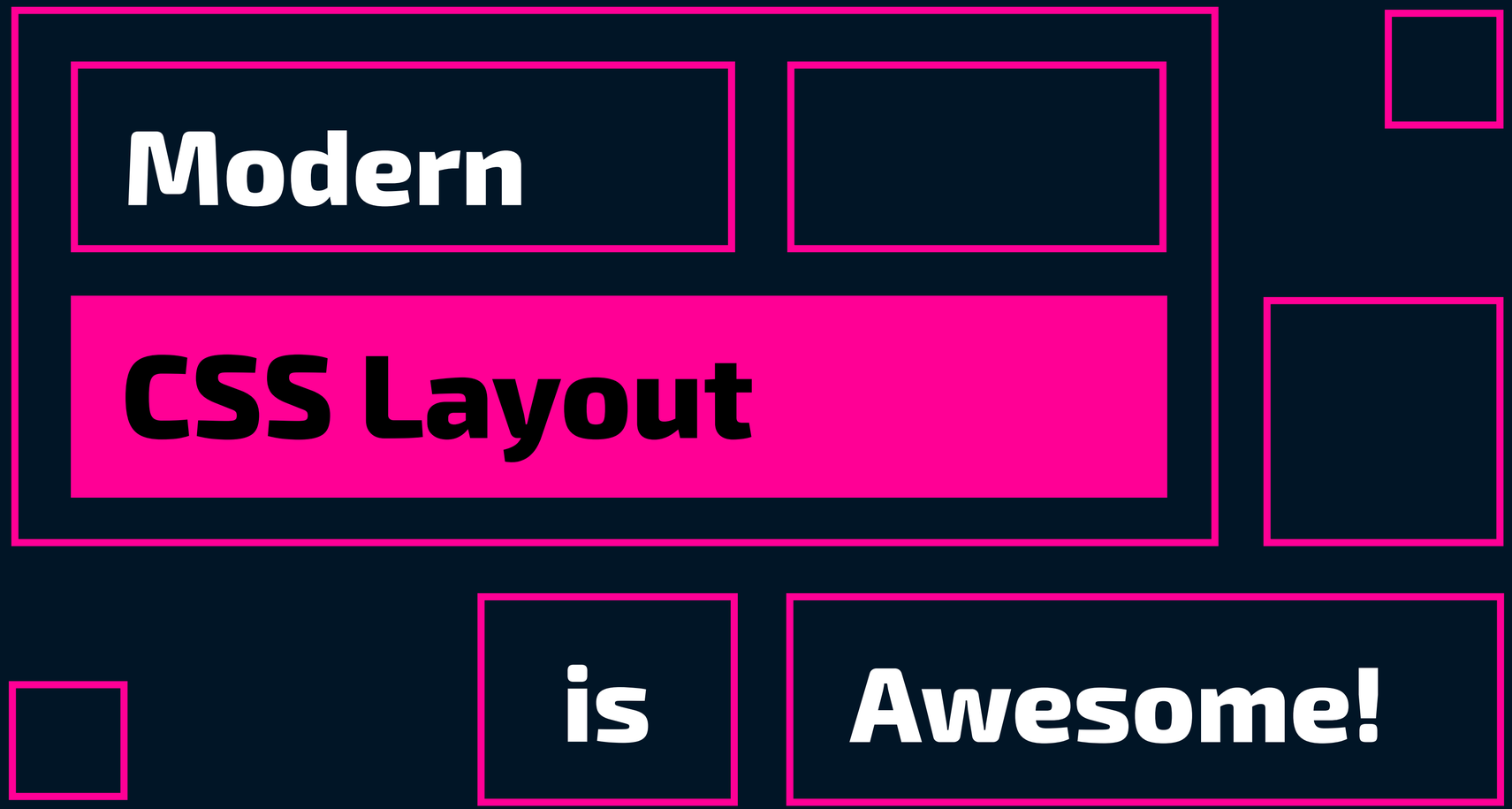

Modern
CSS Layout
is
Awesome!

Senior Front End Developer at

Ada Mode

The web's most beautiful language

css-irl.info

Menu

/*CSS { In Real Life }

Tips, tricks and tutorials on the web's most beautiful language.

Search by topic...

css workflow javascript opinion css grid layout custom properties tooling careers inspiration animation environment events html video

All topics

Categories

All (173)

Articles (166)

Quick tips (4)

Notes (3)

Setting Up a New(ish) MacBook

Tue Feb 28 2023

I recently dusted off a relatively old (~5 years) MacBook and replaced the battery with the plan that I could use it as a secondary machine, for my "non-work" stuff. The last couple of times I've got a new Mac I've gone for the option of cloning my old setup, so I don't need to instal...

Read more →

Resizing with CSS

Fri Feb 17 2023

CSS
IS
AWESOME

Tables
Floats
Clearfixes

Tables
Floats
Clearfixes

Flexbox
Grid
Multi-column
Viewport units
Custom properties

“Material honesty”

Jeremy Keith (Resilient Web Design)

Tables
Floats
Clearfixes

Flexbox
Grid
Multi-column
Viewport units

min(), max(), clamp()
Logical properties and values
Container queries
Subgrid
:has()
Intrinsic sizing…

It’s time to re-learn CSS layout!

“Be the browser’s mentor, not its micromanager”

Andy Bell

You might have missed…

Aspect-ratio

Before ☹️

```
.aspect-box {
  position: relative;
}

.aspect-box::before {
  display: block;
  content: '';
  width: 100%;
  padding-bottom: calc(100% /
   (var(--aspect-ratio, 3 / 2)));
}

.aspect-box > :first-child {
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
  left: 0;
}
```

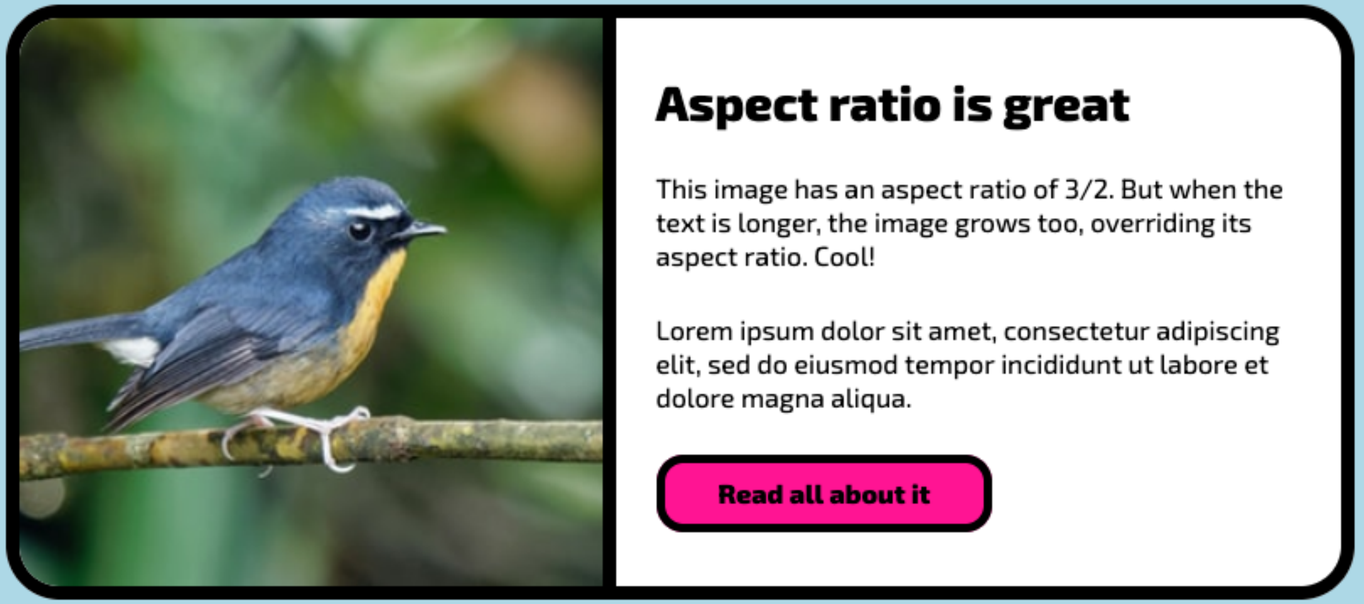
After ☺️

```
.aspect-box {
  aspect-ratio: 3 / 2;
}
```

