





How well do you know CSS? 🜇 Given these classes:

```
.red {
 color: red;
.blue {
 color: blue;
```

Which color would these divs be?

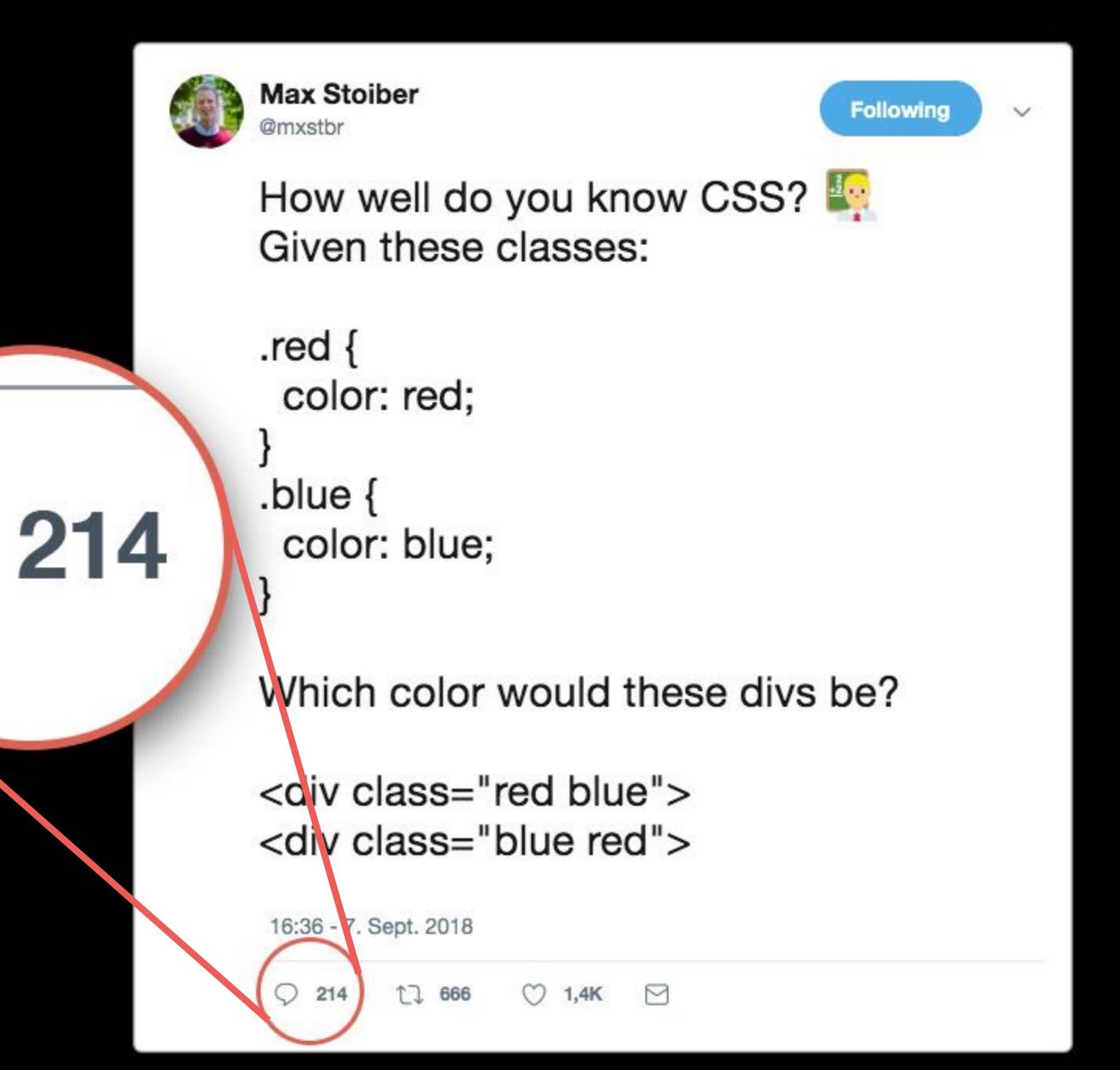
```
<div class="red blue">
<div class="blue red">
```

16:36 - 7. Sept. 2018











"Just shows the ridiculous fragility of CSS."



"CSS is such a mess zero predictability. we really need a better system."

