Offcurve Point Size: 4 ————— 36
Glyph Outline Weight: 2 ————— 10
Point Outline Weight: 2 ————— 10

An experimental colored version of [Gimlet](#) that exposes what goes on under the hood of a variable font, visualizing control points, bounding boxes, kerning, etc. The design of the underlying typeface and the visualization elements are both adjustable. As with DJR's other color fonts, the default color palette can be customized with a [web-based tool](#). (If the sample here is black and/or doesn't change with the sliders, your browser doesn't fully support variable color fonts yet.)

Tags: [decorative/display](#), [serif](#), [slab serif](#), [color](#), [multiplexed](#), [outline](#), [ornamented](#), [unusual variation](#)

Design: [David Jonathan Ross](#)
Publisher: [DJR, Font of the Month Club](#)
Characters: [Latin](#)
Released: 2020-01-01
Licensing: [Trial](#), [Paid/commercial](#)
Info/fonts: [djr.com](#)



000	300	600	900	C00	*F00*
003	303	603	903	C03	*F03*
006	306	606	906	C06	F06
009	309	609	909	C09	F09
00C	30C	60C	90C	C0C	F0C
00F	30F	60F	90F	C0F	*F0F*
030	330	630	930	C30	F30
033	333	633	933	C33	F33
036	336	636	936	C36	F36
039	339	639	939	C39	F39
03C	33C	63C	93C	C3C	F3C
03F	33F	63F	93F	C3F	F3F
060	360	660	960	C60	F60
063	363	663	963	C63	F63
066	366	666	966	C66	F66
069	369	669	969	C69	F69
06C	36C	66C	96C	C6C	F6C
06F	36F	66F	96F	C6F	F6F
090	390	690	990	C90	F90
093	393	693	993	C93	F93
096	396	696	996	C96	F96
099	399	699	999	C99	F99
09C	39C	69C	99C	C9C	F9C
09F	39F	69F	99F	C9F	F9F
0F0	3F0	*6F0*	9F0	CF0	*FF0*
0F3	*3F3*	*6F3*	9F3	CF3	*FF3*
0F6	*3F6*	6F6	9F6	*CF6*	*FF6*
0F9	3F9	6F9	9F9	CF9	FF9
0FC	*3FC*	6FC	9FC	CFC	FFC
0FF	*3FF*	*6FF*	9FF	CFF	*FFF*

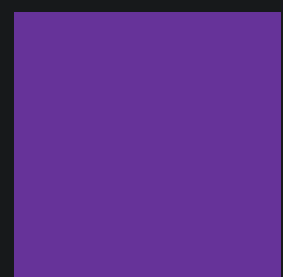
Color

Color

Color

Color

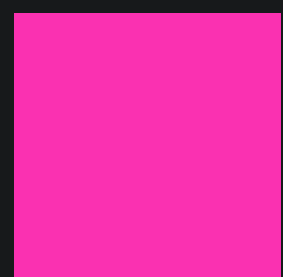
Color



rebeccapurple



#E646AE



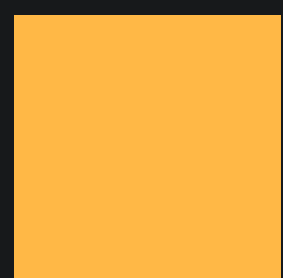
rgb(230 70 174)



rgba(0.6 153 153 / 0.9)



hsl(233.16deg 100% 69.2%)



hwb(35.05deg 36.4% 0%)

CIE 1931



CIE 1931

sRGB



CIE 1931

P3

sRGB



Color profile settings



Preferred color profile:

☐ sRGB ☒ Display P3

Best for Apple devices, Display P3 has a broader color spectrum—but isn't recommended for web design.

This preference applies to new Figma files. [Learn more](#)

Your display supports Display P3.

oklch


```
ok1ch(0.7 0.3357 340.8854)
```

```
ok1ch(0.7 0.3357 340.8854 / 50%)
```



```
:root {  
  --pink: rgb(255 26 211);  
}  
  
@supports (color: oklch(0.7 0.3357 340.8854)) {  
  :root {  
    --pink: oklch(0.7 0.3357 340.8854);  
  }  
}  
  
.pool {  
  --background-color: var(--pink);  
}
```


Gradient in sRGB

`linear-gradient(in srgb to right, #ff48c0, #00ade5)`



Gradient in Oklab

`linear-gradient(in oklab to right, oklch(70% 0.315 345), oklch(70% 0.18 231))`



Gradient in Oklch

`linear-gradient(in oklch to right, oklch(70% 0.315 345), oklch(70% 0.18 231))`



OKLCH Color Picker & Converter



☐ `oklch(0.7 0.3357 340.8854)`

☐ `#ff1ad3`

Closest fallback (by chroma) in sRGB

OKLCH

LCH

Made at Evil Martians,
devtools building consultancy.
By Andrey Sitnik & Roman Shamin



