

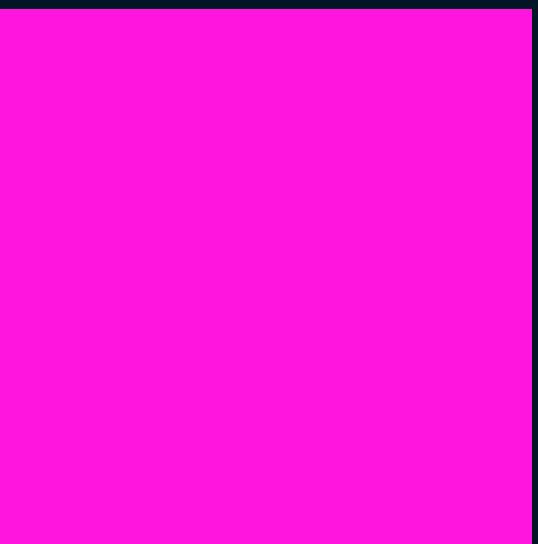
Custom Properties

The Secret Ingredients for CSS Magic

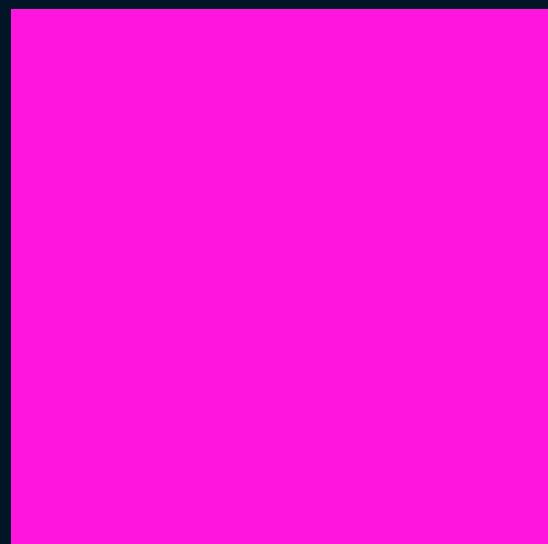


```
:root {  
  --primaryColor: deeppink;  
}
```

```
:root {  
  --primaryColor: deeppink;  
}  
  
.box {  
  background-color: var(--primaryColor);  
}
```



```
:root {  
  --primaryColor: deeppink;  
}  
  
.box {  
  background-color: var(--primaryColor, darkorchid);  
}
```

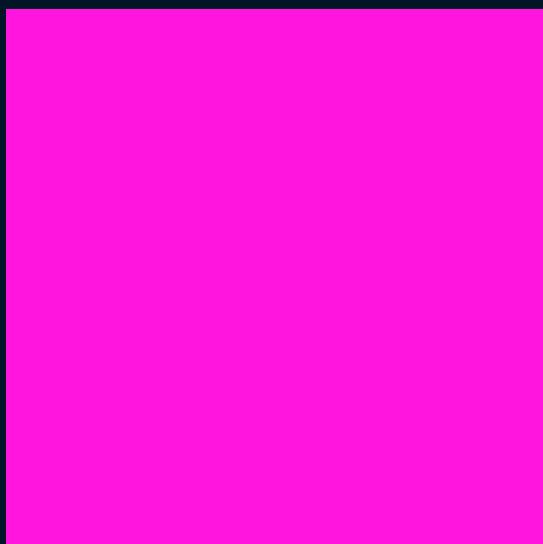


```
/* :root {  
  --primaryColor: deeppink;  
} */  
  
.box {  
  background-color: var(--primaryColor, darkorchid);  
}
```



IE11 😢

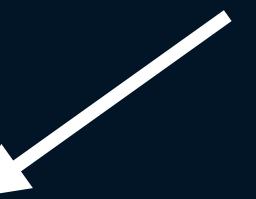
```
.box {  
    background-color: deeppink;  
    background-color: var(--bg, darkorchid);  
}
```



IE11 😢

```
.box {  
  /* background-color: deeppink; */  
  background-color: var(--bg, darkorchid);  
}
```

The square is here,
you just can't see it



Nice lovely browser

```
.box {  
  background-color: deeppink;  
  background-color: var(--bg, 300);  
}
```

Sorry, it's still
invisible



Sass variable



```
$bgColor: deeppink;
```

!==

```
--primaryColor: deeppink;
```



Custom property

Repeating values

```
.some-element {  
  padding: 12rem 1rem 1rem;  
}  
  
.another-element {  
  padding: 0 1rem 1rem;  
}
```

```
.some-element {  
    padding: 12rem 1rem 1rem;  
}  
  
.another-element {  
    padding: 0 1rem 1rem;  
}  
  
@media (min-width: 50em) {  
    .some-element {  
        padding: 12rem 3rem 3rem;  
    }  
  
    .another-element {  
        padding: 0 3rem 3rem;  
    }  
}
```

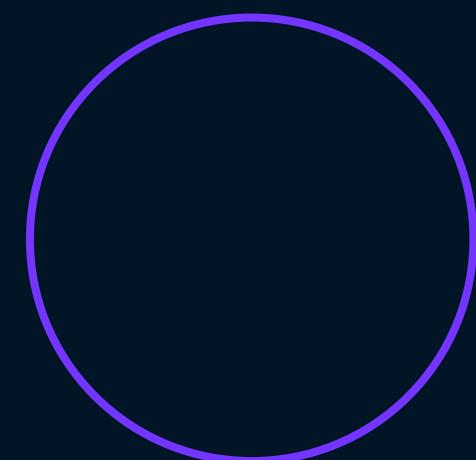
```
.some-element {  
  padding: 12rem var(--pad) var(--pad);  
}
```

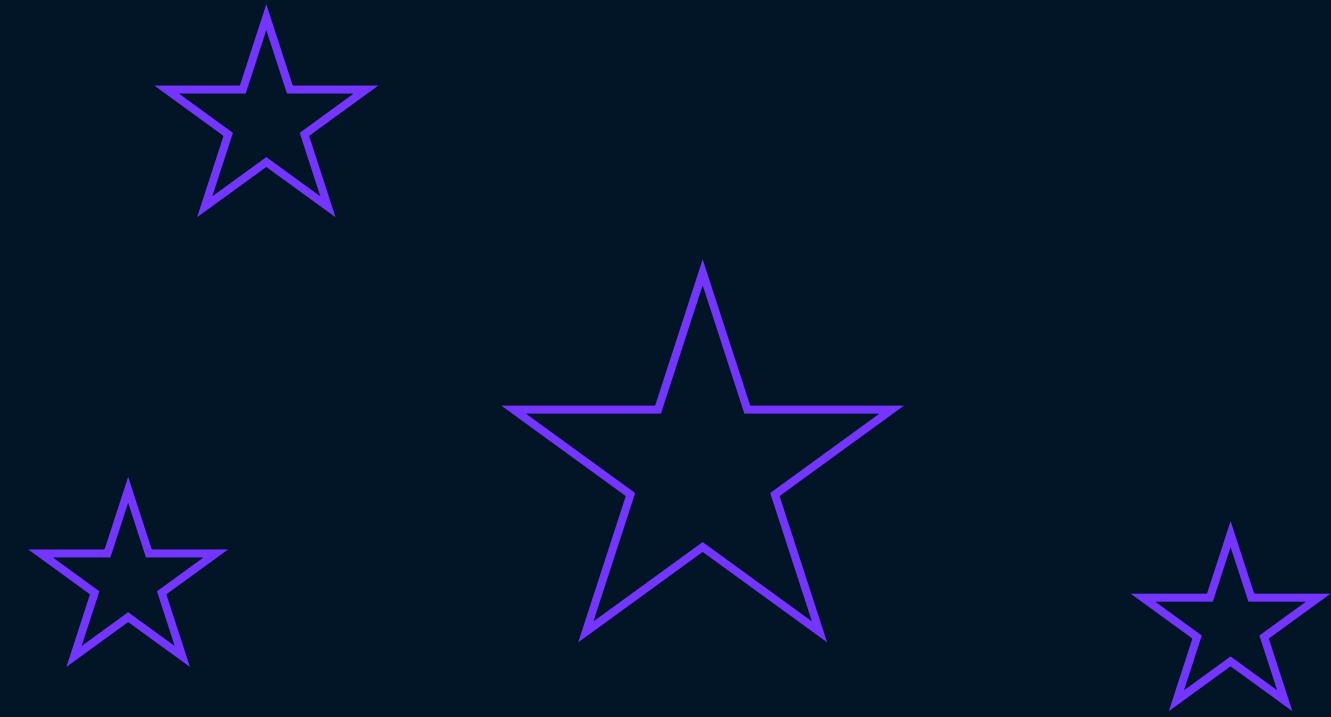
```
.another-element {  
  padding: 0 var(--pad) var(--pad);  
}
```

```
:root {  
  --pad: 1rem;  
}  
  
@media (min-width: 50em) {  
  :root {  
    --pad: 3rem;  
  }  
}
```

```
:root {  
  --clip: polygon(80% 0, 100% 0, 100% 100%, 20% 100%);  
}  
  
.element {  
  -webkit-clip-path: var(--clip);  
  clip-path: var(--clip);  
}
```

Global vs local scoping





Dark mode

72 Posts

```
:root {  
  --primary: deepPink;  
  --headerBg: #1d1d26;  
  --textColor: #0e0f0f;  
  --textColorInverse: #fcfdff;  
  --bg: #fcfdff;  
  --bgTint: #dfded;  
  --bgGrey: #e6e8e8;  
  --white: #fcfdff;  
}
```

Lastest article

CSS-only Slide-up Caption Hover Effect

27 May, 2020

Have you ever needed to build a UI where a caption needs to slide up to reveal more content? This is something I've...

All the CSS Colours

19 May, 2020

I recently made a demo where I needed to list all the CSS named colours as options in a select input. I didn't want to write them all out by...

Exciting Things For CSS Layout

01 May, 2020

This past week has been a whirlwind from browser vendor...