I have an aspect ratio of 3 / 2

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

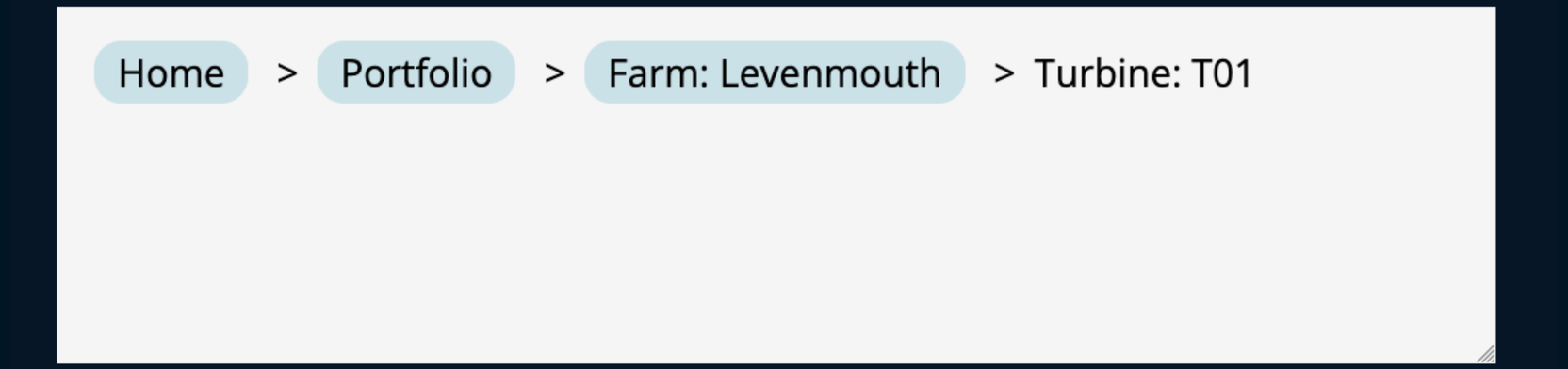
codepen.io/michellebarker/pen/bGLpzjd



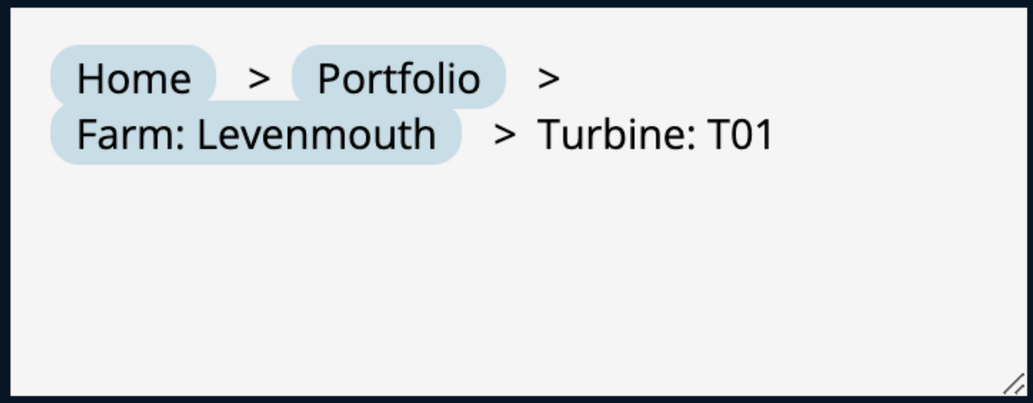
codepen.io/michellebarker/pen/bGLpzjd

Flex gap

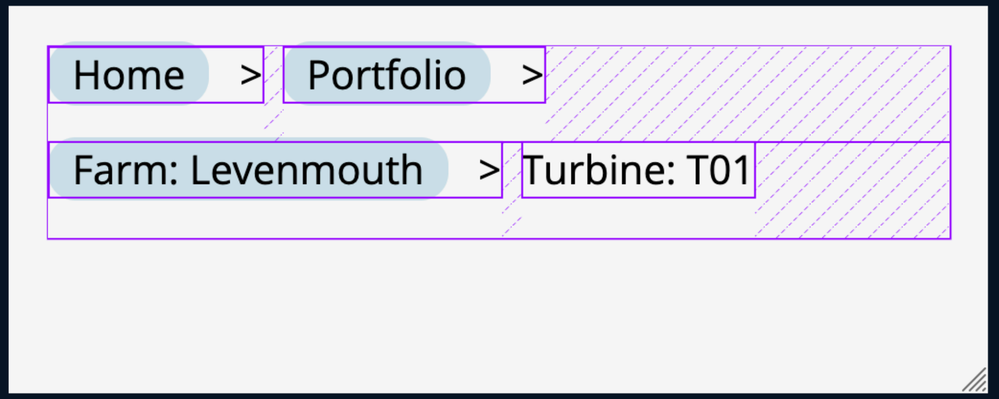
The problem



The problem

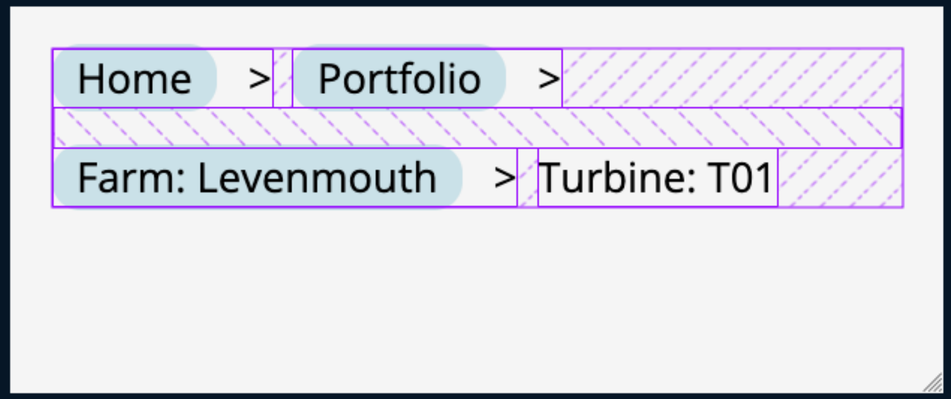


The problem



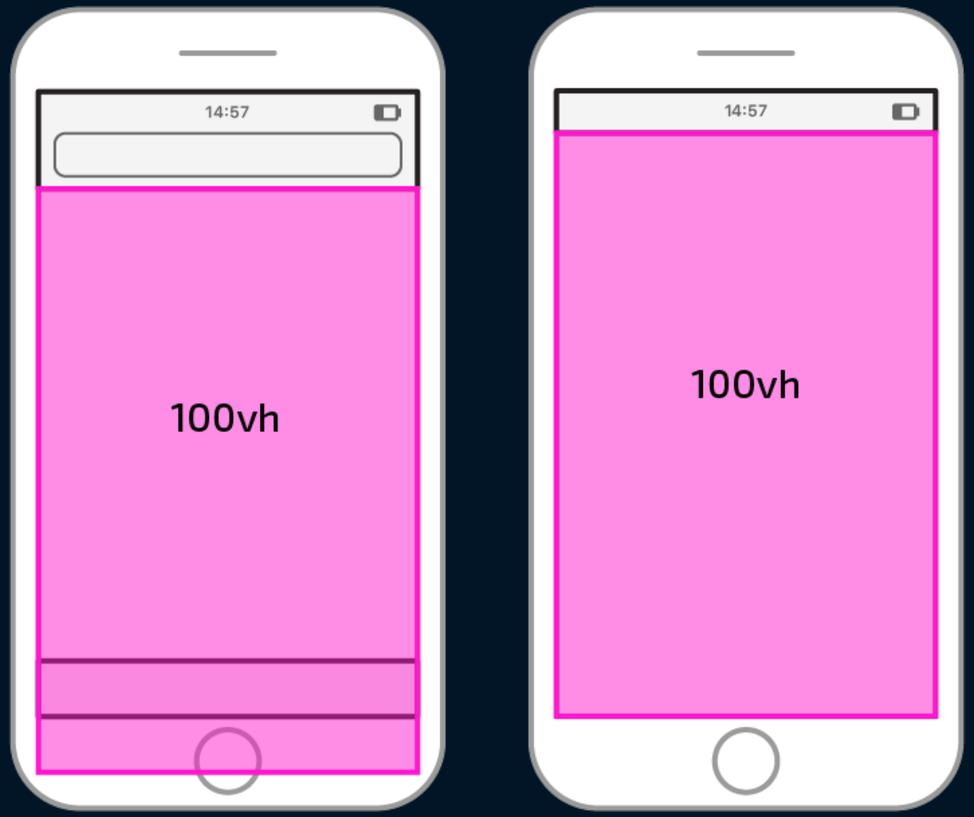