Why OKLCH is better than RGB and HSL



evilmartians / oklch-picker



Show 3D



Show graphs



Show P3



Show Rec2020

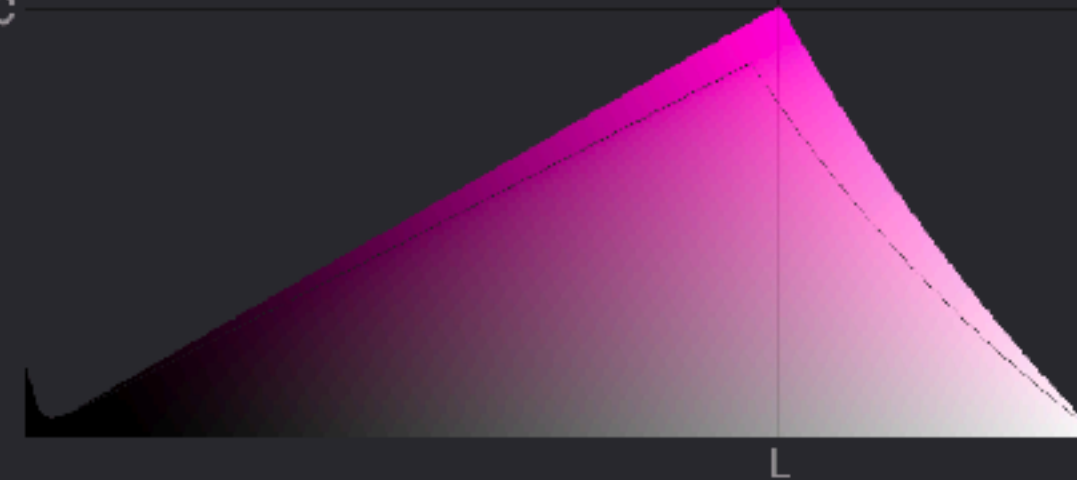


Lightness

L

0.6987

C

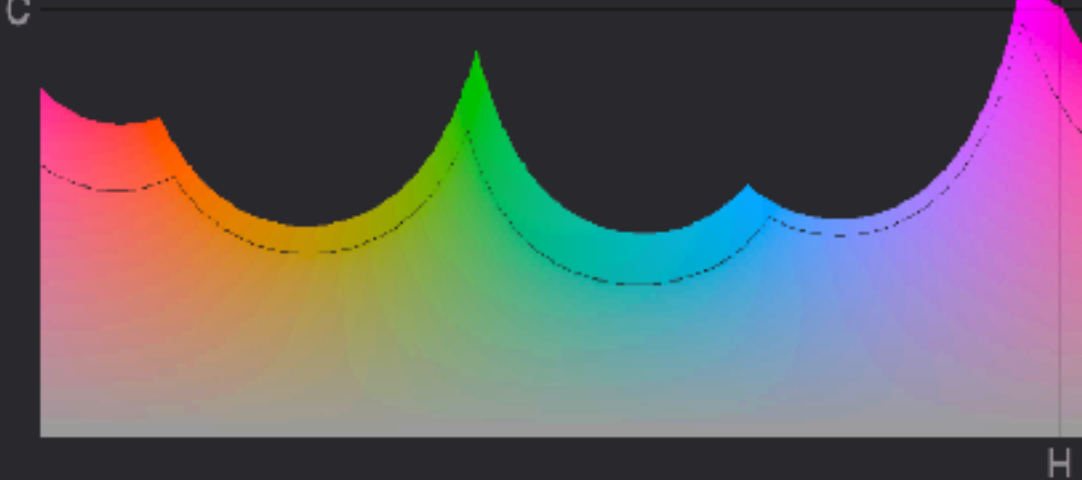


Chroma

C

0.3357

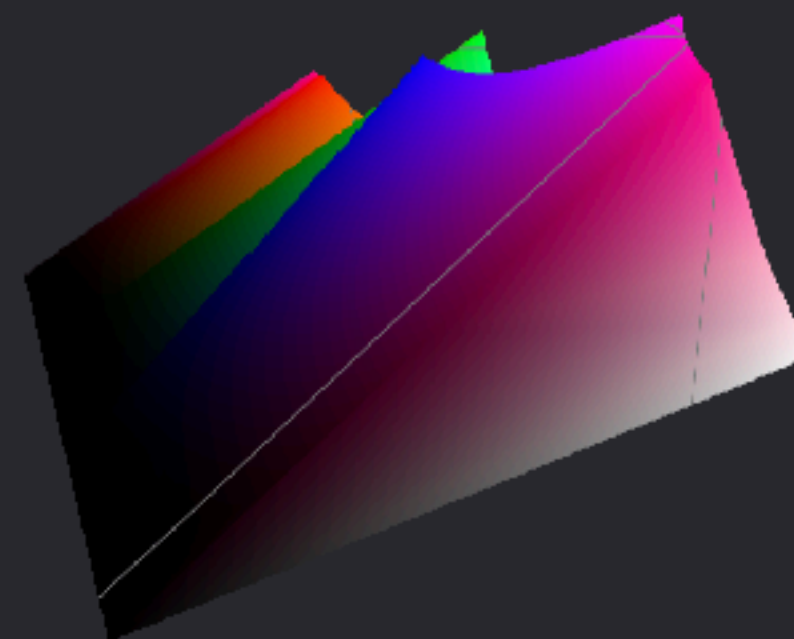
C



H

3D

↗

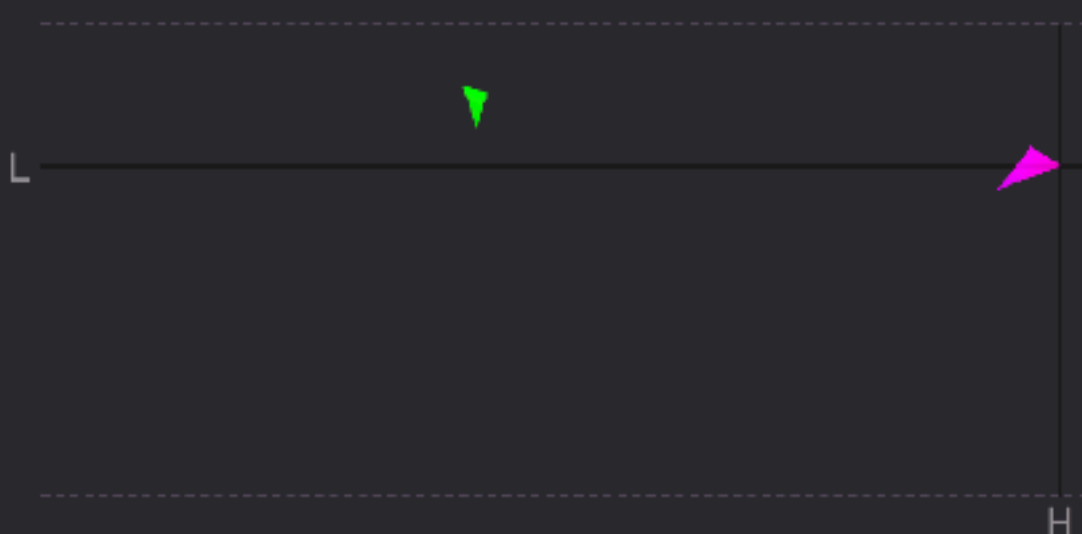


Hue

H

340.885

L



H

Alpha

A

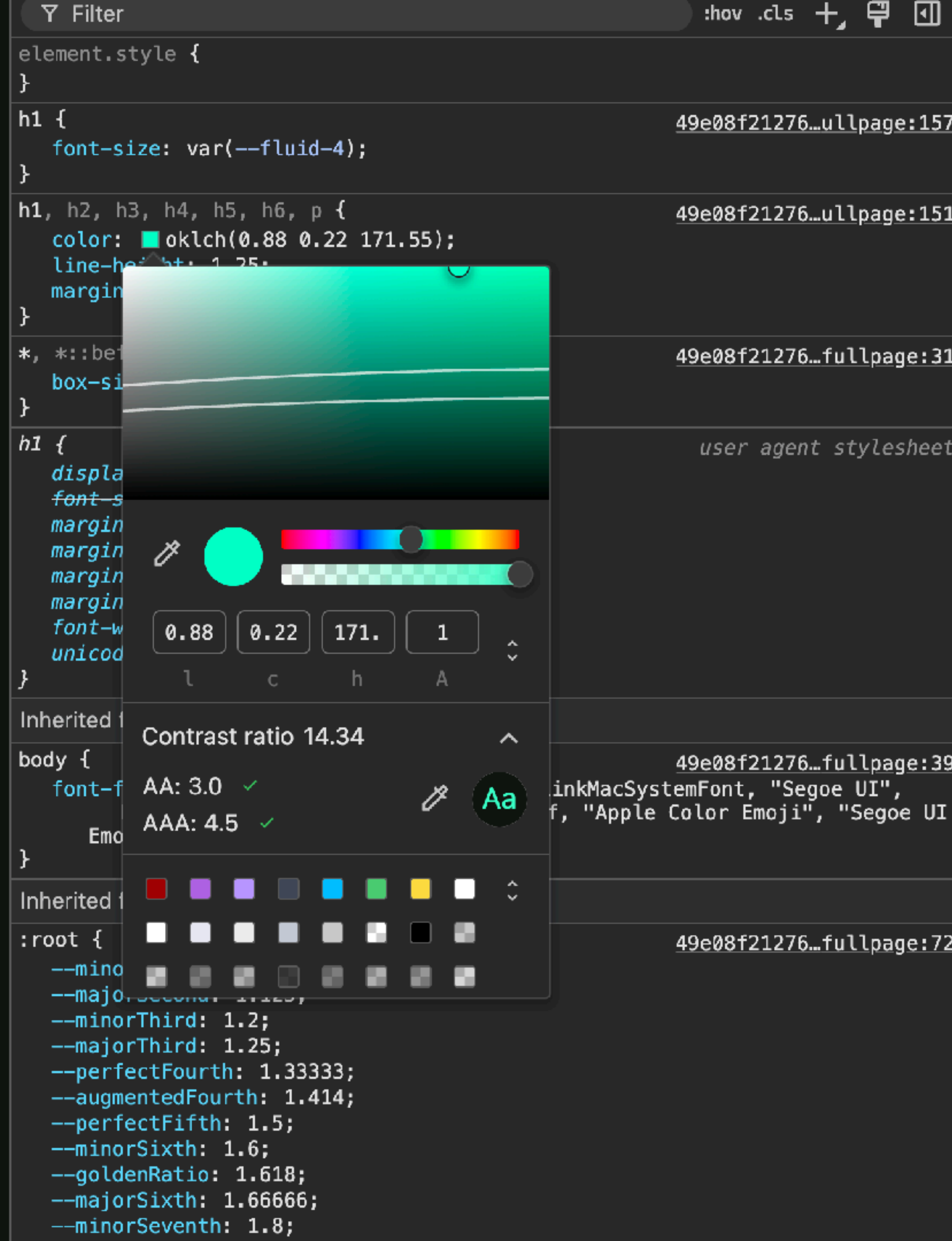
100

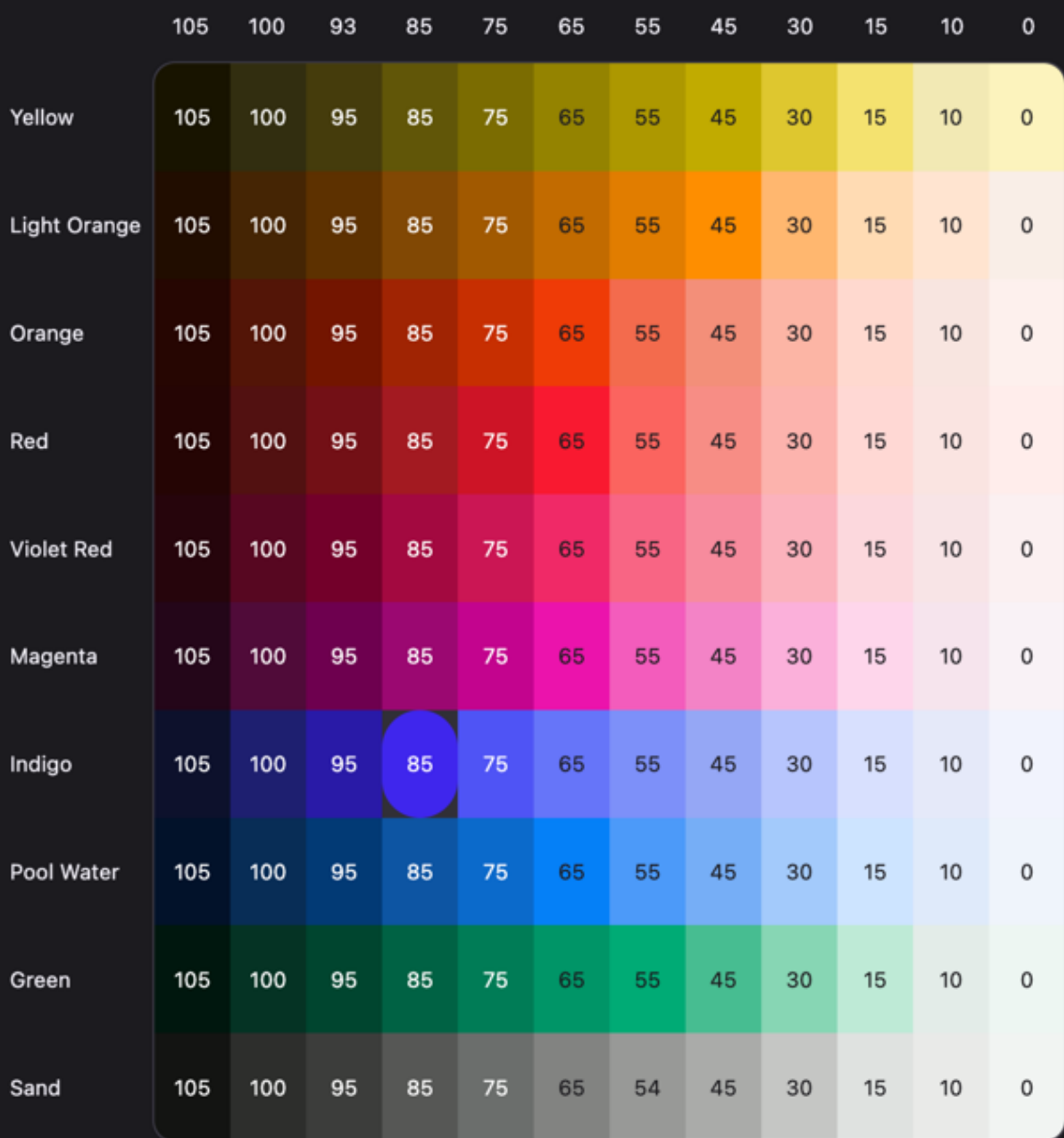


oklch.com

Typography

hy





Shortcuts

← ↑ → ↓ – navigate the palette

L + ↑ or ↓ – change the lightness value of selected color

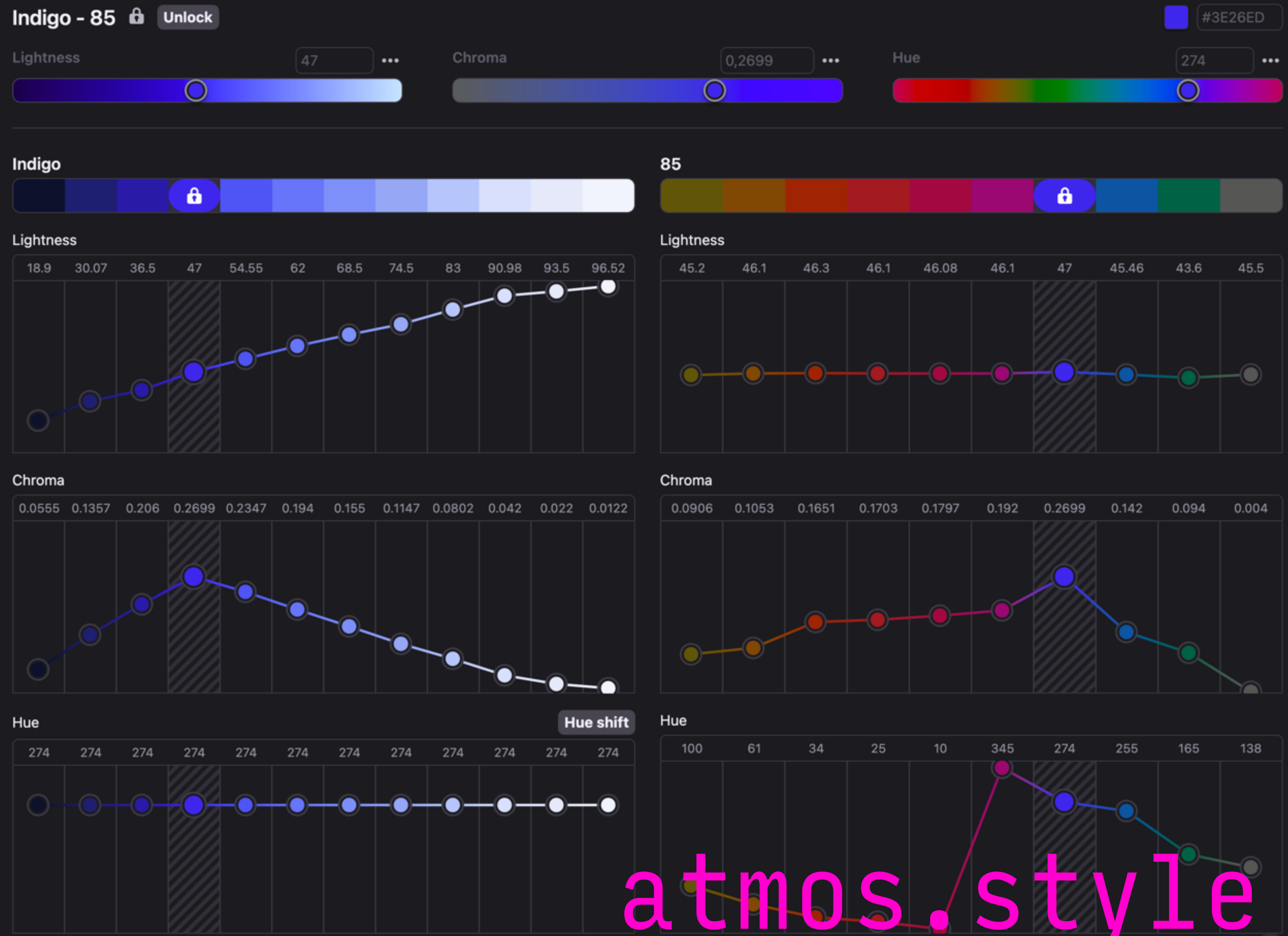
C + ↑ or ↓ – change chroma value of selected color

H + ↑ or ↓ – change hue value of selected color

Hold ⌘ and drag any color dot – move values of the whole chart

Press ⌥ while dragging color dot - disable rounding to 0.5

[See all shortcuts](#)



atmos.style ?