72 Posts

```
@media (prefers-color-scheme: dark) {  
  :root {  
    --bg: #161618;  
    --bgTint: #27272c;  
    --bgGrey: #27272c;  
    --textColor: #dbd7db;  
    --textColorInverse: #0e0f0f;  
  }  
}
```

Lastest article

CSS-only Slide-up Caption Hover Effect

27 May, 2020

Have you ever needed to build a UI where a caption needs to slide up or down revealing more content? This is something I've...

All the CSS Colours

19 May, 2020

I recently made a demo where I needed to list all the CSS named colours as options in a select input. I didn't want to write them all out by...

Exciting Things For CSS Layout

01 May, 2020

This past week has been a bit crazy from browser vendor...

Vertical rhythm

--vr: 2rem

Vertical rhythm and custom properties

Using custom properties to set a vertical rhythm for our design system.

First heading

Lorem ipsum dolor sit amet consectetur, adipisicing elit. Fuga delectus harum distinctio iure id. Minus nesciunt accusantium tenetur, explicabo, temporibus labore, eligendi commodi sequi molestiae perspiciatis asperiores nihil unde itaque?

This section has a different vertical rhythm

Minus nesciunt accusantium tenetur, explicabo, temporibus labore, eligendi commodi sequi molestiae perspiciatis asperiores nihil unde itaque?

[Find out more →](#)

var(--vr)

Vertical rhythm and custom properties

Using custom properties to set a vertical rhythm for our design system.

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Minus nesciunt accusantium tenetur, explicabo, temporibus labore, eligendi commodi sequi molestiae perspiciatis asperiores nihil unde itaque?

[Find out more →](#)

`calc(2 * var(--vr))`

Vertical rhythm and custom properties

Using custom properties to set a vertical rhythm for our design system.

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This section has a different vertical rhythm

Minus nesciunt accusantium tenetur, explicabo, temporibus labore, eligendi commodi sequi molestiae perspiciatis asperiores nihil unde itaque?

[Find out more →](#)

```
* + * {  
  margin-top: var(--vr);  
}
```

```
* + * {
  margin-top: var(--vr);
}

* + h2 {
  margin-top: calc(2 * var(--vr));
}
```

```
:root {  
  --vr: 1rem;  
}  
  
@media (min-width: 50em) {  
  :root {  
    --vr: 2rem;  
  }  
}
```

--vr: 1rem;

Vertical rhythm and custom properties

Using custom properties to set a vertical rhythm for our design system.

First heading

Lorem ipsum dolor sit amet consectetur, adipisicing elit. Fuga delectus harum distinctio iure id. Minus nesciunt accusantium tenetur, explicabo, temporibus labore, eligendi commodi sequi molestiae perspiciatis asperiores nihil unde itaque?

This section has a different vertical rhythm

Minus nesciunt accusantium tenetur, explicabo, temporibus labore, eligendi commodi sequi molestiae perspiciatis asperiores nihil unde itaque?

[Find out more →](#)

Second heading

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Mauris et posuere risus. Nam tortor ex, consequat

--vr: 2rem;

Vertical rhythm and custom properties

Using custom properties to set a vertical rhythm for our design system.

First heading

Lorem ipsum dolor sit amet consectetur, adipisicing elit. Fuga delectus harum distinctio iure id. Minus nesciunt accusantium tenetur, explicabo, temporibus labore, eligendi commodi sequi molestiae perspiciatis asperiores nihil unde itaque?

This section has a different vertical rhythm

Minus nesciunt accusantium tenetur, explicabo, temporibus labore, eligendi commodi sequi molestiae perspiciatis asperiores nihil unde itaque?

[Find out more →](#)

```
:root {  
    --vr: 1rem;  
    --2vr: calc(2 * var(--vr));  
}  
  
@media (min-width: 50em) {  
    :root {  
        --vr: 2rem;  
    }  
}
```

Color

Hue Saturation Lightness

hsl(3deg, 89%, 61%)

Hue Saturation Lightness

hsl(var(--hue), 89%, 61%)

```
.color-pair {  
    --hue: 3deg;  
    --hue2: calc(var(--hue) + 180deg);  
}
```

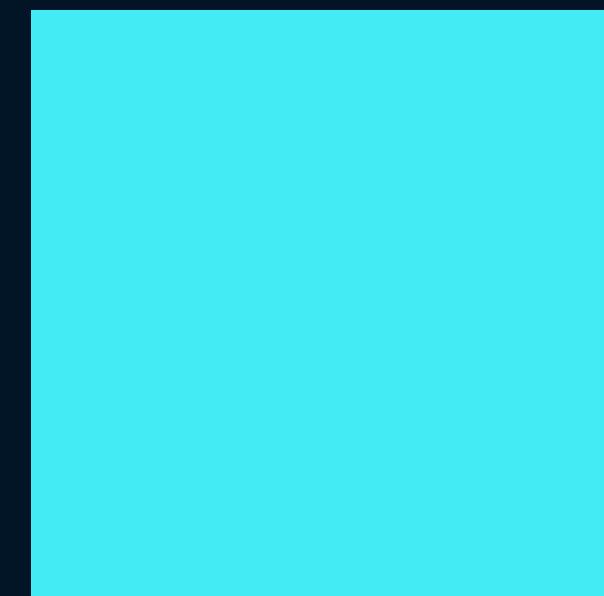
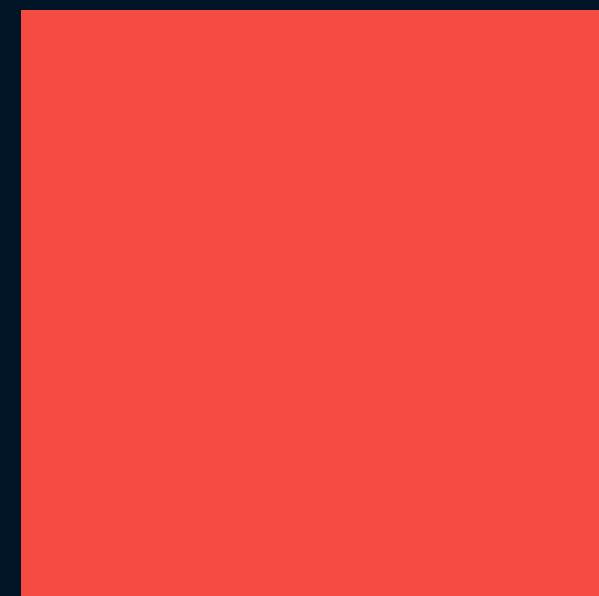
--hue: 3deg;



--hue2: calc(var(--hue) + 180deg);

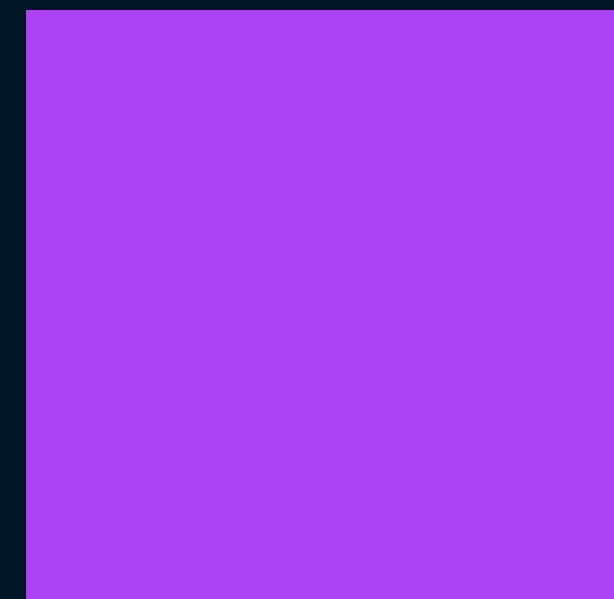
```
.color-pair--red {  
  --hue: 3deg;  
}
```

```
hsl(var(--hue), 89%, 61%);    hsl(var(--hue2), 89%, 61%);
```



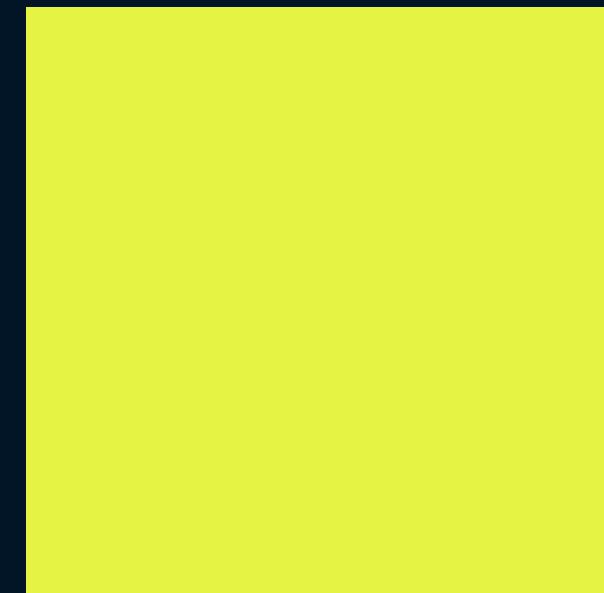
```
.color-pair--purple {  
  --hue: 276deg;  
}
```

```
hsl(var(--hue), 89%, 61%);    hsl(var(--hue2), 89%, 61%);
```



```
.color-pair--yellow {  
  --hue: 65deg;  
}
```

```
hsl(var(--hue), 89%, 61%);    hsl(var(--hue2), 89%, 61%);
```





```
.element {  
  --segment: 30deg;  
}
```