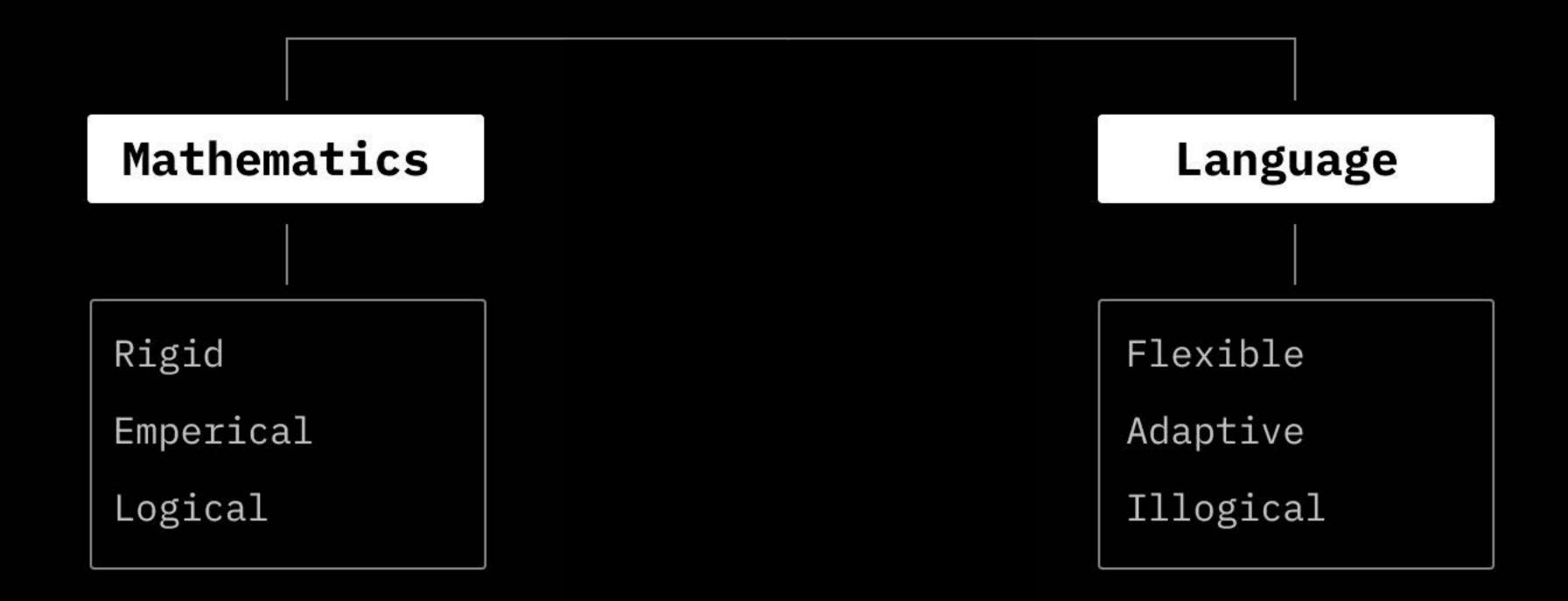


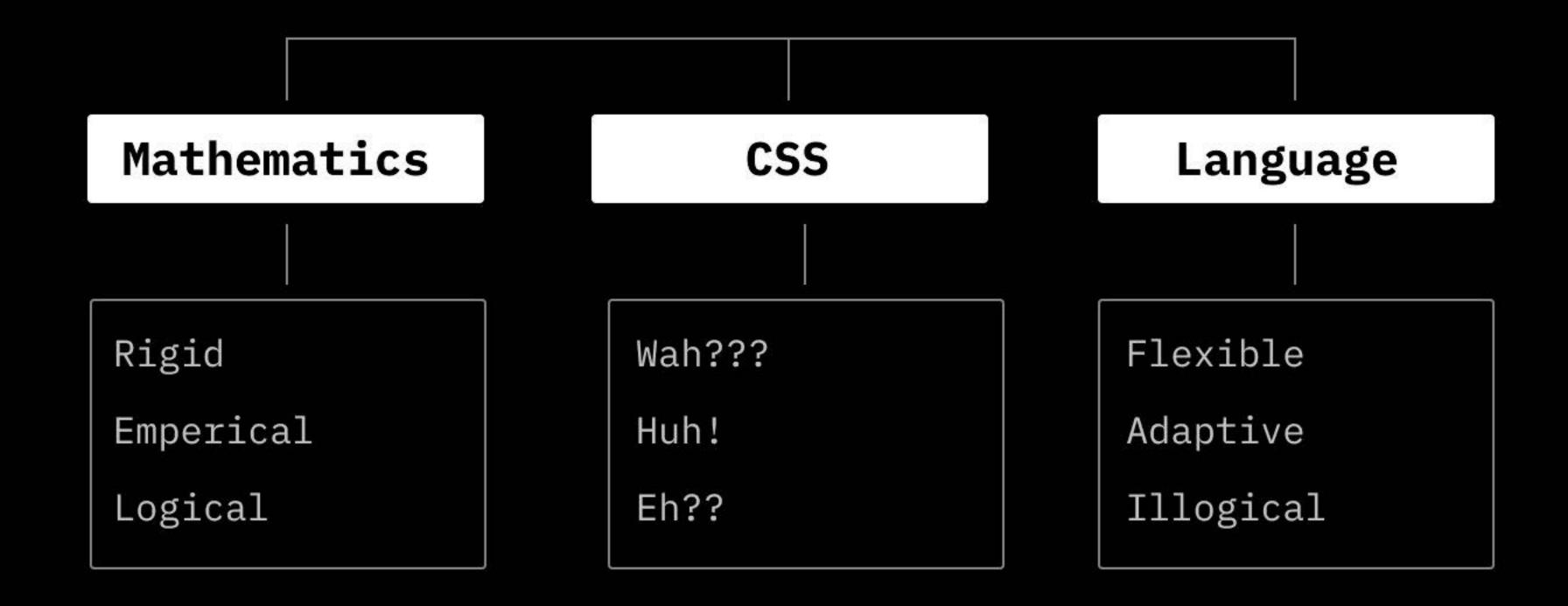
"WTF. this is why I hate frontend dev. ""



Why is CSS such a frustrating language for many developers?