Relative Colors

✓ Baseline 2024



119



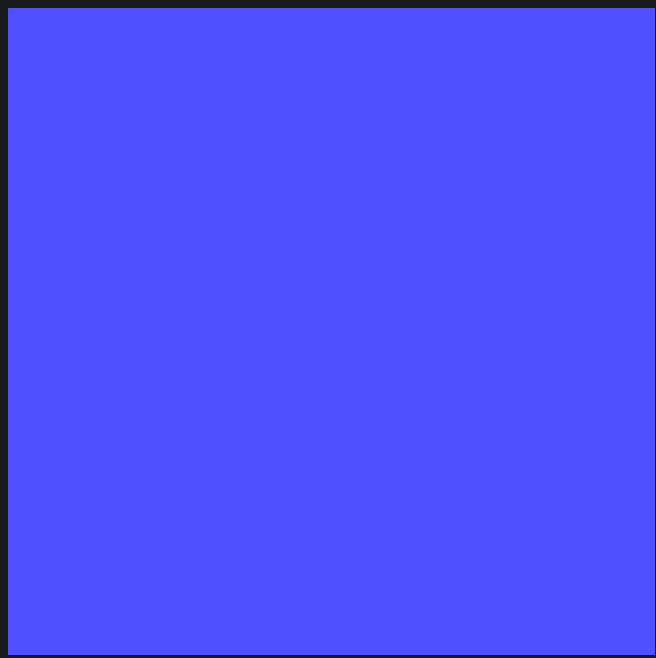
119



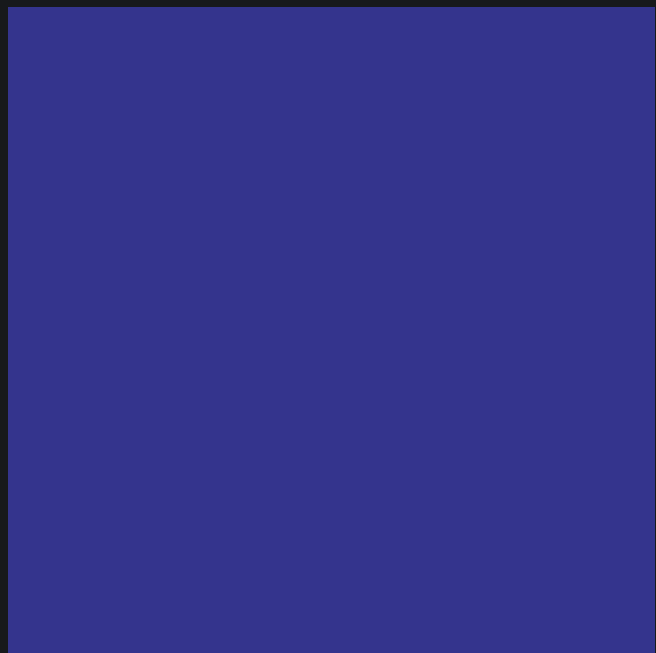
128



16.4



```
oklch(from var(--indigo) 1 c h);
```



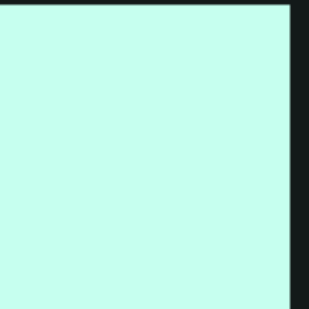
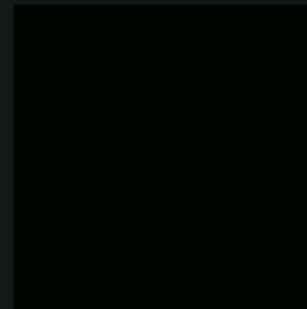
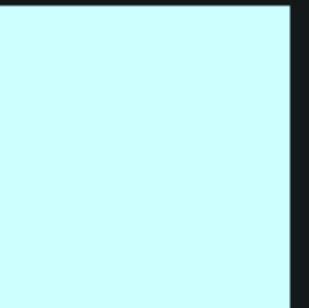
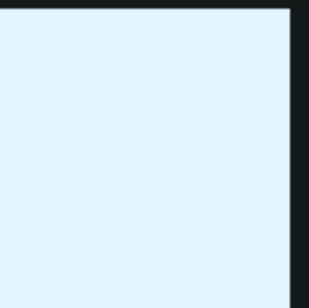
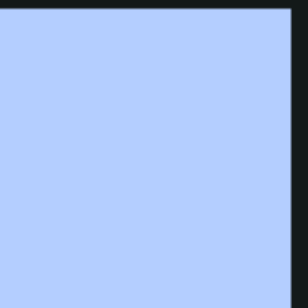
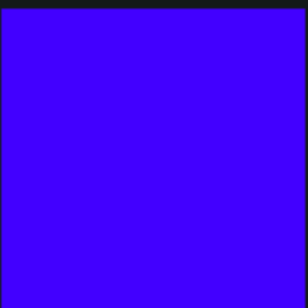
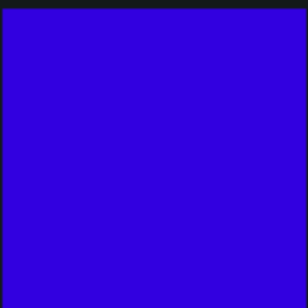
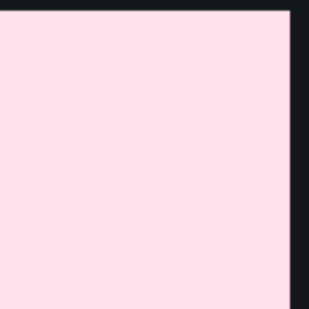
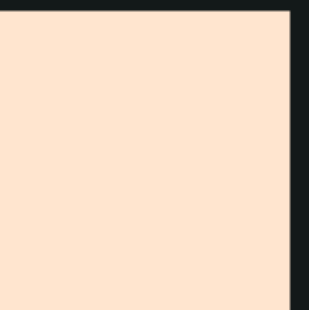
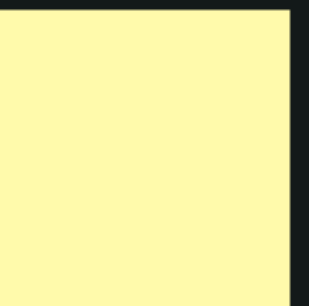
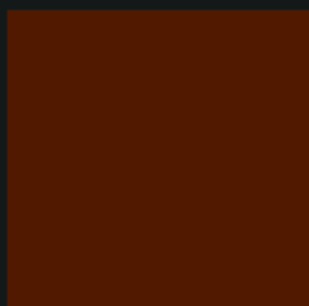
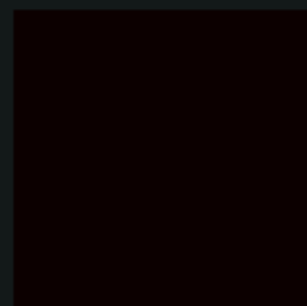
```
oklch(from var(--indigo) 1 c h / 50%);
```




`--indigo: oklch(56.6% 0.27 274);`

`--indigo-10: oklch(from var(--indigo) 10% c h);`
`--indigo-20: oklch(from var(--indigo) 20% c h);`
`--indigo-30: oklch(from var(--indigo) 30% c h);`
`--indigo-40: oklch(from var(--indigo) 40% c h);`
`--indigo-50: oklch(from var(--indigo) 50% c h);`
`--indigo-60: oklch(from var(--indigo) 60% c h);`
`--indigo-70: oklch(from var(--indigo) 70% c h);`
`--indigo-80: oklch(from var(--indigo) 80% c h);`
`--indigo-90: oklch(from var(--indigo) 90% c h);`
`--indigo-100: oklch(from var(--indigo) 100% c h);`





FCK
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AFD





Okay, Color Spaces

February 20, 2024

Colors... *in... spaaaaaaace*

What is a “color space?”

Well first you take some *colors*.

-  red
-  yellow
-  blue

And then you arrange them, however you like, into some kind of *space*:

