

NOT IN THIS TALK

NOT IN THIS TALK

🚫 STYLED COMPONENTS

NOT IN THIS TALK

- ✖ STYLED COMPONENTS
- ✖ CSS-IN-JS

BELIEVE IN THE
CSS
POWER OF

TWITTER: **SALT&BURNEM** | SITE: **CHRISDEMARS.COM**

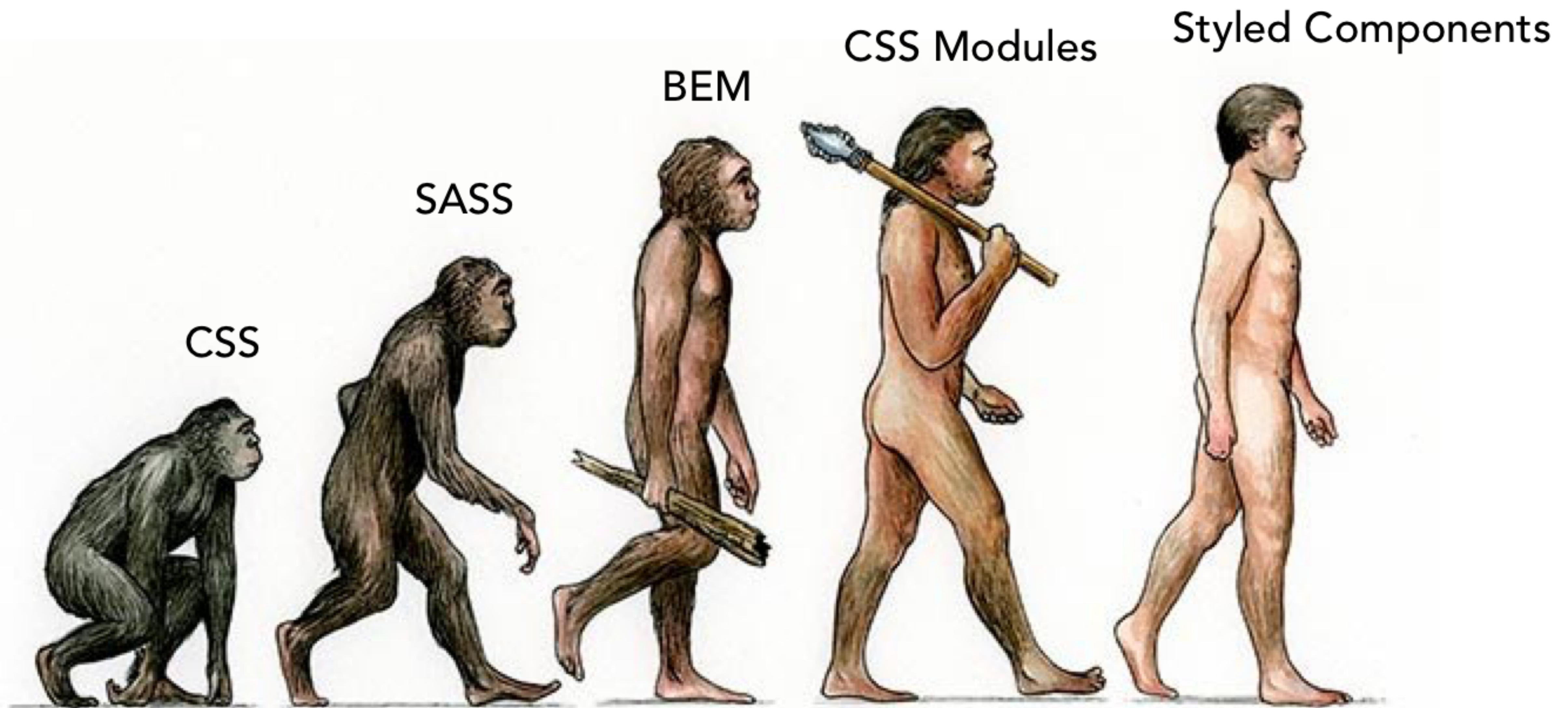
DISCLAIMER

DISCLAIMER



I ❤ GSS





CSS

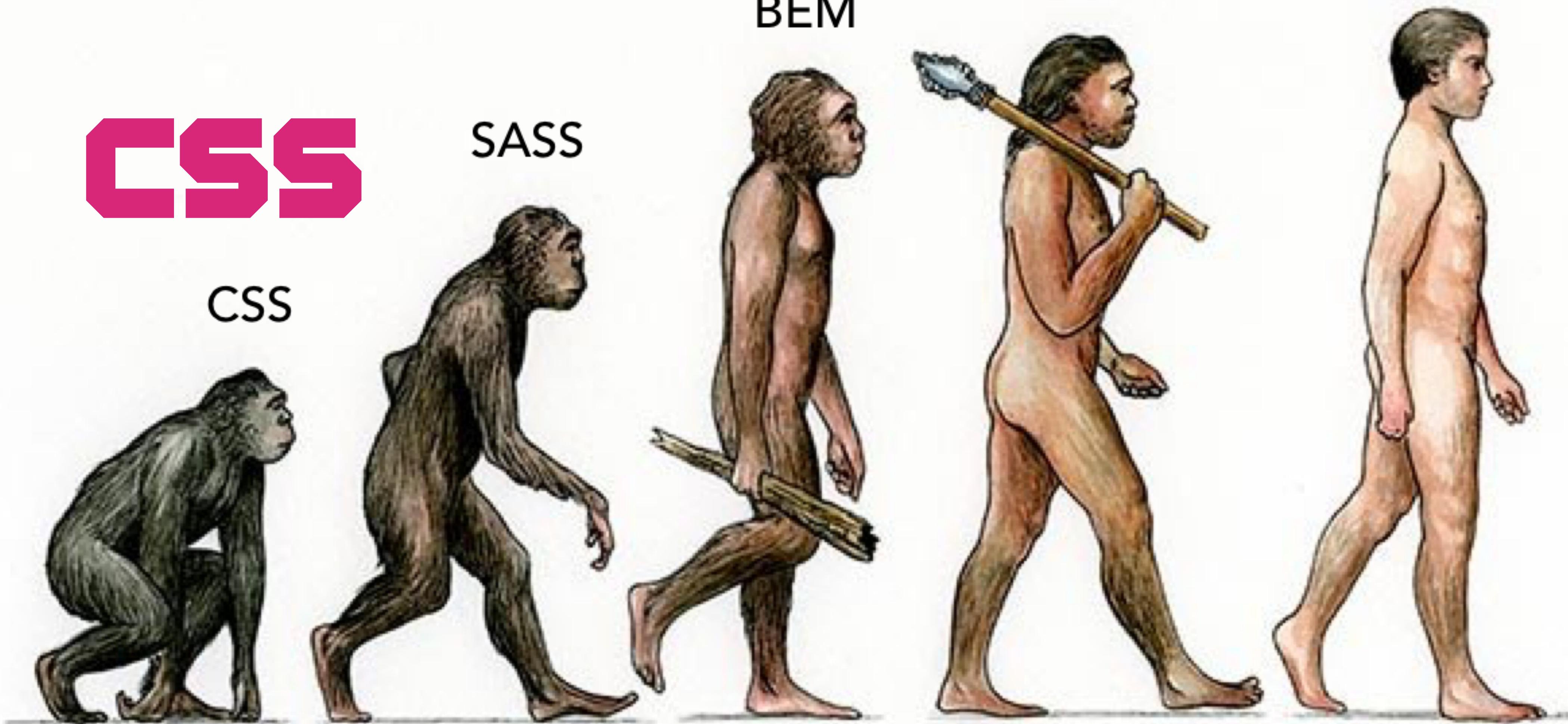
CSS

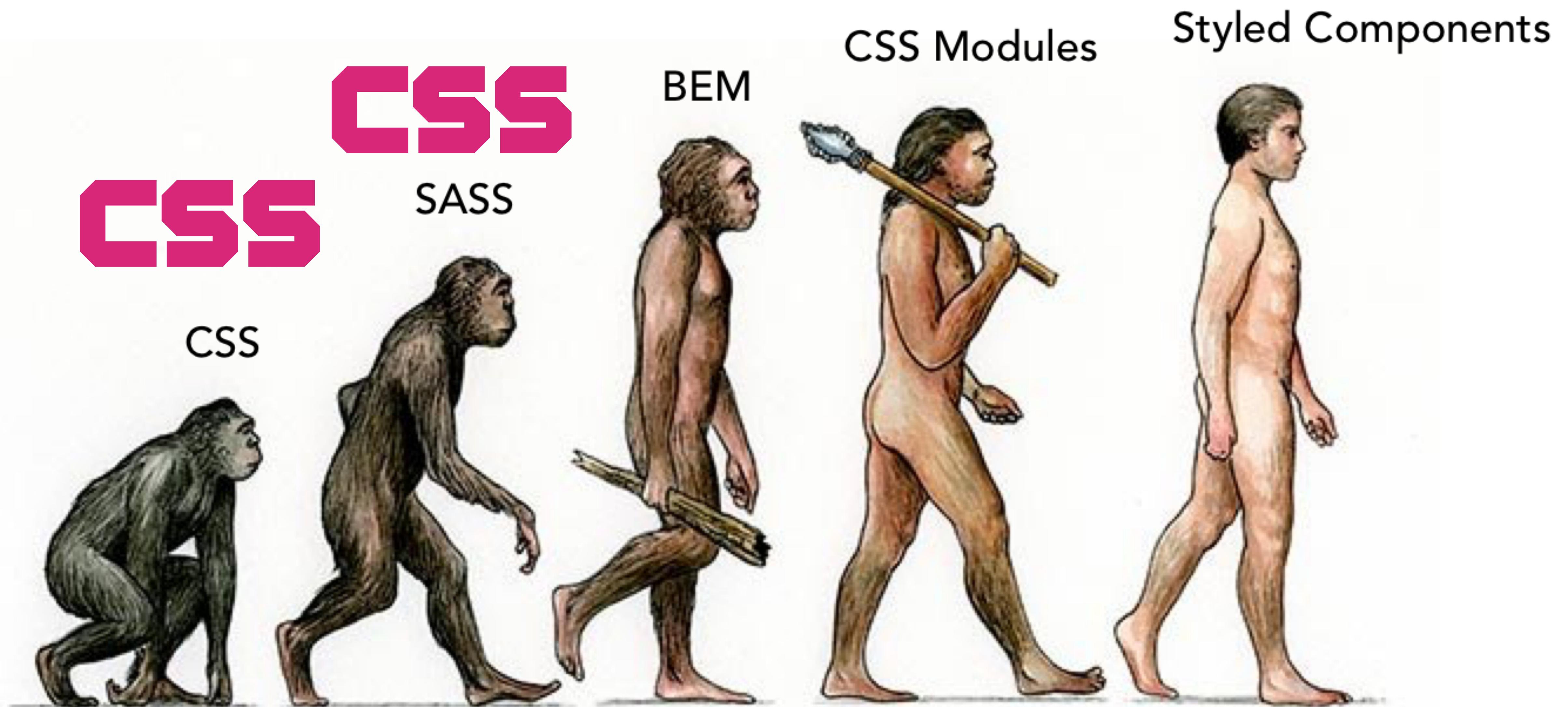
SASS

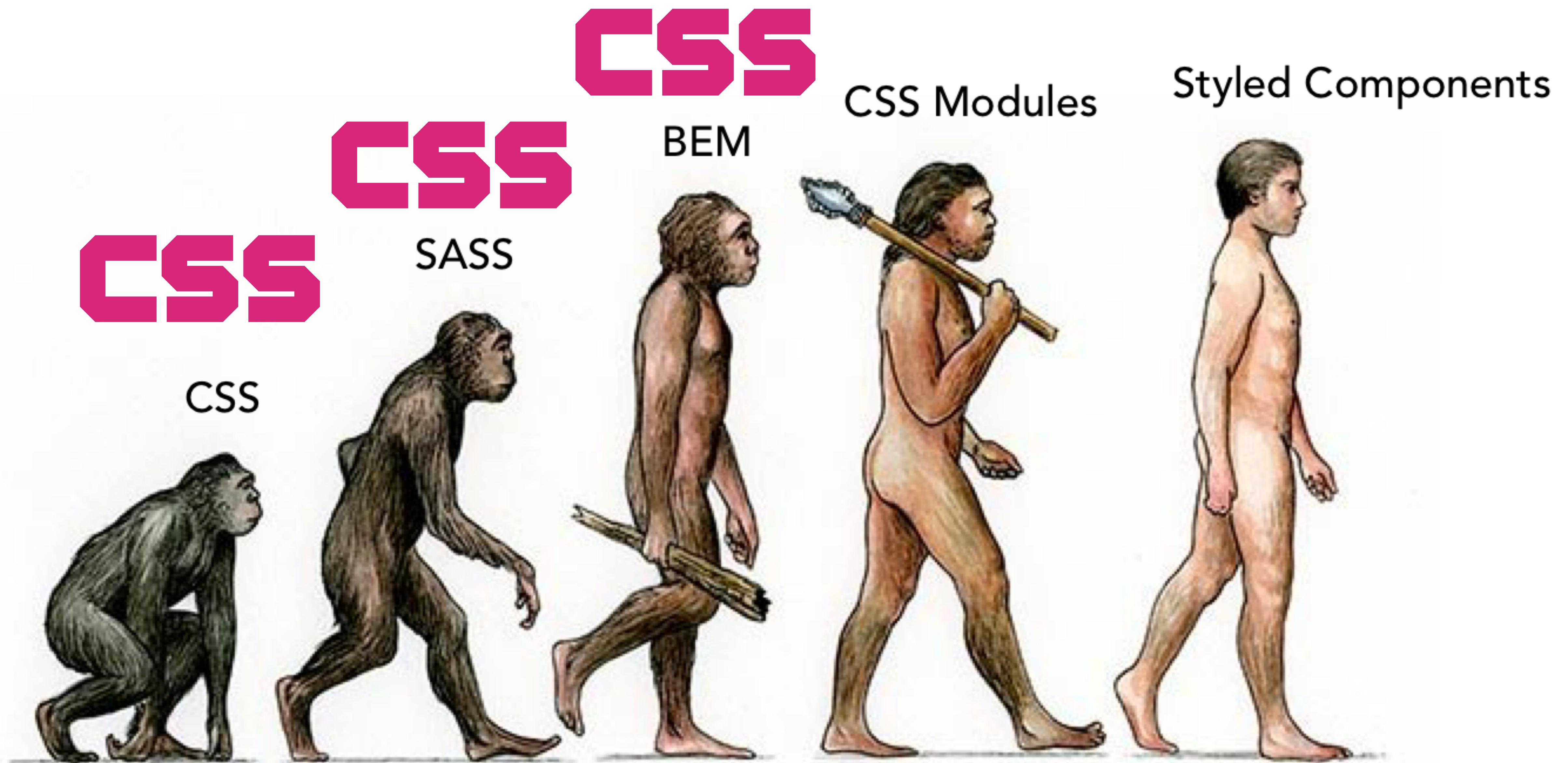
BEM

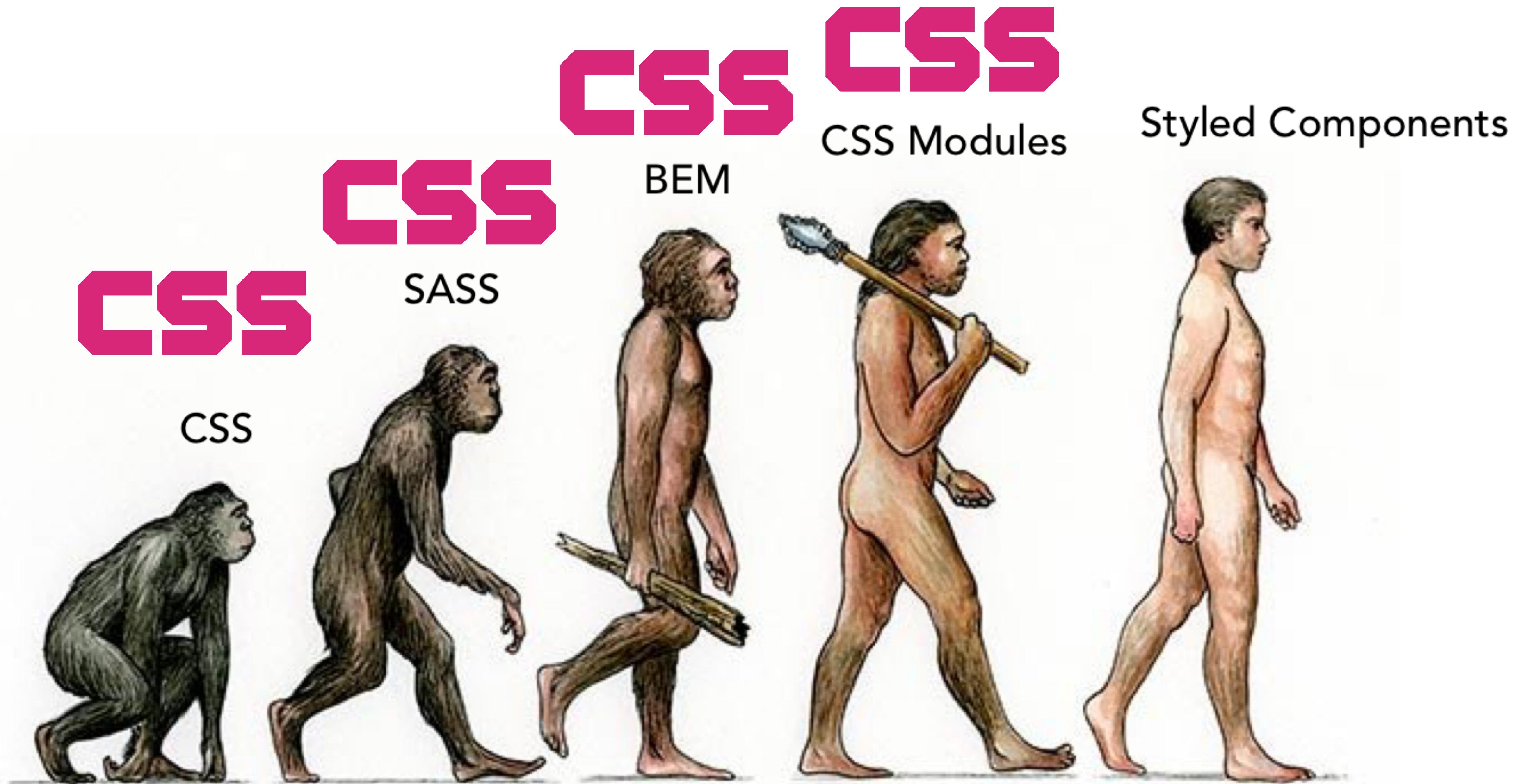
CSS Modules

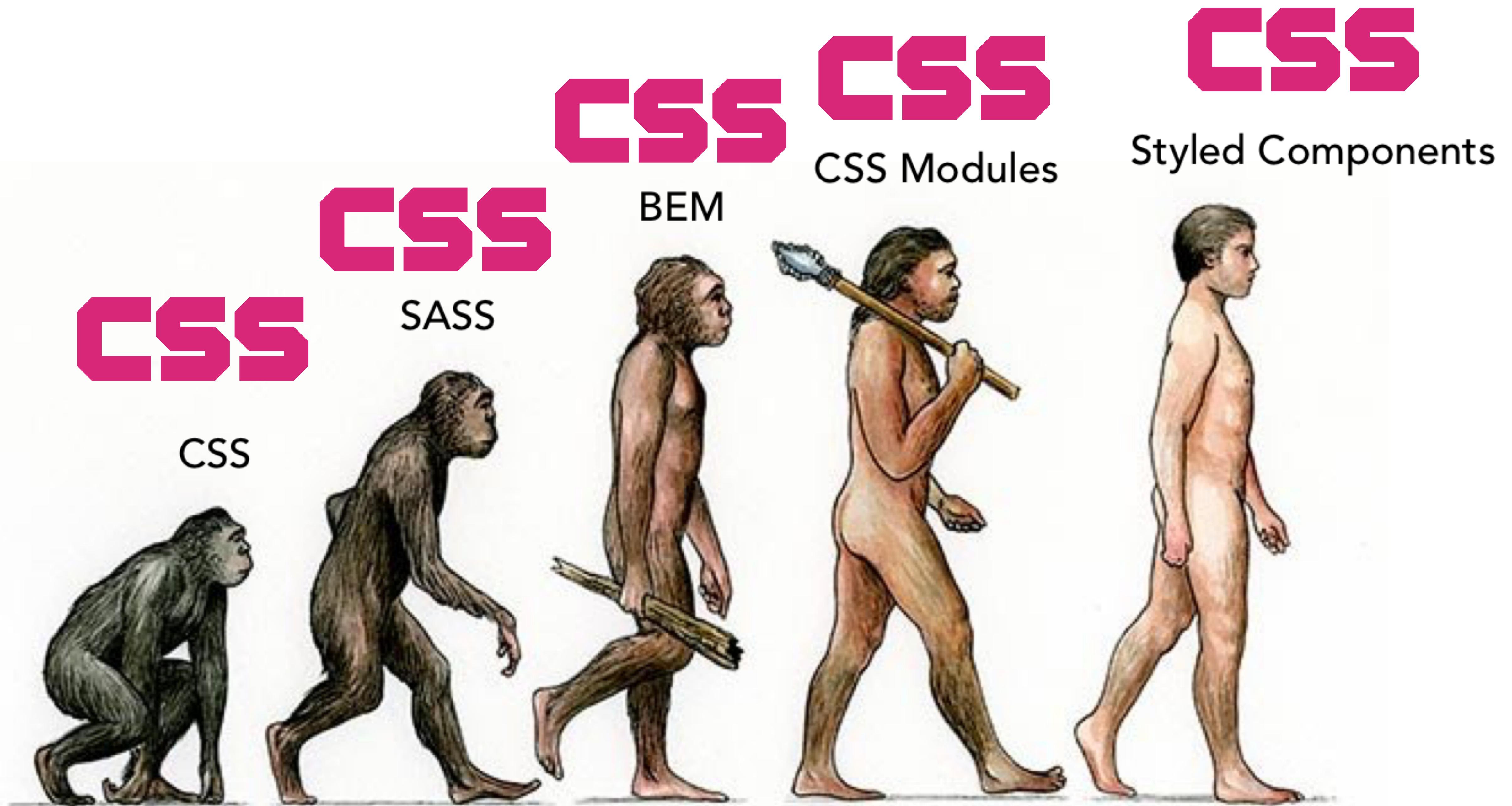
Styled Components













Mandy Michael
@Mandy_Kerr



"CSS is a key development skill"-[@IvanaMcConnell](#)

I strongly believe that the mentality that css is presentational is so embedded in our industry that it's detrimental to making progress.

2:04 AM - Mar 20, 2018

♥ 42 Q 21 people are talking about this





Mandy Michael @Mandy_Kerr · 19h

A really thoughtful closing talk by @IvanaMcConnell. She talks about the perceptions we have about css, developers and the web. But also the problems with how we devalue things like CSS, or people whose web journey is not the traditional archetype! 🙌🙏👏 #cssconfau18

2

5

28



Show this thread

**"...ALSO THE PROBLEMS WITH HOW WE
DEVALUE THINGS LIKE CSS..."**

- Ivana Michael @ CSSConf AU

GSSSTISSSTI

ATHONGA

UNA KRAVETS

THE POWER OF CSS

FRONT-TRENDS 2017

<https://youtu.be/IRI1H5tyEAo>



HISTORY



```
1 <HTML>