Mathematics Rigid Emperical Logical



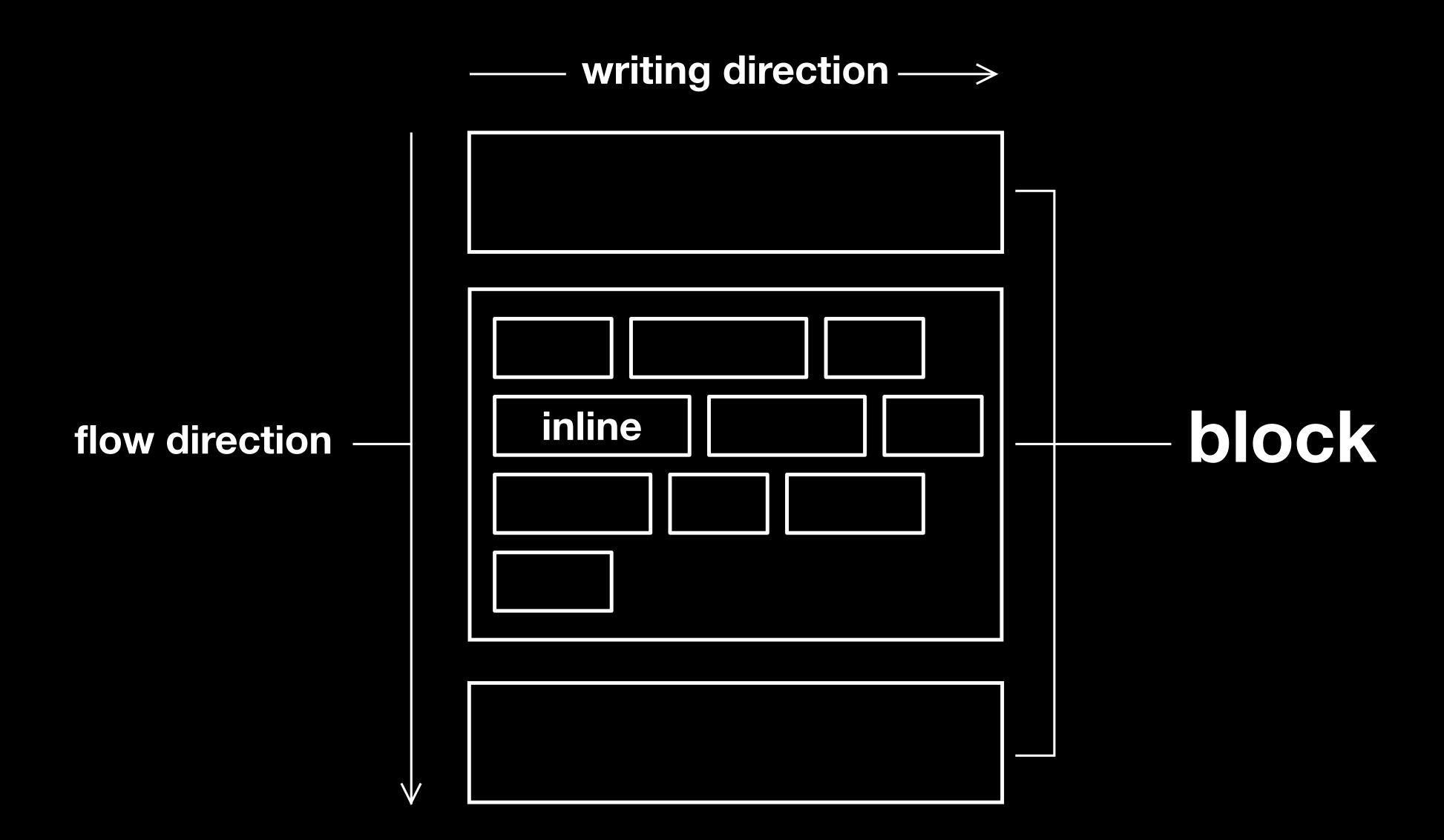


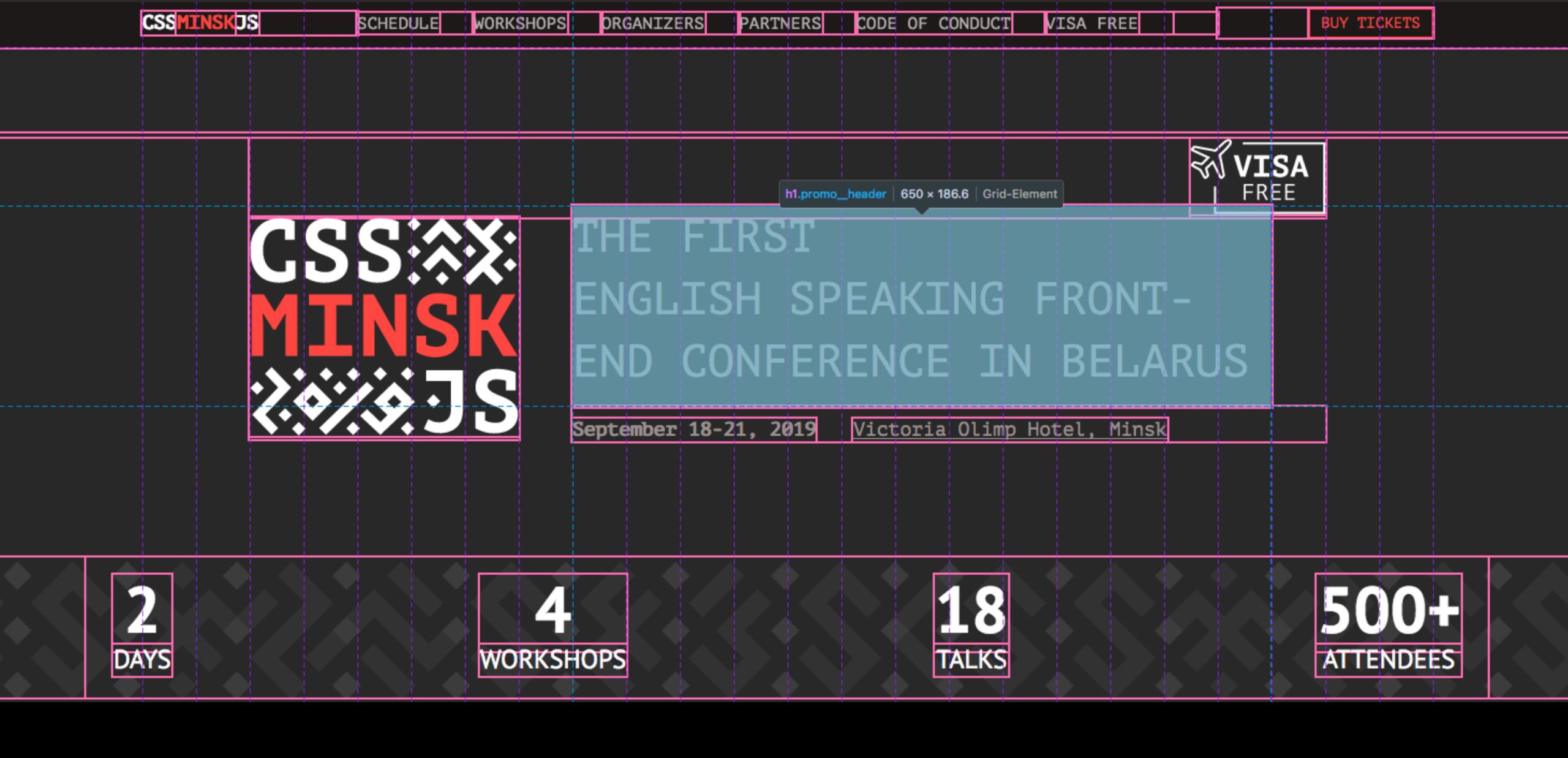


THE CSS MINDSET

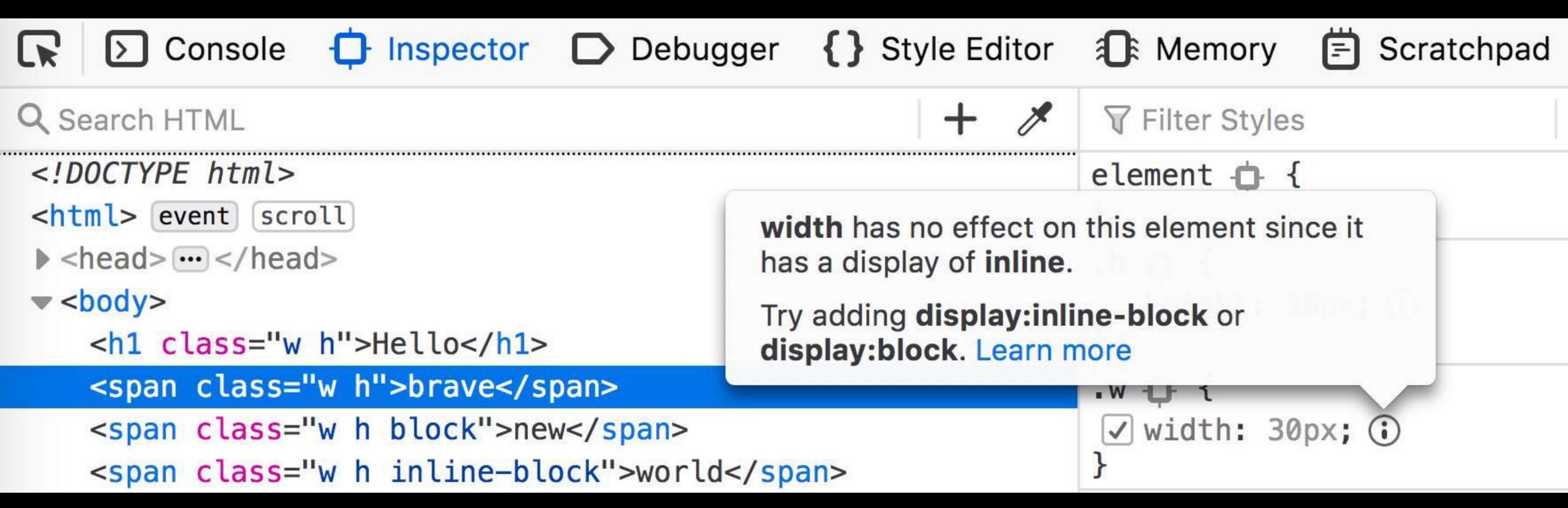


Everything is a Box.