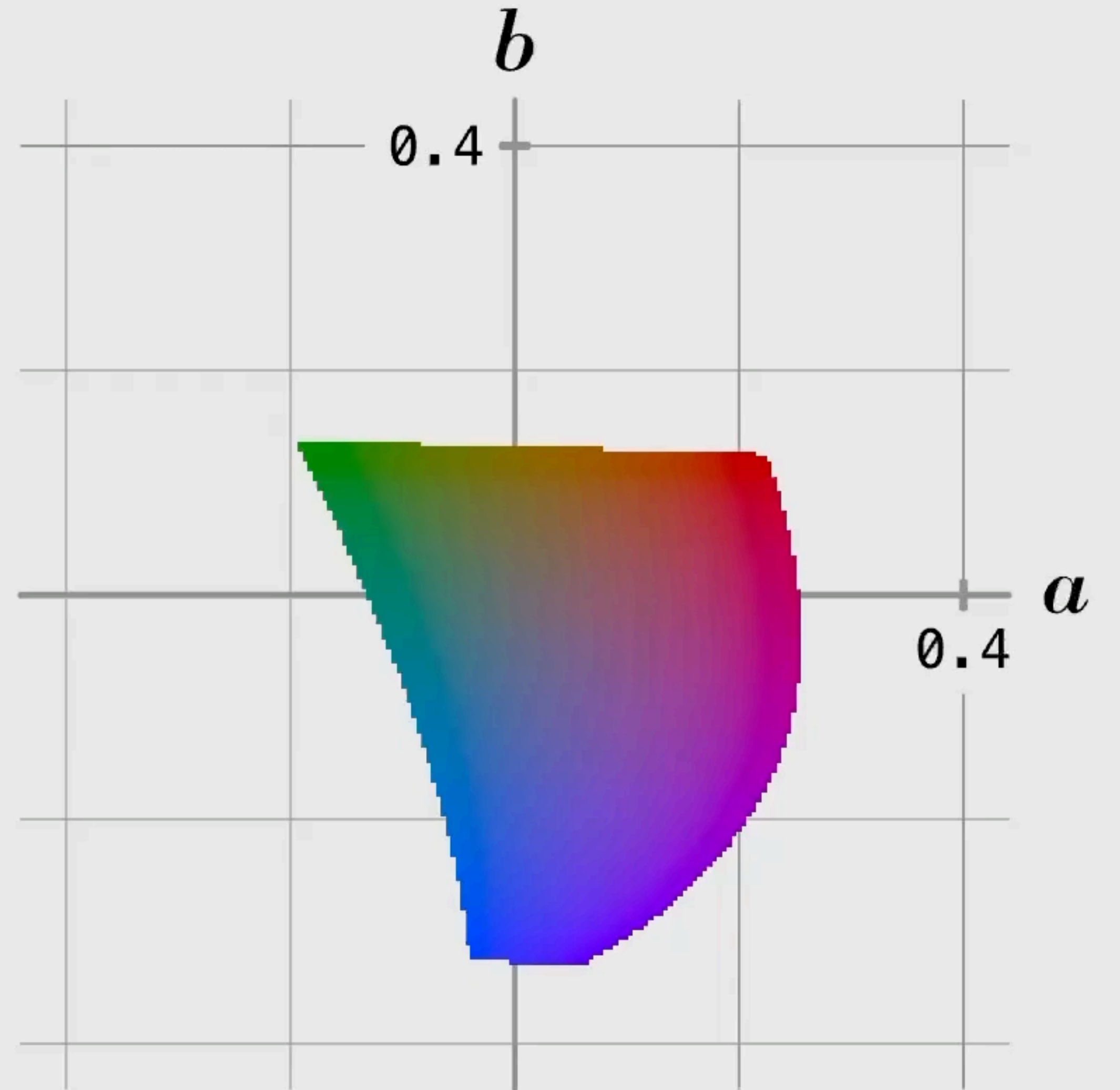
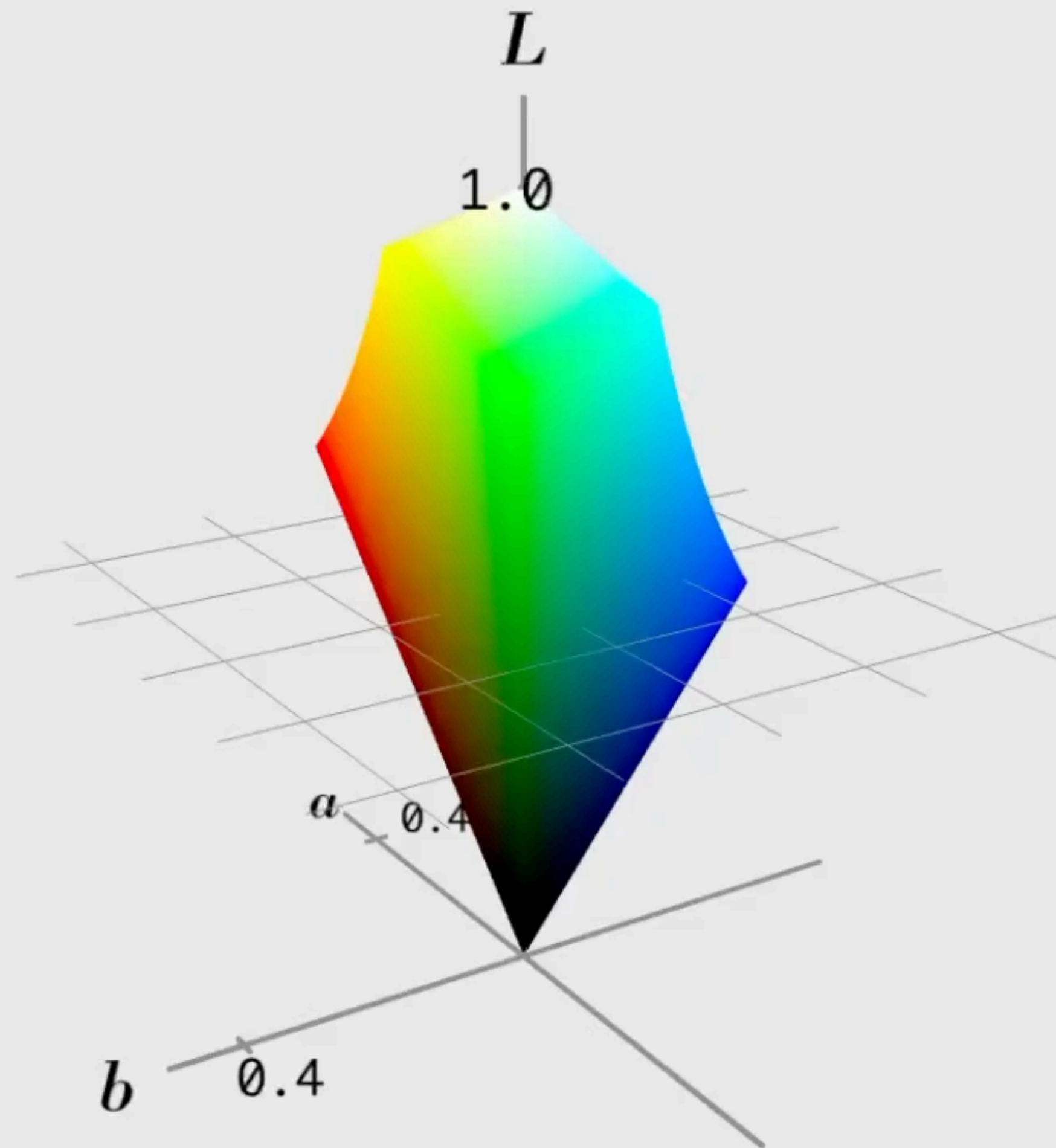
y

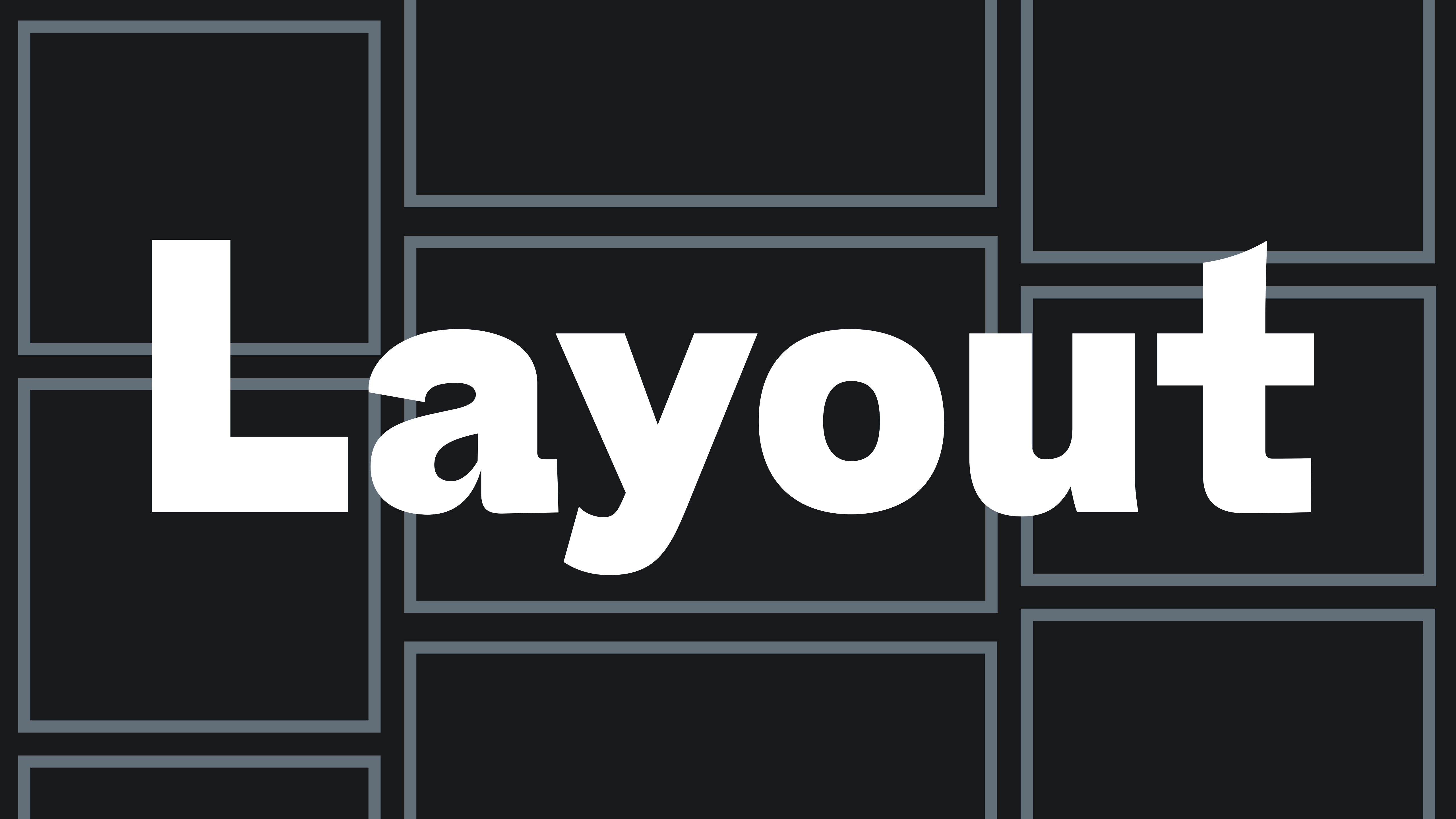


<https://ericportis.com/posts/2024/okay-color-spaces/>

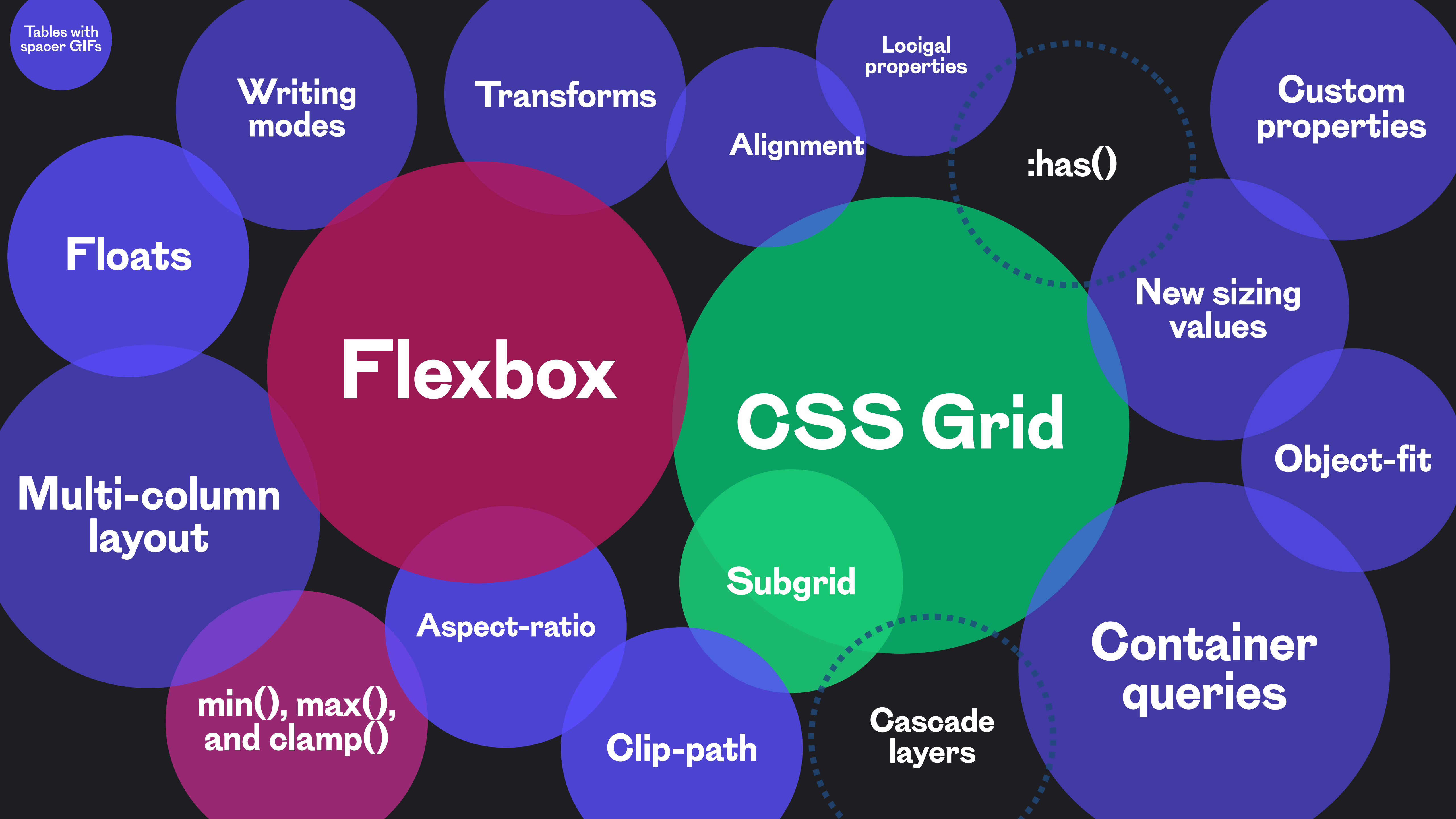
Cross section L

0.5





Layout



Tables with
spacer GIFs

Writing
modes

Transforms

Locical
properties

Custom
properties

Alignment

:has()

New sizing
values

Object-fit

Container
queries

Cascade
layers

Subgrid

Clip-path

Aspect-ratio

min(), max(),
and clamp()