2 <HEAD>
3 <TITLE>Hello World!</TITLE>
4 </HEAD>
5 <BODY BGCOLOR="BLACK">
6 <CENTER>
7 <BR>
8 <BR>
9 <BR>
10 <H1><FONT COLOR="RED" FAMILY="COMIC SANS" SIZE="+5">Hello World!</FONT></H1>
11 <BR>
12 <HR WIDTH="50%" COLOR="PURPLE">
13 <MARQUEE><FONT COLOR="RED" FAMILY="COMIC SANS">My first web page!</F0NT></MARQUEE>
14 <BR>
15 <BR>
16 <P><FONT COLOR="LIME" FAMILY="COMIC SANS"><B>My first web page! I can't believe I am building my first web page.</B>
</F0NT></P>
17 </CENTER>
18 </BODY>
19 </HTML>
```

Let's Go

WAYYYYY BACK

1994

The image features a vibrant, retro-style graphic. At the top, the words "Let's Go" are written in a large, flowing, pink cursive font. Below them, the word "WAYYYYY" is written in a stylized, wavy font with a blue-to-pink gradient, followed by the word "BACK" in a bold, blocky font with the same gradient. At the bottom, the year "1994" is displayed in large, bright blue numbers. The entire scene is set against a dark blue background with numerous small white stars. A glowing pink grid floor runs across the bottom of the image.



Hakon Wium Lie

Bent Bos



Wes Bos



Bob Bos



Wes

Scott Belsire

1996
CSS
WAS BORN

WHAT'S NEW

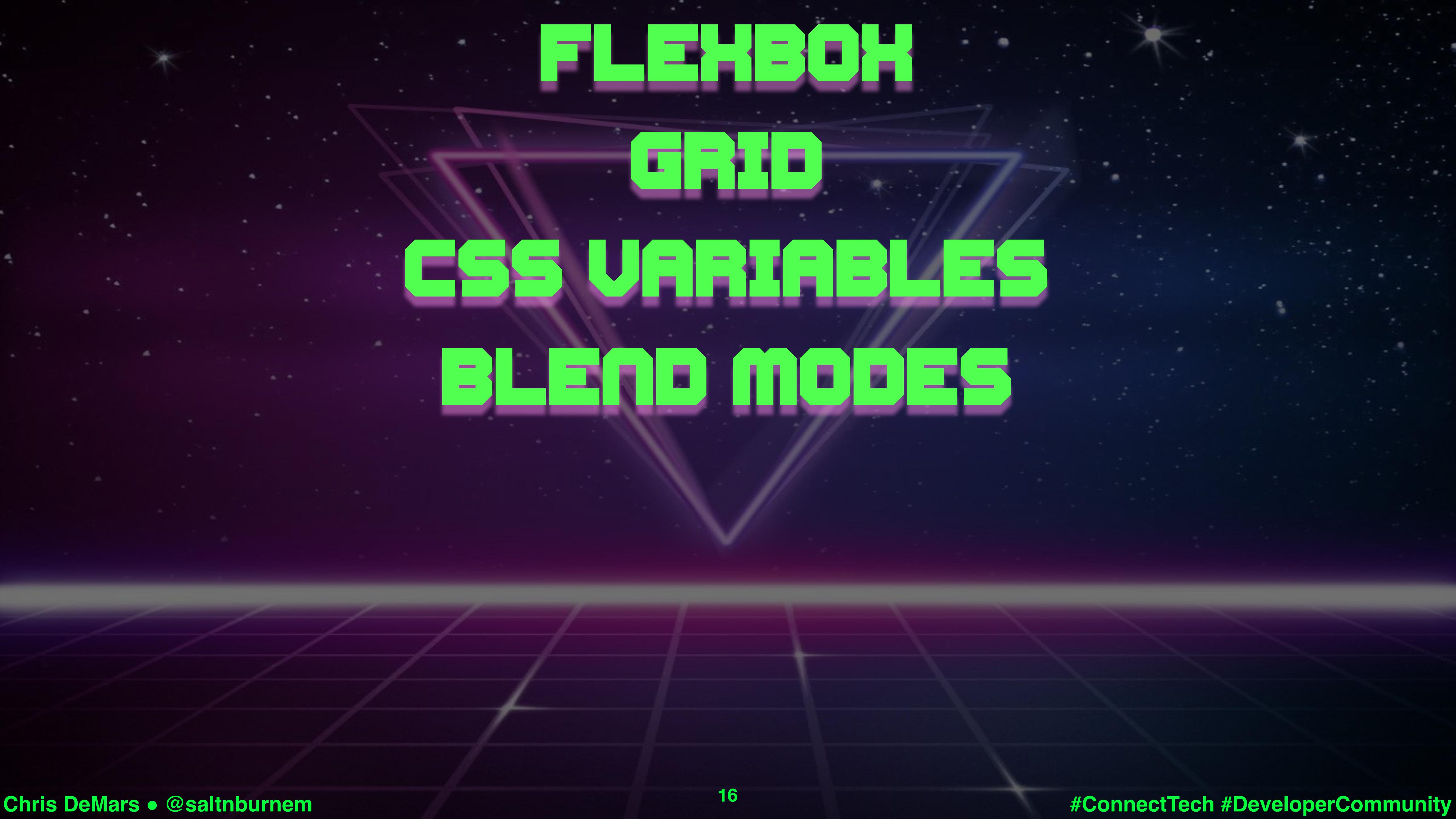


FLEXBOX



FLEXBOX GRID

FLEXBOX GRID CSS VARIABLES



FLEXBOX
GRID
CSS VARIABLES
BLEND MODES

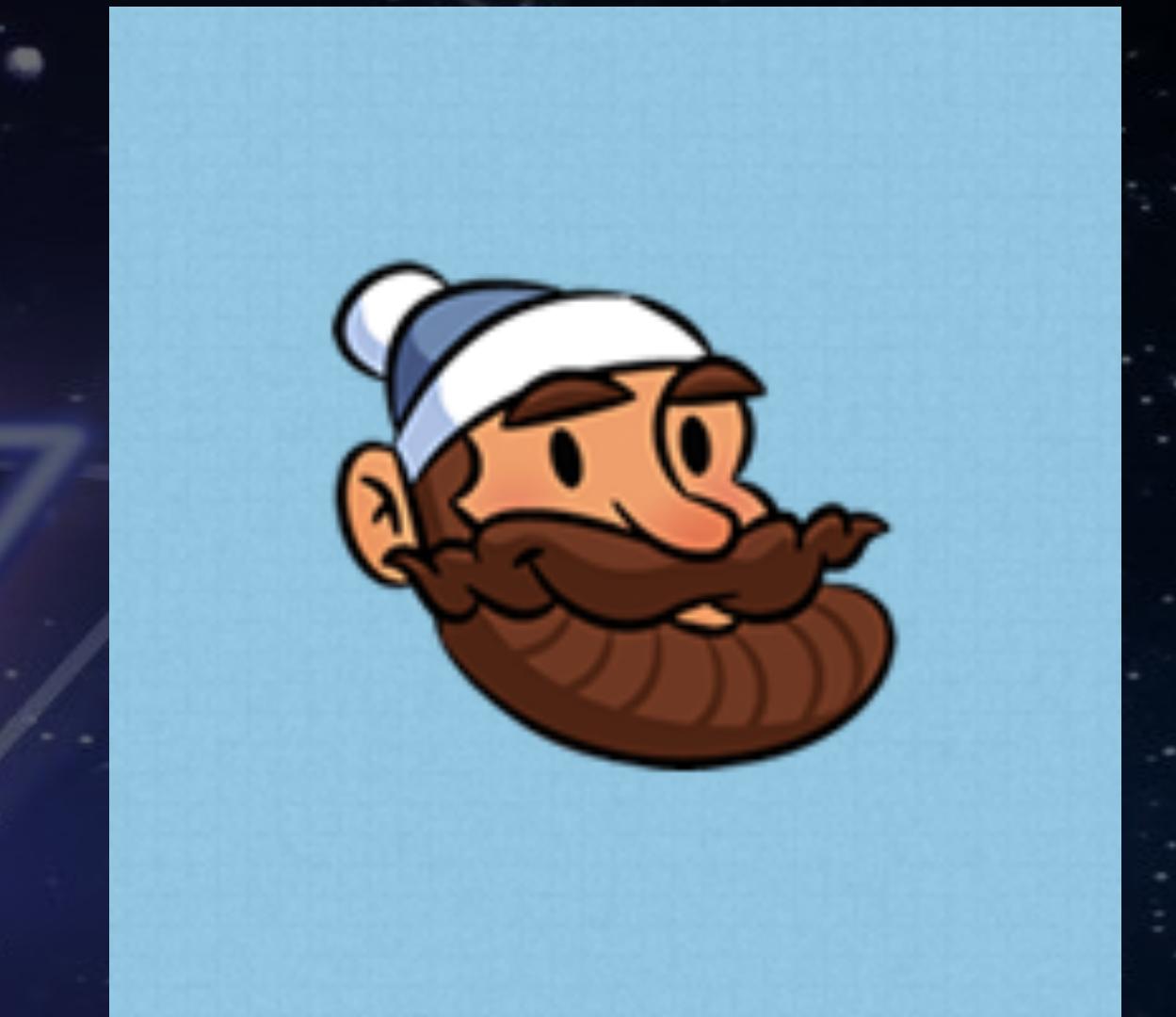
FLEXBOX
GRID
CSS VARIABLES
BLEND MODES
VIEWPORT UNITS