The solution

```
ul {
  gap: 1em 0.5em;
}
```

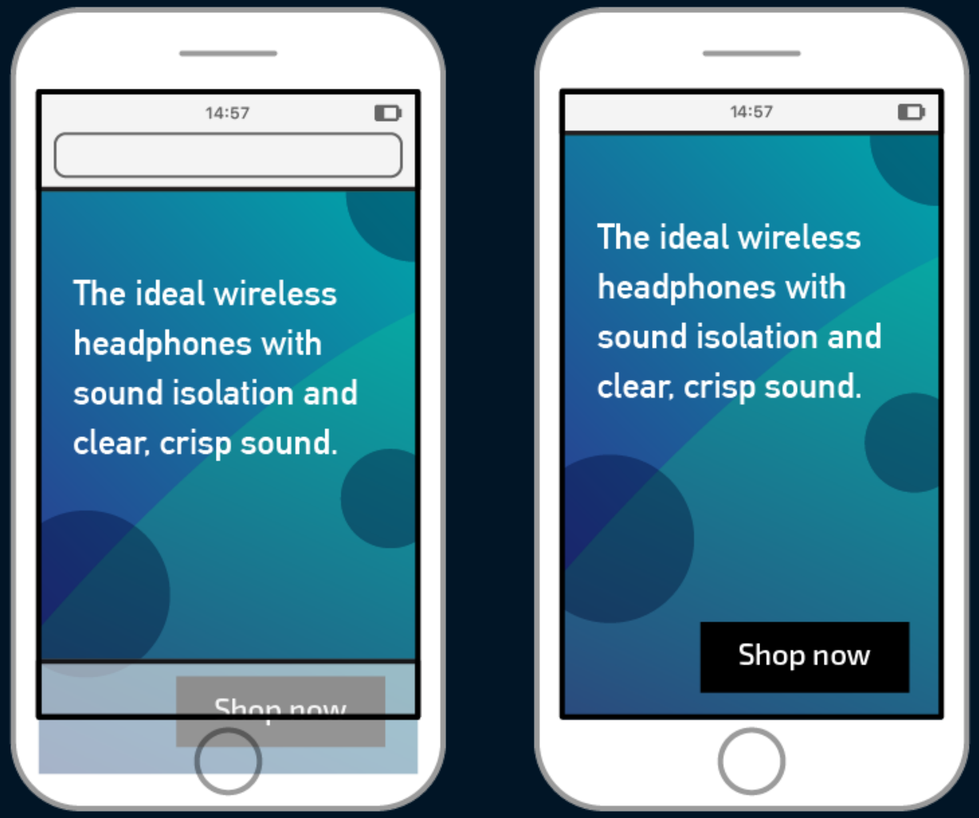


New and improved viewport units

The problem

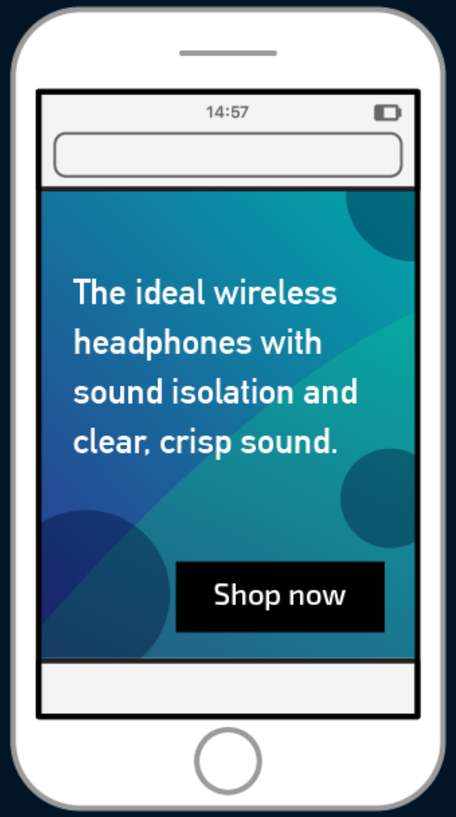


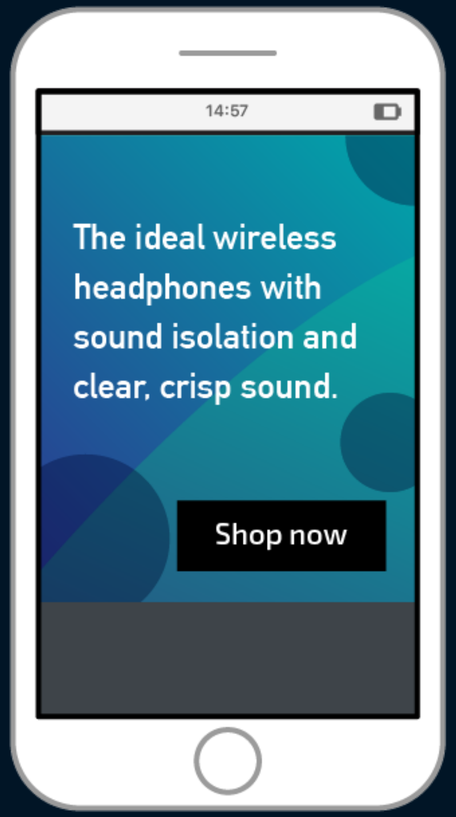
The problem


14:57
The ideal wireless headphones with sound isolation and clear, crisp sound.
Shop now
14:57
The ideal wireless headphones with sound isolation and clear, crisp sound.
Shop now