Flexbox

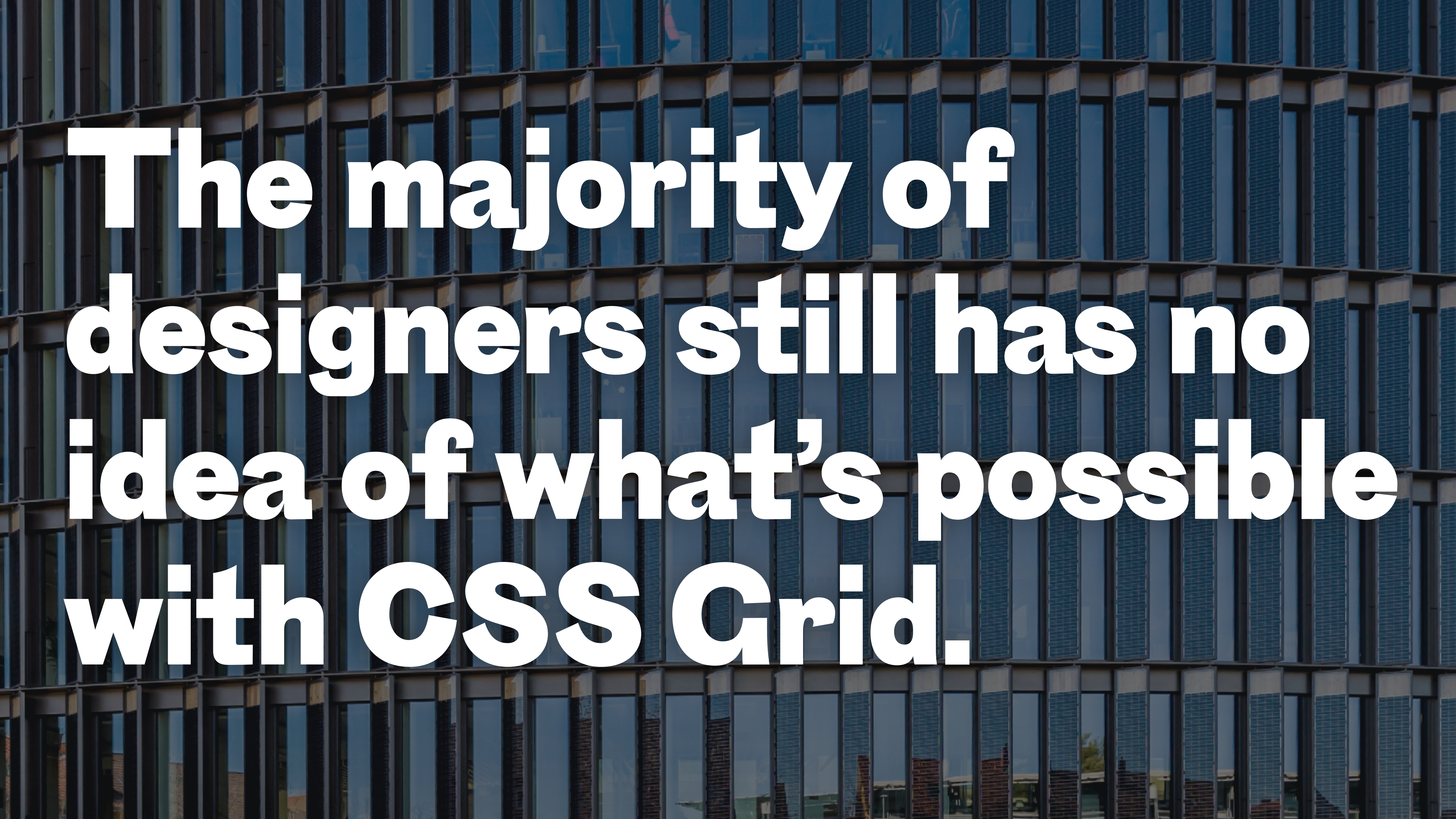
CSS Grid

Floats

Multi-column
layout



css Grid



**The majority of
designers still has no
idea of what's possible
with CSS Grid.**

Grid Playground - Auto-fill

codepen.io/matthiasott/pen/ZEZgLBP/942211a4b46711c3ef380f73ae970e80?editors=0100

Grid Playground - Auto-fill
Matthias Ott PRO

Save Settings

HTML

CSS (SCSS)

```
20
21 .grid {
22   display: grid;
23   grid-auto-flow: dense;
24   gap: 1rem;
25   grid-template-columns: repeat(auto-fill, minmax(min(100%, 200px), 1fr));
26   transition: all .2s ease;
27 }
28
29 .card {
30   background-color: #594DFF;
31   border-radius: 0.5rem;
32   aspect-ratio: 16/9;
33   transition: all .2s ease;
34 }
35
36
```

JS

1042px

Console

Assets

Comments

% Keys

Last saved VOR 3 WOCHEN

Delete

Add to Collection

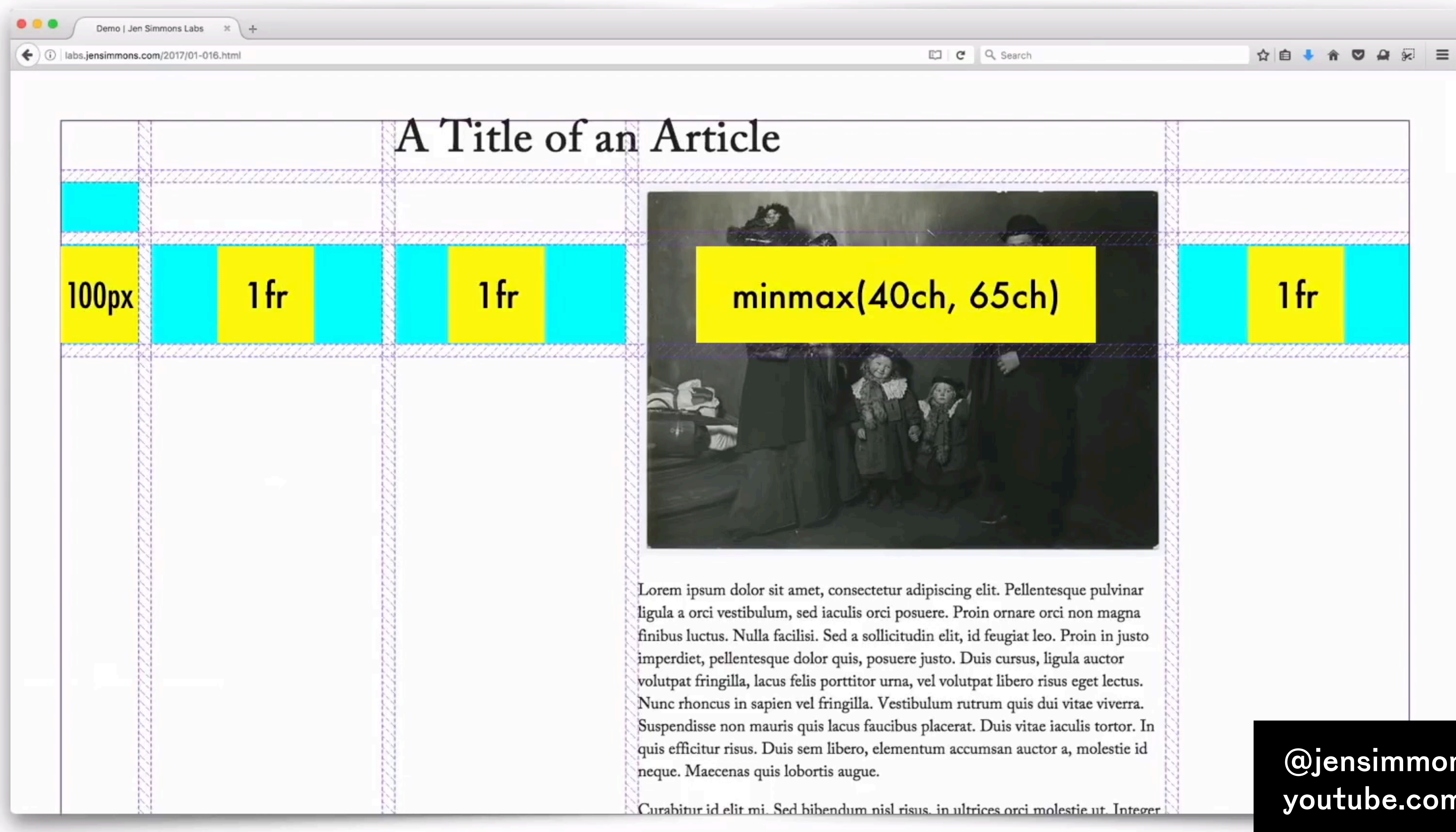
Fork

Embed

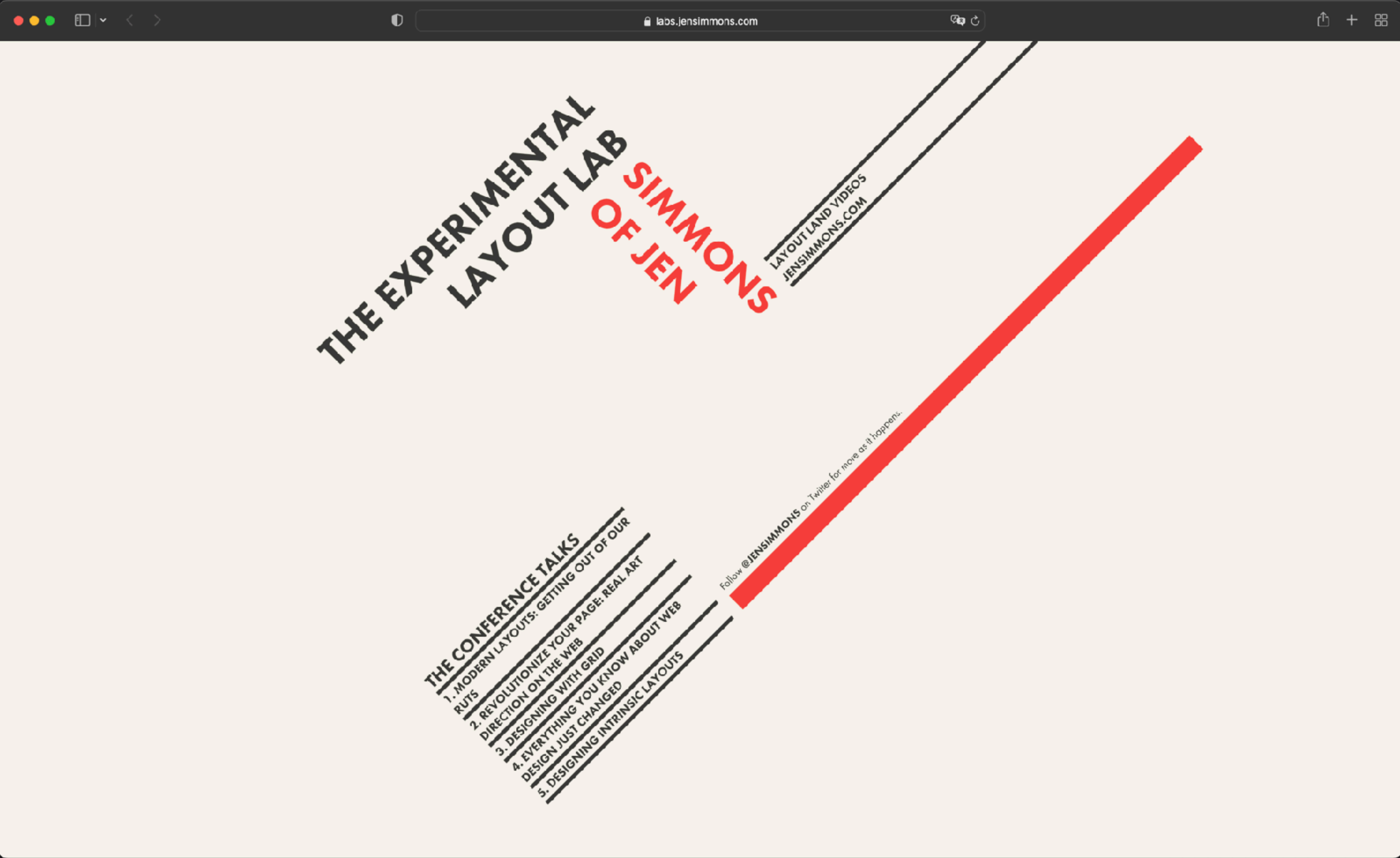
Export

Share


```
grid-template-columns: repeat(auto-fill, minmax(200px, 1fr));
```

grid-template-columns: 100px 1fr 1fr minmax(40ch, 65ch) 1fr;



final

final

response 2

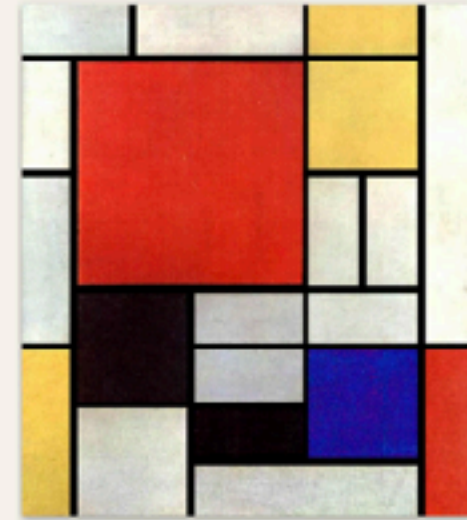
explicitly placed

overlapping & ratio-based array

so next class...