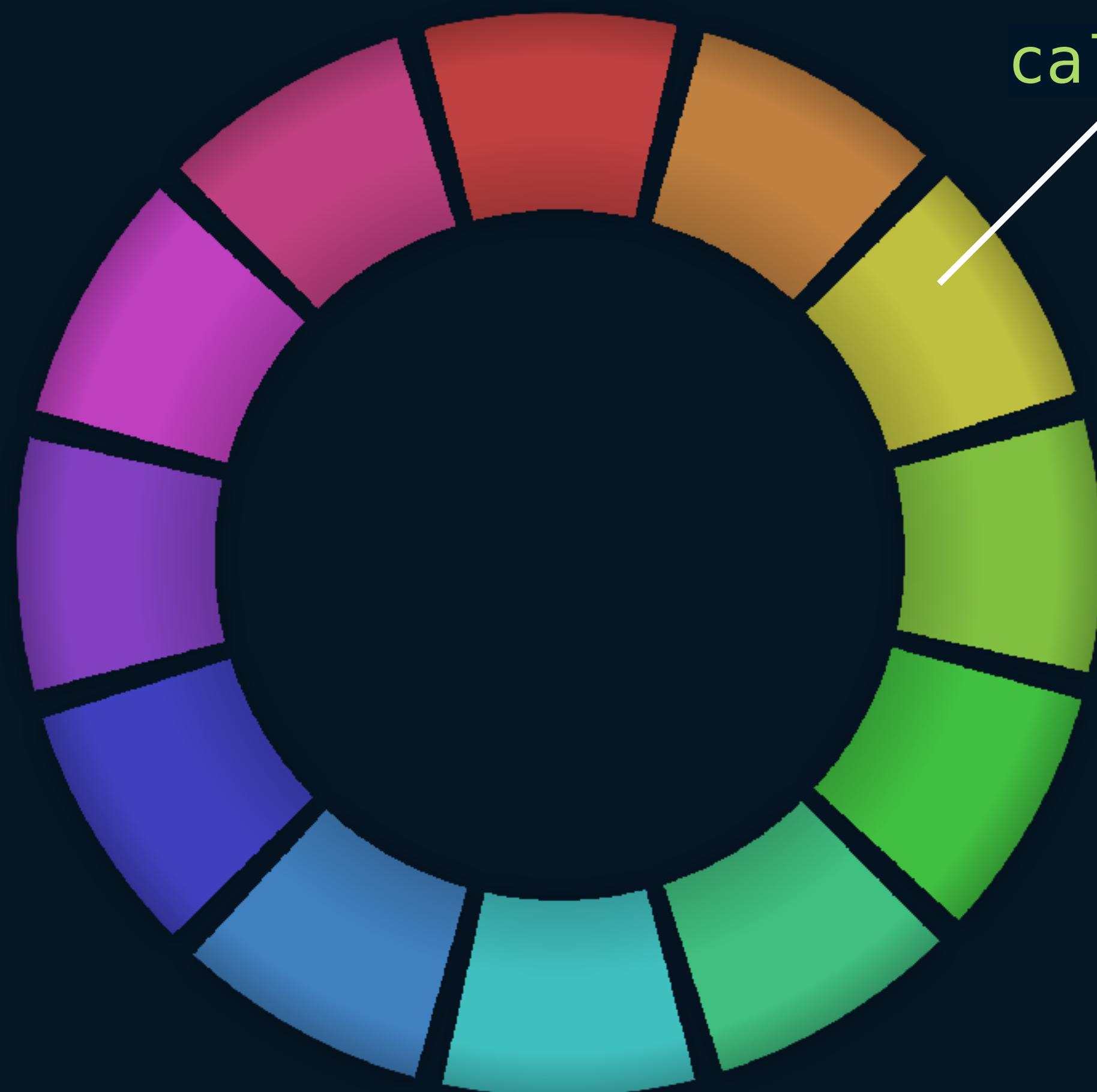
```
.element {  
  --segment: 30deg;  
}
```

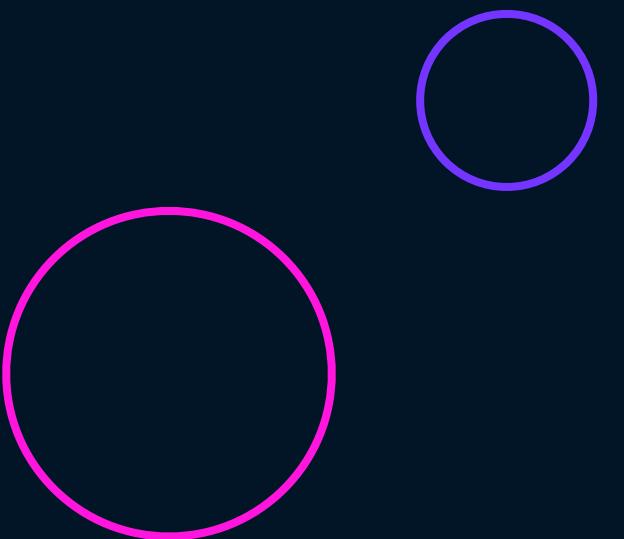
```
calc(var(--segment) * 2);
```



```
.element {  
  --segment: 30deg;  
}
```

```
calc(var(--segment) * 3);
```