* { outline: 2px solid hotpink; }

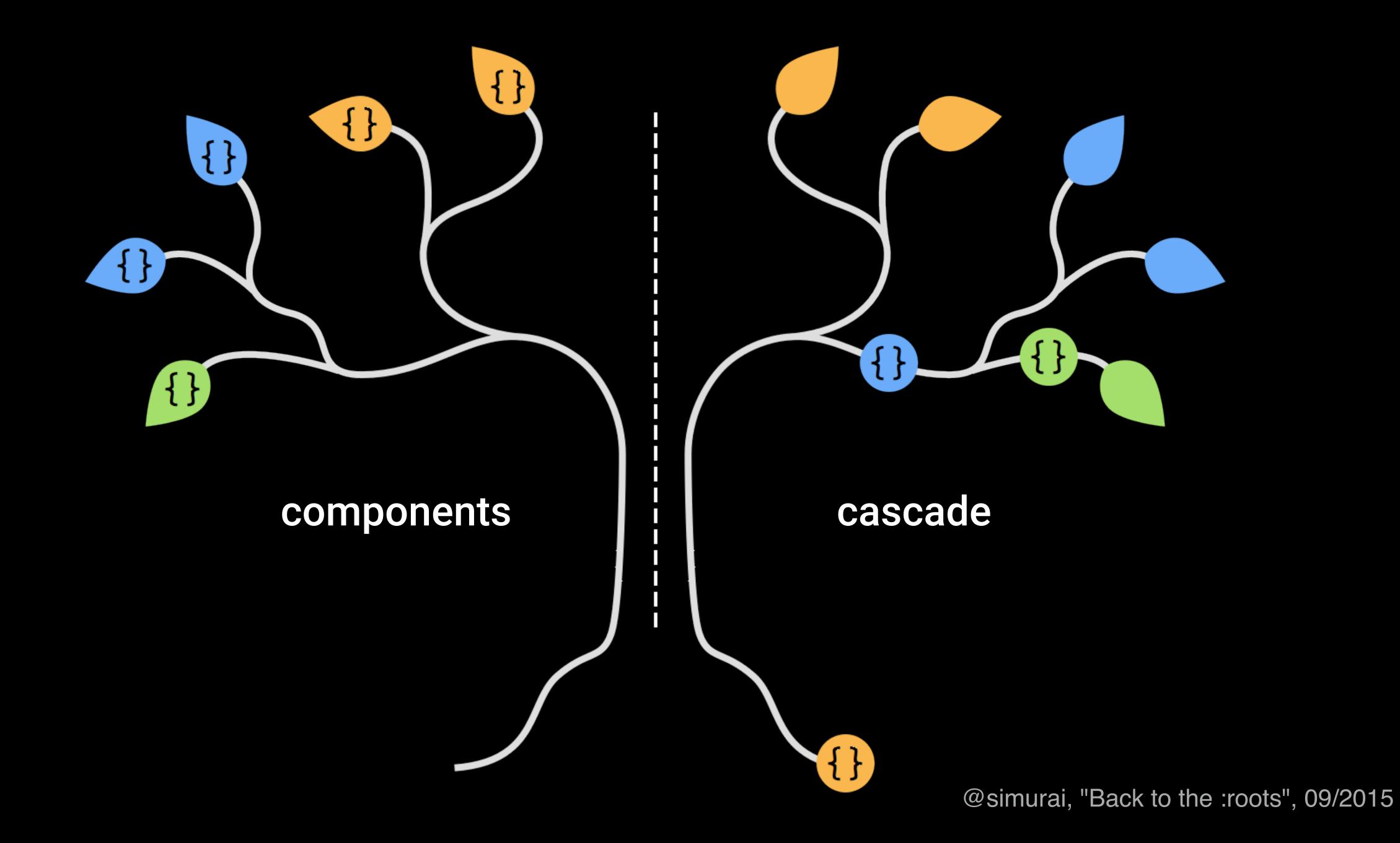


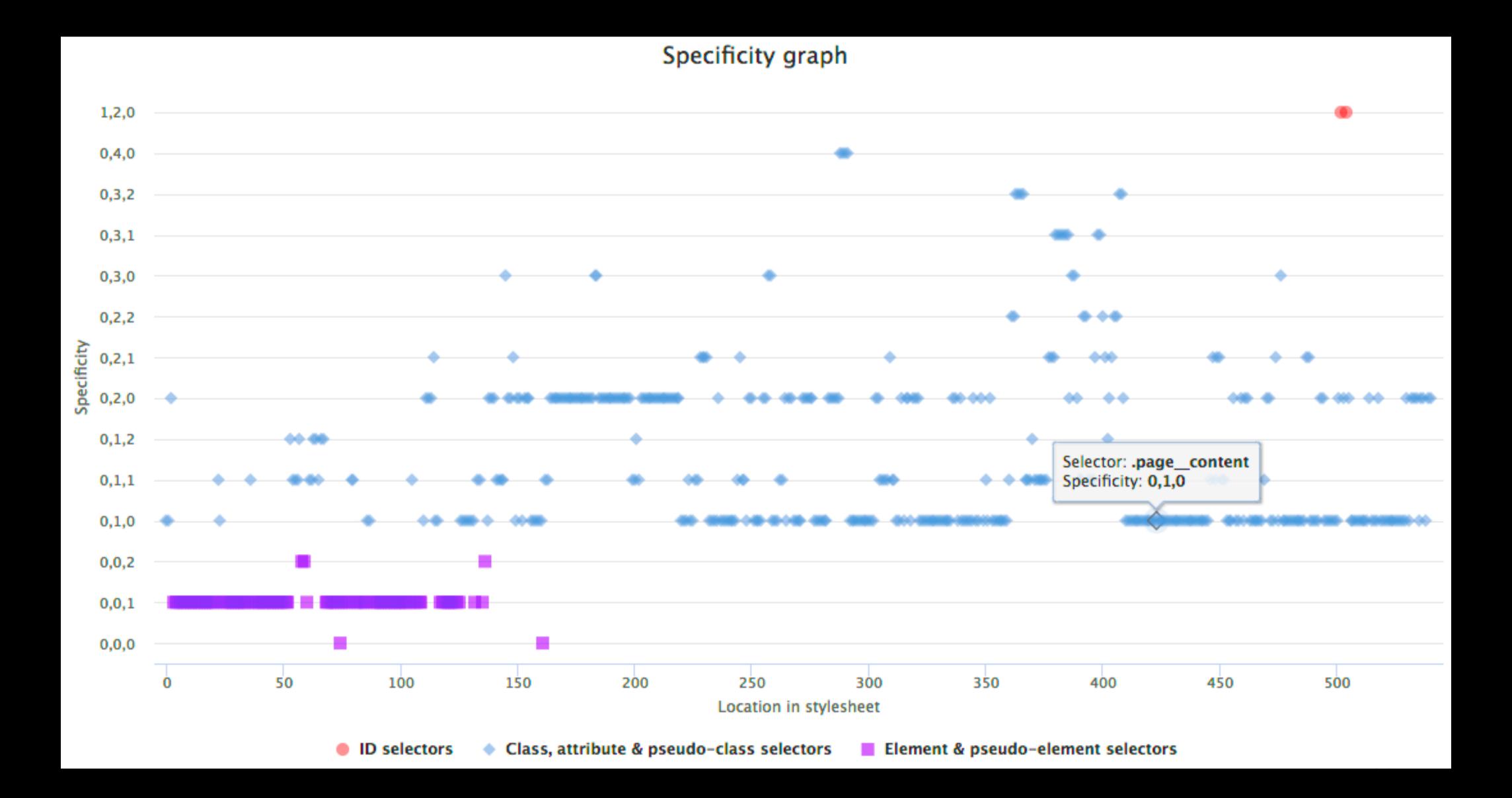


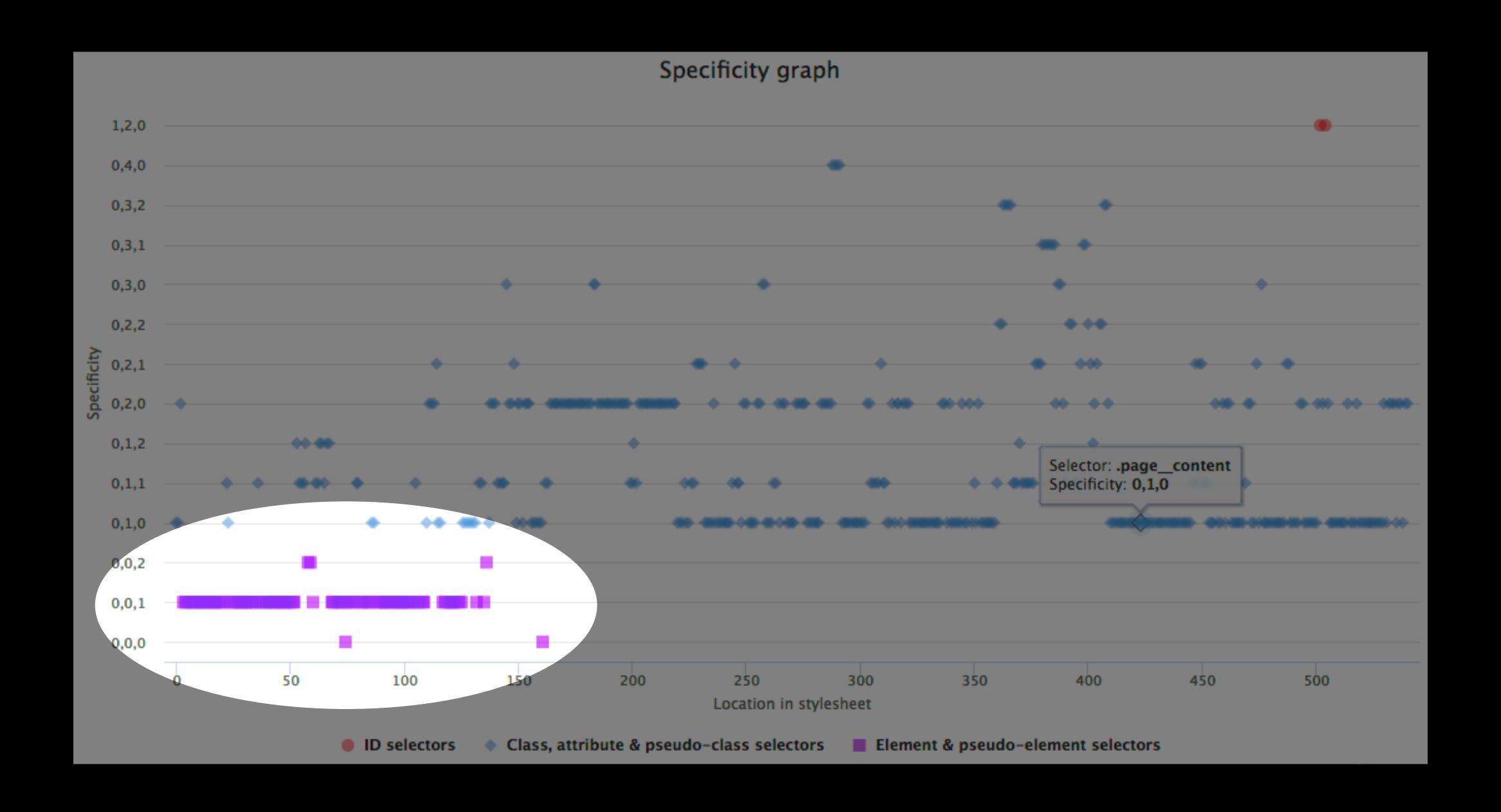
The Cascade is your Friend.