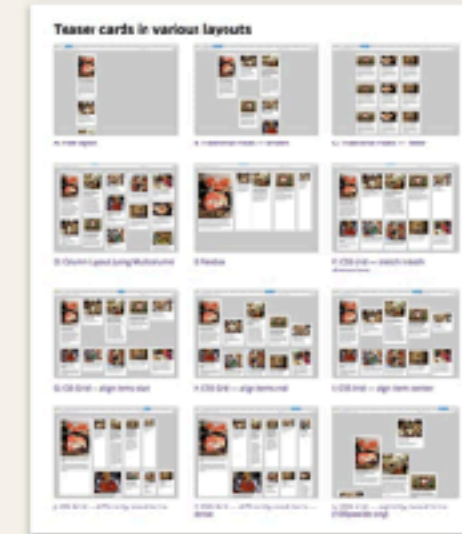
Spice Layout



Responsive Mondrian



Jazz at Lincoln Center Poster
[an Codepen]
[Rotate the boxes]

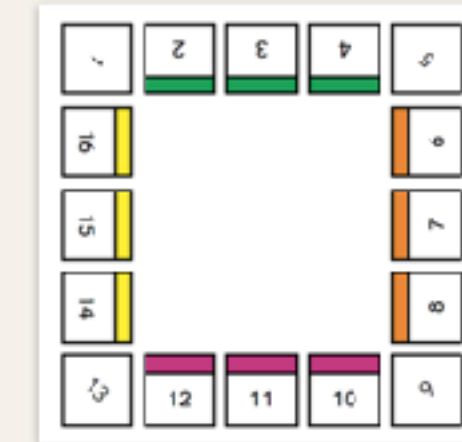


12 Variations of Card Layouts



Example of Nesting Flexbox and Grid

[on Codepen]



Monopoly on CSS Grid



Futurismo Trentino
[about]



New Order Movement
[about]

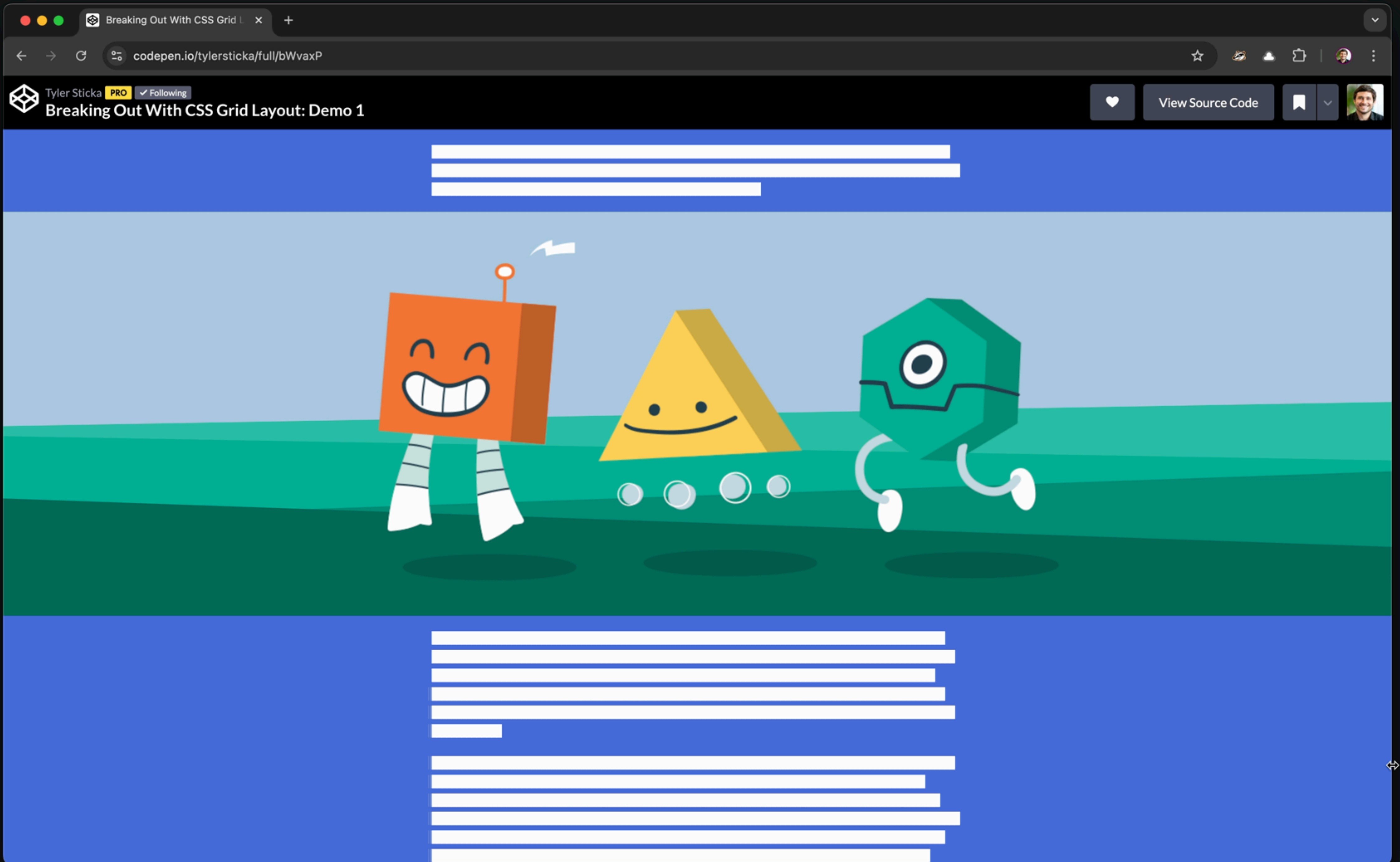
5 Basic Examples of how CSS Grid Works

SYSTEMS OF COMPO- NENTS

Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.



<https://codepen.io/matthiasott/pen/oNyqMgp>



Can I use *CSS Grid* ? [Settings](#)

Feature: CSS Grid Layout (level 1)

CSS Grid Layout

Baseline

available across most browsers

Concept of using a grid to lay out content, providing a mechanism for dividing available space into columns and rows and a set of predictable behaviors. CSS Grid Layout is supported by the `grid-*` properties.

Content aligned

Chrome	Edge	Safari	Firefox	Opera	IE	Chrome for Android	Safari on iOS	Samsung Internet	Opera Mobile	UC Browser for Android	Android Browser	Firefox Android	QQ Browser	Baidu Browser	KaiOS Browser
4-28															
29-56			40-51	10-27											
57	12-15	3.1-10	52-53	28-43	8-9			3.2-10.2	4-5.4						
58-120	16-120	10.1-17.2	54-121	44-105	10			10.3-17.2	6.2-22	12-12.1	2.1-4.4.4				2.5
121	121	17.3	122	106	11	121	17.3	23	all	73	15.5	121	122	13.1	13.18
122-124		17.4-TP	123-125												

Notes Test on a real browser Known issues (3) Resources (7) Feedback

Since July 2020, this feature works across the latest devices and major browser versions ([Learn more about Baseline](#)) See also support for [subgrids](#)

1 Enabled in Chrome through the "experimental Web Platform features" flag in `chrome://flags`

2 Partial support in IE refers to supporting an older version of the specification

<https://caniuse.com/css-grid>

A low-angle, upward-looking shot of a modern skyscraper with a glass curtain wall. The building's facade is composed of numerous rectangular glass panels, each reflecting the bright blue sky and scattered white clouds. The perspective creates a sense of height and architectural scale. Overlaid on the center of the image is the word "Subgrid" in a large, bold, white sans-serif font. The text is slightly transparent, allowing the building's structure to be seen through it.

Subgrid

Subgrid with repeat()
Matthias Ott PRO

Save

Settings



A little history of game consoles

From humble beginnings with a few dots on a screen, game consoles have become a global phenomenon. Take a trip down memory lane as we explore the evolution of these entertainment machines, from the iconic classics to the mind-blowing technology of today.



Nintendo Game Boy

In your pocket, a world unfolded. The chunky brick of the Game Boy became an extension of childhood, offering endless adventures on its pixelated screen. Tetris taunted, Link explored, and Mario leaped, all powered by AA batteries and pure imagination. It was a revolution in portable gaming.



The SEGA Genesis

The SEGA Genesis was a 16-bit powerhouse that crackled with energy. Sonic the Hedgehog was the star of the show, bringing speed and style to the console.

HTML

CSS (SCSS)

```
40 .grid {
41   display: grid;
42   grid-template-columns: repeat(auto-fill, minmax(max(5ch, 120px), 1fr) minmax(min(20ch, 75vi), 1fr));
43   grid-auto-rows: auto;
44   gap: var(--space-s-l);
45 }
46
47 .card {
48   grid-column: span 2;
49   grid-row: span 2;
50
51   display: grid;
52   grid-template-columns: subgrid;
53   grid-template-rows: subgrid;
54
55   /* We can use different gaps for our subgrid */
56   gap: var(--space-s);
57   row-gap: var(--space-xs);
58
59   background-color: #594DFF;
60   background-color: oklch(55.53% 0.263 287);
61   border-radius: 0.5rem;
62   width: 100%;
63   color: #fff;
64 }
65
66 .card h2 {
67   margin: var(--space-s) var(--space-s) 0 0;
68   text-wrap: balance;
69   grid-row: 1;
70 }
71
```

JS

540px

ConsoleAssetsCommentsKeys

<https://codepen.io/matthiasott/pen/JjqNPEN>



Container Queries

Container Queries – The Mother Of All Demos

Matthias Ott

PRO

Save

Settings

HTML

CSS (SCSS)

```
72 .card {
73   background-color: #594DFF;
74   background-color: oklch(55.53% 0.263 287);
75   border-radius: 0.5rem;
76   width: 100%;
77   color: white;
78   padding: clamp(1.25rem, 0.3043rem + 3.4783cqi, 2rem);
79
80   h2 {
81     font-size: var(--step-1);
82     line-height: 1.1;
83   }
84
85   @container (min-width: 30em) {
86     background-color: #BF009D;
87     background-color: oklch(55.24% 0.261 338.73);
88
89     .card-inner {
90       grid-template-rows: auto auto;
91       align-items: end;
92
93       h2 {
94         grid-column: 1 / -1;
95         grid-row: 1 / 2;
96         font-size: var(--step-3);
97         margin: var(--space, 1rem);
98         text-shadow: 0 0 rgb(0 0 0 / 100%) black;
99       }
100
101       img {
102         grid-column: 1 / -1;
103         grid-row: 1 / 2;
104       }
105     }
106   }
107 }
```

JS

Console

Assets

Comments

⌘ Keys



A little history of game consoles

From humble beginnings with a few dots on a screen, game consoles have become a global phenomenon. Take a trip down memory lane as we explore the evolution of these entertainment machines, from the iconic classics to the mind-blowing technology of today.