Relative values

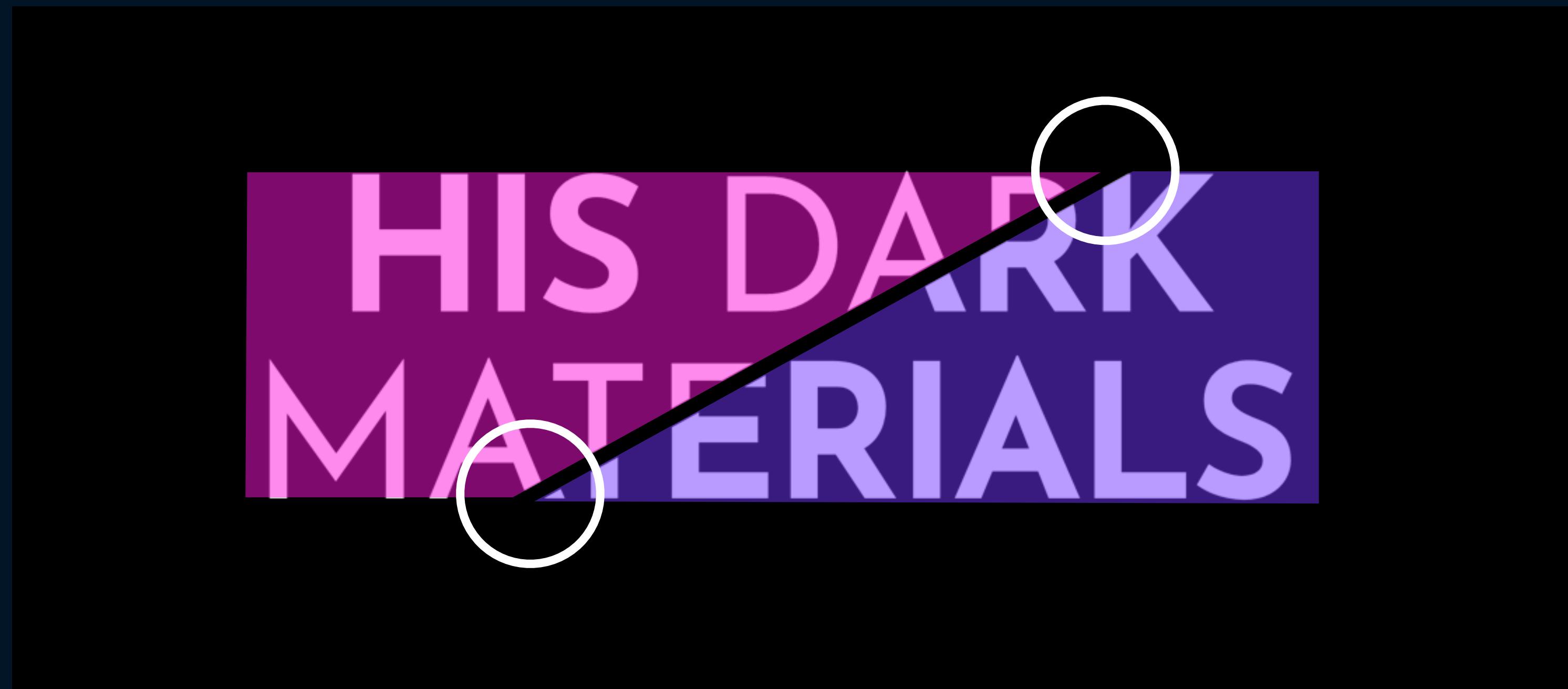
HIS DARK MATERIALS

codepen.io/michellebarker/pen/yLLGVMQ



Path 1

Path 2

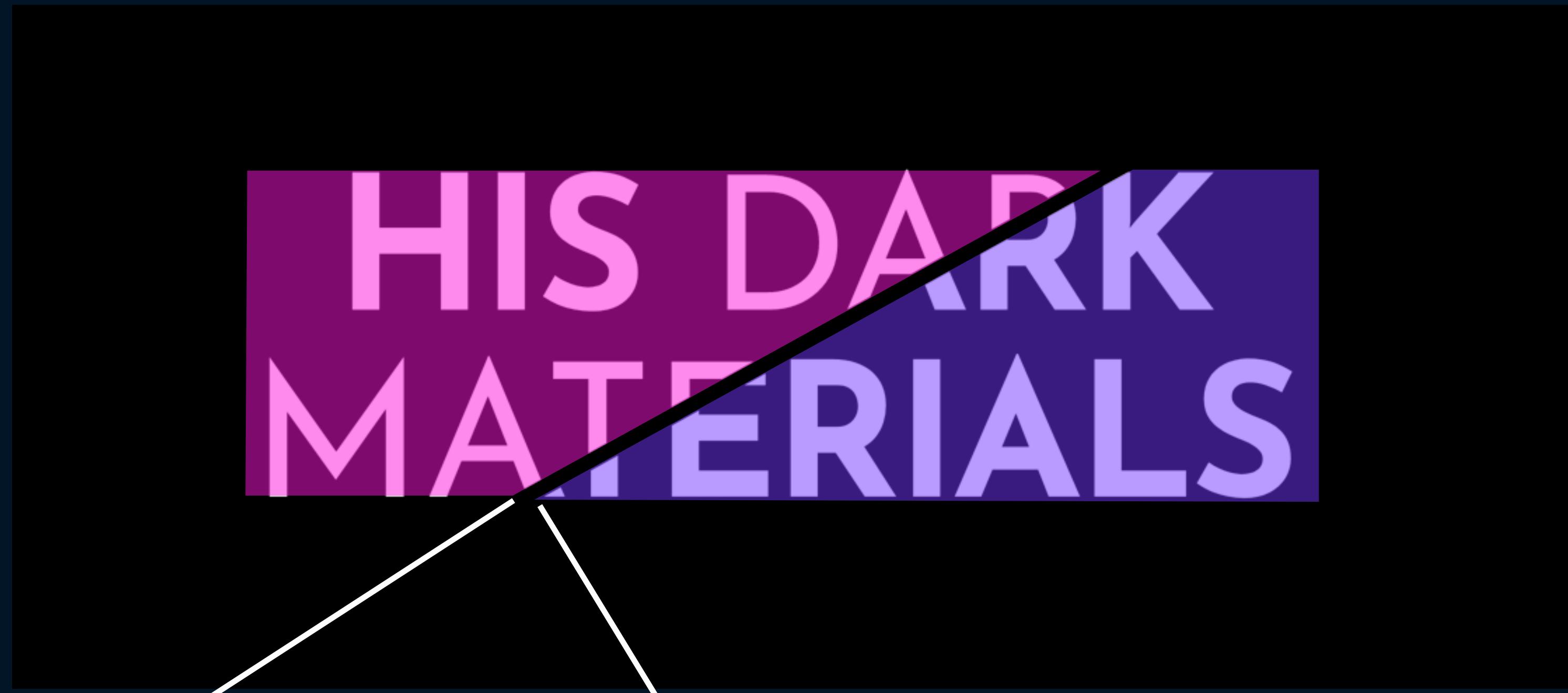


codepen.io/michellebarker/pen/yLLGVMQ

`calc(80% - 0.5rem)`

`calc(80% + 0.5rem)`





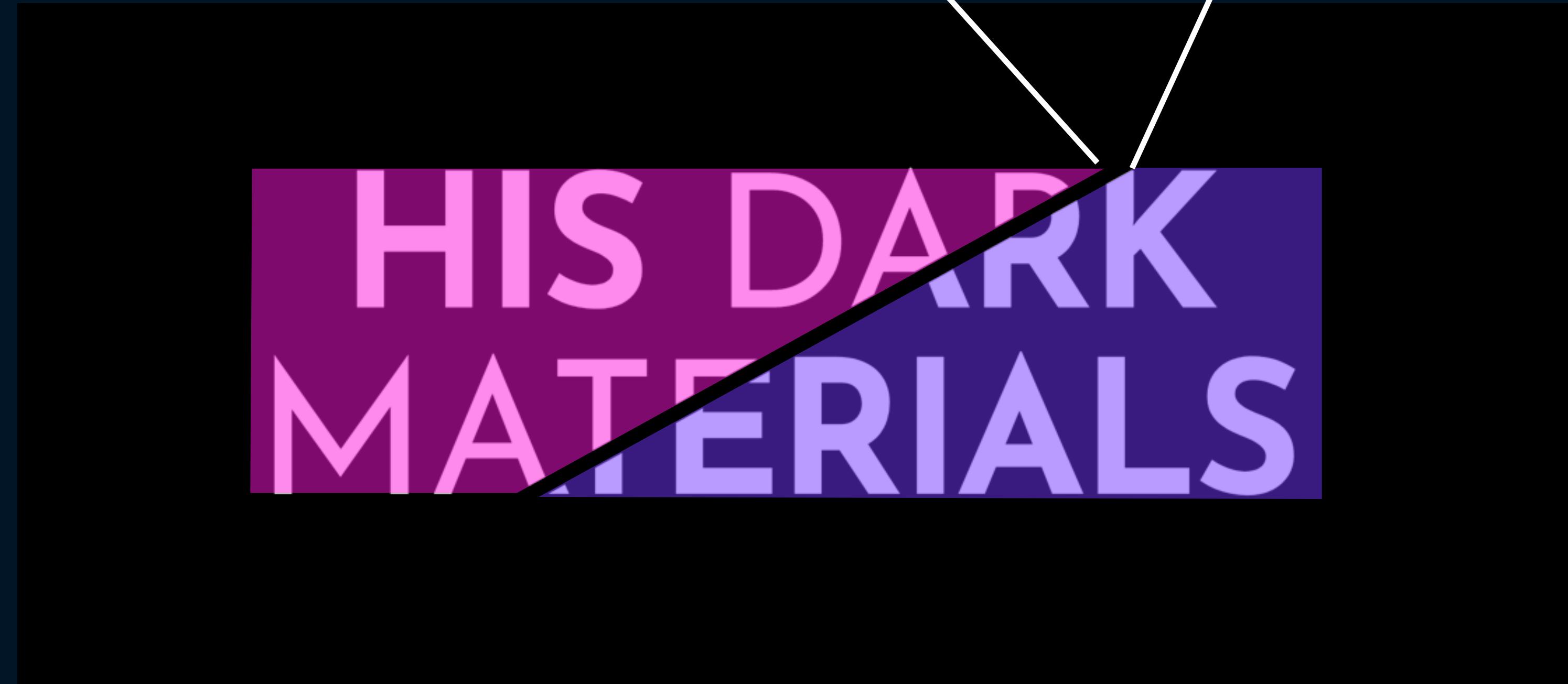
`calc(20% - 0.5rem)`

`calc(20% + 0.5rem)`

```
.element {  
  --bottom: 20%;  
  --top: 80%;  
  --offset: 0.5rem;  
}
```



```
.element {  
  --bottom: 20%;  
  --top: 80%;  
  --offset: 0.5rem;  
}  
  
calc(var(--top) - var(--offset))  
calc(var(--top) + var(--offset))
```

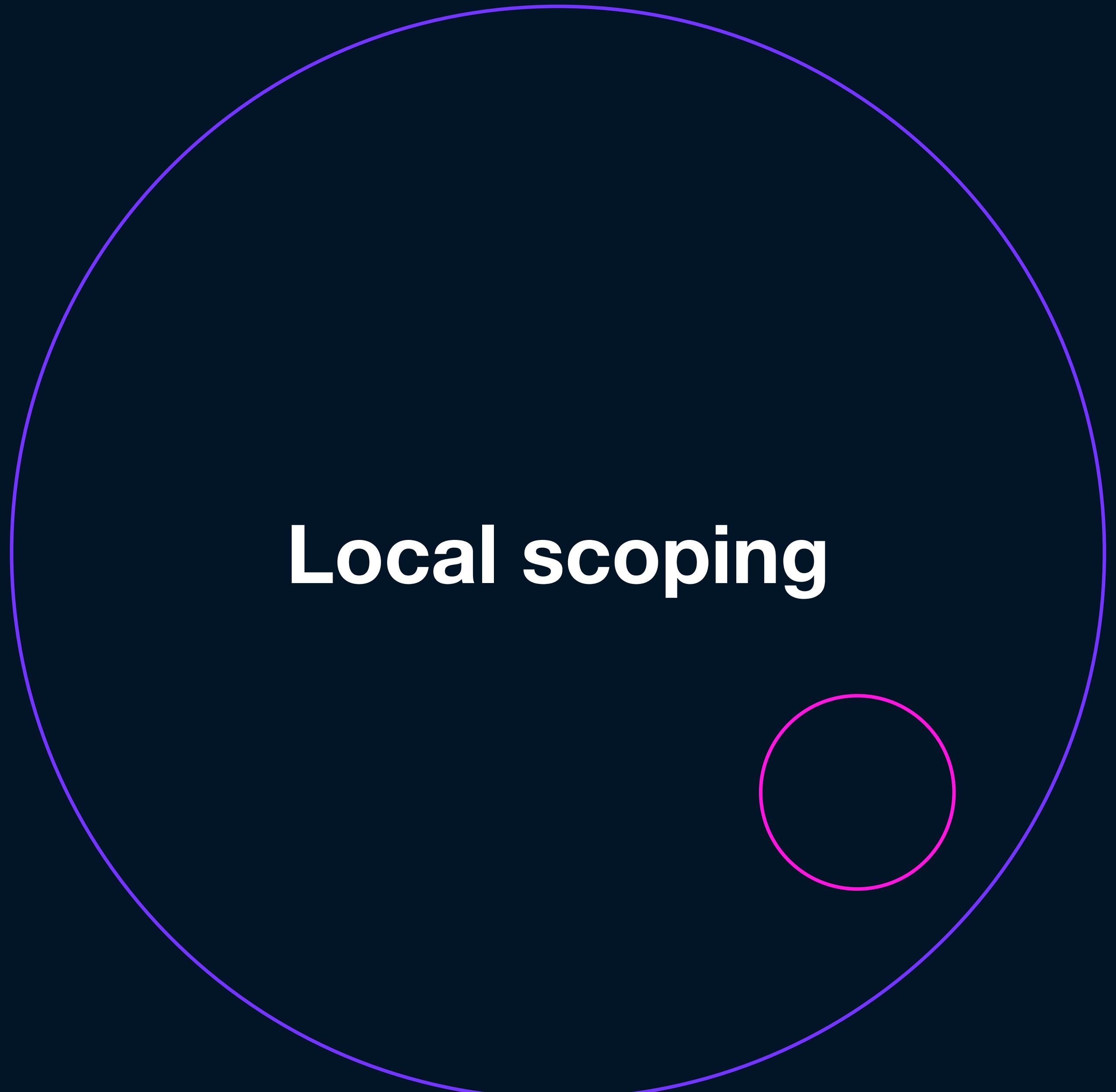


```
.element {  
  --bottom: 20%;  
  --top: 80%;  
  --offset: 0.5rem;  
}
```