FLEXBOX
GRID
CSS VARIABLES
BLEND MODES
VIEWPORT UNITS
ACCESSIBILITY

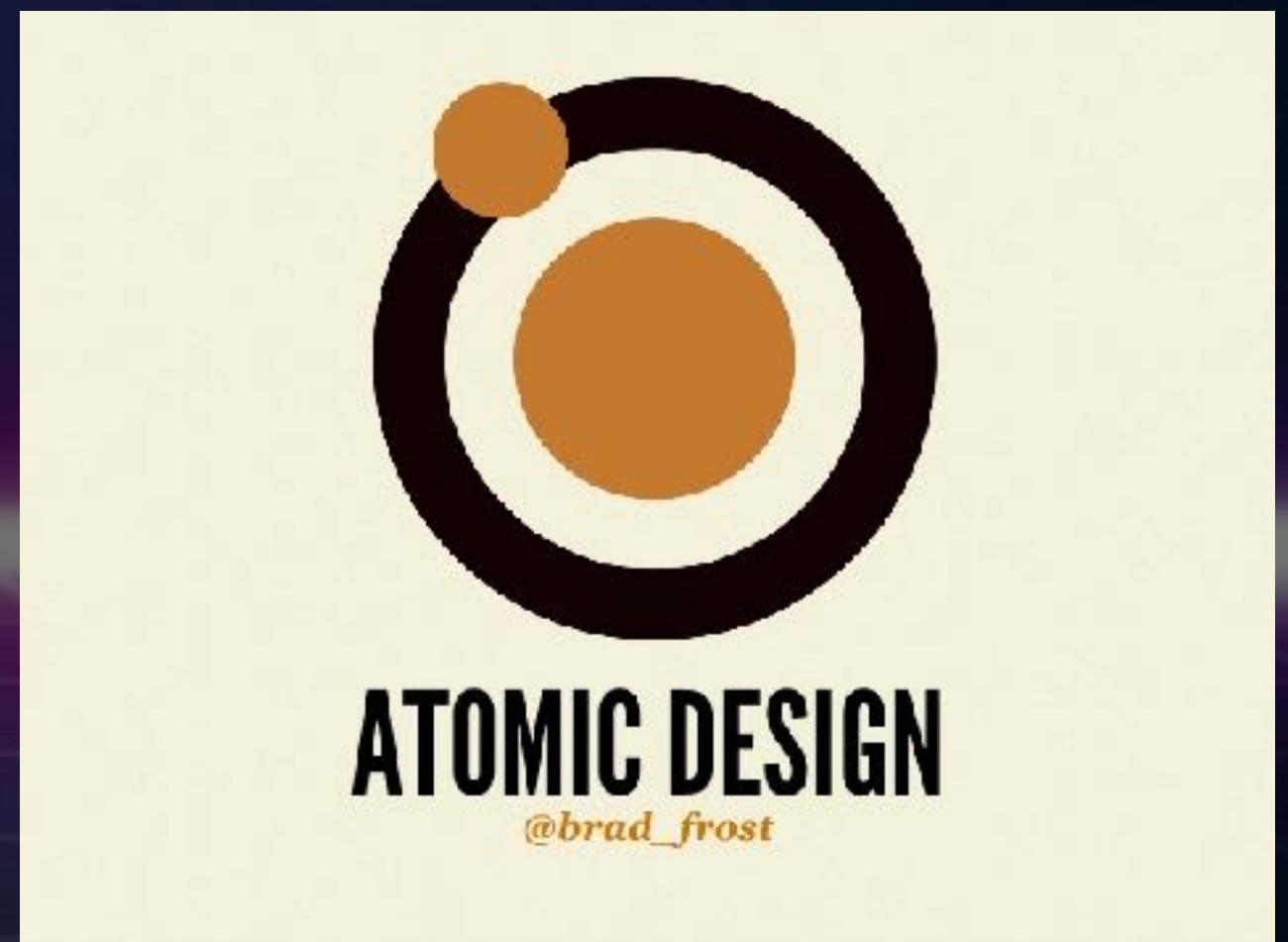
**FLEXBOX
GRID
CSS VARIABLES
BLEND MODES
VIEWPORT UNITS
ACCESSIBILITY
AND MORE...**