The solution

100svh

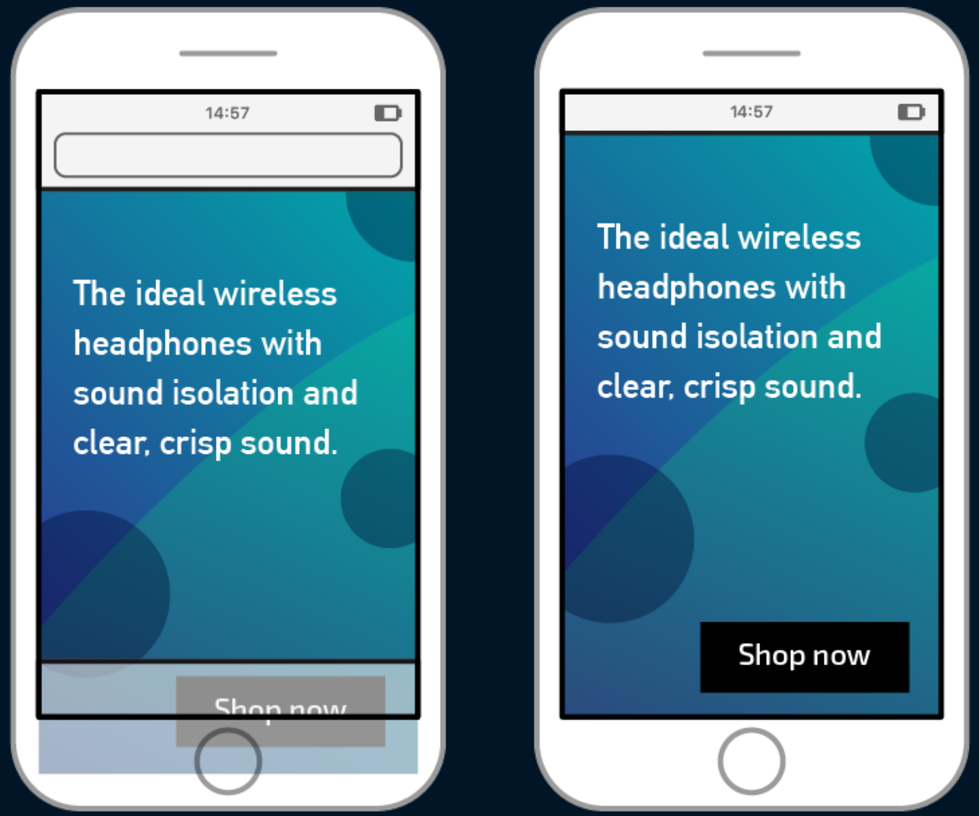




100svh

The solution

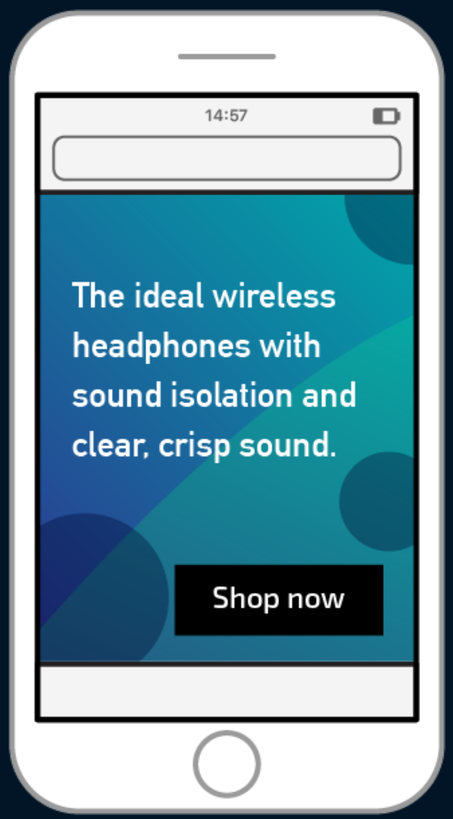
100lvh

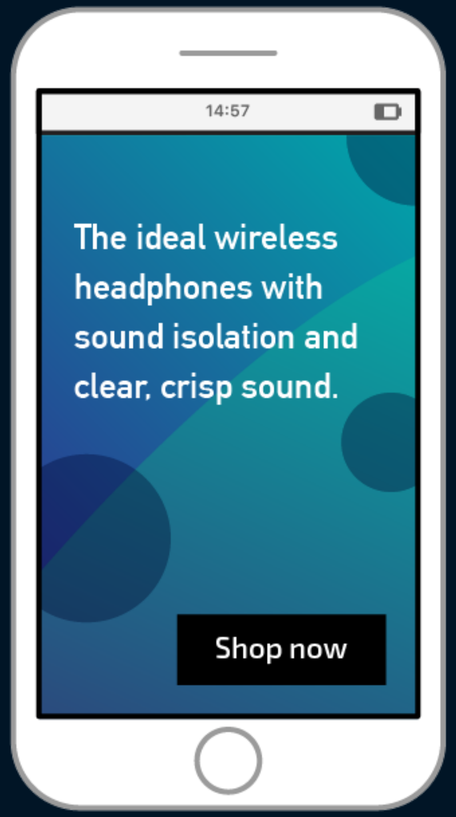


100lvh

The solution

100dvh





100dvh

Overlaying elements

(Putting things on top of each other)

```css
figcaption {
  position: absolute;
  top: 0;
  right: 0;
  bottom: 0;
  left: 0;
}
```

```css
figcaption {
  position: absolute;
  inset: 0;
}
```

```css
figcaption {
  position: absolute;
  inset: 50% 50% 0 0;
}
```

```css
figcaption {
  position: absolute;
  inset-block: 50px;
}
```

```css
figcaption {
  position: absolute;
  inset-inline: 50px;
}
```

```css
figcaption {
  position: absolute;
  inset: auto -2rem -2rem auto;
}
```

```css
figure {
 display: grid;

 > * {
   grid-area: 1 / 1;
 }
}
```

Intrinsic sizing

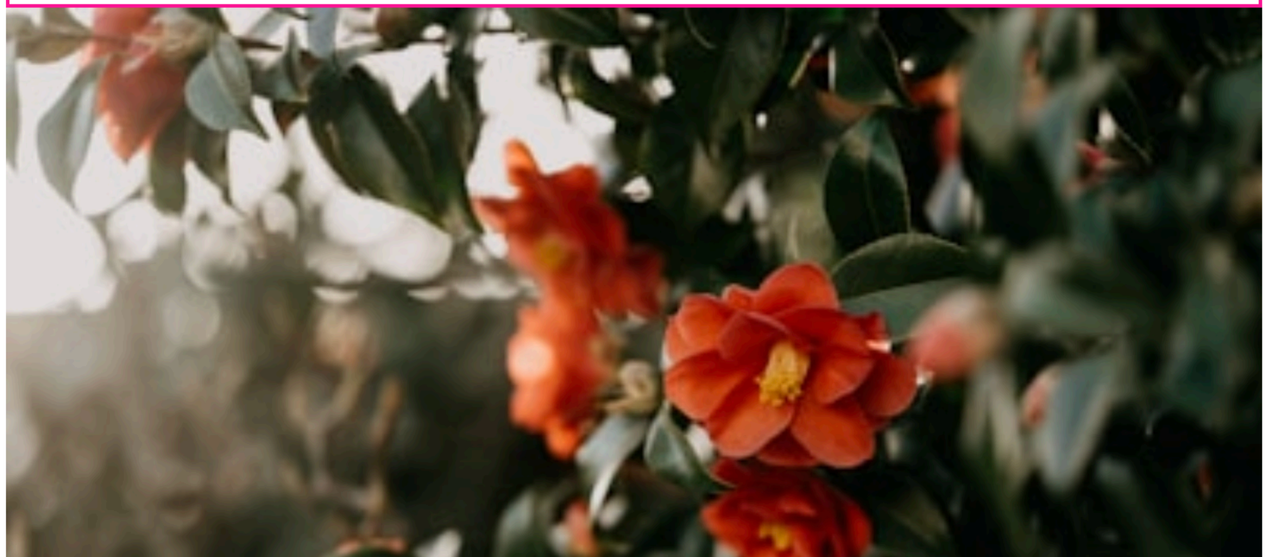
min-content
max-content
fit-content

```
div {
 width: 300px;
}
```

```
div {
 width: min-content;
}
```

```
div {
 width: min-content;
}
```