`calc(var(--bottom) - var(--offset))`

`calc(var(--bottom) + var(--offset))`



Local scoping

```
.grid {
  --cols: 8;

  grid-template-columns: repeat(var(--cols), minmax(0, 1fr));
  ...

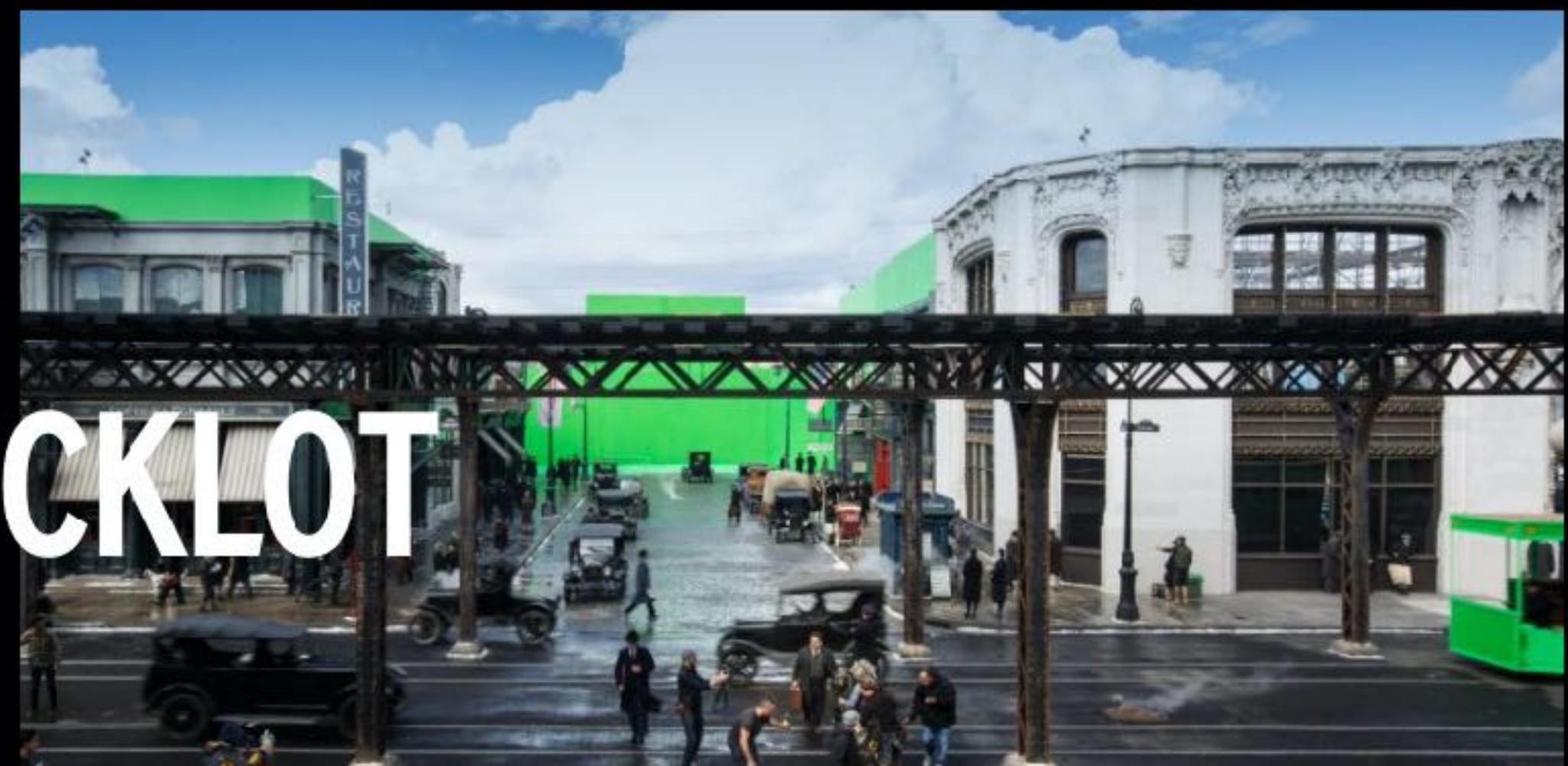
}

@media (min-width: 60em) {
  .grid {
    --cols: 12;
  }
}
```



STAGES & TANKS

With a world-class collection of some of the UK's largest soundstages and tanks, Warner Bros. Studios Leavesden is the place for even the most ambitious of sets.



BACKLOT

At more than 100 acres, our backlot is one of the



STAGES & TANKS

With a world-class collection of some of the UK's largest soundstages and tanks, Warner Bros. Studios Leavesden is the place for even the most ambitious of sets.



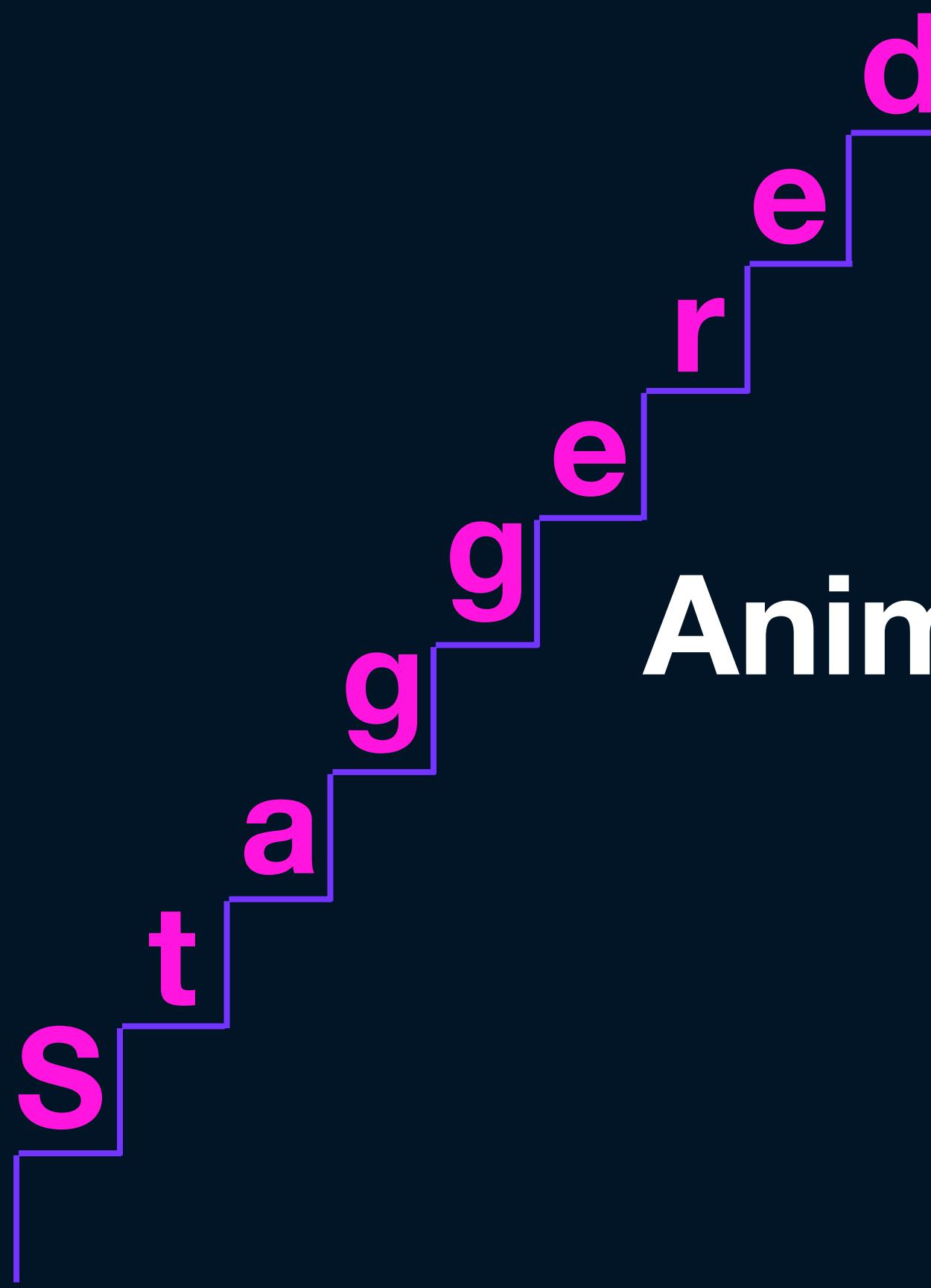
BACKLOT

At more than 100 acres our backlot is one of the

```
.grid {  
  display: grid;  
  grid-template-columns:  
    [outer-start] minmax(20px, 1fr) [wrapper-start]  
    repeat(24, minmax(0, 30px))  
    [wrapper-end] minmax(20px, 1fr) [outer-end];  
  grid-template-rows:  
    [outer-start] 1fr [text-top-end] 40px  
    [heading-start] auto [heading-end]  
    40px [text-bottom-start] 1fr [outer-end];  
  grid-gap: 0 20px;  
}
```