ARCHITECTURE



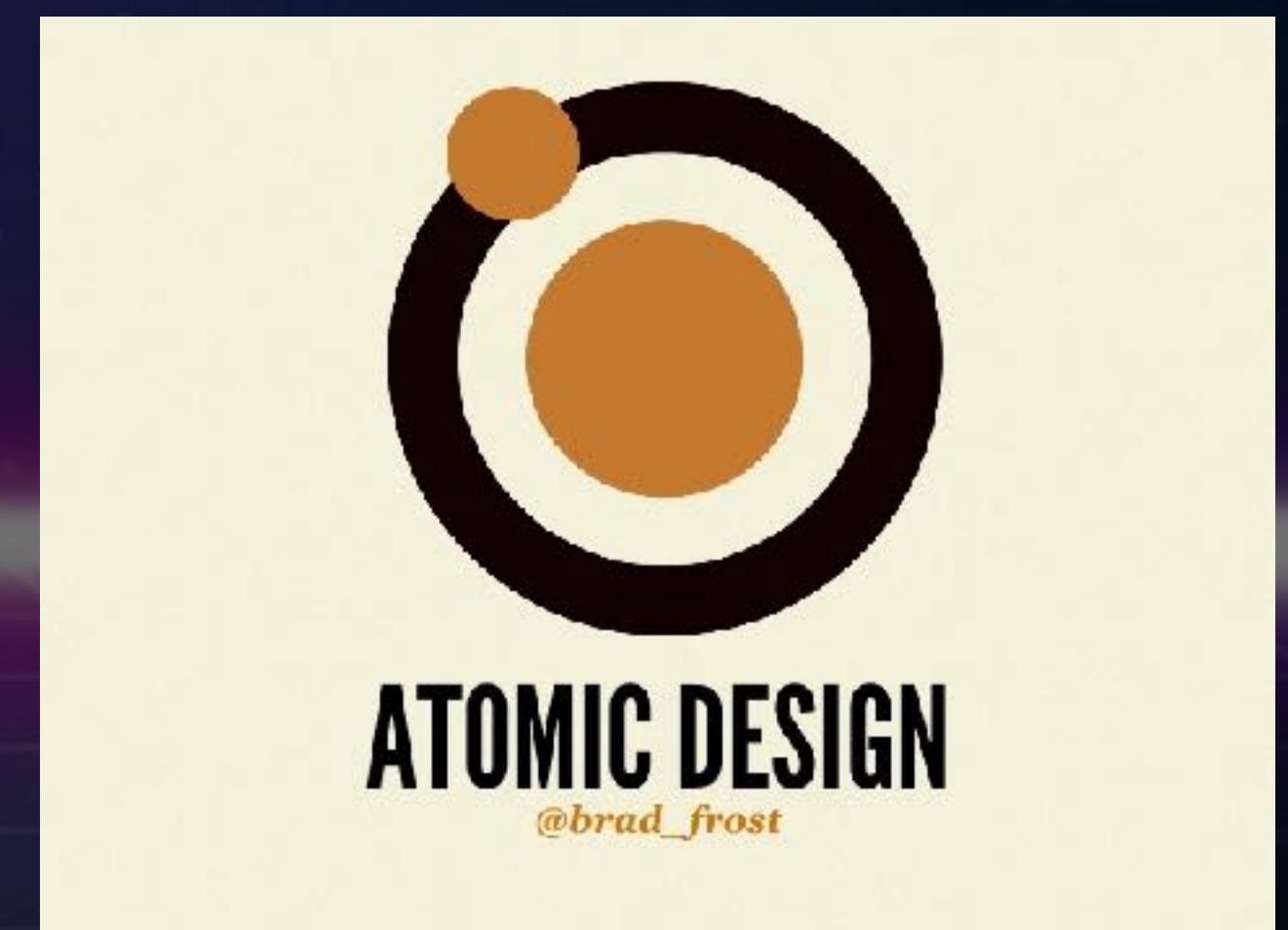


inuitcss





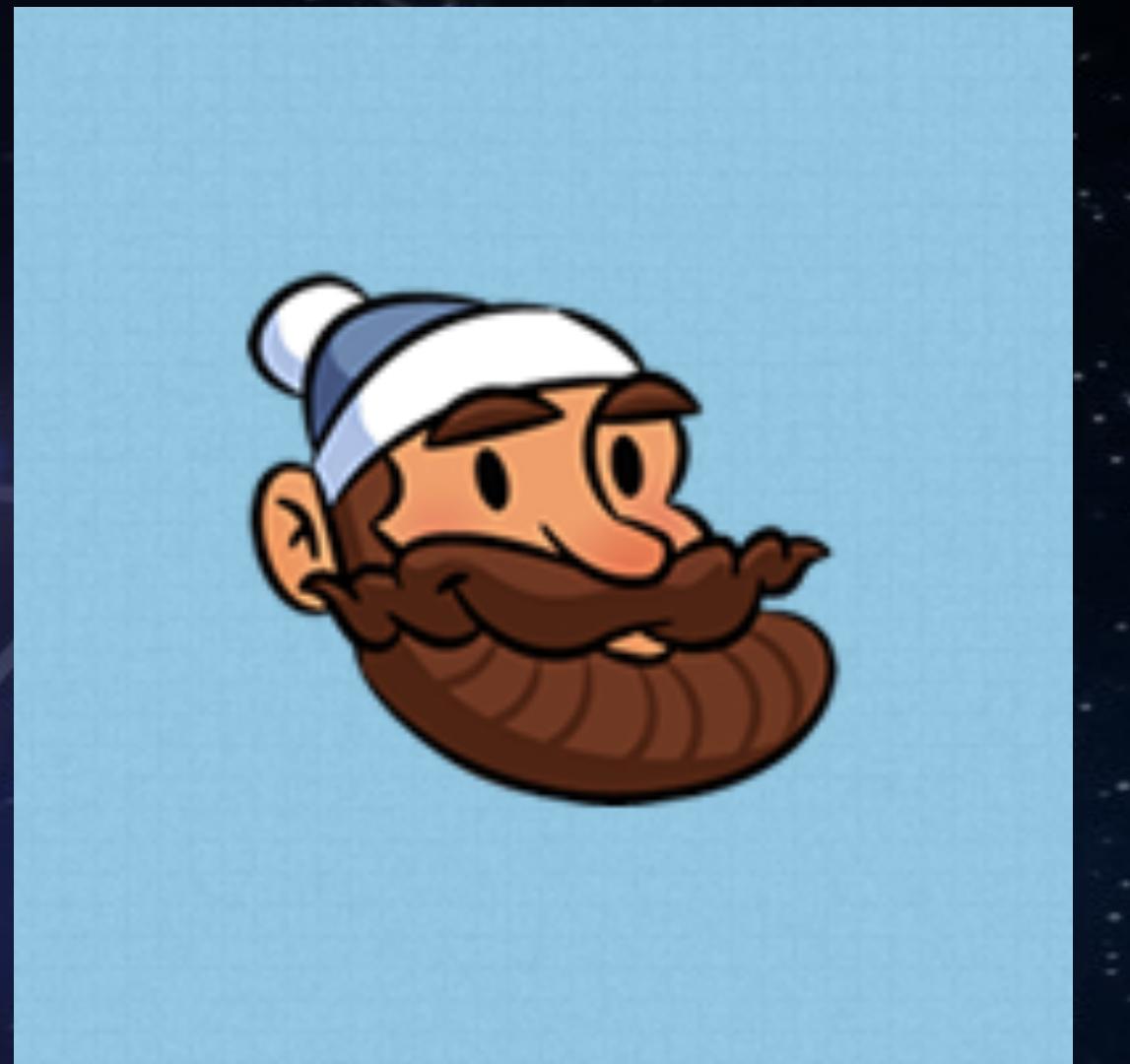
inuitcss



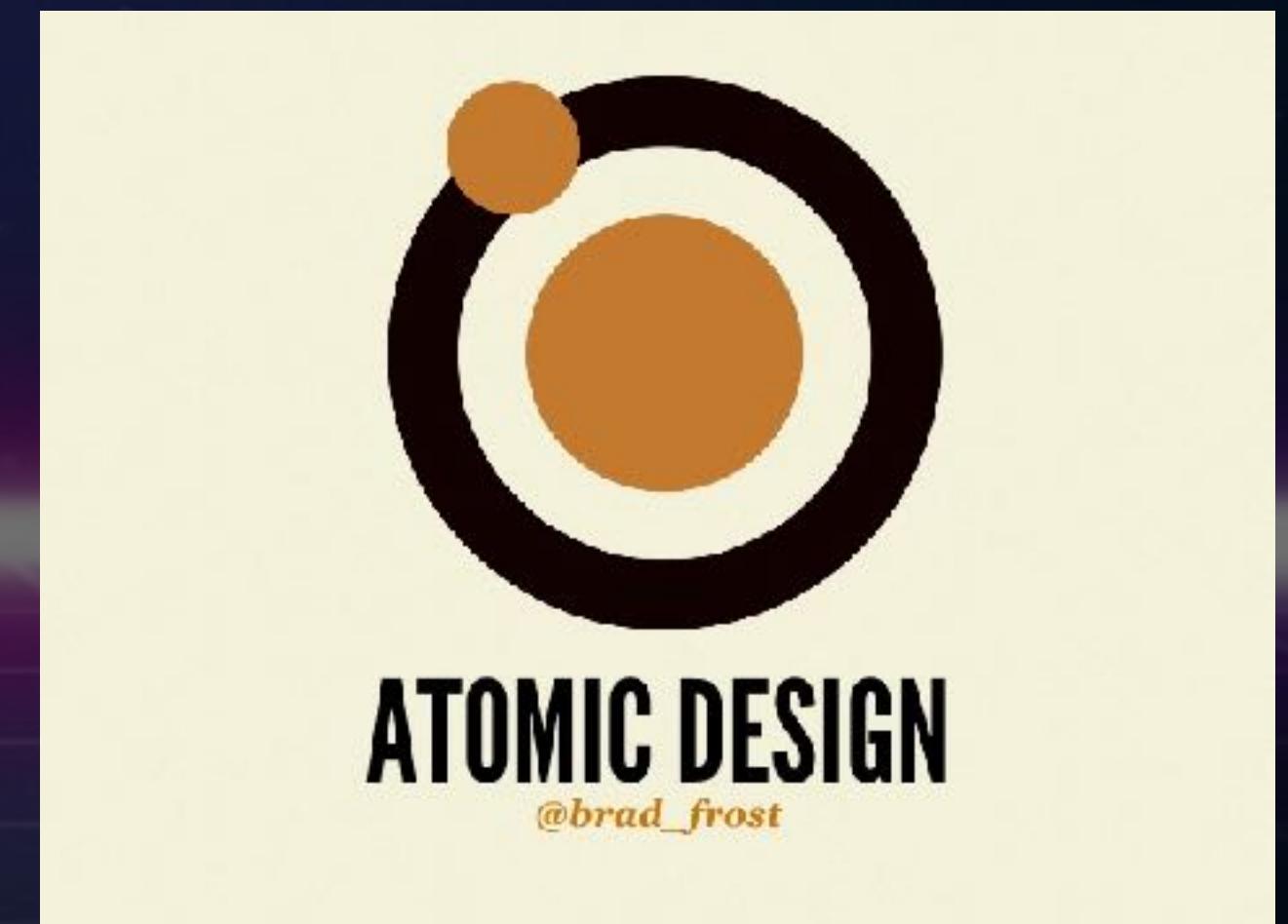
Double-Double Block_Element--Modifier

Single-Single

Block_Element-Modifier

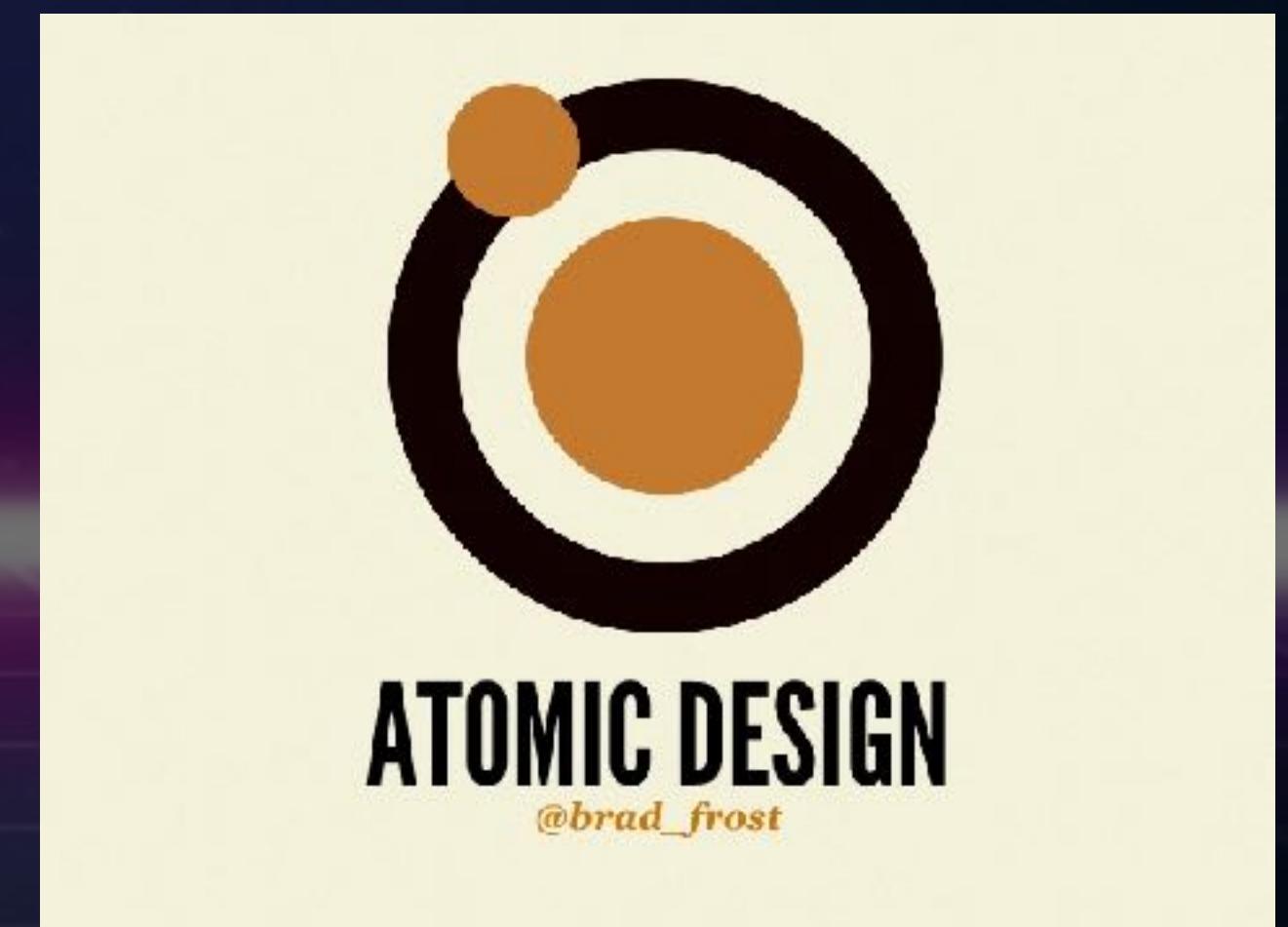


inuitcss



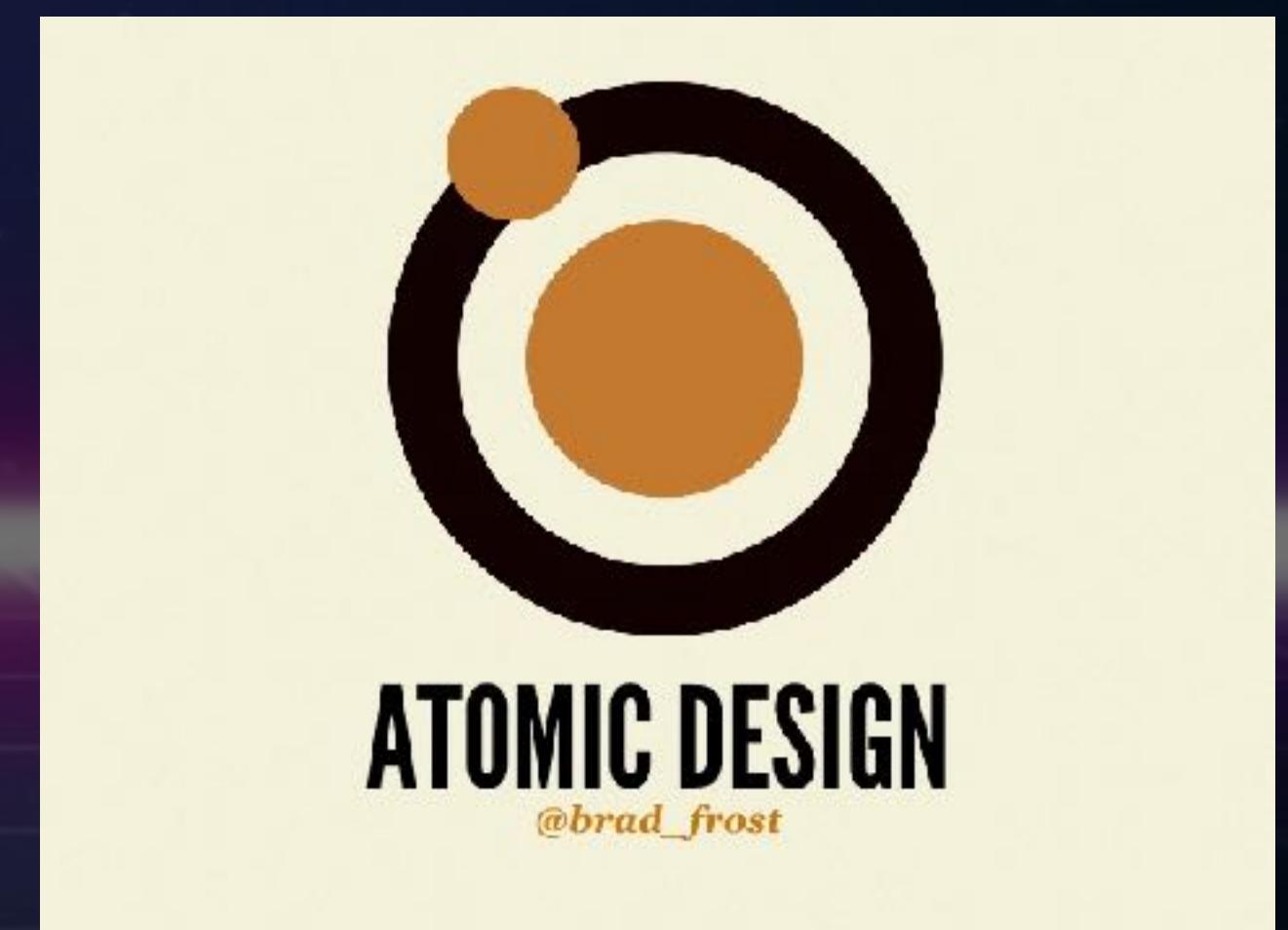


inuitcss



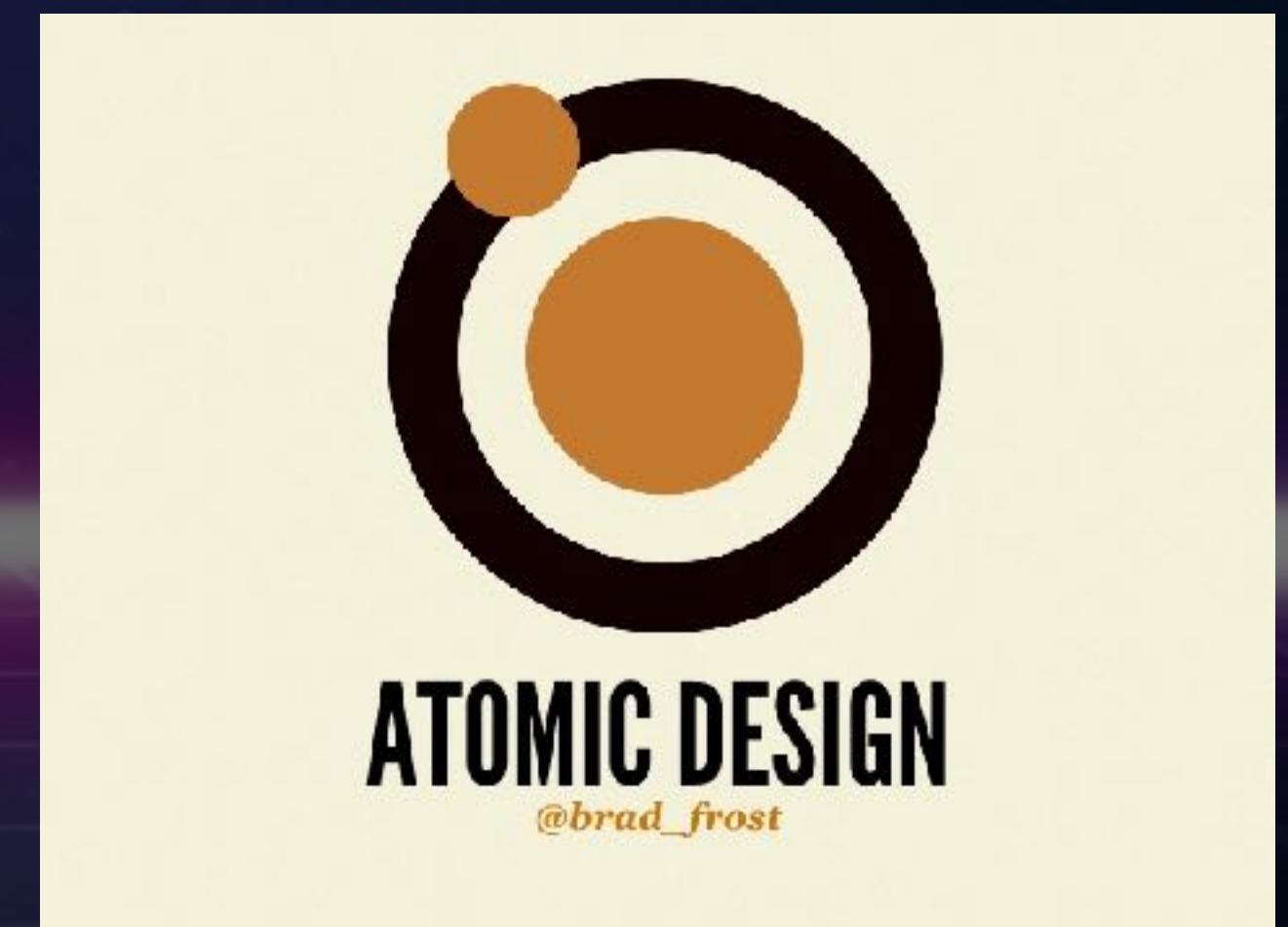


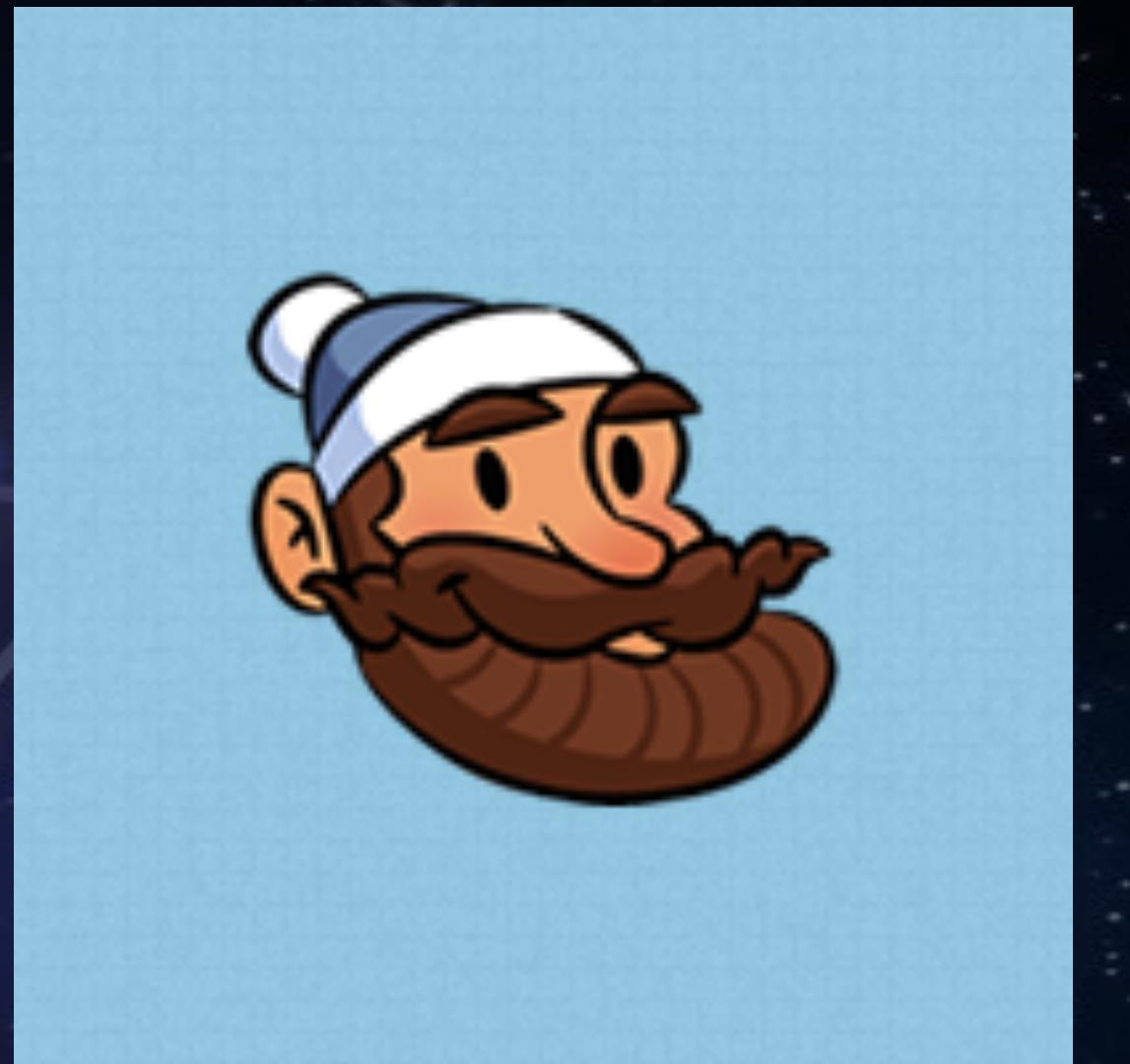
inuitcss





inuitcss





inuitcss



**MAKES WRITING
CSS FUN!**

**MAKES WRITING
CSS FUN!**

MAINTAINABLE



**MAKES WRITING
CSS FUN!**

MAINTAINABLE MODULAR



**MAKES WRITING
CSS FUN!**

MAINTAINABLE

MODULAR

FLEXIBLE



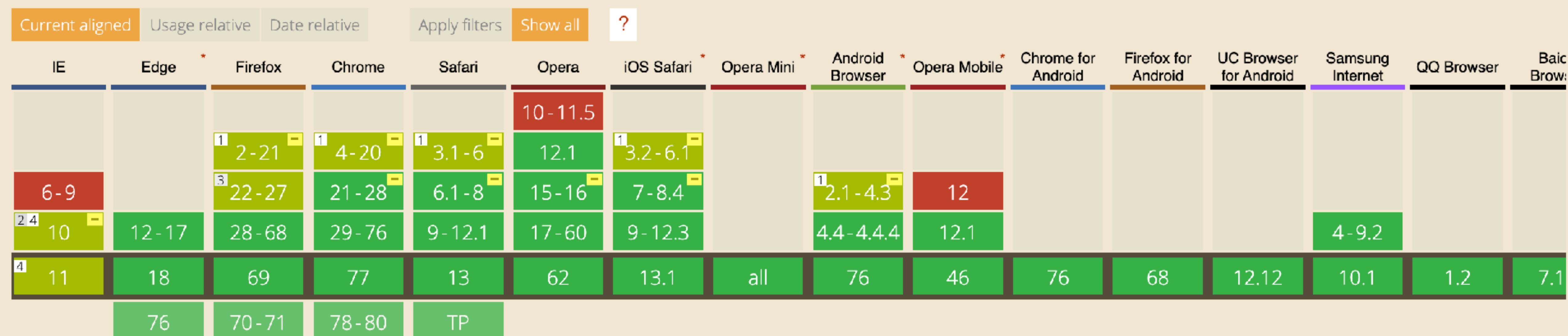
<https://bit.ly/2GRhU2T>

FLEXBOX

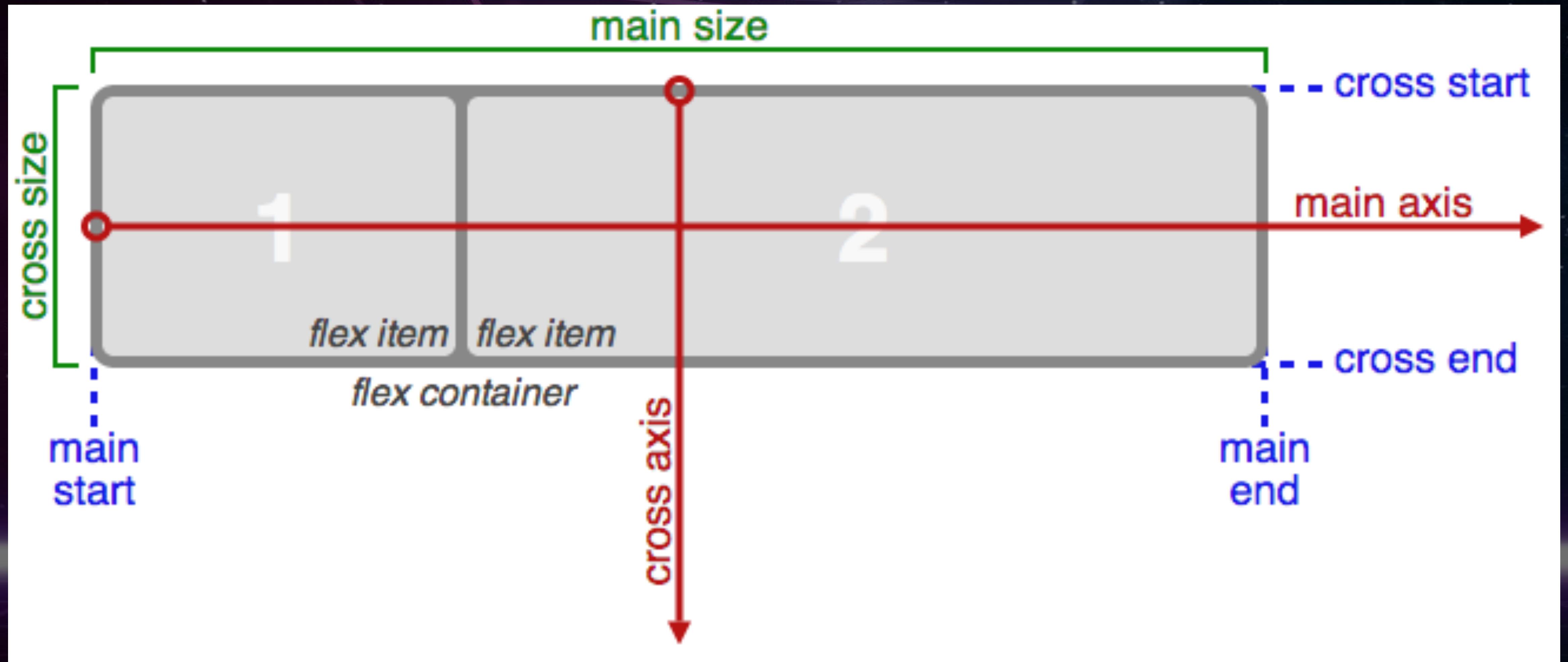
CSS Flexible Box Layout Module - CR

Method of positioning elements in horizontal or vertical stacks.
Support includes all properties prefixed with `flex`, as well as
`display: flex`, `display: inline-flex`, `align-content`, `align-items`, `align-self`, `justify-content` and `order`.

Usage	% of all users
Global	94.69% + 3.37% = 98.06%
unprefixed:	94.56% + 2.07% = 96.63%



one dimension



<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>



#1 PROBLEM



CONNECTCONF



Viewport Units

HTML

```
1 <div>
2   <div class="main-title">
3     <h1>Viewport Units</h1>
4   </div>
5   <div class="hero">
6     <h1>Hero Image</h1>
7   </div>
8 </div>
```

CSS

```
1 :root {
2   --main-bg-color: #fc5c65;
3 }
4
5 .main-title {
6   background-color: var(--main-bg-color);
7   height: 100vh;
8   width: 100vw;
9 }
10
11 h1 {
12   font-family: 'Boogaloo', cursive;
13   font-size: 5em;
14 }
```

JS



Viewport Units

HTML

```
1 <div>
2   <div class="main-title">
3     <h1>Viewport Units</h1>
4   </div>
5   <div class="hero">
6     <h1>Hero Image</h1>
7   </div>
8 </div>
```

CSS

```
1 :root {
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5 .main-title {
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12   font-family: 'Boogaloo', cursive;
13   font-size: 5em;
14 }
```

JS

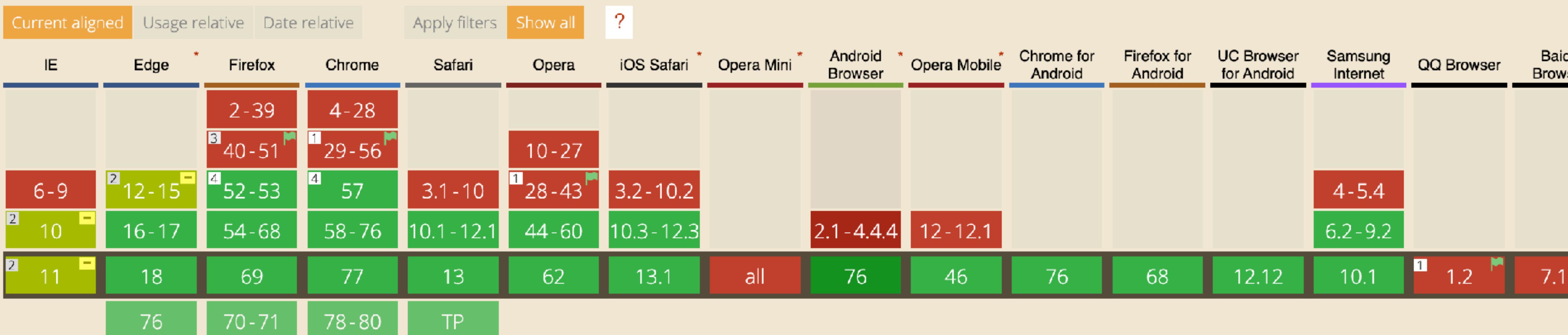


GRID

CSS Grid Layout (level 1) - CR

Usage
Global
unprefixed:
% of all users
 $90.65\% + 2.16\% = 92.81\%$
90.65%

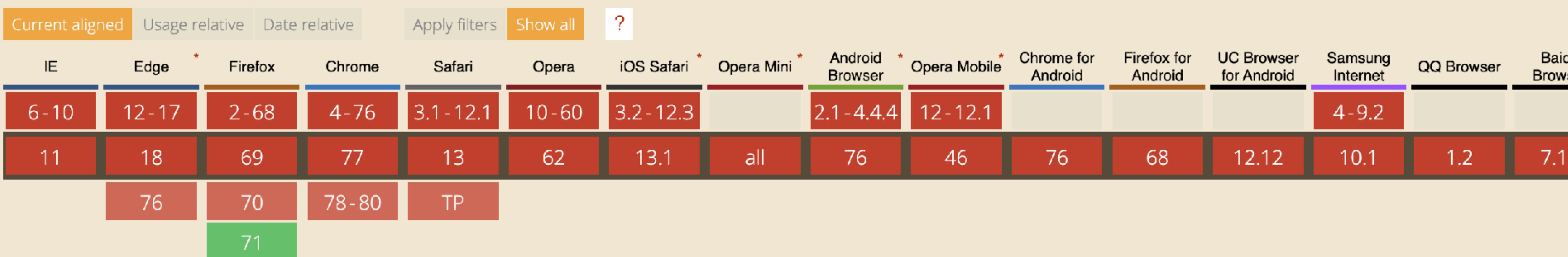
Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors.
Includes support for all `grid-*` properties and the `fr` unit.



CSS Subgrid 📄 - WD

Usage % of all users
Global 0%

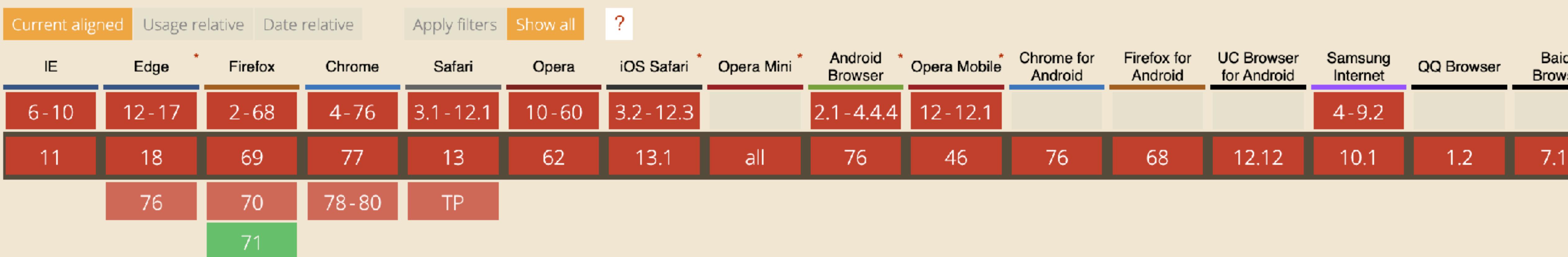
Feature of the CSS Grid Layout Module Level 2 that allows a grid-item with its own grid to align in one or both dimensions with its parent grid.