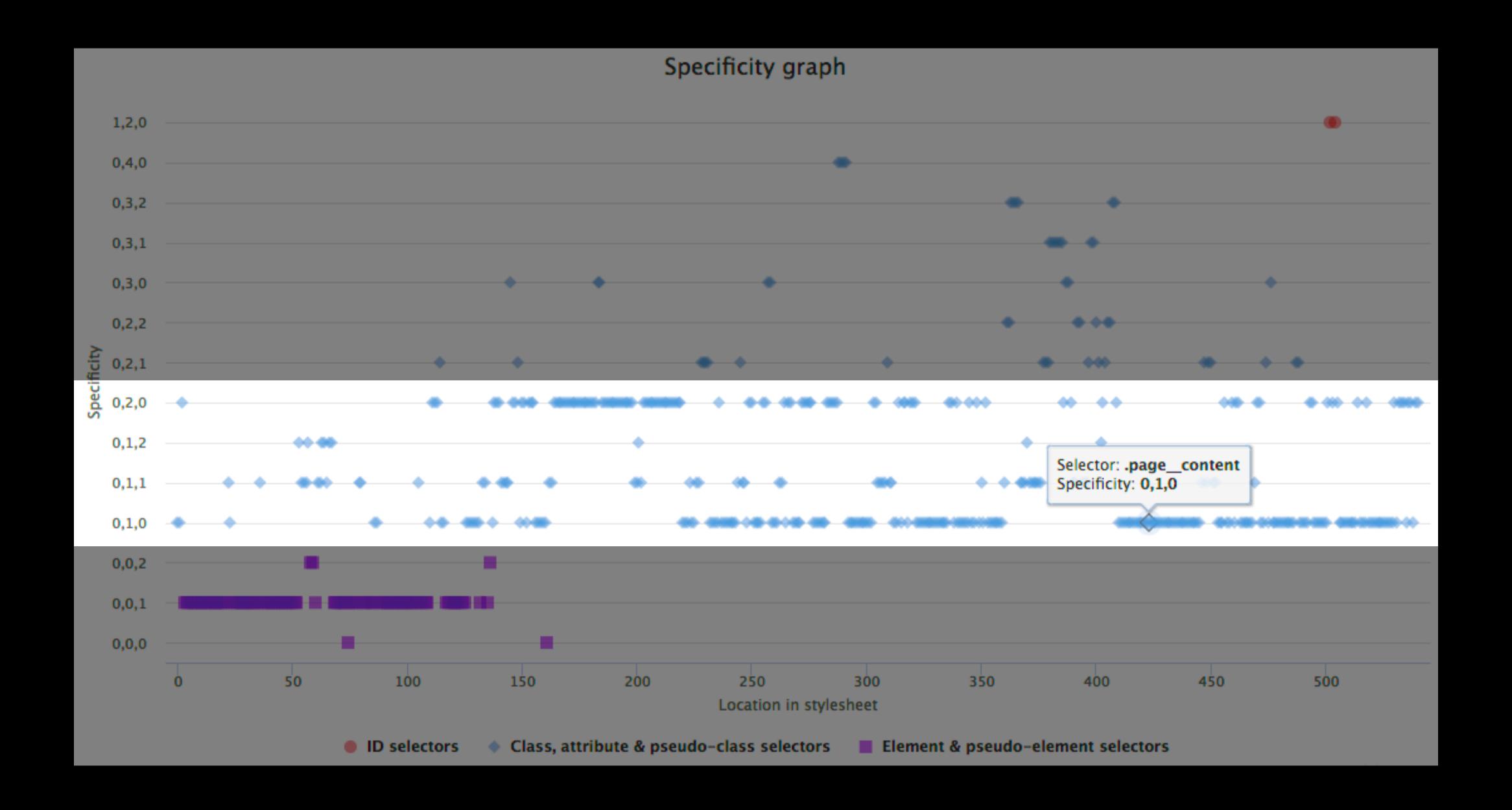


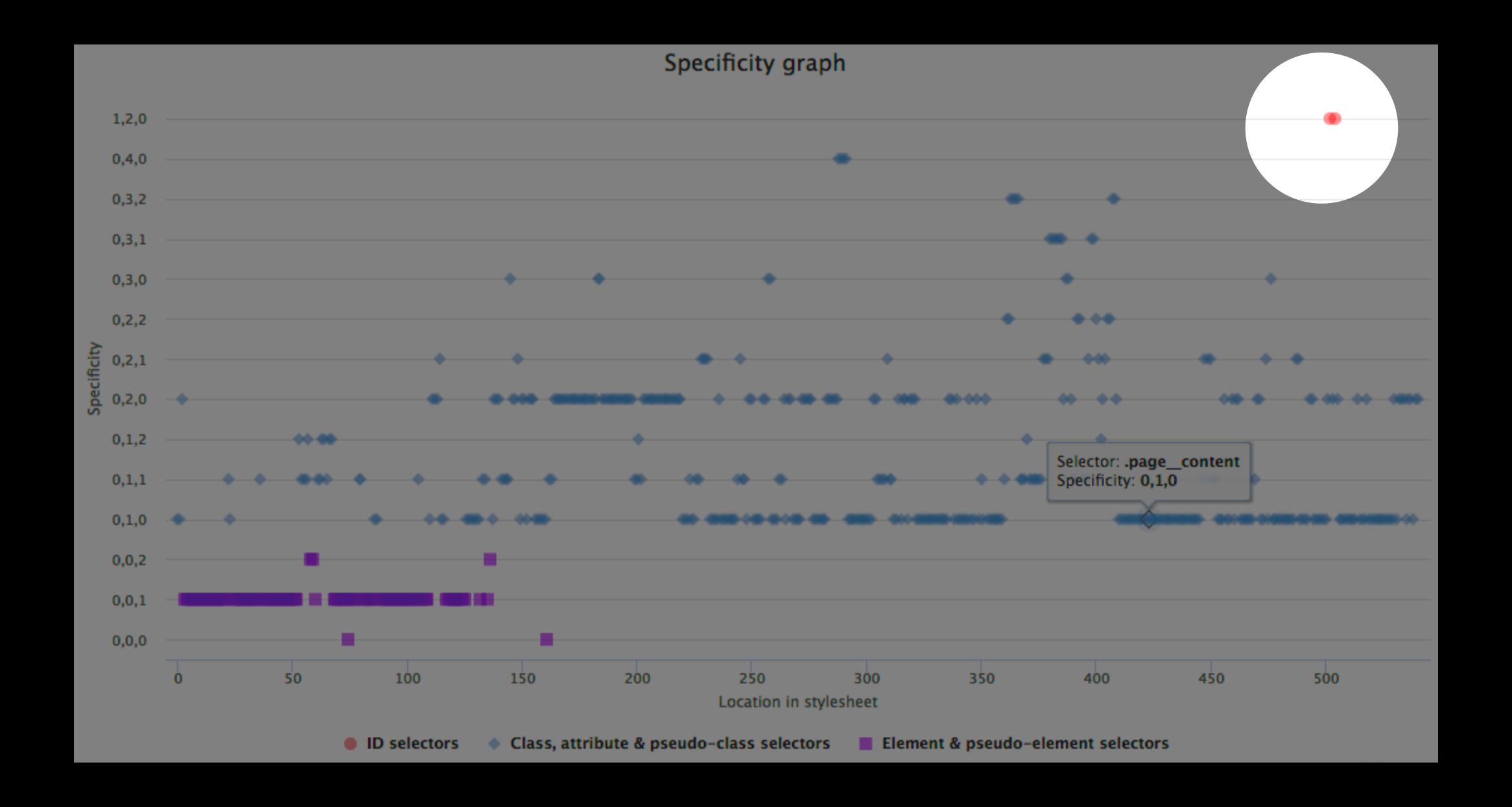














As much as necessary, As little as possible.

```
p {
        display: block;
        width: 100%;
3
        font-size: 1em;
4
        text-align: left;
5
        color: □black;
6
        position: relative;
        margin-bottom: 2rem;
8
```

```
p {
                              default
        display: block;
2
                              default
        width: 100%;
3
                              inherited
        font-size: 1em;
4
                              inherited
        text-align: left;
5
                              inherited
        color: Dblack;
6
                              necessary?
        position: relative;
        margin-bottom: 2rem;
8
```

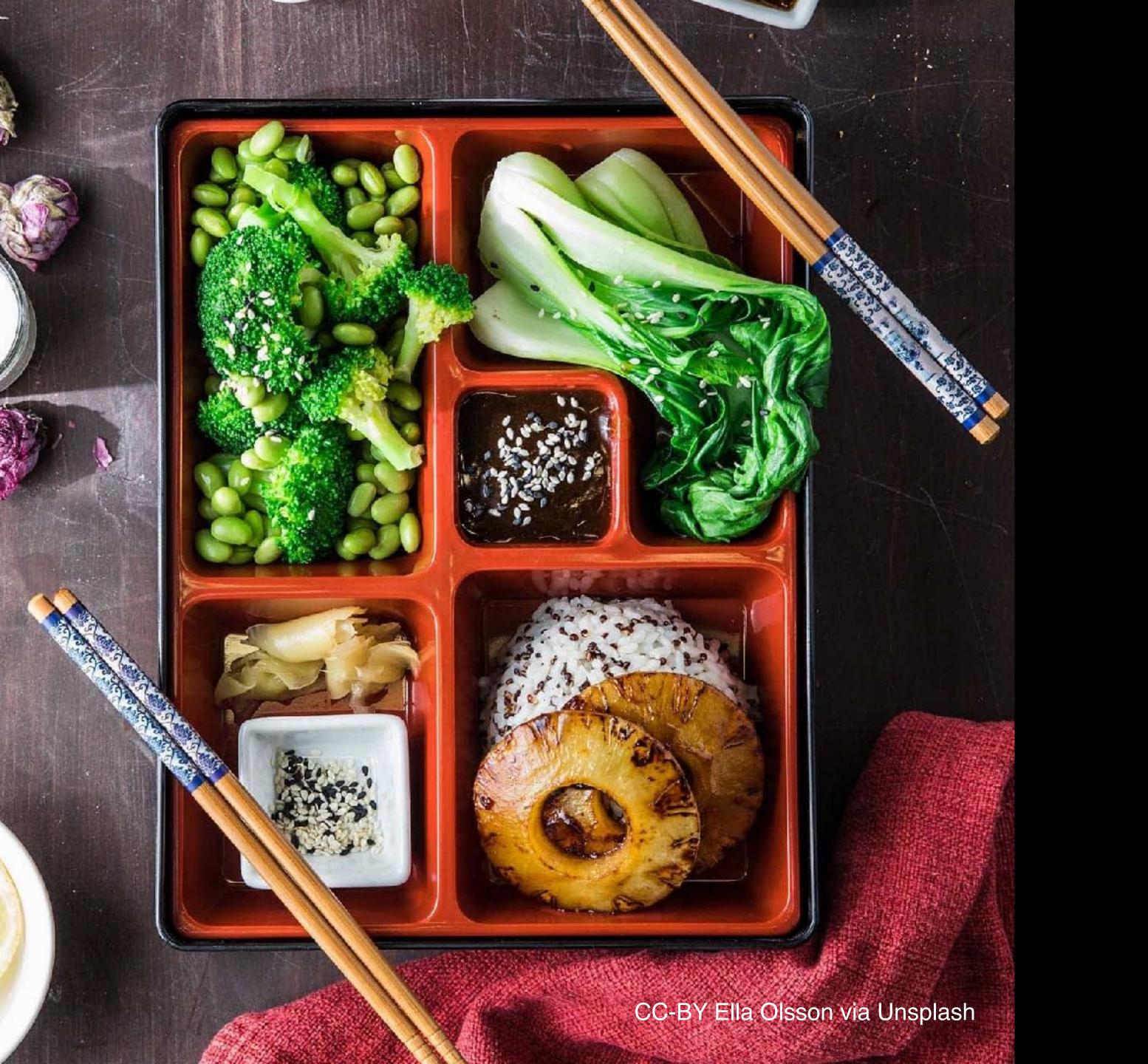
```
1 .thing {
2 background: ■white;
3 }
```

```
.thing {
        background-color: white;
2
        background-image: none;
3
        background-position: 0% 0%;
4
        background-size: auto auto;
5
        background-repeat: repeat;
6
        background-origin: padding-box;
        background-clip: border-box;
8
        background-attachment: scroll;
9
```