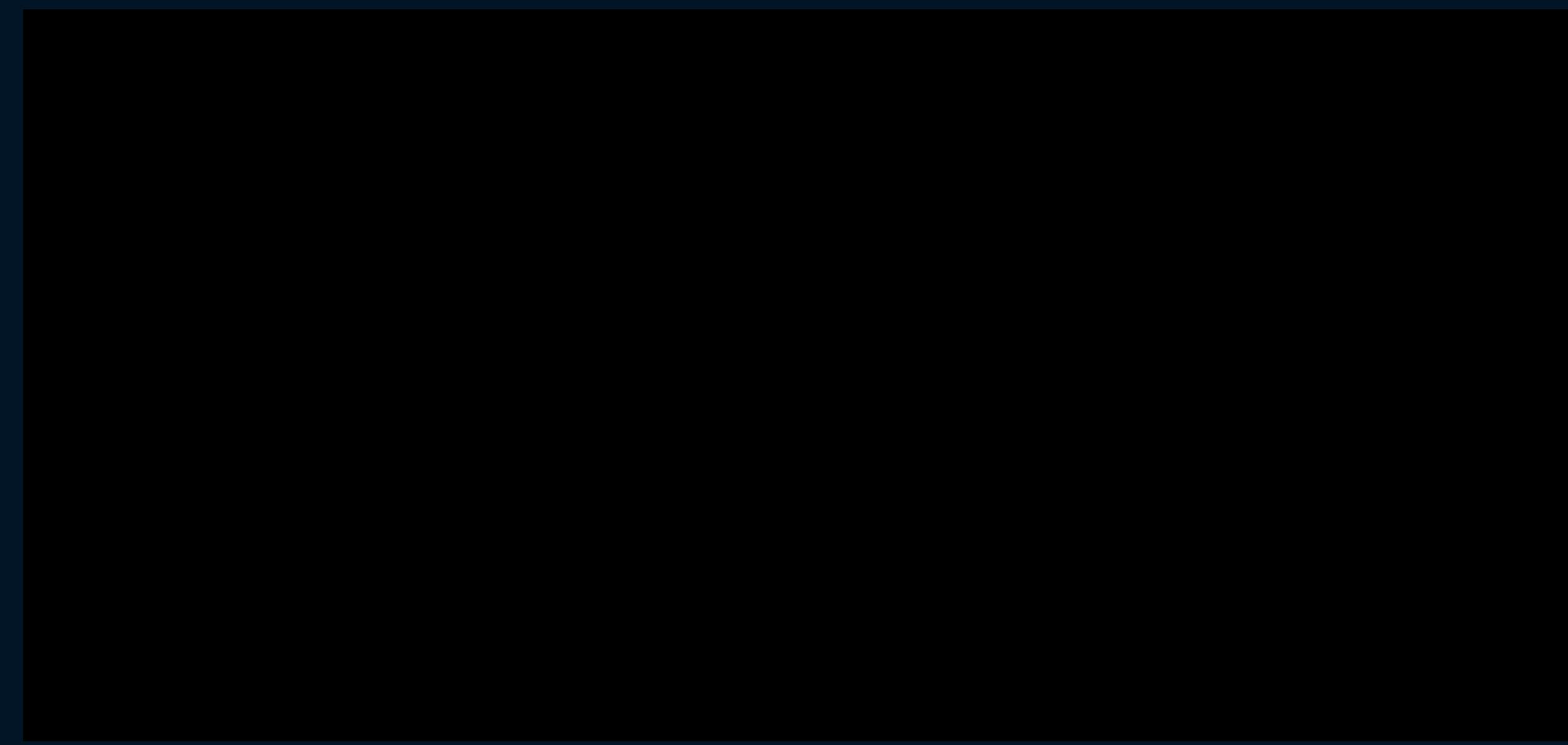
```
.grid {  
  --columnWidth: 30px;  
  --gutter: 20px;  
  
  display: grid;  
  ...  
}
```

```
@supports (--cols: 8) {  
  .grid {  
    --cols: 8;  
  
    /* More code here... */  
  }  
}
```



Animations

step by step



```
.some-element:nth-child(2) {  
    --i: 2;  
}
```

```
.some-element:nth-child(3) {  
    --i: 3;  
}
```

```
.some-element {  
  --delay: calc(var(--i, 1) * 400ms);  
}
```

```
.some-element {  
  --delay: calc(var(--i, 1) * 400ms);  
  
  animation: appear 1000ms var(--delay) forwards;  
}
```



Progress indicators

1

Discovery and assessment

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Adipiscing diam donec adipiscing tristique risus.

2

Information gathering and analysis

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Adipiscing diam donec adipiscing tristique risus.

3

Creating your claim

```
<ol style="--length: 5">
  <li style="--i: 1">...</li>
  <li style="--i: 2">...</li>
  <li style="--i: 3">...</li>
  <li style="--i: 4">...</li>
  <li style="--i: 5">...</li>
</ol>
```

```
li::before {  
  --stop: calc(100% / var(--length) * var(--i));  
  
  background:  
    linear-gradient(to right,  
      var(--c1) var(--stop), var(--c2) var(--stop));  
}
```

2

Information gathering and analysis

Lore ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna aliqua. Adipiscing diam donec adipiscing
tristique risus.

```
<h1>
  <span style="--i: 1">B</span>
  <span style="--i: 2">r</span>
  <span style="--i: 3">e</span>
  <span style="--i: 4">a</span>
  <span style="--i: 5">t</span>
  <span style="--i: 6">h</span>
  <span style="--i: 7">i</span>
  <span style="--i: 8">n</span>
  <span style="--i: 9">g</span>
</h1>
```

```
span {  
  --delay: calc((var(--i) + 1) * 400ms);  
  
  animation: breathe 4000ms var(--delay) infinite both;  
}
```



Breathing



splitting.js.org



Q

Guide Plugins API Demos View on GitHub



CSS Vars for split words & chars!
(items, grids, images, too!)

Splitting creates elements and adds CSS variables to unlock amazing possibilities for animating text, grids, and more!

[Get Splitting →](#)

Install with `npm i splitting -s` or [Download zip](#)

DoubleDash your CSS

The previously impractical becomes easy with Splitting's CSS Variables.

Comically Small

A shocking amount of features in a 1.5kb (minified & gzipped) package.

Progressively Enhance

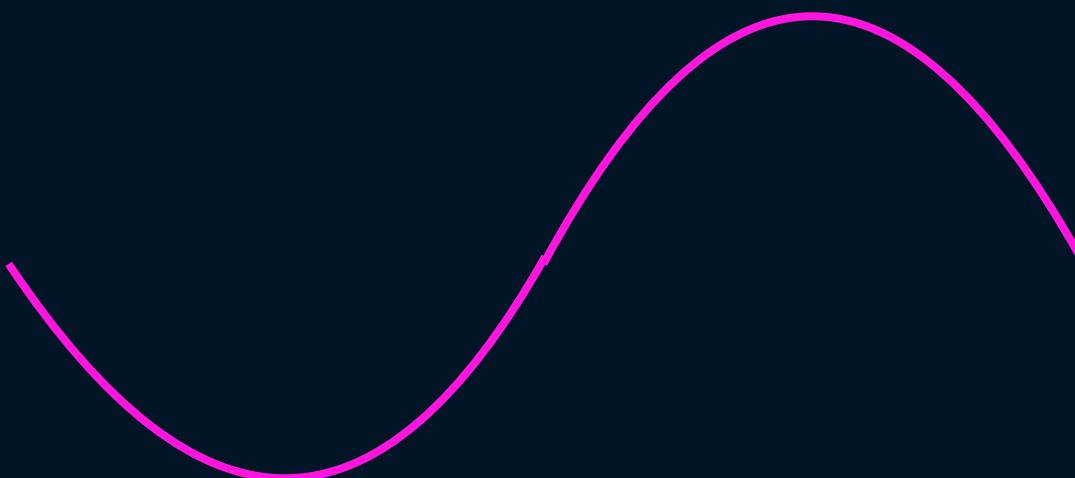
Upgrade websites for modern browsers without breaking IE.

Motion Path





Motion Path

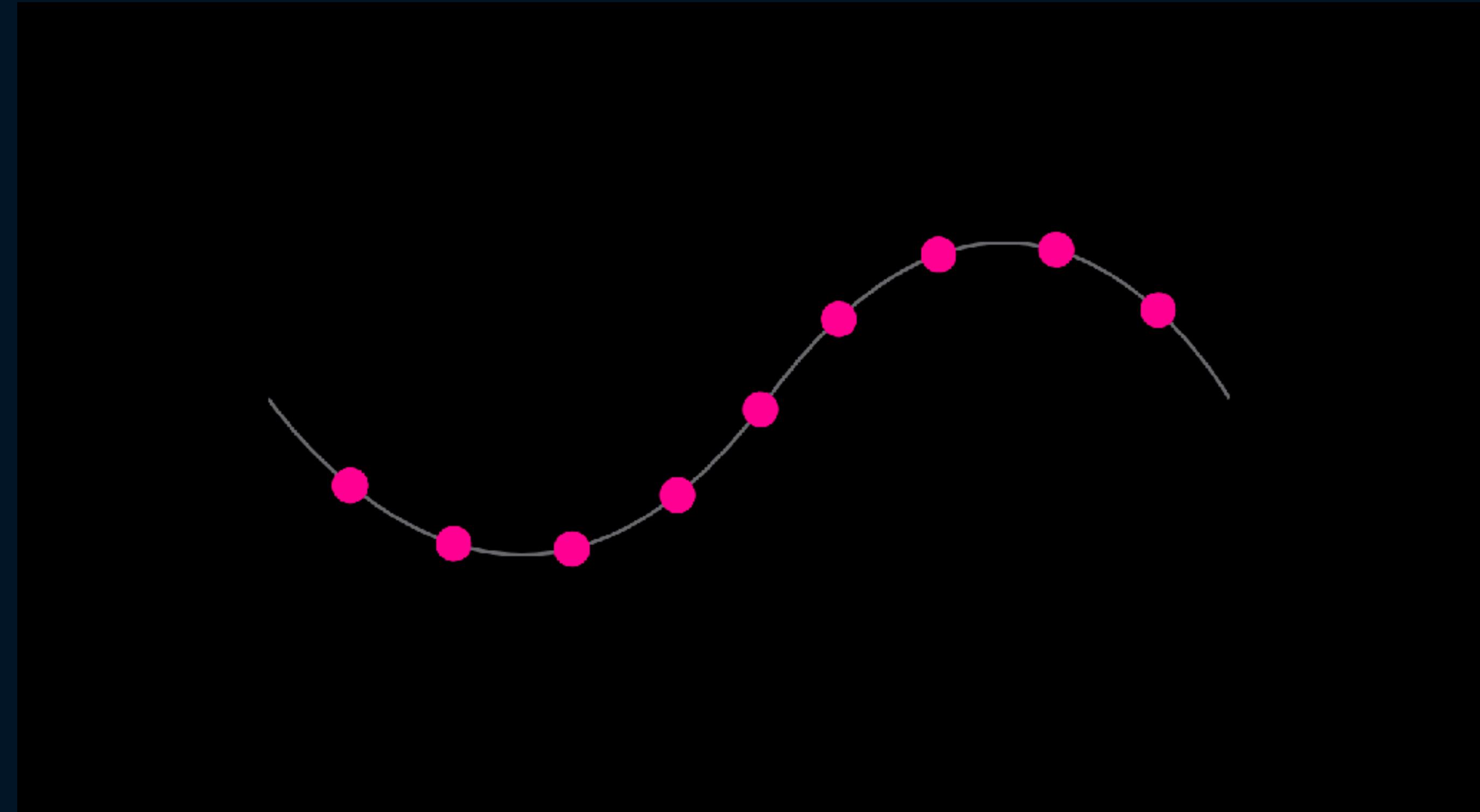


```
.element {  
  offset-path: path('M.4 84.1s127.4 188 267.7 0  
                    247.3 0 247.3 0');  
  offset-distance: 0;  
}
```

```
.element {  
  offset-path: path('M.4 84.1s127.4 188 267.7 0  
                     247.3 0 247.3 0');  
  offset-distance: 0;  
  animation: move 2000ms infinite alternate;  
}  
  
@keyframes move {  
  to {  
    offset-distance: 100%;  
  }  
}
```