CSS is awesome



```
div {
 width: max-content;
}
```

```
div {
 width: fit-content;
}
```

```
div {
 width: fit-content;
}
```

Manifesto for a Humane Web

The web is becoming hostile to humans. Users are tracked and their privacy is routinely violated. Search results are populated with ads. We are constantly spammed by bots. Generative AI threatens to turn previously useful public forums into soulless marketing soup, while sacrificing the livelihoods of the creators that unwittingly power them [1]. Power-hungry

Back to top ↑

Subgrid

Standard ticket €650

- 2-day conference pass
- Unlimited access to all the videos after the event
- Attendee party
- Goody bag
- Discounts from your favourite brands

"

Possibly the best conference on the planet! I've already booked my ticket for next year!

A person

Premium ticket €850

*Limited number available

Everything in the Standard package, plus:

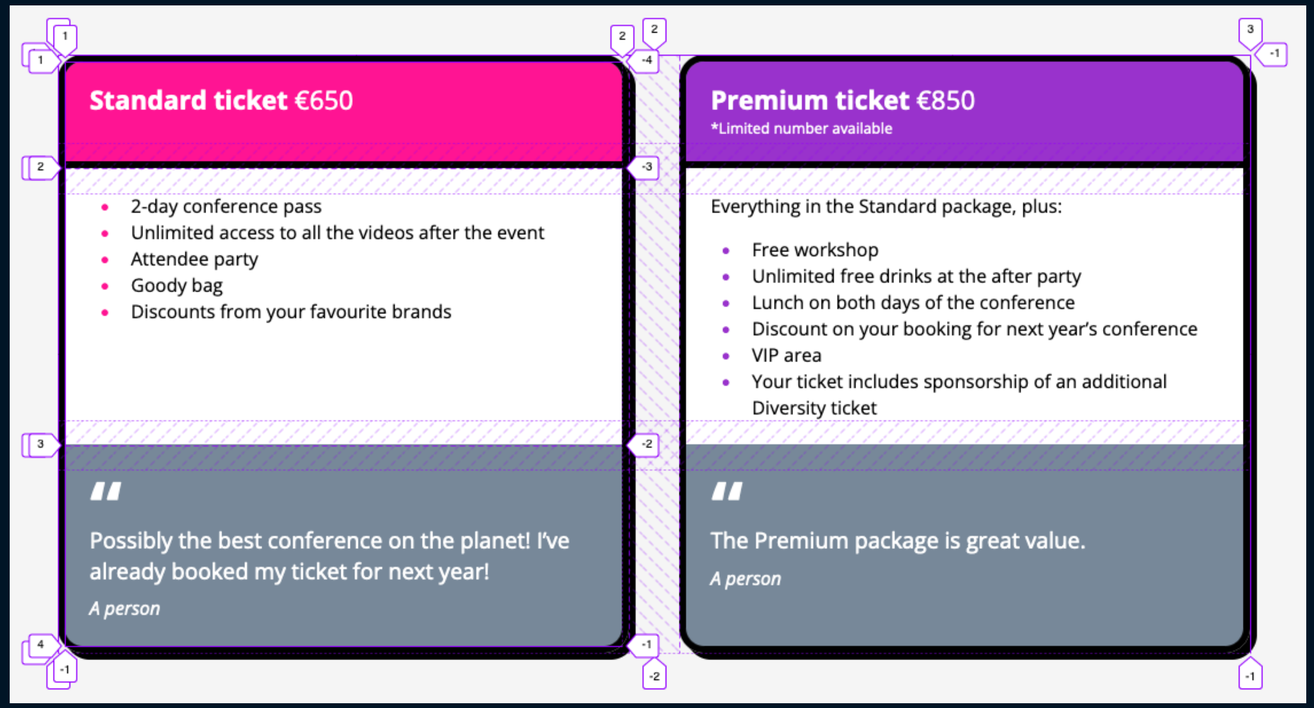
- Free workshop
- Unlimited free drinks at the after party
- Lunch on both days of the conference
- Discount on your booking for next year's conference
- VIP area
- Your ticket includes sponsorship of an additional Diversity ticket

"

The Premium package is great value.

A person

```css
.card {
  grid-row: span 3;
  display: grid;
  gap: 0;
  grid-template-rows: subgrid;
}
```



```css
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  grid-row: span 3;
  display: grid;
  gap: 0;
  grid-template-rows: subgrid;
}
```
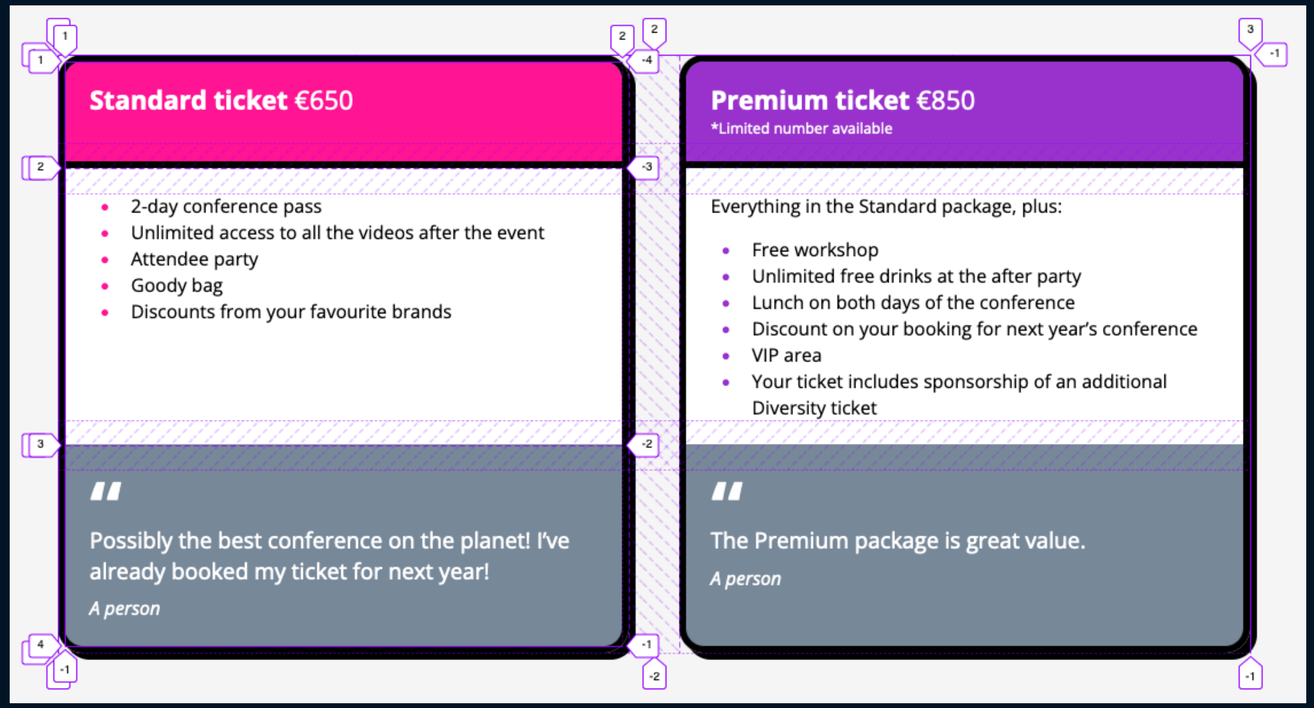



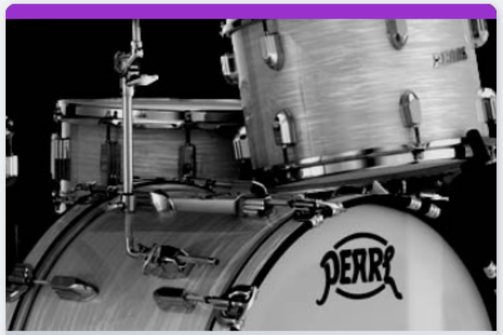
Responsive layouts

Masterworks

A custom-tailored heirloom instrument for the drummer who wants ultimate sonic and visual control.