A little history of game consoles

From humble beginnings with a few dots on a screen, game consoles have become a global phenomenon. Take a trip down memory lane as we explore the evolution of these entertainment machines, from the iconic classics to the mind-blowing technology of today.

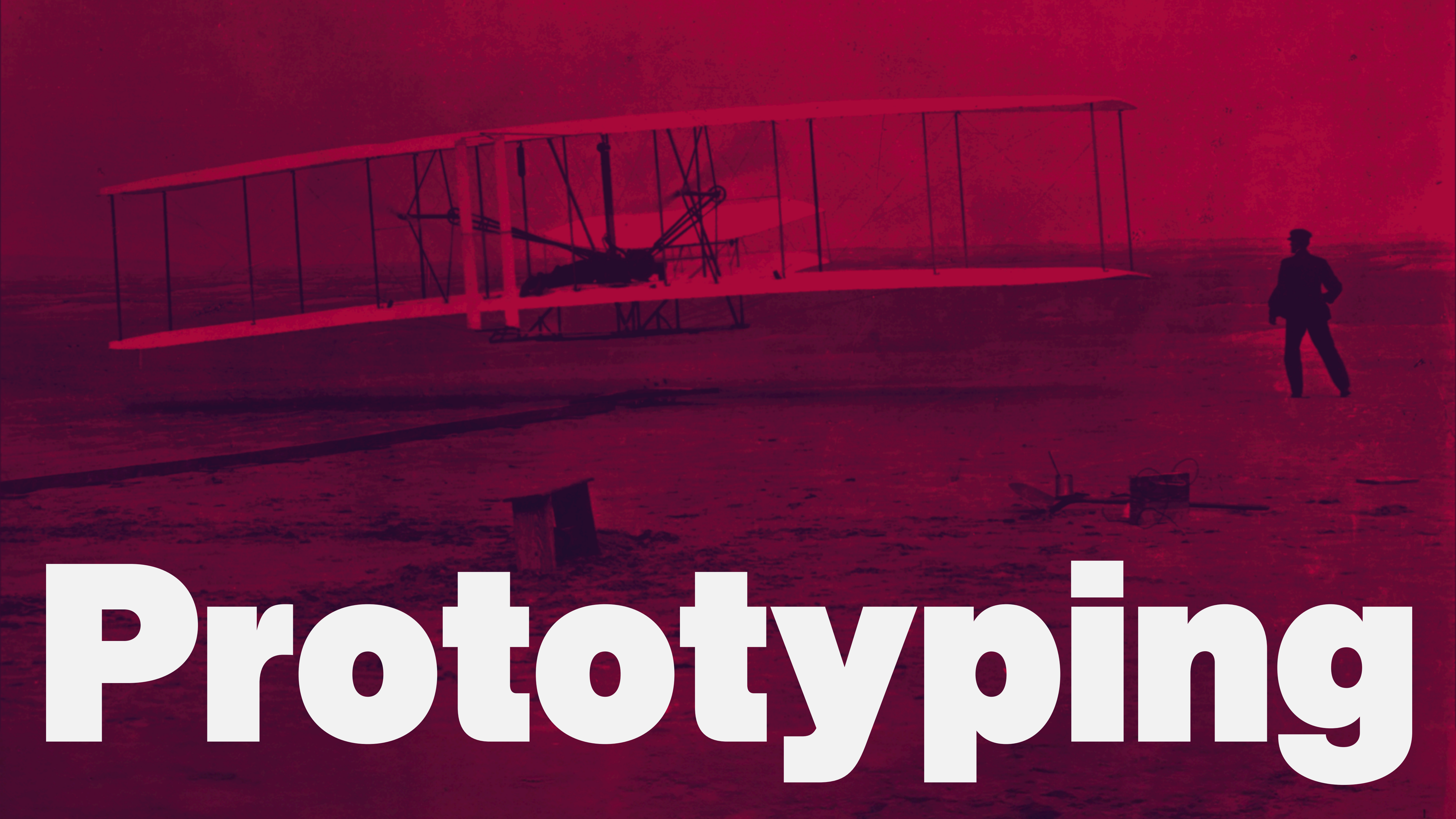
<https://codepen.io/matthiasott/pen/pomNgKJ>

Accessibility
Forms
Interactivity
Responsiveness
Animation
Performance

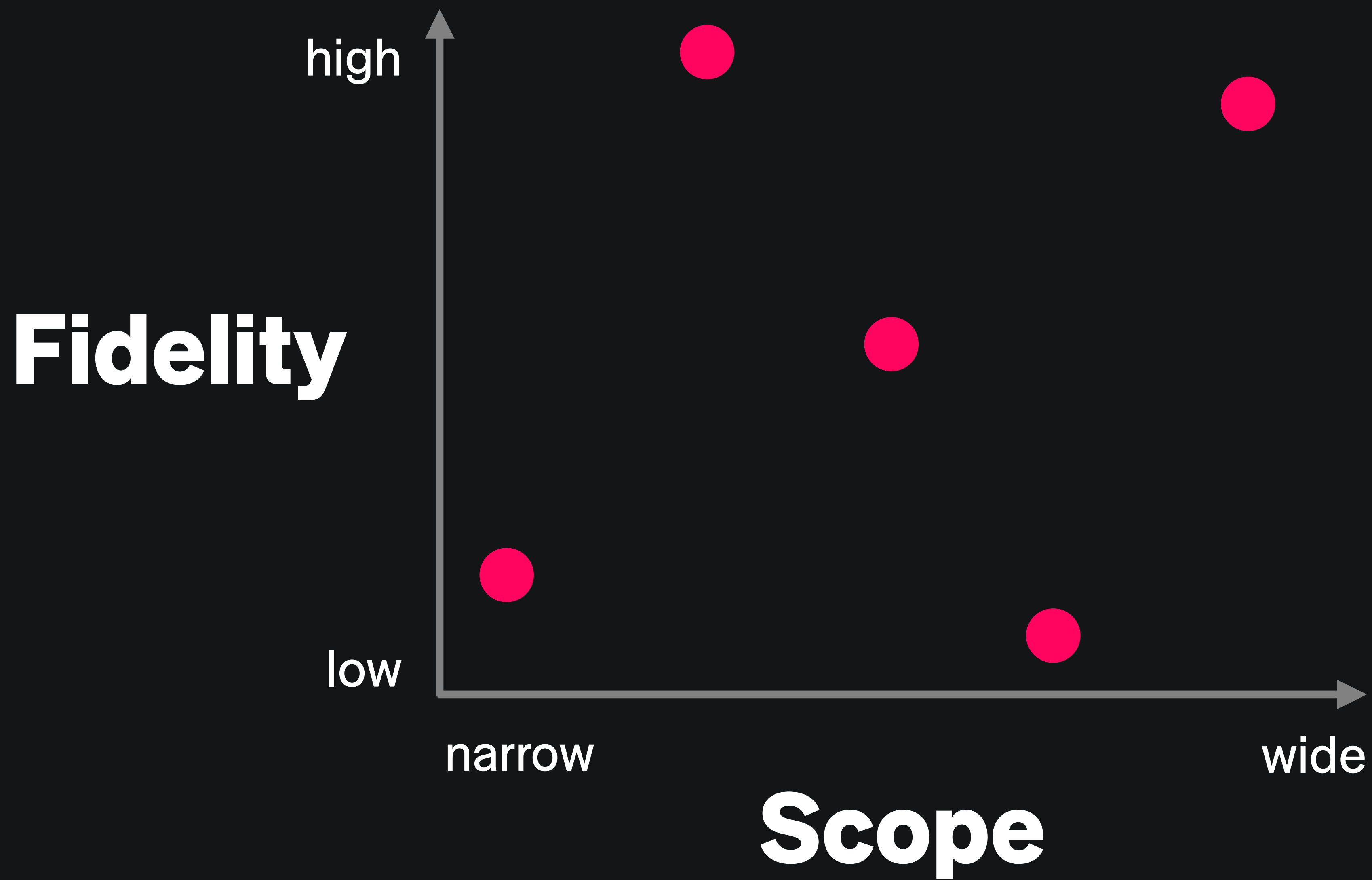
A black and white photograph of a hand holding a paintbrush, poised to paint a textured surface. The background is out of focus, showing a wall with a circular object. The text "What is our toolset?" is overlaid in a large, white, sans-serif font.

**What is our
toolset?**

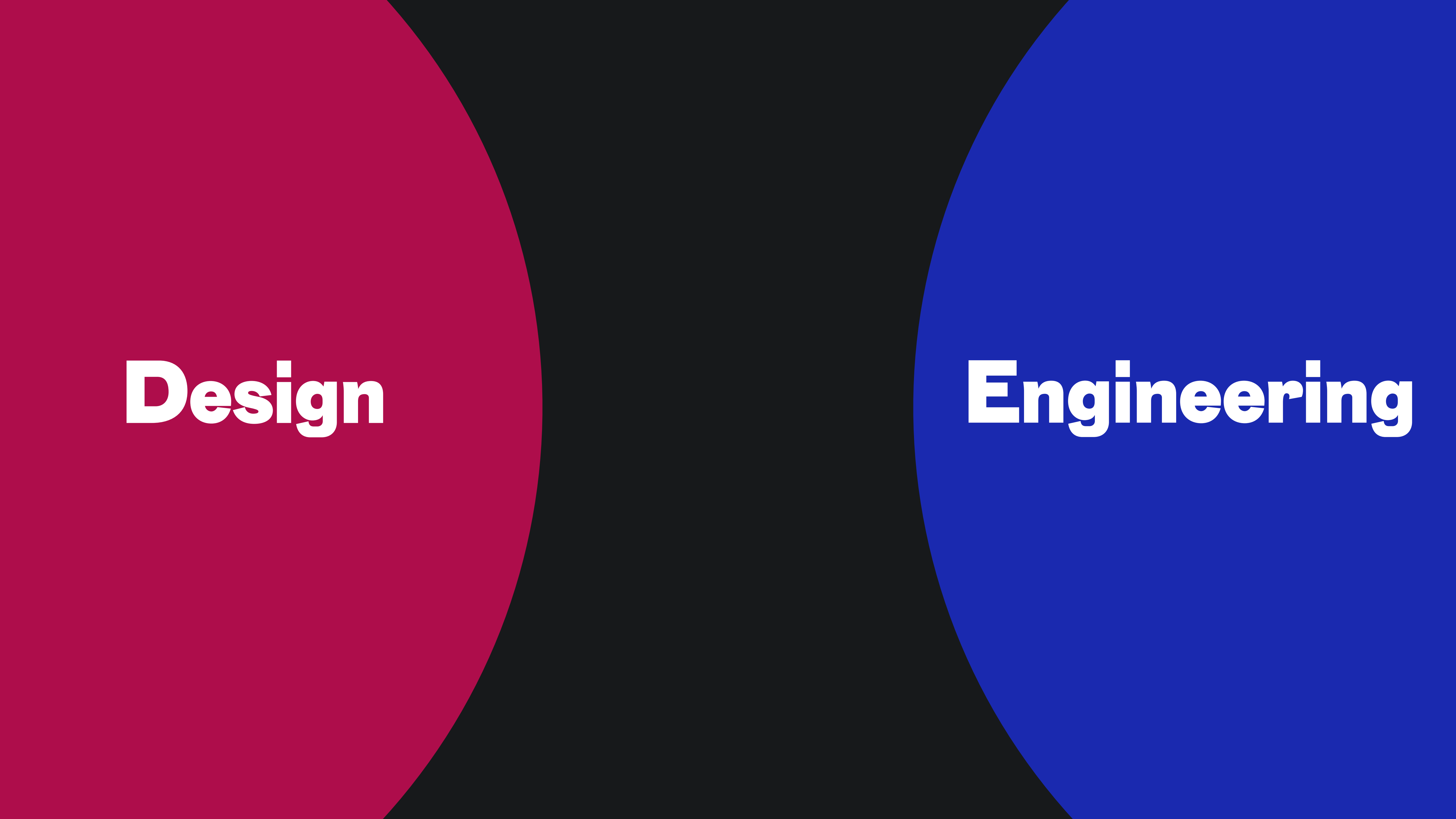
**Use HTML and
CSS much earlier
in the process**



Prototyping



**Decide in the
browser**



Design

Engineering

Design Engineering

Web Design Engineering

Let devs design

Let designers code

Let developers



Brad Frost

@brad_frost · [Follow](#)



Telling web designers they don't need to worry about code is like telling architects they don't need to worry about steel, wood or physics.