CSS Subgrid 📄 - WD

Usage % of all users
Global 0%

Feature of the CSS Grid Layout Module Level 2 that allows a grid-item with its own grid to align in one or both dimensions with its parent grid.



MOZILLA DEVELOPER NETWORK

<https://bit.ly/2nXMflg>

TWO DIMENSIONS



ROWS

COLUMNS

Hello Lovely –

I'm a web developer, writer, and artist –
collaborating across media to create experiences
that bring people together.

[Start a conversation »](#)



*My name is Miriam, and this is my face among flowers
& leaves...*

Hello Lovely –

I'm a web developer, writer, and artist –
collaborating across media to create experiences
that bring people together.

[Start a conversation »](#)



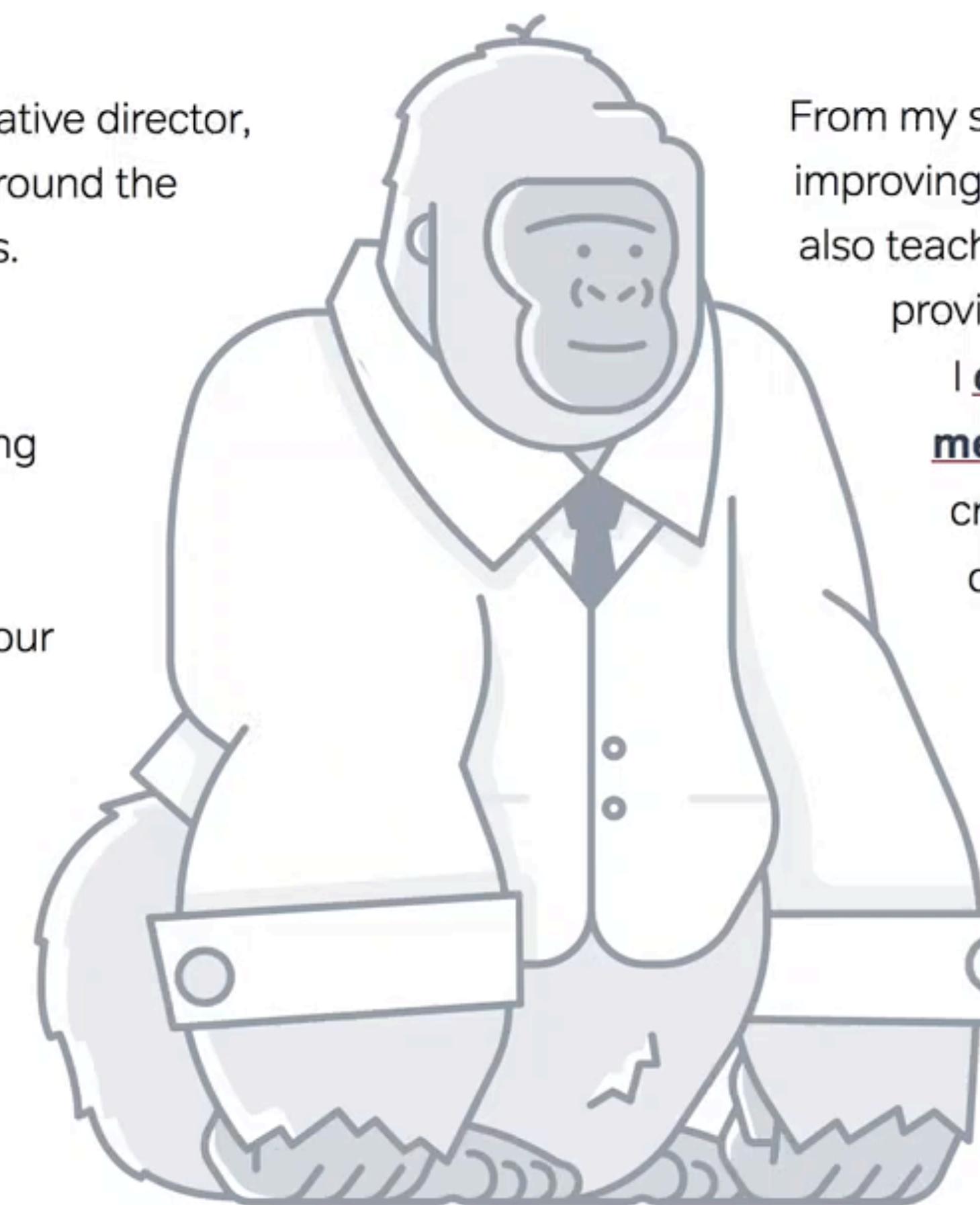
*My name is Miriam, and this is my face among flowers
& leaves...*

Design expertise for winning digital products and websites

My name's [Andy Clarke](#) and I'm an experienced creative director, product and website designer. I help companies around the world by designing winning products and websites.

For 20 years, brands, charities, governments and organisations such as Greenpeace, ISO, SunLife, and WWF have used my [designs](#) to improve their products, positioning and how they do business online.

If you need a product or website design that encourages more business, a design system, or style guide to protect your brand online, or you want your business to deliver a better customer experience across channels, you should [talk to me](#).



From my studio in North Wales, I bring creative, critical thinking to improving products and websites and the businesses behind them. I also teach people how to execute brands across channels and then provide ongoing creative direction and support.

I [coach agency leaders](#) on running a design business and [mentor designers](#) on dealing with clients, and delivering creative projects. I've written three popular [books](#) on website design and am an experienced [speaker](#), presenting regularly on art direction and design at conferences including An Event Apart, Smashing Conference, and Web Directions.

[Agency coaching](#)

I have over 20 years experience running a digital

[Designer mentoring](#)

Strategies for delivering critical projects,

[Part-time Chief Design Officer](#)

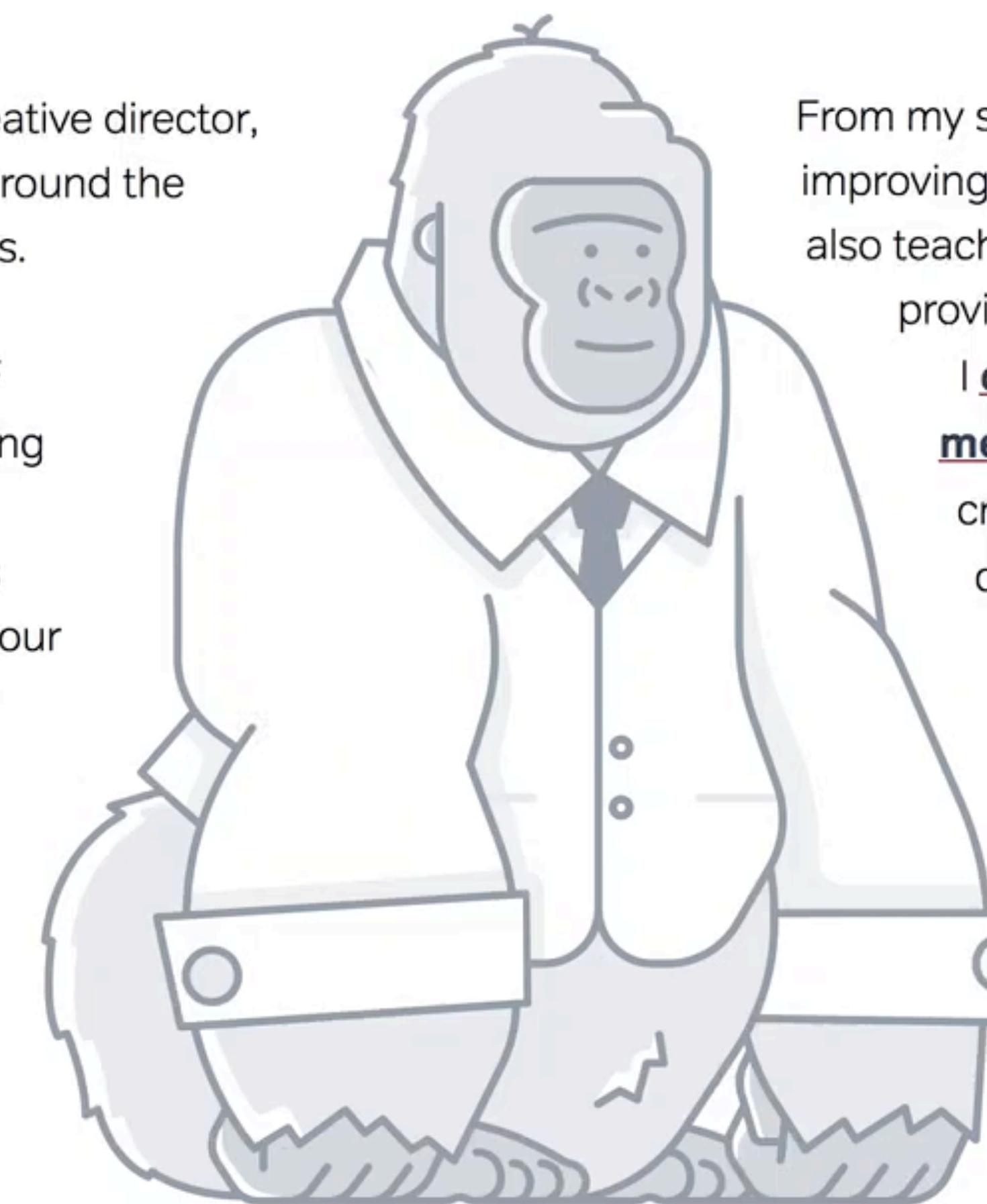
If your company needs somebody who can extract

Design expertise for winning digital products and websites

My name's [Andy Clarke](#) and I'm an experienced creative director, product and website designer. I help companies around the world by designing winning products and websites.