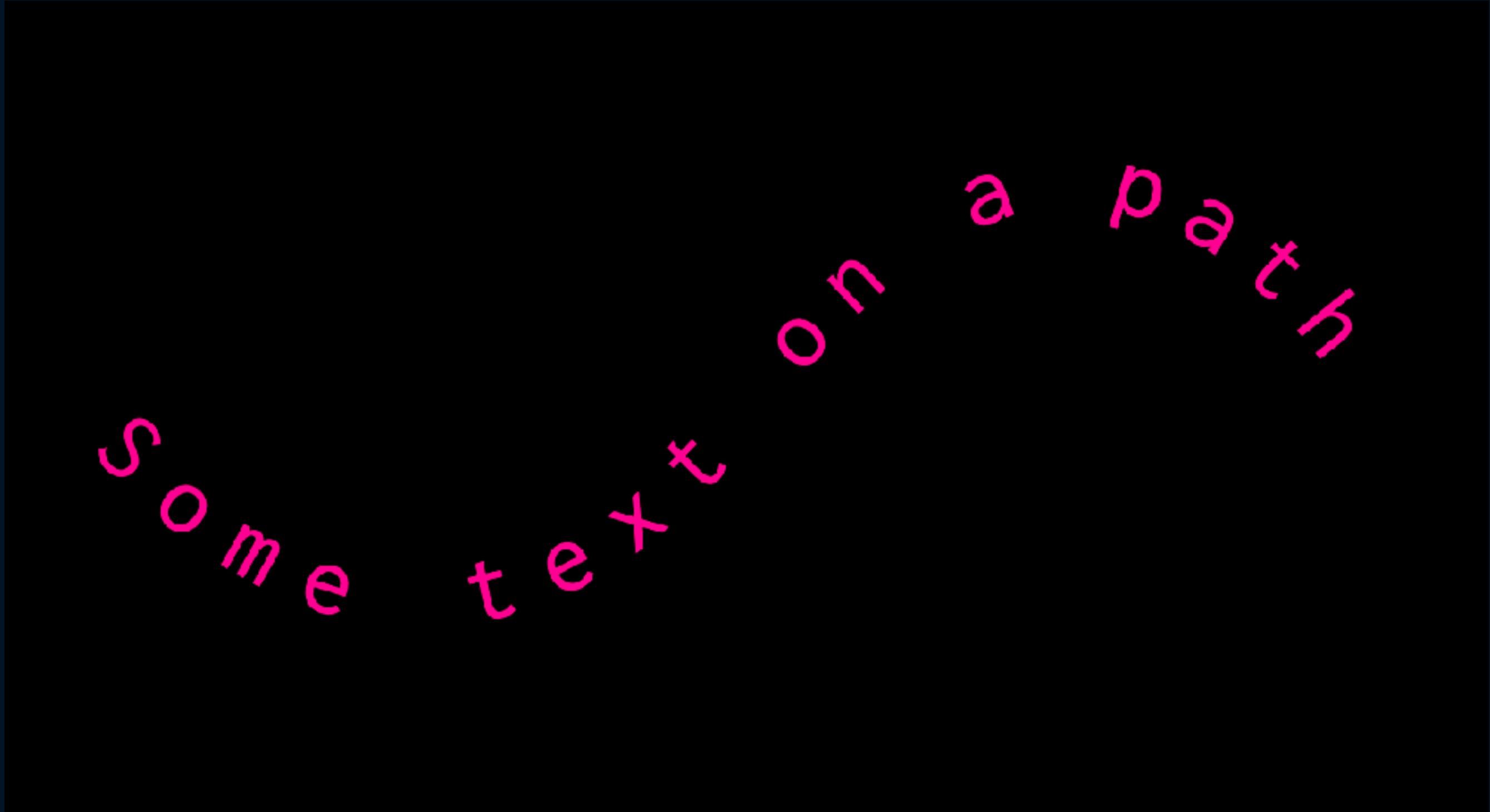


```
.element {  
  offset-distance: calc(var(--i, 1) * 4rem);  
}
```



codepen.io/michellebarker/pen/PoZoVPE

```
.char {  
  offset-distance: calc(var(--i, 1) * 2rem);  
}
```



Some text
on a path

```
.char {  
  --offset: calc(100% / (var(--char-total) + 1));  
  
  offset-distance: calc(var(--offset) * var(--char-index));  
}
```

```
.char {  
  --offset: calc(100% / (var(--char-total) + 1));  
  offset-distance: calc(var(--offset) * var(--char-index));  
}
```

```
.char {  
  --offset: calc(100% / (var(--char-total) + 1));  
  offset-distance: calc(var(--offset) * var(--char-index));  
}
```

MOTION PATH TEXT IN A CIRCLE WITH

```
--offset: calc(100% / (var(--char-total) + 1));
```

A circular path with text wrapped around it. The text includes 'PATH', 'TEXT', 'IN', 'A', 'CIRCLE', 'WITH', and 'MOTION'.

PATH TEXT IN
A CIRCLE WITH MOTION

```
offset-distance: calc(var(--offset) * var(--char-index));
```

A circular path with text wrapped around it. The text includes 'PATH', 'TEXT', 'IN', 'A', 'CIRCLE', 'WITH', and 'MOTION'.

PATH TEXT IN
A CIRCLE WITH MOTION

codepen.io/michellebarker/pen/jOWOdXj

```
.char {
  --position: calc(var(--char-index) * 1em);

  offset-distance: var(--position);
  animation: move 1500ms infinite alternate forwards;
}

@keyframes move {
  to {
    offset-distance: calc(var(--position) + 12rem);
  }
}
```

I
A M A N I M A T I N G

```
.char {
  --delay: calc(var(--char-index) * 30ms);
  animation: move 1500ms var(--delay) infinite alternate forwards;
}
```

I AM ANIMATING

codepen.io/michellebarker/pen/abOKPyg

CAN'T STOP LOOPING

codepen.io/michellebarker/pen/XWJyydY

JUST HANGING OUT

codepen.io/michellebarker/pen/VwYOvJG

```
.item {
  --d: 1000ms;
  --i: calc(var(--item-total) - var(--item-index));
  --x: calc((var(--item-index) - var(--i)) * 4deg);
  --tPerSegment: calc(var(--d) / var(--item-total));
  --itemDuration: calc(var(--tPerSegment) * var(--item-index));
  --itemDuration2: calc(var(--tPerSegment) * var(--i));
  --c: calc(1 / var(--item-total) * 50);
  --h: calc(var(--item-index) * 15);
  --color: hsl(var(--h), 50%, 50%);
  --offset: calc(var(--item-index) * (var(--c) * 1%) + 1.65rem);
  --offset2: calc(var(--i) * (var(--c) * 1%));
  --endPos: calc(var(--item-total) * (var(--c) * 1%));
}
```