Be precise and explicit.



Establish Boundaries.





```
class="bento__item">
     <article class="broccoli">
  class="bento__item">
     <article class="beans">
  class="bento__item">
     <aside class="rice">
```



```
class="bento__item">
      <article class="broccoli">
   class="bento__item">
      <article class="beans">
   class="bento__item">
      <aside class="rice">
```

Separate concerns and avoid dependencies.



Context is Key.

Block Formatting Context

Document Flow

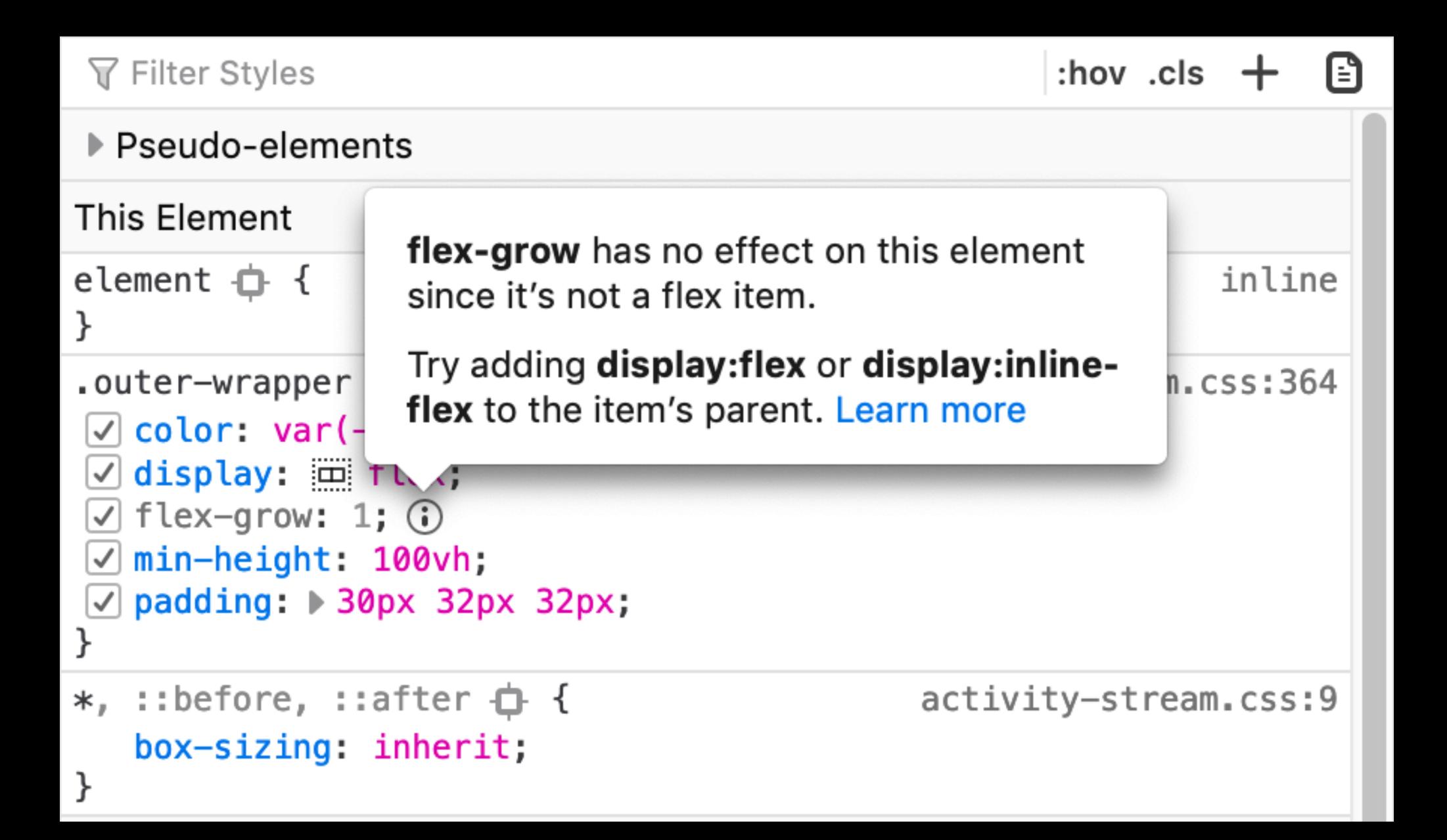
Float

Table

Flexbox

Grid

Main / Cross Axis?



Block Formatting Context

Document Flow

Float

Table

Flexbox

Grid

Main / Cross Axis?

Stacking Context

position / z-index

Block Formatting Context

Document Flow

Float

Table

Flexbox

Grid

Main / Cross Axis?

Stacking Context

```
position / z-index
opacity
transform
filter
mix-blend-mode
clip-path
-webkit-overflow-scrolling
```

When in doubt, look at the parents.



Aha-Moment #6

Content will change.



Mockup

Reality



Lorem ipsum dolor sit amet, consect etur adipiscing elit, sed eius tempor incididunt exat labore et dolore sin magna pariatur nulla.





I write about HTML and CSS on my personal site and I've also published articles on websites like � https://alistapart.com/article/my-accessibility-journey-what-ive-learned-so-far/

object-fit: cover;





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https://alistapart.com/article/my-accessibility-journey-what-ive-learned-so-far/

object-fit: cover;

padding-right: \$avatar-width;



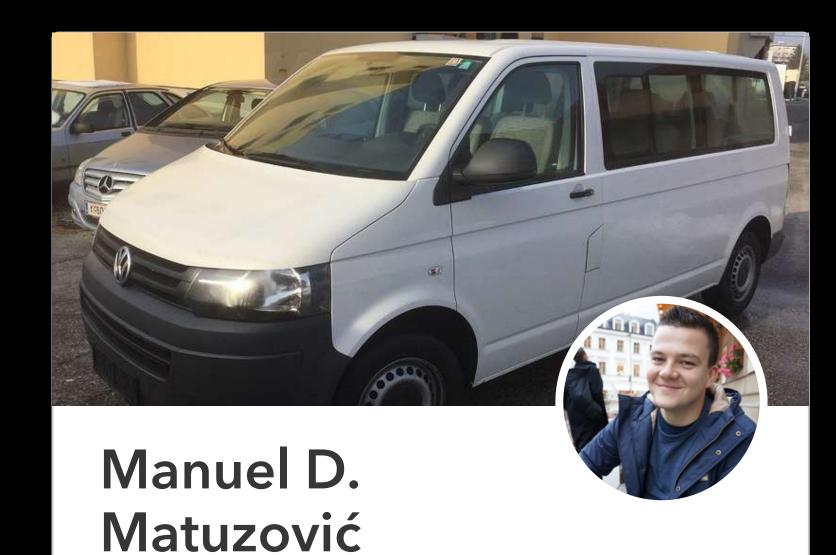
I write about HTML and CSS on my personal site and I've also published articles on websites like �

https://alistapart.com/article/my-accessibility-journey-what-ive-learned-so-far/

object-fit: cover;

padding-right: \$avatar-width;

word-wrap: break-word;



I write about HTML and CSS on my personal site and I've also published articles on websites like thttps://alist-apart.com/article/my-access...