For 20 years, brands, charities, governments and organisations such as Greenpeace, ISO, SunLife, and WWF have used my [designs](#) to improve their products, positioning and how they do business online.

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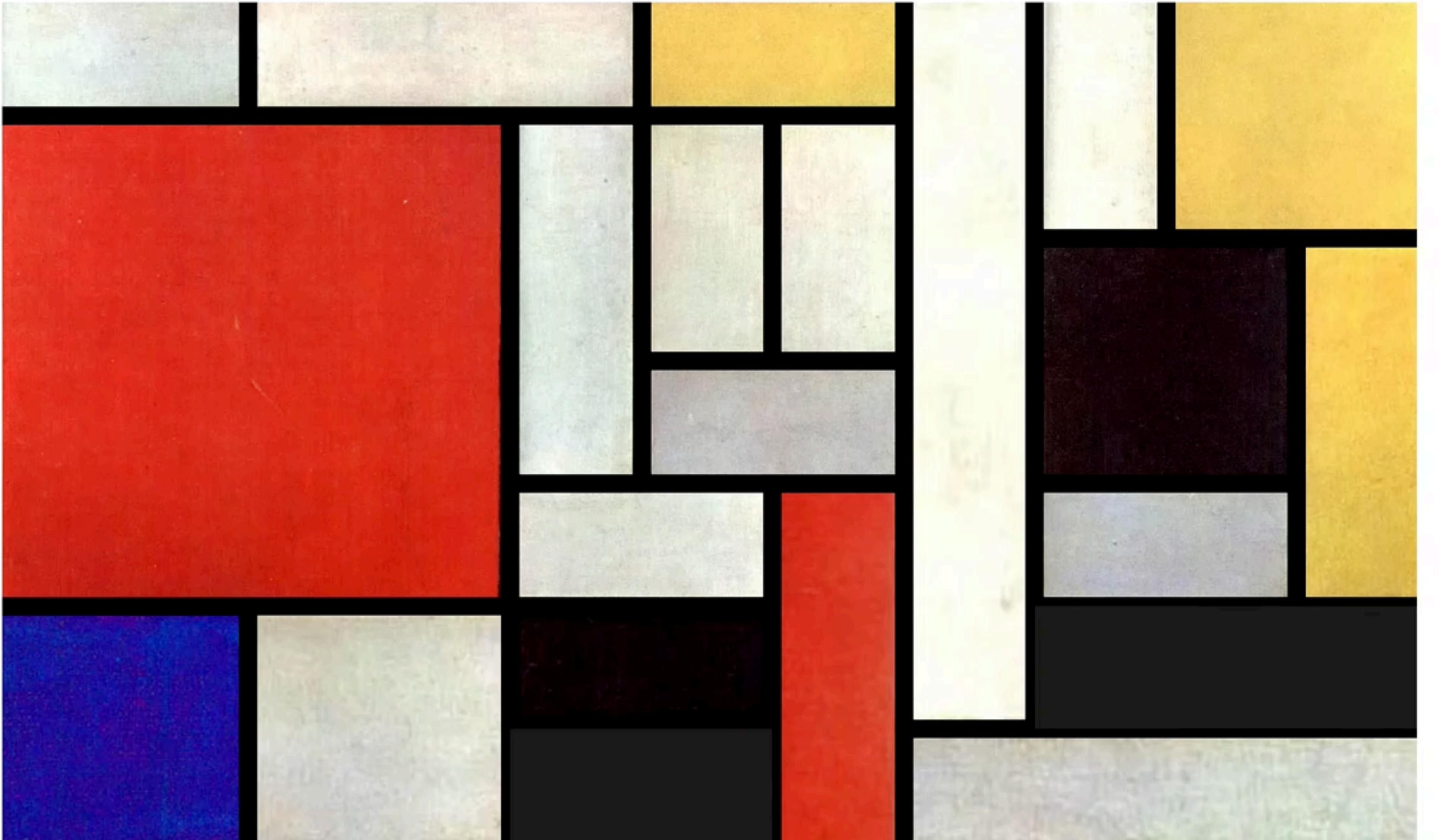
I have over 20 years experience running a digital

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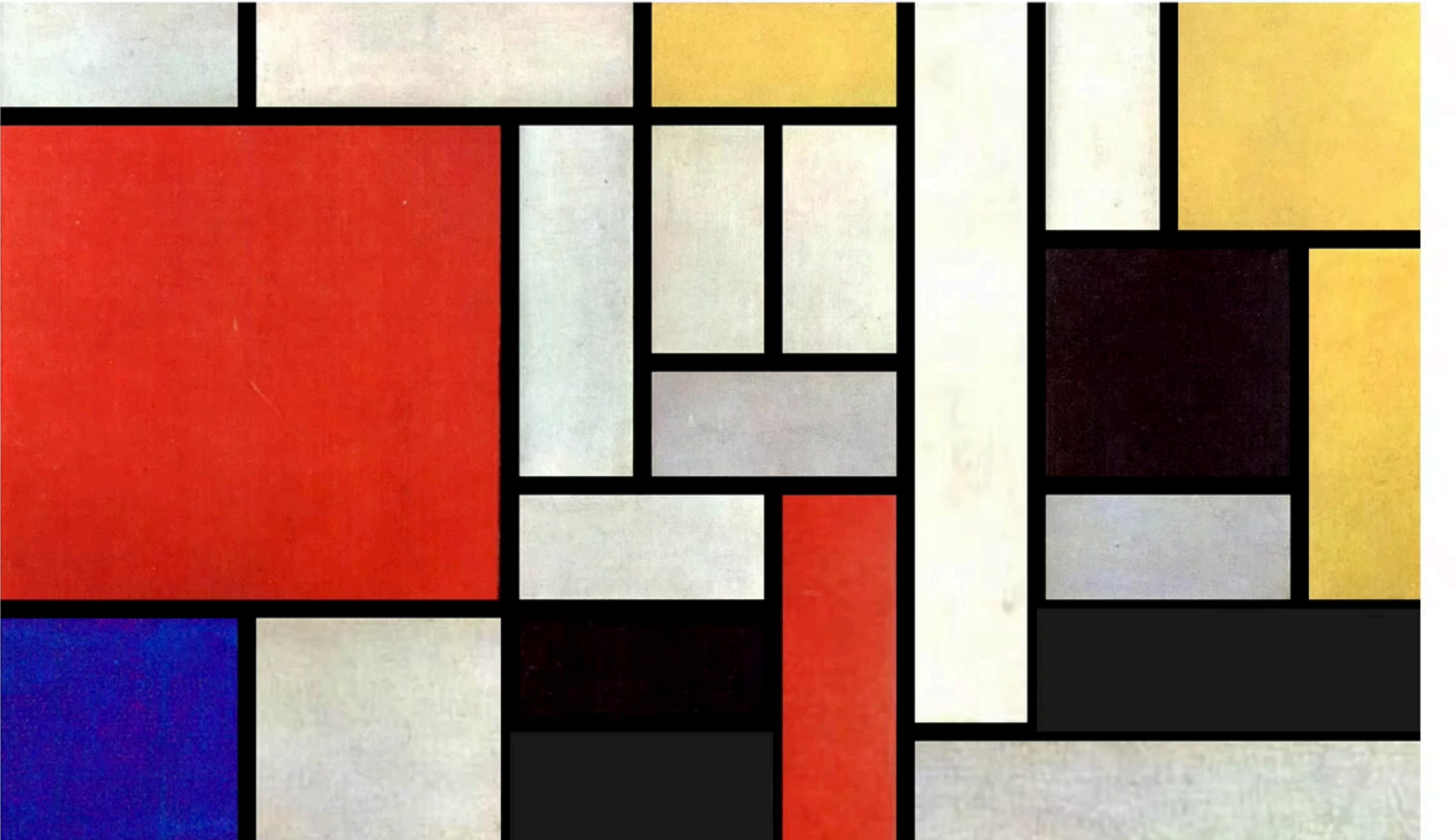
If your company needs somebody who can extract



```
<!DOCTYPE html>
<html dir="ltr" lang="en-us">
  <body>
    <div class="c" style="margin: 0 100px; border: 1px solid black; padding: 10px; width: fit-content; height: fit-content; display: flex; align-items: center; justify-content: center; gap: 10px; margin-bottom: 10px; margin-top: 10px; font-family: sans-serif; font-size: 16px; font-weight: bold; color: black; background-color: #f0f0f0; border-radius: 10px; transition: all 0.3s ease; position: relative; z-index: 1; >
      <div></div>
      <div></div>
    </div>
  </body>
</html>
```

Console

top



```
<!DOCTYPE html>
<html dir="ltr" lang="en-
us">
  <body>
    <div>
      <h1>Hello World</h1>
    </div>
  </body>
</html>
```

html body.C.block-sizes

Styles Computed »

Filter :hover .cls +

```
element.style {
```

}

```
.C { margin: 0 100px; }
```

```
body { margin: 0; }
```

```
* { -webkit-box-sizing: border-box; box-sizing: border-box; }
```

**JAZZ AT LINCOLN CENTER
SPRING 2007**

Bebop Lives!
Celebrating the best of Dizzy Gillespie and Charlie Parker
January 26–27, 8pm

Jazz and Art
The Jazz at Lincoln Center Orchestra with Wynton Marsalis & special guest Mark O'Connor
February 22–24, 8pm

Dr. Michael White Quartet
With clarinetist Dr. Michael White, banjo player Seva Venet, trumpeter Gregg Stafford, and bassist Vince Giordano
March 13, 7:30pm

**New York Youth Symphony:
Dedicated to Diz**
with special guest Jon Faddis
March 14, 8pm

Sinne Eeg
With vocalist Sinne Eeg, pianist Jacob Christoffersen, drummer Clarence Penn, and bassist Johanes

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with special guest Jon Faddis
March 14, 8pm

Sinne Eeg
With vocalist Sinne Eeg, pianist Jacob Christoffersen, drummer Clarence Penn, and bassist Johanes



The image shows a Holy Grail Grid layout with four colored sections: Header (teal), Sidebar A (yellow), Main (pink), and Footer (purple). The Header section contains the text "Header". The Sidebar A section contains the text "Sidebar A". The Main section contains the text "Main". The Footer section contains the text "Footer".

 **HTML**

```
1 <div class="grid">
2
3   <header class="header">
4     <h1>Header</h1>
5   </header>
6
7   <aside class="sidebar-a">
8     <h1>Sidebar A</h1>
9   </aside>
10
11  <main class="main">
12    <h1>Main</h1>
13  </main>
14
15  <aside class="sidebar-b">
16    <h1>Sidebar B</h1>
17  </aside>
18
19  <footer class="footer">
20    <h1>Footer</h1>
21  </footer>
22
23 </div>
```

 **CSS**

 **JS**



The image shows a Holy Grail Grid layout with four colored sections: Header (teal), Sidebar A (yellow), Main (pink), and Footer (purple). The Header section contains the text "Header". The Sidebar A section contains the text "Sidebar A". The Main section contains the text "Main". The Footer section contains the text "Footer".

 **HTML**

```
1 <div class="grid">
2
3   <header class="header">
4     <h1>Header</h1>
5   </header>
6
7   <aside class="sidebar-a">
8     <h1>Sidebar A</h1>
9   </aside>
10
11  <main class="main">
12    <h1>Main</h1>
13  </main>
14
15  <aside class="sidebar-b">
16    <h1>Sidebar B</h1>
17  </aside>
18
19  <footer class="footer">
20    <h1>Footer</h1>
21  </footer>
22
23 </div>
```

 **CSS**

 **JS**



Jen Simmons



Rachel Andrew





Firefox Quantum

59.0.2 (64-bit) [What's new](#)

Firefox is up to date

Firefox is designed by [Mozilla](#), a [global community](#) working together to keep the Web open, public and accessible to all.

Want to help? [Make a donation](#) or [get involved!](#)

[Licensing Information](#)

[End-User Rights](#)

[Privacy Policy](#)

Firefox and the Firefox logos are trademarks of the Mozilla Foundation.

Sidebar
A

Main

Sidebar
B

Footer

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body translate="no">
    <div class="grid">
      <header class="header">...</header>
      <aside class="sidebar-a">...</aside>
      <main class="main">...</main>
      <aside class="sidebar-b">...</aside>
      <footer class="footer">...</footer>
    </div>
  </body>
</html>
```

html > body > div.grid > header.header

Rules Computed Layout Animations Fonts

Filter Styles

element { } inline:18px

.grid { } inline:18px

✓ display: grid;
✓ grid-template-columns: 150px auto 150px;
✓ grid-template-rows: auto 1fr auto;
✓ grid-gap: 1em;
✓ height: 100vh;

html, body, div, span, applet, object, iframe, h1, h2, h3, reset.min.css:18px

h4, h5, h6, p, blockquote, pre, a, abbr, acronym, address, big, cite, code, del, dfn, em, img, ins, kbd, q, s, samp, small, strong, sub, sup, tt, var, b, u, i, center, dl, dt, dd, ol, ul, li, fieldset, form, label, legend, table, caption, tbody, tfoot, thead, tr, th, td, article, aside, canvas, details, embed, figure, figcaption, footer, header, hgroup, menu, nav, output, ruby, section, summary, time, mark, audio, video { } margin: 0; padding: 0;

Sidebar
A

Main

Sidebar
B

Footer

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body translate="no">
    <div class="grid">
      <header class="header">...</header>
      <aside class="sidebar-a">...</aside>
      <main class="main">...</main>
      <aside class="sidebar-b">...</aside>
      <footer class="footer">...</footer>
    </div>
  </body>
</html>
```