President Series Phenolic

A true original from our 75 year history, the President Series Phenolic Diamond Jubilee Edition drum set's immaculate vintage style is a limited production modern-classic with retooled, modern elements.



President Series Deluxe

Culled from the very origins of The World's Largest Drum Company, Pearl President Series Deluxe drums revive the darkly unique tonality of Lauan Shells for a traditionally full, controlled playing experience.

Reference

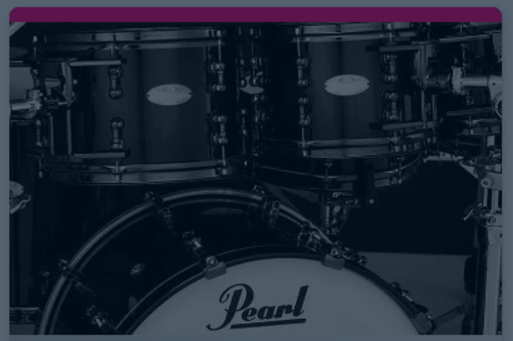
Individually engineered with premium Masterworks materials for articulate power and projection.

Reference Pure

Reference Recipe shell engineering in a lighter format for increased body and sustain.

Music City Custom

Precisely assembled in Nashville, TN for the true Pearl Artist experience. Choose four premium shell types.



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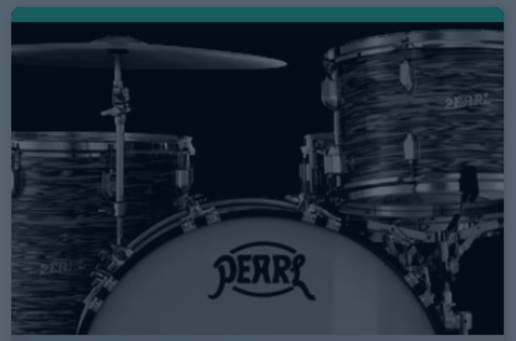

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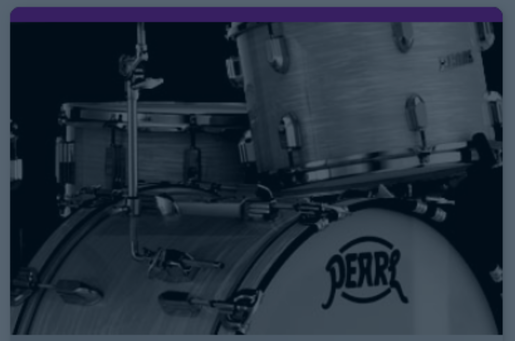

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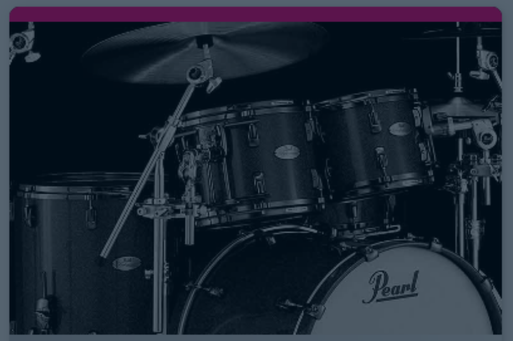

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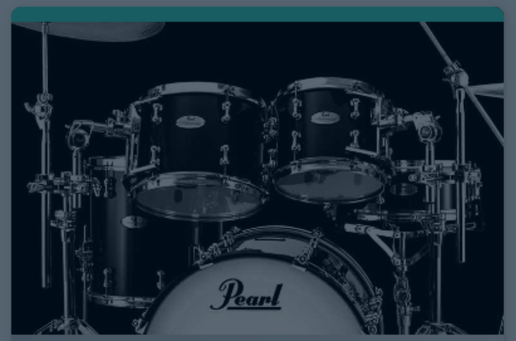

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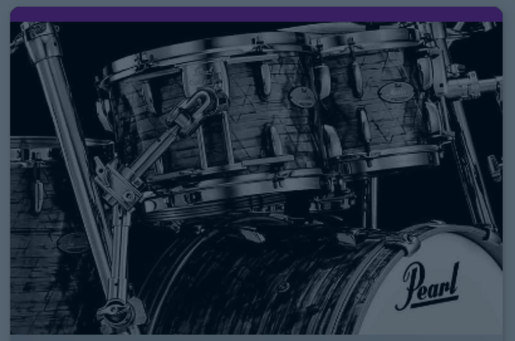
Reference Recipe shell engineering in a lighter format for increased body and sustain.



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```css
.card-grid {
  display: grid;
  gap: 1rem;
  grid-template-columns: repeat(auto-fill, minmax(18rem, 1fr));
}
```

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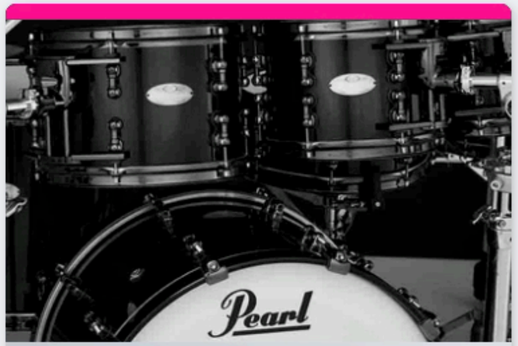
```css
.card-grid {
  display: grid;
  gap: 1rem;
  grid-template-columns: repeat(auto-fill, minmax(min(18rem, 100%), 1fr));
}
```



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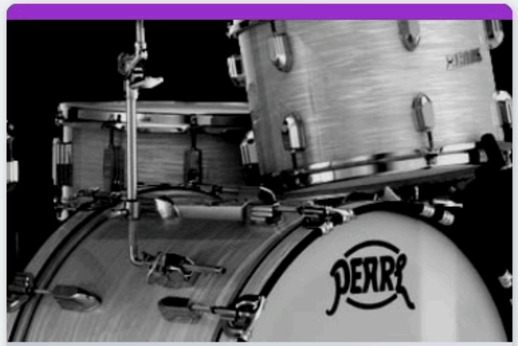

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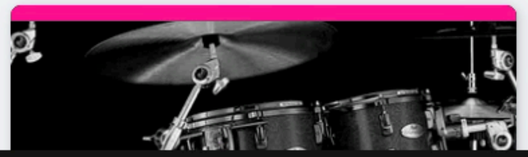

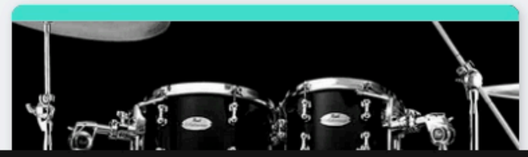

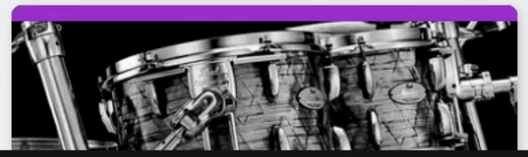

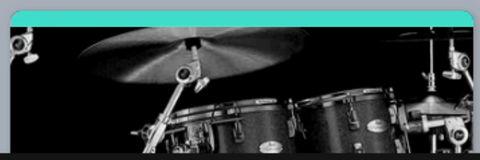

Container queries

```
main,
aside {
  container: layout / inline-size;
}
```

President Series Deluxe
Culled from the very origins of The World's Largest Drum Company, Pearl President Series Deluxe drums revive the darkly unique tonality of Lauan Shells for a traditionally full, controlled playing experience.