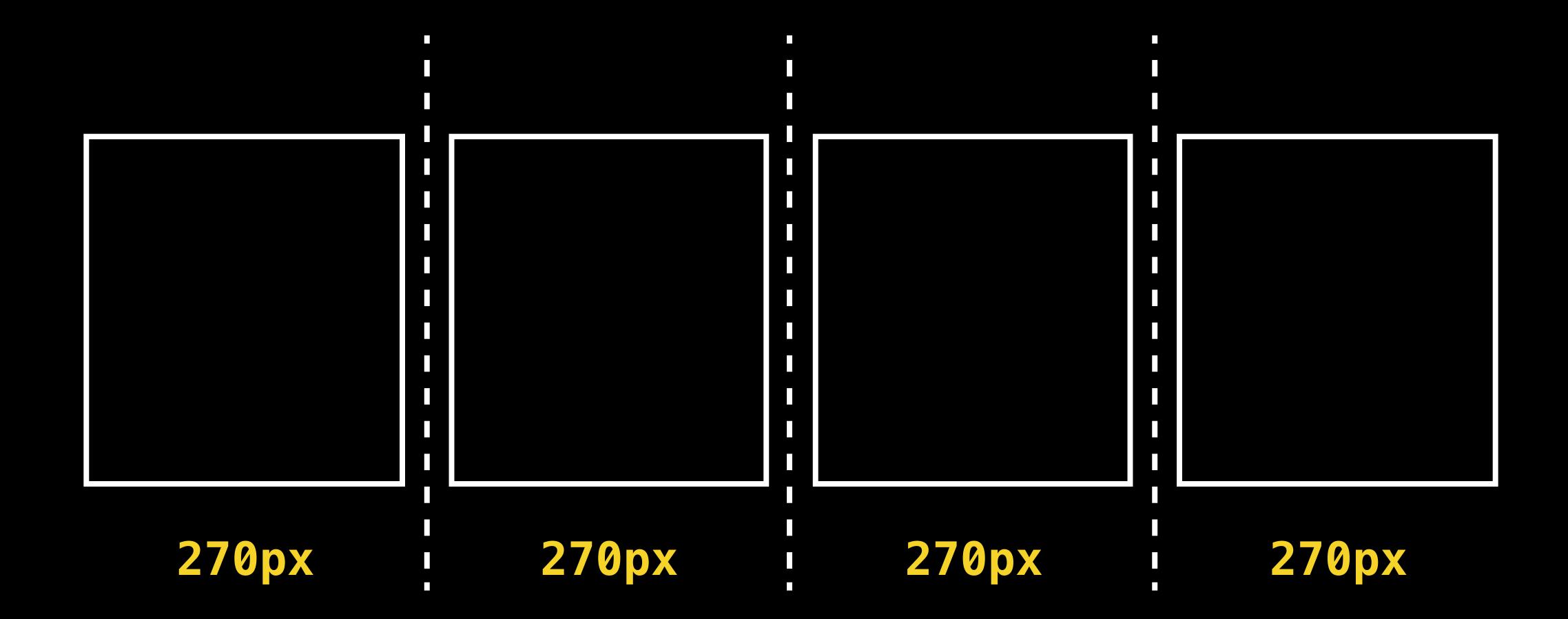
Build a "blueprint" first, then stress-test with real content.

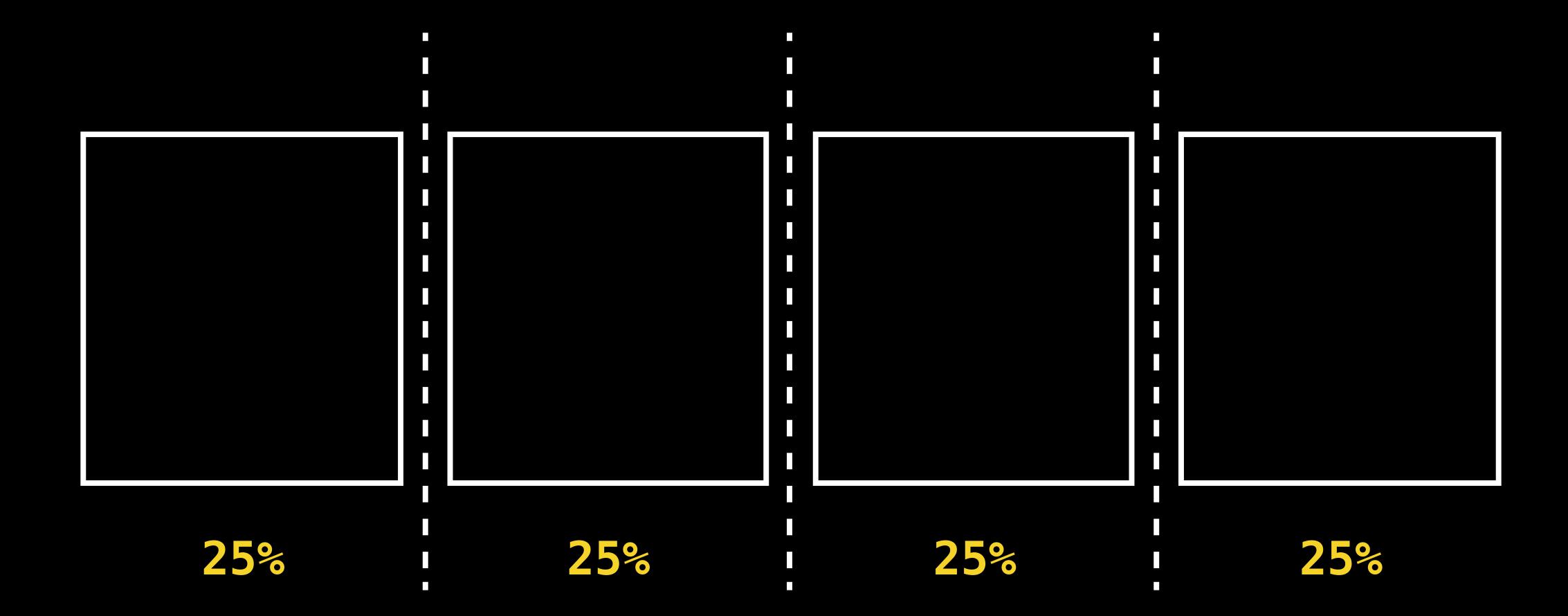


Aha-Moment #7

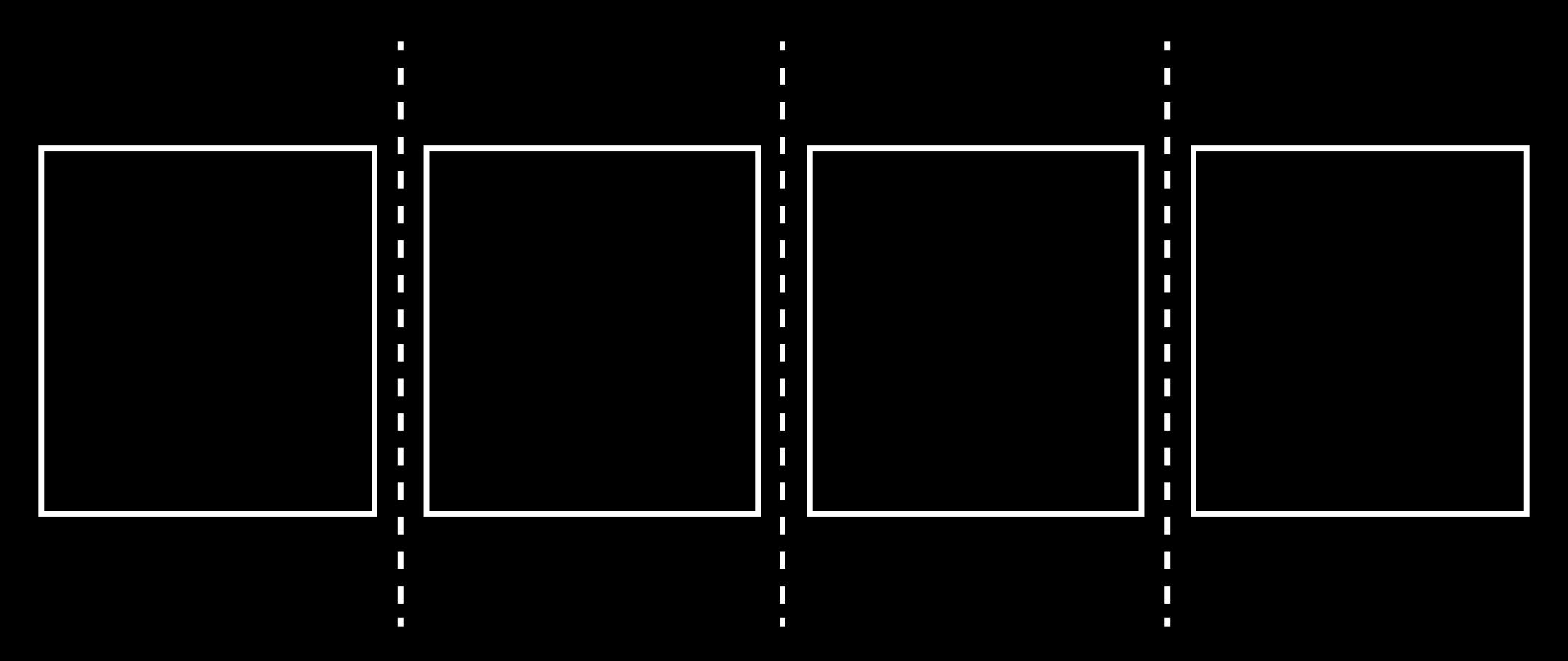
Let the Browser do the work.







grid-template-rows



repeat(auto-fill, minmax(250px, 1fr)

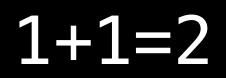
Try to encode the problem, not the calculated solution.