Zig-zag gradient lab

Options

Angle



Stripe thickness



Segment width



Primary colour

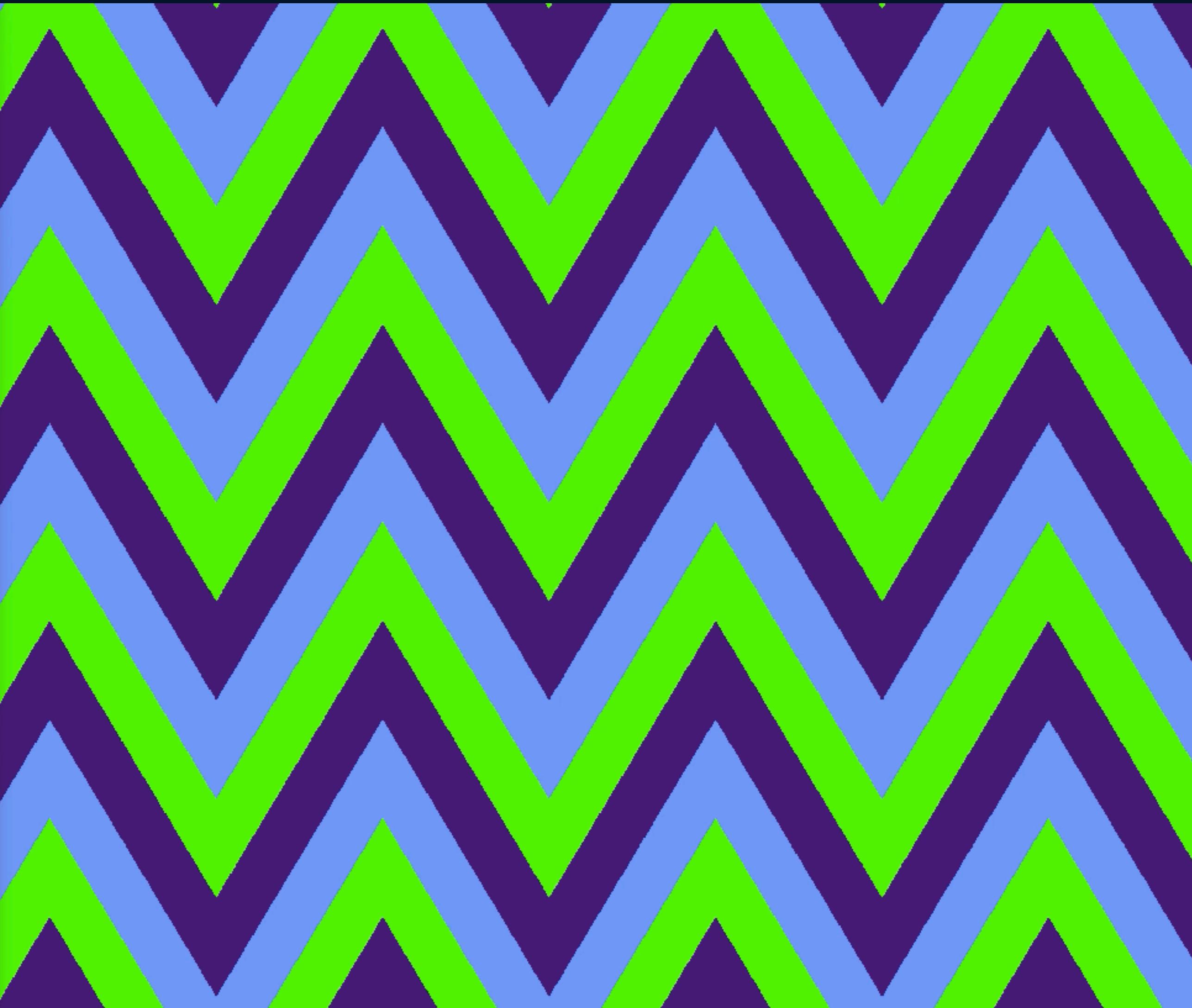


Contrast



CSS output

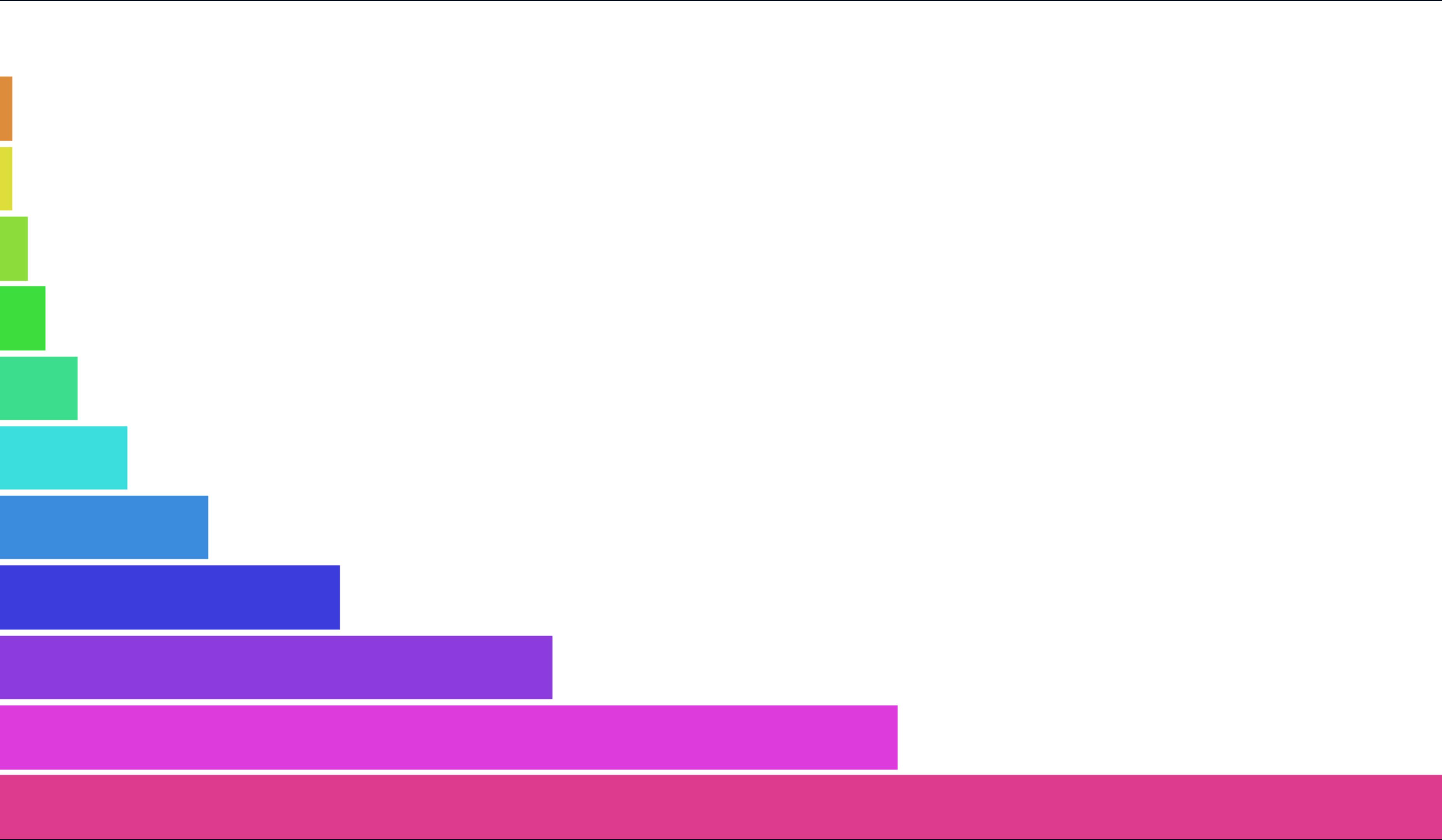
```
.bg {  
  background-image: repeating-linear-gradient(59deg,  
  background-size: 131px 100%, 131px 100%);  
}  
  
.bg::after {  
  background-image: repeating-linear-gradient(calculate(  
background-size: 131px 100%, 131px 100%);  
-webkit-mask-image: repeating-linear-gradient(to  
mask-image: repeating-linear-gradient(to right,  
}
```



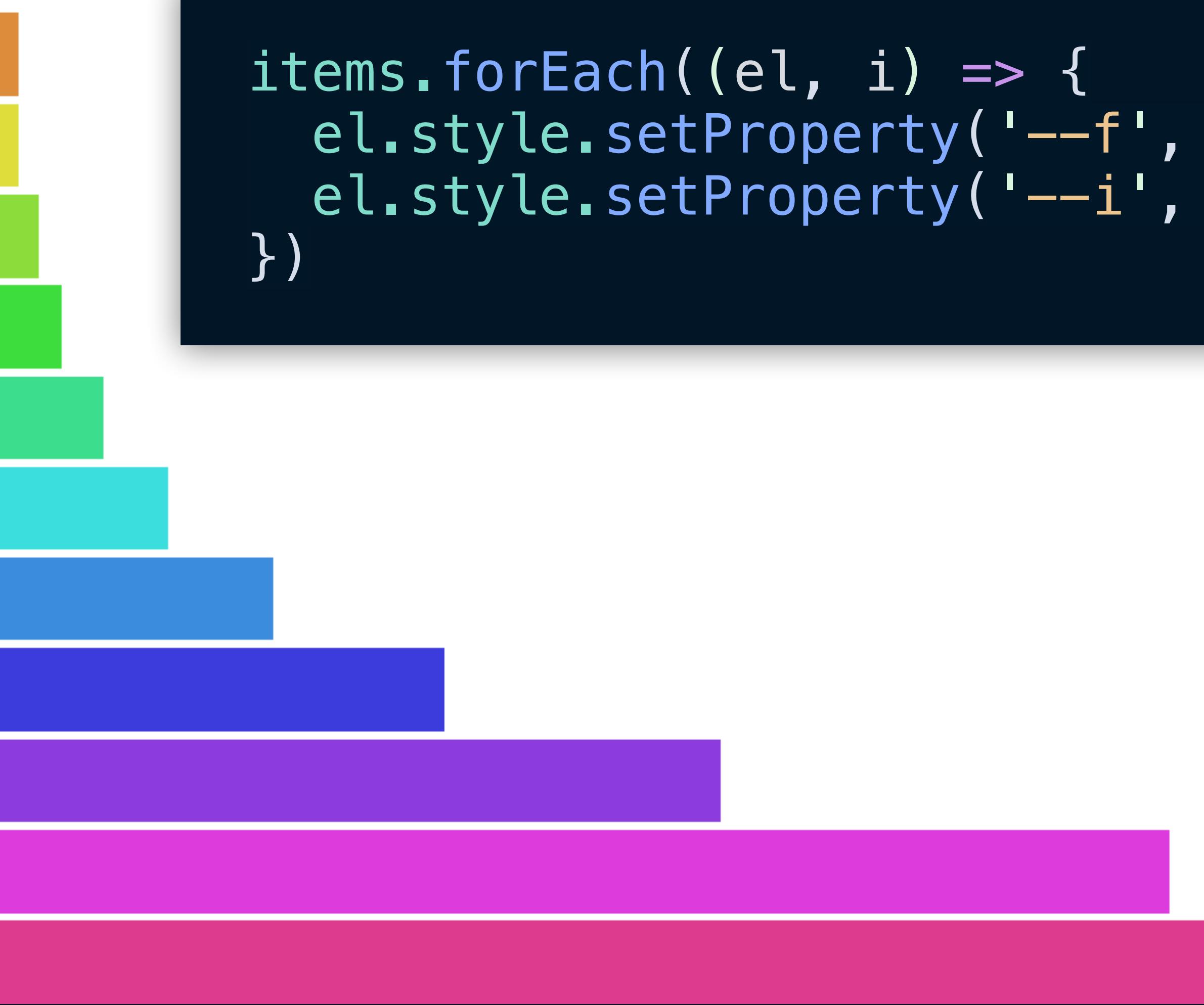
codepen.io/michellebarker/pen/abdKLLz



transition: --angle 200ms, --t 200ms, --w 200ms;



codepen.io/michellebarker/pen/abNZjLB



```
items.forEach((el, i) => {
  el.style.setProperty('--f', fibonacci[i])
  el.style.setProperty('--i', i)
})
```

A user's guide to CSS variables

by Lea Verou

bit.ly/3fSzc0s

Calculating Color: Dynamic Color Theming with Pure CSS

by Una Kravets

bit.ly/3akbTKP

CSS { In Real Life }

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