3:42 PM · Aug 15, 2011



234



Reply

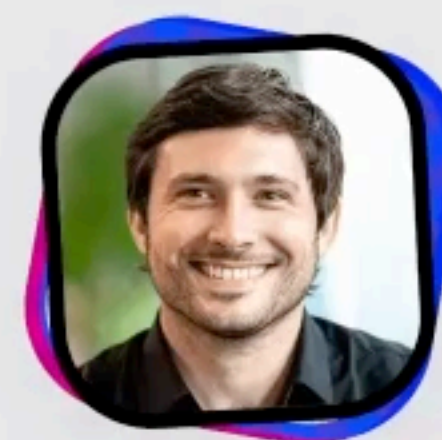


Copy link

[Read 20 replies](#)

Let designers code

Hi, I'm Matthias Ott,
independent user experience
designer, web design engineer,
and teacher for interface
prototyping. I run workshops on
design and web accessibility and write
the Own Your Web newsletter.

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How can I help you grow?

»» Web Design Engineering

I design and build modern and resilient websites and products for the Web. Let me help you build yours.

»» Workshops & Training

Over 400 designers and developers from all over the world have joined me for a live workshop – in-person or online.

CYD

WEDDINGSTUMPEL

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CREATIVE DEVELOPER

FREELANCE CREATIVE DEVELOPER AVAILABLE JUNE 2025

SELECTED

SELECT THEME

Classic Dark Koope Beach Choco Mountain Moo Moo Farm Bowser's Castle Yoshi Valley Rainbow Road

Max Böck

01 home 02 writing 03 notes 04 about

HELLO, MY NAME IS MAX

I make websites.

I'm a front-end developer and co-founder of Codista, a software studio in Vienna. I also write about the web on my blog and elsewhere.

Lynn Fisher

Web Art About Thoughts Archive

LYNN FISHER

LYNN FISHER

Responsive Web Typography

Home Talks Type audit Blog Tips Resources About Jason

Hi, I'm Jason

My name is Jason Pimental. I'm a design strategist, UX leader, technologist, expert in web typography, and invited Expert on the W3C Web Fonts Working Group. I write, speak, and work with teams and brand owners on how to set type better on digital platforms. I've spoken with organizations like Adobe, Audible, Condé Nast, GoDaddy, IBM—and given presentations and workshops at conferences all over the world. I also publish a newsletter on web typography.

Type is how we 'hear' what we read

Since the introduction of Variable Fonts in late 2016, I've spent a good deal of time researching, writing about, and working with them, and am convinced they are the future of type—and indeed design—on the web. I've designed demos for TypeNetwork and Monotype (with an article & demo page I wrote and designed), spoken about them at Adobe's Typekit patron conference, been quoted about them by Microsoft and in Communication Arts, and presented about them at An Event Apart, TYPO Labs Berlin, and many more.

2023

November

15 Disco dishes

12 A redesign

October

31 If I could be anything

September

26 Less typical

23 I moved from my self hosted Mastodon instance to a micro.blog account

11 No Inputs Day

04 The middle point of softness, kindness, calmness

August

30 How often do you get to rewrite and rethink?

July

17 Flexibility

16 Is TypeScript good?

10 Reassessing the morning routine in 2023

RACH SMITH'S DIGITAL GARDEN

NOTES | TAGS | ABOUT | SUBSCRIBE

rainbows cursor trails dark mode

Adam Stoddard

is a generalist designer & creative technologist, building human-centered products with empathy & craft

20 is a designer / product manager / user advocate

20 is a designer / product manager / user advocate

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HELLO WORLD

My name is Una

I'm a web developer

ON THE BLOG

New capabilities for attr() JAN 21, 2025

Advanced article to Jordan in

Blog Links Speaking About me Contact

Well, hello!

I'm Hidde, an accessibility nerd, front-end developer, components enthusiast, web standards fan and tech ethics explorer. Welcome to my personal website.

This is where you can find my blog, information about me, my speaking and ways to contact me.

Recent blog posts

Running for the AB →

Is "ethical AI" an oxymoron? →

Tag, you're it →

cassie

writing speaking workshop playing

Hi, I'm cassie

I like making fun, interactive things with code. I also talk & write about those things.

Simon Collison

Well-meaning waffle since 2001.

HOME JOURNAL WORK ABOUT

Bello. I'm a designer, writer, artist and musician. But, who am I really?

Quibbly and quiet, great at drawing. It's always sunny.

There is tech! There is pop art. Soft rock.

There are national parks: there is nature.

There are birds.

Even when I'm in motion, a sudden sense of liberty.

ORDER

The world opens up: paintings from the 50s, new landscapes.

From the way the road's divided. Picture the places you've seen.

Identity. The past was yours, but the future's mine.

The North. Art school.

Cranitane. To London.

To Reykjavik. It is rare.

Ireland how



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Ahoy there, I'm Robb

I'm a developer at [Radweb](#), a developer and podcaster at [MacStories](#), a member of [#DevsDoDesign](#), an award winning hackathon team, and a podcaster with two shows. I also [makes a bunch of stuff](#) including [ScholFeed](#).

You can find me on Mastodon as [rob@social.uk](#) or [ESN](#), and more things as [rknightuk](#).



More about me

Latest Photos

Clagnut

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An enthusiasm by

Richard Rutter

Hello. I'm Richard, a designer, author and speaker living by the sea in Brighton, UK. I'm co-founder of [Clearleft](#), a digital design consultancy.

I love all things to do with human-centred design, typography, music and cycling. I occasionally write about them here.

Latest Posts

Opening up 'Unoffice hours'
I'm now around every Friday morning for a 30 minute chat about anything you like. Book a time slot that works for you.
4th April 2025

Me Elsewhere
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Nielsen needs to think again

07 March 2024 [Web Life](#)

JAMFACTORY

PORTFOLIO OF DIRECTOR & DESIGNER GAVIN STRANGE



Hiya 🙋 My name's Gavin. I'm a Director & Designer by night I'm a passion for the alias Jamfactory. I shoot [photos](#), create [books](#), I share my [blog](#) & [newsletters](#).

Upcoming Talks

London - 21st May · [Motion North](#)

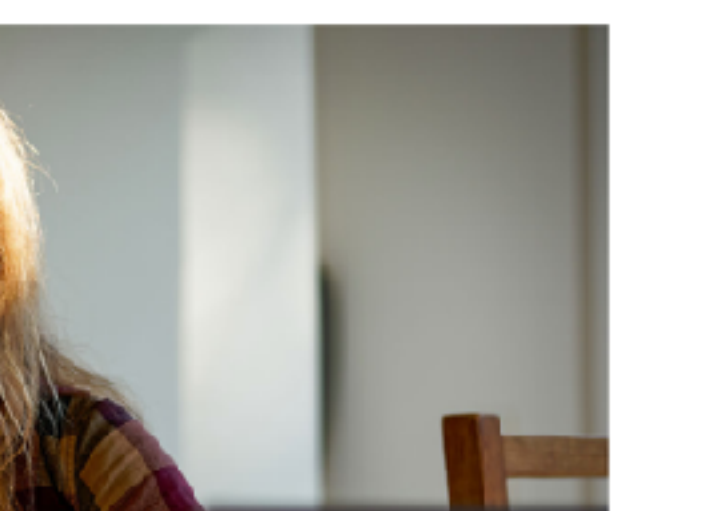
JAMFACTORY

PORTFOLIO OF DIRECTOR & DESIGNER GAVIN STRANGE

LINKS PHOTOS ABOUT SEARCH

beyond tellerrand

an event for the (web) an-band ever since it started and I love it.



sara joy

SARA

sara stuff blog find

Hi! Welcome :)



I am a techy, creative person with a front end development 'Schwerpunkt' :)

Im learning everything I can about Web Accessibility (a.k.a. ally), because the internet is for "everyone".

This site is built with vanilla HTML, CSS and just a little JS in [Astro](#). If it is all a bit much, there is a simpler version to be found at [sarajoy.dev/bcsio](#)

 Just come out of what has felt like a long period of constant low level stress. Kidding, it's still there. Just not as urgent and noisy as it was! And the sun is shining
2 weeks ago on @

What's new / now?

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Don't let your voice be flattened by the fiber theme

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March 19, 2025

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2 posts | past week

adam.is.bad@css

[BLOG](#) [SHOWS](#) [CSS](#)

WebDev Challenge - S2E2



Lane Wagner and I take on 2 other teams in a 4 hour challenge to make a 2+ player game using TypeScript

my name's brad frost:

course training book blog contact:

i make things and help people.



hey there!
I'm Brad Frost, a creator, web designer & developer, teacher, speaker, writer, musician, and artist based in Pittsburgh, PA.

design tokens course

Our deep-dive course teaches you how to create a design system from scratch and how to maintain it over time.

ZACH LEATHERMAN

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BigText Makes Text Big 14.3 years

NEWEST

CHECK THE SPEEDOMETER ON THE BRAND NEW BLOG AWESOME (NOW WITH 11TY)

Check the speedometer on the brand new Blog Awesome (now with 11ty)

11TY MEETUP: BLOG AWESOME FROM WORDPRESS TO ELEVENTY

11ty Meetup: Blog Awesome from WordPress to Eleventy

jenn schiffer

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1. web developer, artist, community manager

2. 500 years of HTML experience

she last updated april 10, 2025

current status

getting ready to launch my new store by the end of march!

- [the wizard abraham](#) robot kamek is back in brooklyn on may 7th ([book a place](#)) and may 12th ([wondercillo](#))
- occasionally putting and coding live on [youtube](#)

menu

- see some of [my art](#) (nice)
- [WORK EXPERIENCE](#) (boring)

my other projects

- [live laugh love](#)
- [monthly news letter](#)
- [mikeblum.com](#)

contact me

you can email me at [hi@jenschiffer.com](#). I'm also active on a few online spaces ([mastodon](#), [bluesky](#), [linkedin](#), [youtube](#), [twitter](#)) but I don't use facebook, instagram or twitter. rip cohost.

Kardo Ayoub

Hello!

I'm a product and product designer with 15 years of experience shaping solutions across various sectors, including finance, technology and energy, through to large global organisations. I've helped organisations such as HSBC, English Heritage, and Sony create more meaningful inclusive digital experiences.

Blending data, empathy and creativity, I lead product design projects from delivery, working hands-on through research, prototyping, testing and evaluation with cross-functional teams to transform complex challenges into accessible solutions, leveraging emerging technologies to bring bold ideas to life.

SAVING FOR CHILDREN

Putting aside something and today I make a big difference for children. 12 years old and saving money for children, and for the future of the world.

Thank you!

Slides: <https://noti.st/matthiasott/ZXgFeg>

 ownyourweb.site 

Typefaces:

Tausend by Christoph Koeberlin,

NaN Tresor by Christoph Koeberlin,

NaN Tragedy by Jean-Baptiste Morizot,

Input Mono by David Jonathan Ross