html > body > div.grid > header.header

Rules Computed Layout Animations Fonts

Filter Styles

element { } inline:18px

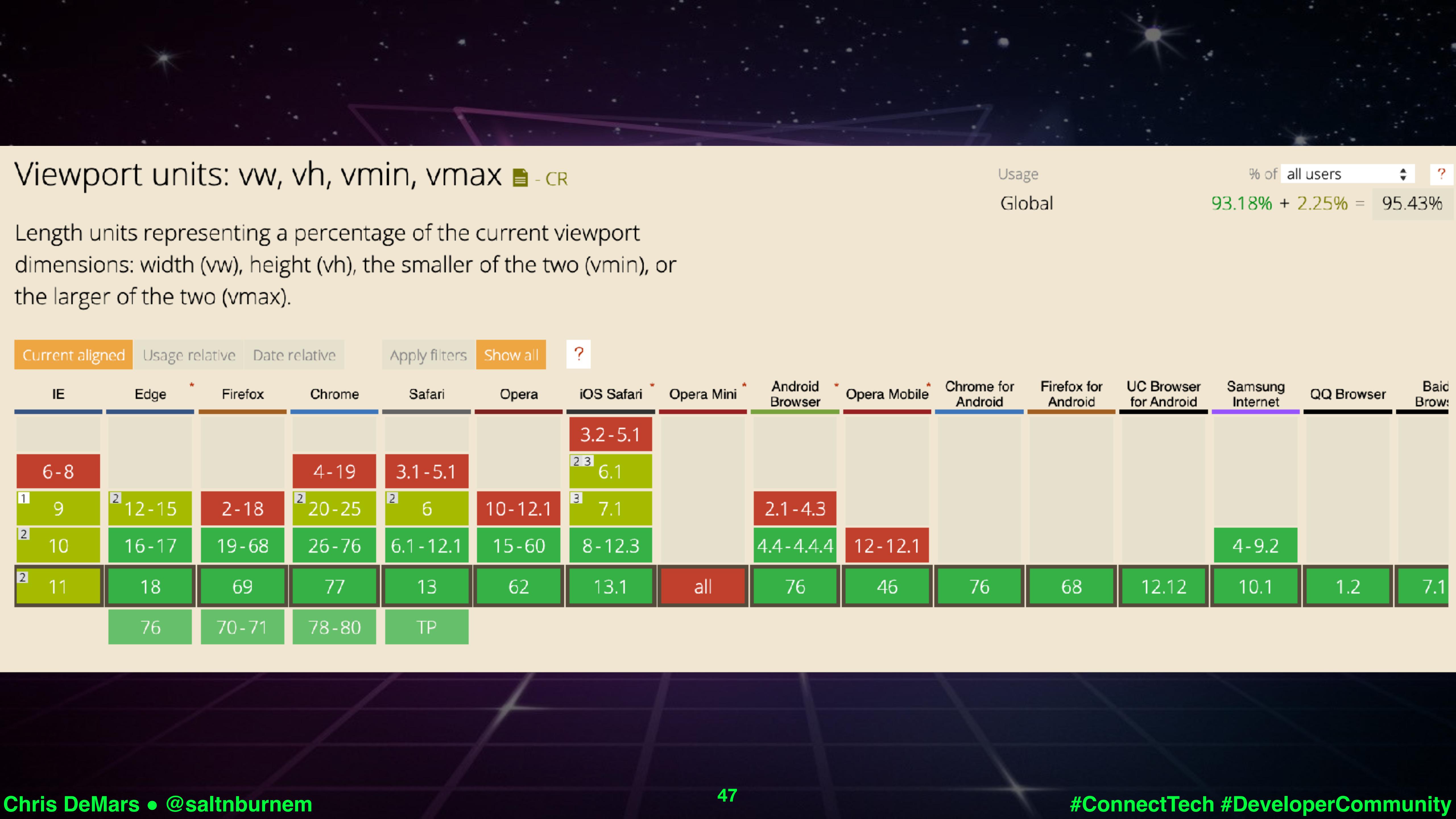
.grid { } inline:18px

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✓ grid-template-columns: 150px auto 150px;
✓ grid-template-rows: auto 1fr auto;
✓ grid-gap: 1em;
✓ height: 100vh;

html, body, div, span, applet, object, iframe, h1, h2, h3, reset.min.css:18px

h4, h5, h6, p, blockquote, pre, a, abbr, acronym, address, big, cite, code, del, dfn, em, img, ins, kbd, q, s, samp, small, strong, sub, sup, tt, var, b, u, i, center, dl, dt, dd, ol, ul, li, fieldset, form, label, legend, table, caption, tbody, tfoot, thead, tr, th, td, article, aside, canvas, details, embed, figure, figcaption, footer, header, hgroup, menu, nav, output, ruby, section, summary, time, mark, audio, video { } margin: 0; padding: 0;

VIEWPORT UNITS





```
.main-title {  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    background-color: rebeccapurple;  
    height: 100vh;  
    width: 100vh;  
}
```



```
.main-title {  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    background-color: rebeccapurple;  
    height: 100vh;  
    width: 100vh;  
}
```

Viewport Units Hero Image

HTML

```
1 <div>
2   <div class="main-title">
3     <h1>Viewport Units</h1>
4   </div>
5   <div class="hero">
6     <h1>Hero Image</h1>
7   </div>
8 </div>
```

CSS

```
1 .main-title {
2   display: flex;
3   justify-content: center;
4   align-items: center;
5   flex-direction: column;
6   background-color: #26de81;
7 }
8
9 h1 {
10   font-family: 'Boogaloo', cursive;
11   font-size: 5em;
12 }
13
14 .hero {
15   display: flex;
16   justify-content: center;
17   align-items: center;
18   flex-direction: column;
19   background-color: #0fb9b1;
20 }
```

JS



Viewport Units Hero Image

HTML

```
1 <div>
2   <div class="main-title">
3     <h1>Viewport Units</h1>
4   </div>
5   <div class="hero">
6     <h1>Hero Image</h1>
7   </div>
8 </div>
```

CSS

```
1 .main-title {
2   display: flex;
3   justify-content: center;
4   align-items: center;
5   flex-direction: column;
6   background-color: #26de81;
7 }
8
9 h1 {
10   font-family: 'Boogaloo', cursive;
11   font-size: 5em;
12 }
13
14 .hero {
15   display: flex;
16   justify-content: center;
17   align-items: center;
18   flex-direction: column;
19   background-color: #0fb9b1;
20 }
```

JS

CSS

VARIABLES

(CUSTOM PROPS)

CSS Variables (Custom Properties) - CR

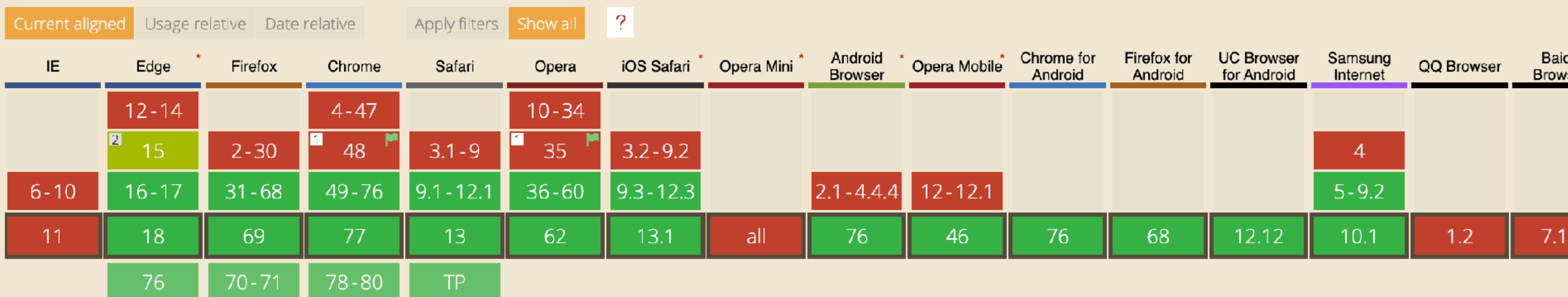
Usage

% of all users



91.8% + 0.03% = 91.83%

Permits the declaration and usage of cascading variables in stylesheets.



CSS Variables (Custom Properties) - CR

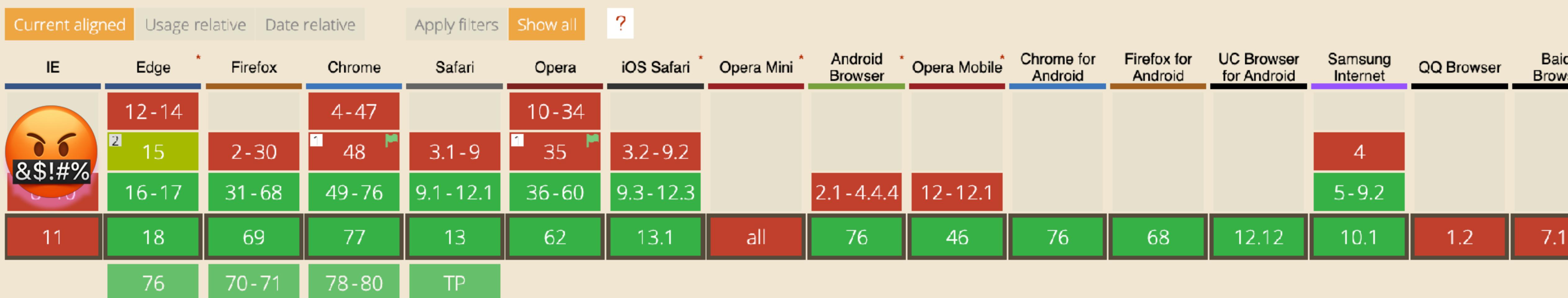
Usage

% of all users



91.8% + 0.03% = 91.83%

Permits the declaration and usage of cascading variables in stylesheets.



SASS & LESS VARIABLES

DRAWBACKS

DOM UNAWARE

CAN'T CHANGE DYNAMICALLY

NO JS TARGETS

PROS OF CSS WARS

INHERITANCE

CASCADE

JS TARGETS

USE CASES FOR CUSTOM PROPS

EMULATE non-EXISTENT RULES



```
.test {  
  --box-shadow-color: yellow;  
  box-shadow: 0 0 30px var(--box-shadow-color);  
}  
  
.test:hover {  
  --box-shadow-color: orange;  
  /* Instead of: box-shadow: 0 0 30px orange; */  
}
```

THEMES



```
.btn {  
  --shadow-color: #777;  
  --gradient-from-color: #3498db;  
  --gradient-to-color: #2980b9;  
  --color: #ffffff;  
  
  background-image: linear-gradient(  
    to bottom,  
    var(--gradient-from-color),  
    var(--gradient-to-color)  
  );  
  text-shadow: 1px 1px 3px var(--shadow-color);  
  box-shadow: 0px 1px 3px var(--shadow-color);  
  border-radius: 28px;  
  color: var(--color);  
  padding: 10px 20px 10px 20px;  
}
```

SUPPORT?



```
section {  
  color: green;  
}  
  
@supports(--css: variables) {  
  section {  
    --my-color: magenta;  
    color: var(--my-color, 'magenta');  
  }  
}
```

<https://bit.ly/2opAqp4>

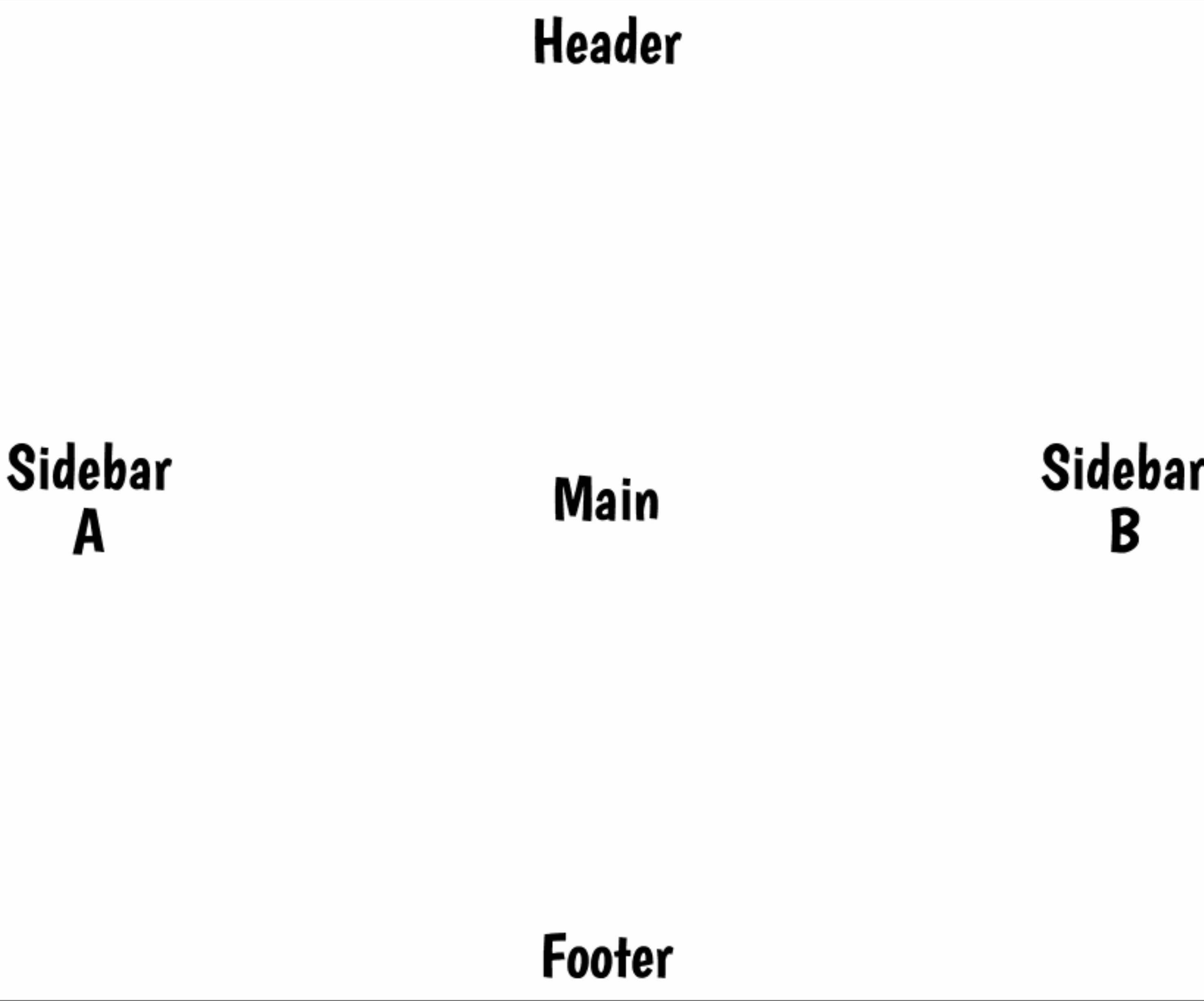
CSS VARIABLES SYNTAX



```
:root {  
  --header-color: #0fb9b1;  
  --sidebar-color: #f7b731;  
  --main-color: #eb3b5a;  
  --footer-color: #a55eea;  
}
```



```
.header {  
  background-color: var(--header-color);  
  grid-row: 1;  
  grid-column: 1 / 4;  
}  
  
.sidebar-a {  
  background-color: var(--sidebar-color);  
  grid-row: 2;  
  grid-column: 1 / 2;  
}
```



Header

Main

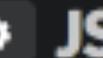
Sidebar A

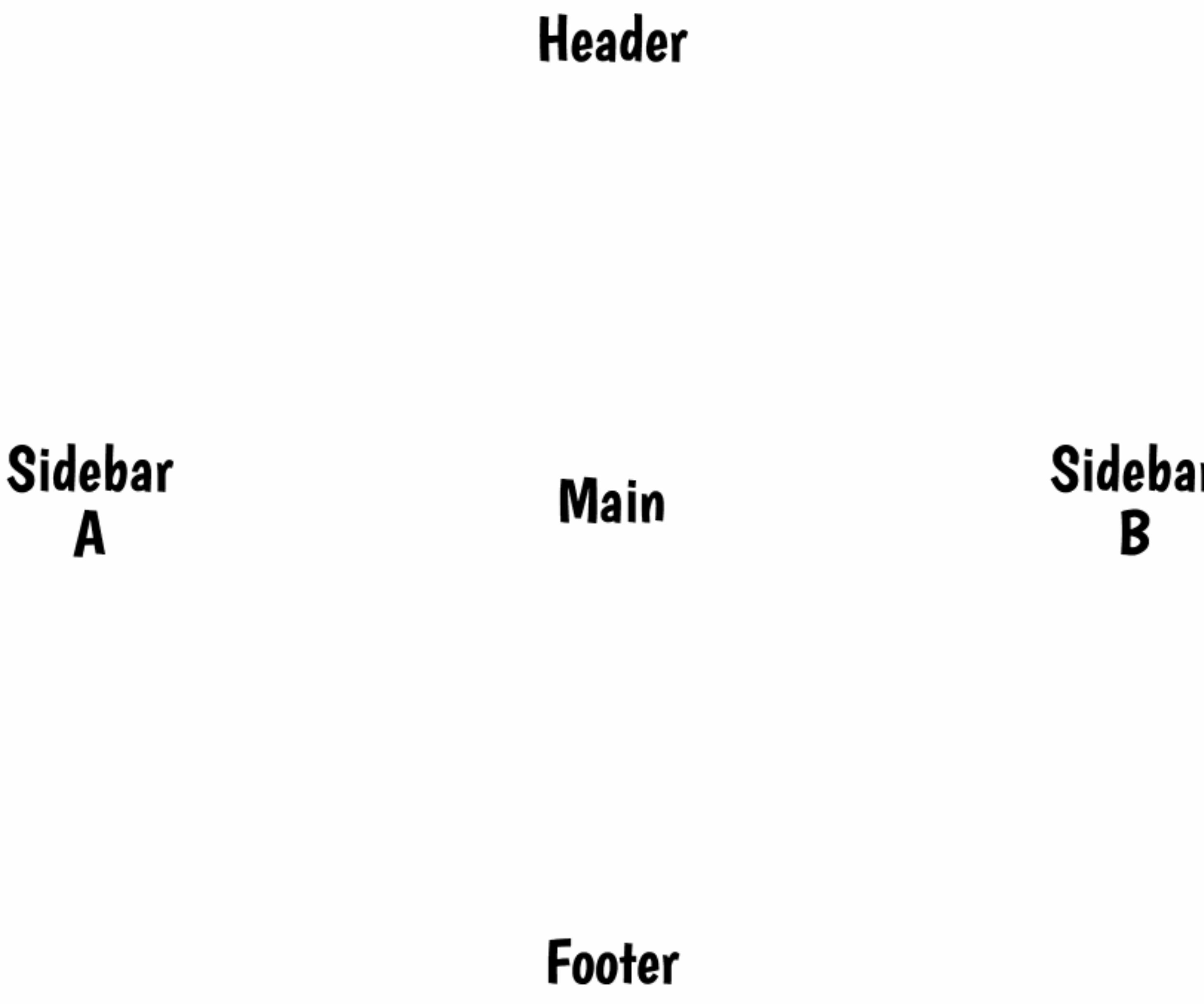
Footer

 HTML

 CSS

```
1  :root {  
2  /* --header-color: #0fb9b1;  
3  --sidebar-color: #f7b731;  
4  --main-color: #eb3b5a;  
5  --footer-color: #a55eea; */  
6  }  
7  
8  h1 {  
9    font-family: 'Boogaloo', cursive;  
10   font-size: 3em;  
11 }  
12  
13 ****  
14 * Grid styles  
15 ****/  
16  
17 .grid {  
18   display: grid;  
19   grid-template-columns: 150px auto 150px;  
20   grid-template-rows: auto 1fr auto;  
21   grid-gap: 1em;  
22   height: 100vh;  
23 }  
24  
25 .header {  
26 /* background-color: var(--header-color); */  
27   grid-row: 1;  
28   grid-column: 1 / 4;  
29 }  
30  
31 .sidebar-a {  
32 /* background-color: var(--sidebar-color); */
```