```
@container layout (inline-size > 700px) {
  .card-grid {
    grid-template-columns: repeat(2, 1fr);
  }
}
```

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```
@container layout (inline-size > 1200px) {
  .card-grid {
    grid-template-columns: repeat(3, 1fr);
  }
}
```

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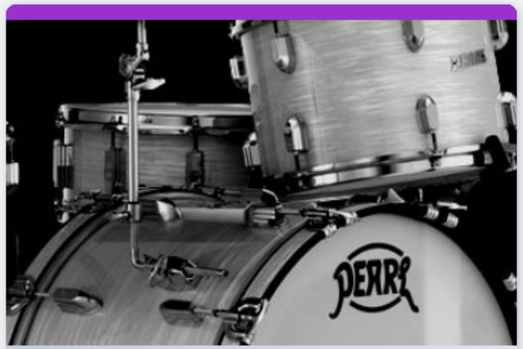

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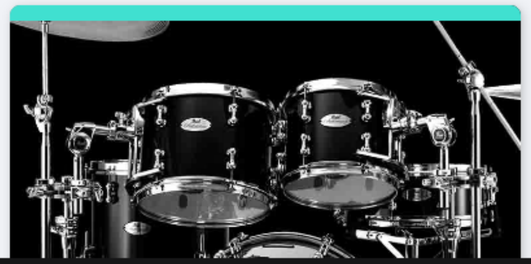

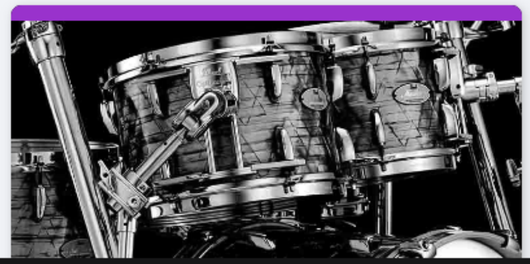

```
@container layout (inline-size > 1200px) {
  .card-grid {
    grid-template-columns: repeat(3, 1fr);
  }
}
```

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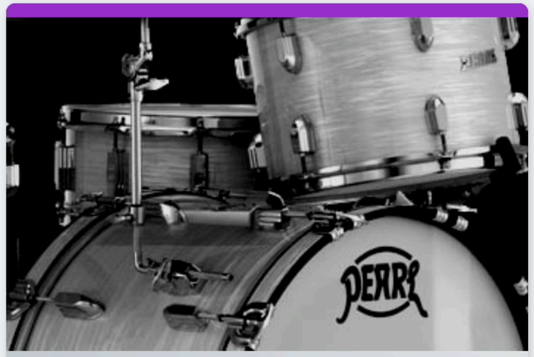

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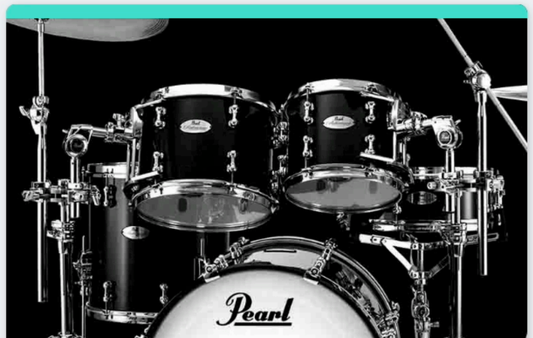
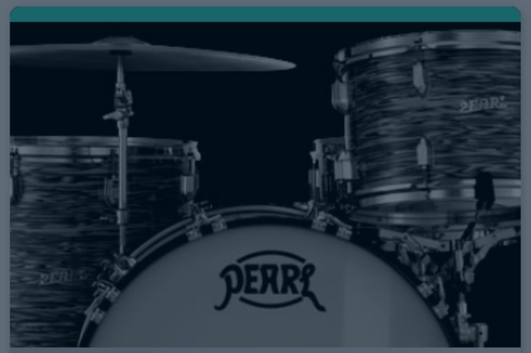


```
li {
  container: card / inline-size;
}
```

Masterworks

A custom-tailored heirloom instrument for the drummer who wants ultimate sonic and visual control.



President Series Phenolic

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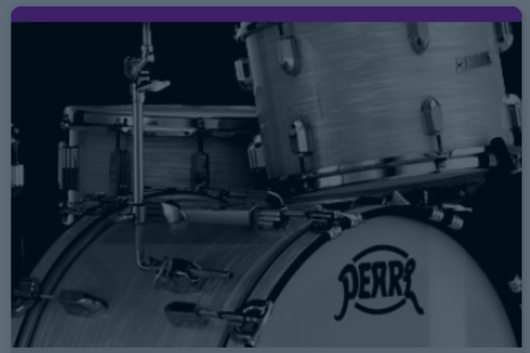
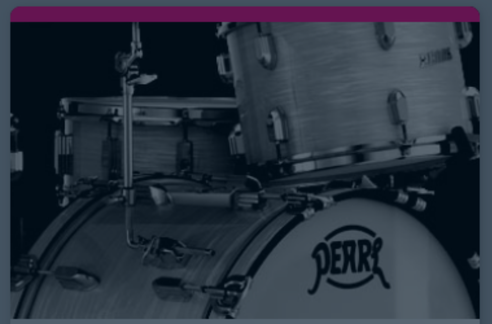


President Series Deluxe

Culled from the very origins of The World's Largest Drum Company, Pearl President Series Deluxe drums revive the darkly unique tonality of Lauan Shells for a traditionally full, controlled playing experience.



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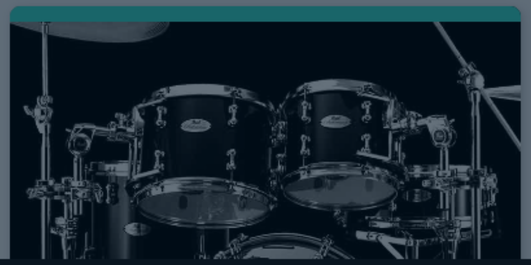

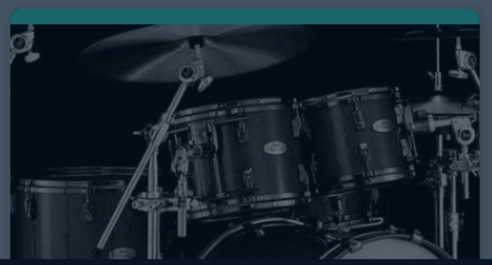

```
@container card (inline-size > 450px) {
  .card {
    display: grid;
    grid-template-columns: 1fr 1fr;
  }
}
```

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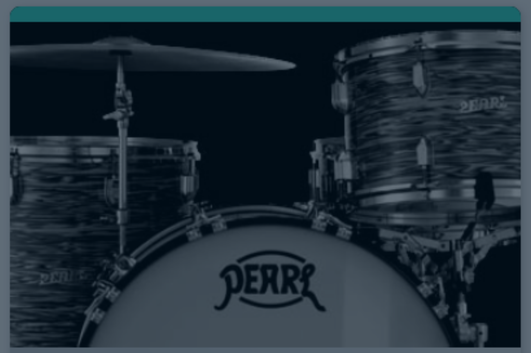