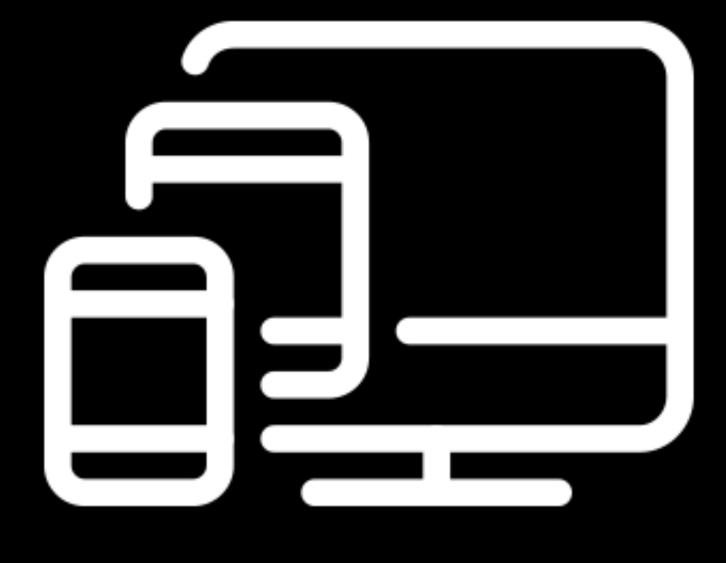


Aha-Moment #8

Embrace Flexibility.







X+y=Z

NORTHEAST



SUMMARY: Winter temperatures will be near normal across the north and a bit below normal, on average, in the south. Most of December and January will bring below-normal temperatures, with the coldest periods in early to mid- and late January. Precipitation will be slightly greater than normal, with snowfall below normal in the north but above normal elsewhere. The snowiest periods will be in early and mid-December, early to mid-January, late February, and early to mid-March. April and May will be slightly cooler and drier than normal. Summer will be slightly hotter and rainier than normal, with the hottest periods in mid- and late June, early July, early to mid-August, and late August. Watch for tropical storm threats from mid-August to mid-September. September and October will be much warmer and slightly drier than normal.

NOV. 2015: Temp. 40' (2" above avg.); precip. warm. 7-10 Rain and snow showers, cold. 11-13 8° (0.5° below avg.), 1-2 Sunny, cold, 2-8 Rainy Sunny, nice, 14-27 Showers, cool, 28-30 Sunny, periods, mild. 9-12 Rain and snow showers. 13-16 warm. Rainy periods, mild. 17-26 Showers, mild. 26-30 MAY 2016: Temp. 56° (1° above avg.); precip. 2.5° Snowy periods, cold.

sunny north; cold. 10-14 Snowsterm, then snow JUNE 2016; Temp. 66° (1° above avg.); precip. 3.5° snow showers, mild.

JAN. 2016: Temp. 19° (4" below avg.); precip. 2" JULY 2016: Temp. 69° (1" below avg.); precip. 4.5" (i" below avg.). 1-6 Snow showers, cold. 7-14 (0.5" above avg.). 1-5 Sunny, hot, then cool. 6-14 Snow, then flurries, very cold. 15-20 Periods of Scattered t-storms, cool. 15-27 Several t-storms, rain and snow, mild. 21-28 Snow showers, turn-scasonable. 28-31 Sunny, cool. ing very cold. 29-21 Snow, then rain, mild.

(2" above avg.). 1-7 Snow, then periods of rain 5-12 Sunny; cool, then bot. 13-19 T-storms, then and snow, mild. 8-15 Rain and snow showers, sunny, cool. 20-22 Tropical storm threat. 23-28 seasonable, 16-23 Snow, then rainy periods, mild. Sunny, cool, then hot, 29-31 Showers, warm. 24-29 Blizzard, then flurries, cold.

Snow showers, cold. 7-10 Showers, mild. 11-21 sunny, chilly. 22-30 A few showers, mild. Snowstorm, then sunny, cold. 22-31 Showers, OCT. 2016: Temp. 53" (5" above avg.); precip.

(0.5" below avg.), 1-6 Snow, then sunny, turning 26-31 Showers, cool.

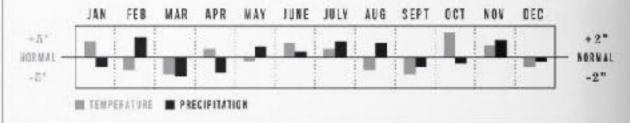
(I" below avg.). 1-5 Sunny, warm. 6-10 Showers, DEC. 2015: Temp. 24° (4° below avg.); precip. 4" then sunny, cool. 11-14 Sunny, warm. 15-20 Show-(I" above avg.). 1-3 Snowstorm. 4-9 Snow south, crs. cool. 21-31 Sunny, then a few showers, cool.

showers, cold. 15-17 Snow, cold. 18-24 Snow (avg.). 1-7 Showers, then sunny, cool. 8-14 Scatshowers, cold. 25-31 Snowstorm, then rain and tered t-storms, turning hot. 15-22 Sunny, seasonable 23-30 T-storms, hot, then sunny, cooler.

AUG. 2016: Temp. 67° (1° above avg.); precip. 4.5" FEB. 2016: Temp. 27" (4" above avg.); precip. 4.5" (0.5" above avg.). 1-4 A couple of t-storms, hot.

SEPT. 2016: Temp. 82' (3' above avg.); precip. MAR. 2016: Temp. 34.5' (2" above avg. north, 1" 3.5" (0.5" below avg.), 1-5 Sunny, warm. 6-9 below south); precip. 2.5" (0.5" below avg.). 1-6 Tropical storm threat. 10-21 Showers, then

3.5" (avg.). 1-6 Heavy rain, then sunny, cool. 7-16 APR. 2016: Temp. 44" (2" below avg.); precip. 2.5" Sunny, nice. 17-25 Showers, then sunny, mild.

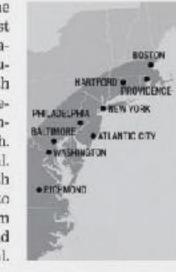


Get your local forecast at Almanac.com/Weather.

REGION 2 FORECAST

ATLANTIC CORRIDOR

SUMMARY: Winter temperatures will be near normal across the north and a bit below normal, on average, in the south. Most of December and January will bring below-normal temperatures, with the coldest periods in early to mid- and late January. Precipitation will be slightly greater than normal, with snowfall below normal in the north but above normal elsewhere. The snowiest periods will be in early and mid-December, early to mid-January, late February, and early to mid-March. April and May will be slightly cooler and drier than normal. Summer will be slightly hotter and rainier than normal, with the hottest periods in mid- and late June, early July, early to mid-August, and late August. Watch for tropical storm threats from mid-August to mid-September. September and October will be much warmer and slightly drier than normal.



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(0.5" below avg.), 1-6 Snow, then sunny, turning 26-31 Showers, cool.

NOV. 2015: Temp. 40° (2° above avg.); precip. warm. 7-10 Rain and snow showers, cold. II-13 3" (0.5" below avg.), 1-2 Sunny, cold. 3-8 Rainy Sunny, nice, 14-27 Showers, cool, 28-30 Sunny,

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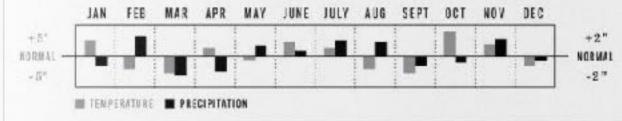
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We should embrace the fact that the web doesn't have the same constraints, and design for this flexibility. But first, we must "accept the ebb and flow of things."

John Allsopp, "A Dao of Web Design"



You don't need absolute control.

Mental models are personal. What are yours?



дзякуй!

bit.ly/css-mindset