 JS



Header

Sidebar A

Main

Sidebar B

Footer

HTML

CSS

```
1  :root {  
2  /*  --header-color: #0fb9b1;  
3  --sidebar-color: #f7b731;  
4  --main-color: #eb3b5a;  
5  --footer-color: #a55eea; */  
6  }  
7  
8  h1 {  
9    font-family: 'Boogaloo', cursive;  
10   font-size: 3em;  
11 }  
12  
13  ****  
14  * Grid styles  
15  ****  
16  
17 .grid {  
18   display: grid;  
19   grid-template-columns: 150px auto 150px;  
20   grid-template-rows: auto 1fr auto;  
21   grid-gap: 1em;  
22   height: 100vh;  
23 }  
24  
25 .header {  
26 /*  background-color: var(--header-color); */  
27   grid-row: 1;  
28   grid-column: 1 / 4;  
29 }  
30  
31 .sidebar-a {  
32 /*  background-color: var(--sidebar-color); */  
33 }
```

JS

Blend Modes

CSS background-blend-mode

- CR

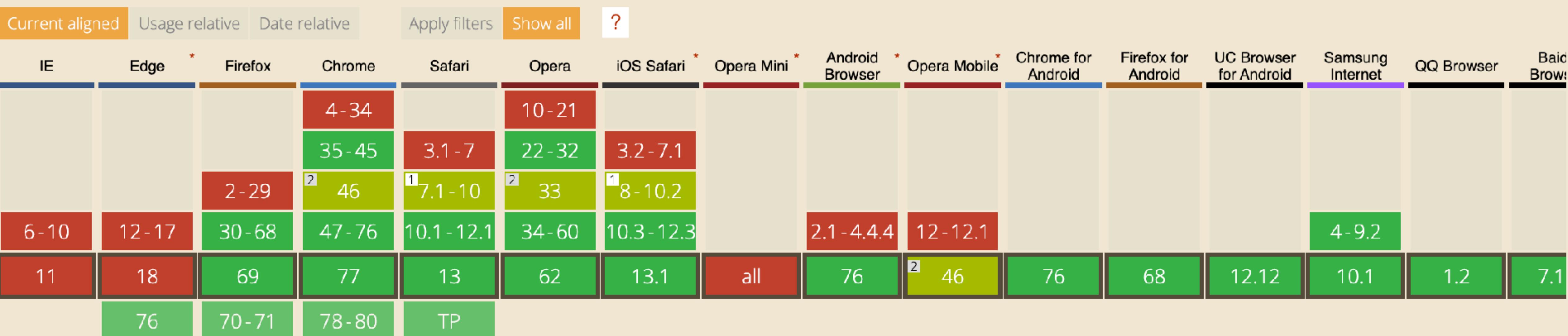
Usage

Global

% of all users

90.49% + 0.38% = 90.87%

Allows blending between CSS background images, gradients, and colors.



CSS background-blend-mode

- CR

Usage

Global

% of all users

90.49% + 0.38% = 90.87%

Allows blending between CSS background images, gradients, and colors.

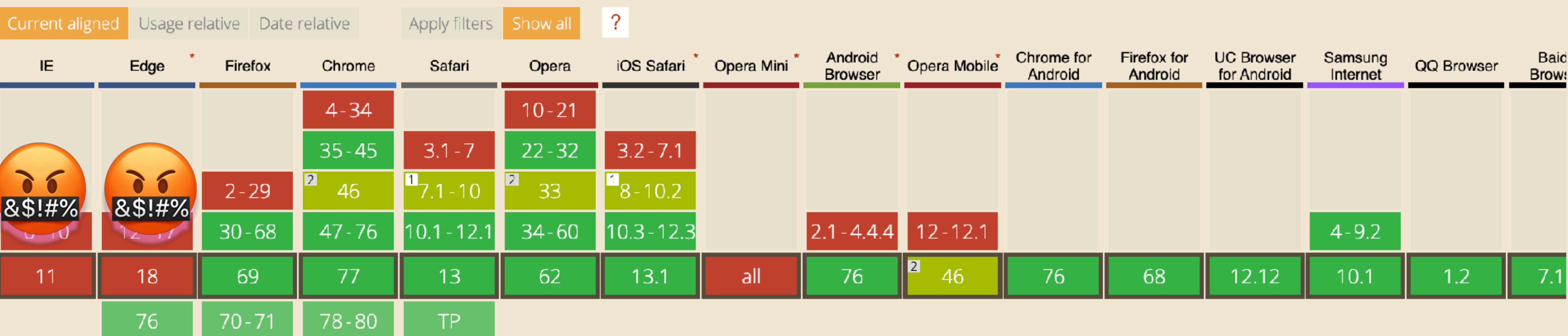


IMAGE EFFECTS IN THE BROWSER

PS



TYPES

TYPES

BACKGROUND BLEND MODE

TYPES

BACKGROUND BLEND MODE

MIXED BLEND MODE

MIXED BLEND MODE

MIXED BLEND MODE

**INITIAL: DEFAULT SETTING OF THE PROPERTY
THAT DOES NOT SET A BLEND MODE.**

MIXED BLEND MODE

INITIAL: DEFAULT SETTING OF THE PROPERTY THAT DOES NOT SET A BLEND MODE.

INHERIT: INHERITS THE BLEND MODE FROM ITS PARENT.

MIXED BLEND MODE

INITIAL: DEFAULT SETTING OF THE PROPERTY THAT DOES NOT SET A BLEND MODE.

INHERIT: INHERITS THE BLEND MODE FROM ITS PARENT.

UNSET: REMOVES THE BLEND MODE FROM AN ELEMENT.

Blend Modes



 HTML

 CSS

```
37
38 ***** Background Blend Modes *****
39
40 .multiply {
41   background:
42     url('https://source.unsplash.com/user/erondu/');
43   /* background-color: #fc5c65;
44   background-blend-mode: multiply; */
45 }
46
47 .screen {
48   background:
49     url('https://source.unsplash.com/user/erondu/');
50   /* background-color: #fd9644;
51   background-blend-mode: screen; */
52 }
53
54 .overlay {
55   background:
56     url('https://source.unsplash.com/user/erondu/');
57   /* background-color: #fed330;
58   background-blend-mode: overlay; */
59 }
60
61 .darken {
62   background:
63     url('https://source.unsplash.com/user/erondu/');
64   /* background-color: #26de81;
```

 JS



Blend Modes



HTML

CSS

```
37  
38 ***** Background Blend Modes *****  
39  
40 .multiply {  
41   background:  
42     url('https://source.unsplash.com/user/erond/');  
43   /* background-color: #fc5c65;  
44   background-blend-mode: multiply; */  
45 }  
46  
47 .screen {  
48   background:  
49     url('https://source.unsplash.com/user/erond/');  
50   /* background-color: #fd9644;  
51   background-blend-mode: screen; */  
52 }  
53  
54 .overlay {  
55   background:  
56     url('https://source.unsplash.com/user/erond/');  
57   /* background-color: #fed330;  
58   background-blend-mode: overlay; */  
59 }  
60  
61 .darken {  
62   background:  
63     url('https://source.unsplash.com/user/erond/');  
64   /* background-color: #26de81;  
65 }
```

JS





NUMEROLOGY

NUMEROLOGY

ACCESSIBILITY

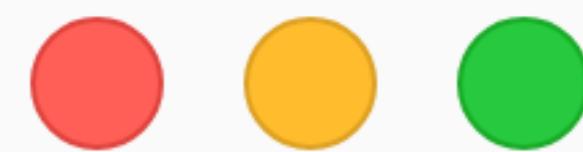
A 1 2 3 4 5 6 7 8 9 10 11 Y

A11Y



FOCUS

DON'T DO THIS!



```
:focus {  
  outline: 0;  
}
```



```
:focus {  
  outline: none;  
}
```

DON'T DO THIS!



```
:focus {  
    outline: 0;  
}
```



```
:focus {  
    outline: none;  
}
```

This is :focus!

input...

:focus

CLICK HERE!

HTML

```
1 <div class="flex-wrapper">
2   <h1>This is :focus!</h1>
3   <input type="text" placeholder="input...">
4   <button type="submit">:focus</button>
5   <button type="submit" class="focus-btn">CLICK
6     HERE!</button>
7   </div>
```

CSS

```
1 body {
2   background-color: #26de81;
3 }
4
5 h1,
6 h2{
7   font-family: 'Boogaloo', cursive;
8   text-align: center;
9   margin-bottom: 20px;
10 }
11
12 h1 {
13   font-size: 5em;
14 }
15
```

JS

This is :focus!

input...

:focus

CLICK HERE!

HTML

```
1 <div class="flex-wrapper">
2   <h1>This is :focus!</h1>
3   <input type="text" placeholder="input...">
4   <button type="submit">:focus</button>
5   <button type="submit" class="focus-btn">CLICK
6     HERE!</button>
7 </div>
```

CSS

```
1 body {
2   background-color: #26de81;
3 }
4
5 h1,
6 h2{
7   font-family: 'Boogaloo', cursive;
8   text-align: center;
9   margin-bottom: 20px;
10 }
11
12 h1 {
13   font-size: 5em;
14 }
15
```

JS



FOCUS-VISIBLE

8 Location Pseudo-classes

- 8.1 The Hyperlink Pseudo-class: ':any-link'
- 8.2 The Link History Pseudo-classes: ':link' and ':visited'
- 8.3 The Local Link Pseudo-class: ':local-link'
- 8.4 The Target Pseudo-class: ':target'
- 8.5 The Target Container Pseudo-class: ':target-within'
- 8.6 The Reference Element Pseudo-class: ':scope'

9 User Action Pseudo-classes

- 9.1 The Pointer Hover Pseudo-class: ':hover'
- 9.2 The Activation Pseudo-class: ':active'
- 9.3 The Input Focus Pseudo-class: ':focus'
- 9.4 The Focus-Indicated Pseudo-class: ':focus-visible'
- 9.5 The Focus Container Pseudo-class: ':focus-within'
- 9.6 The Drop Target Pseudo-class: ':drop' and ':drop()'

10 Time-dimensional Pseudo-classes

- 10.1 The Current-element Pseudo-class: ':current'
- 10.2 The Past-element Pseudo-class: ':past'
- 10.3 The Future-element Pseudo-class: ':future'

11 Resource State Pseudos

- 11.1 Video/Audio Play State: the ':playing' and ':paused' pseudo-classes

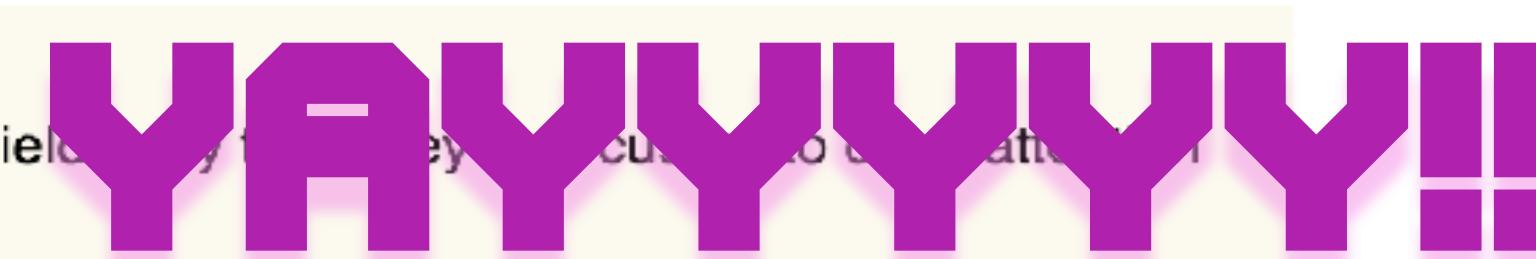
12 The Input Pseudo-classes

- 12.1 Input Control States
- 12.1.1 The ':enabled' and ':disabled' Pseudo-classes

§ 9.4. The Focus-Indicated Pseudo-class: ':focus-visible'

The '[:focus-visible](#)' pseudo-class applies while an element matches the '[:focus](#)' pseudo-class and the UA determines via heuristics that the focus should be made evident on the element. (Many browsers show a "focus ring" by default in this case.)

EXAMPLE 36

For example, UAs typically display focus indicators on text fields,  because they are focused due to keyboard input, which may affect their contents.

On the other hand, UAs typically only display focus indicators on buttons when they were focused by a keyboard interaction (such as tabbing through the document)—because it's not always immediately obvious where the focus has gone after such an interaction, but is sufficiently self-evident when the button was focused by more obviously-targetted interactions, like clicking on the button with a mouse pointer.

Page authors should follow these guidelines when deciding whether to use '[:focus](#)' or '[:focus-visible](#)' to style the focused state of an element:

- If the element has "native" focus indicator behavior (such as text fields or buttons), use '[:focus-visible](#)'.
- Otherwise, if the element is emulating a text input, or something else that is *intended* to receive keyboard interaction, use '[:focus](#)'.
- Otherwise, use '[:focus-visible](#)'.

When UAs choose to specially indicate focus on an element, or whether they specially indicate focus at all, is UA-dependent. Different UAs, the same UA on different operating systems, or the same UA on the same OS, but with different user settings, can make different choices as to when an element matches '[:focus-visible](#)'.

EXAMPLE 37

The following guidelines are suggested heuristics for choosing when to apply '[:focus-visible](#)' to elements without "native" focus indicator behavior:

FOCUS-VISIBLE POLYFILL

<https://github.com/WICG/focus-visible>



```
.js-focus-visible :focus:not(.focus-visible) {  
  outline: 0;  
}
```



FOCUS SWITCH



```
form:focus-within {  
    background: #f7b731;  
    color: black;  
}
```

This is :focus-within!

Given Name:

Family Name:

 HTML

 CSS

```
38  background-color: #a55eea;  
39  border: none;  
40  }  
41  
42  input {  
43    margin-bottom: 20px;  
44  }  
45  
46  form {  
47    border: 3px solid #2d98da;  
48    color: #000000;  
49    padding: 4px;  
50  }  
51  
52  form:focus-within {  
53    background: #f7b731;  
54    color: black;  
55  }
```

 JS

This is :focus-within!

Given Name:

Family Name:

 HTML

 CSS

```
38  background-color: #a55eea;  
39  border: none;  
40  }  
41  
42  input {  
43    margin-bottom: 20px;  
44  }  
45  
46  form {  
47    border: 3px solid #2d98da;  
48    color: #000000;  
49    padding: 4px;  
50  }  
51  
52  form:focus-within {  
53    background: #f7b731;  
54    color: black;  
55  }
```

 JS

RESOURCES

<https://bit.ly/2OV9A63>

THANKS!



CHRIS DEMARS | SALTNBURNEM

<https://codepen.io/chrisdemars/>

<https://bit.ly/2qNA9Q4>