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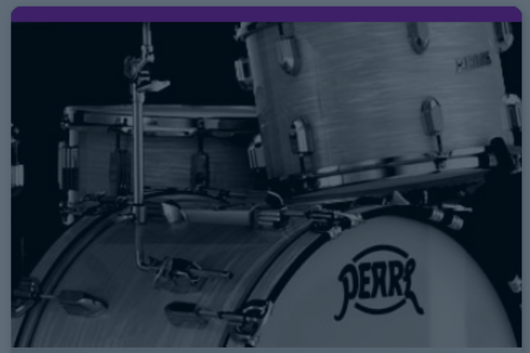

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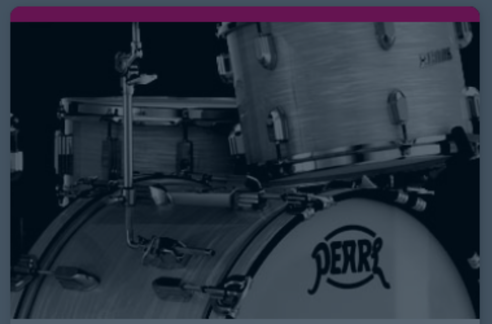

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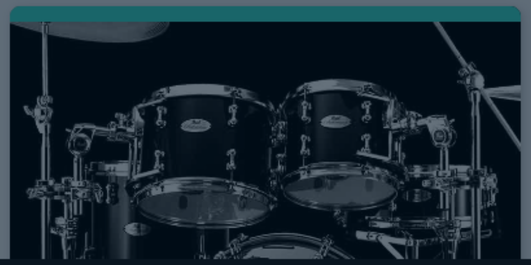

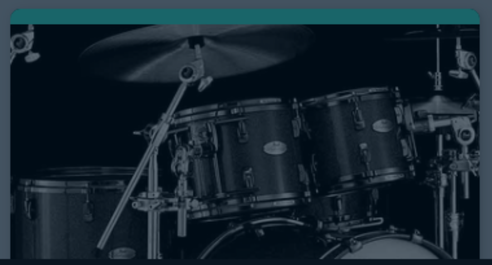

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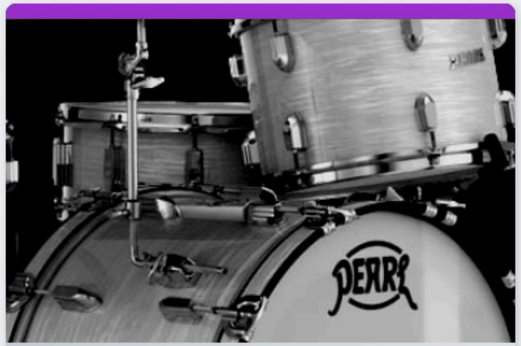

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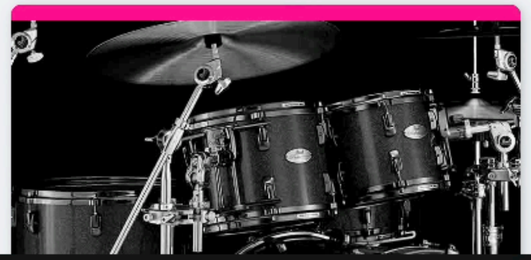

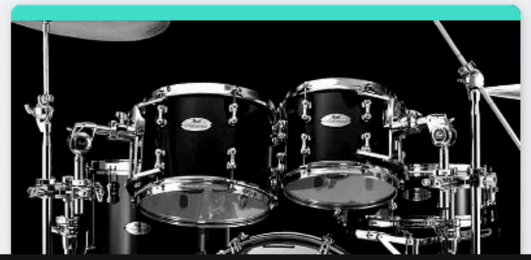

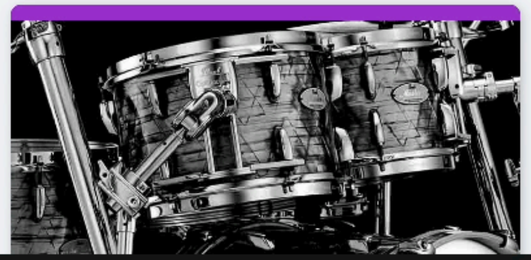

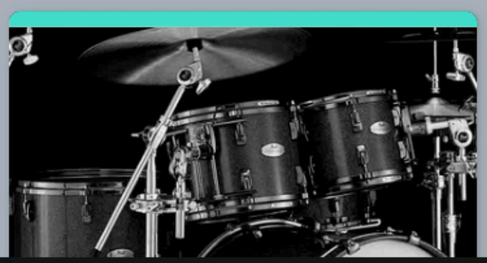

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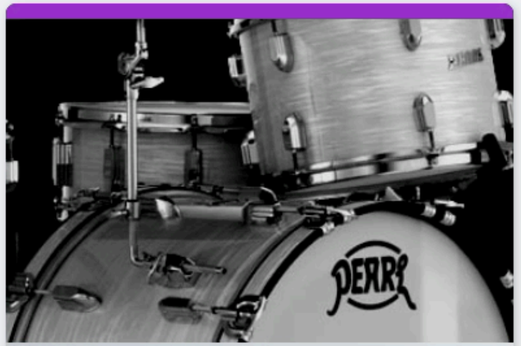

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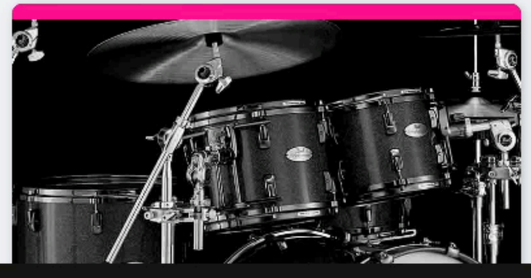

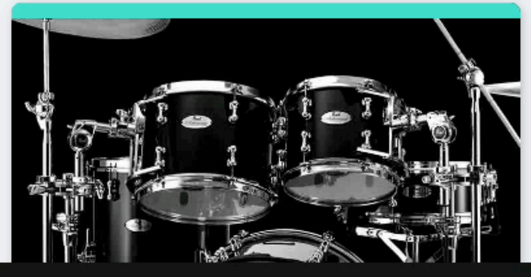

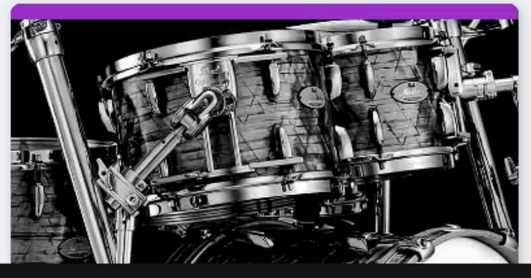

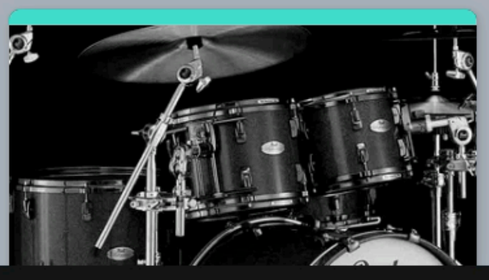

```
@container layout (inline-size > 1200px) {
  .card-grid:has(> :last-child:nth-child(3n - 2)) > :first-child {
    grid-column: span 3;
  }
}
```

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```
.card__content {
  padding: clamp(1rem, 5cqi, 3rem);
  font-size: clamp(1rem, 2.5cqi, 1.6rem);
}
```

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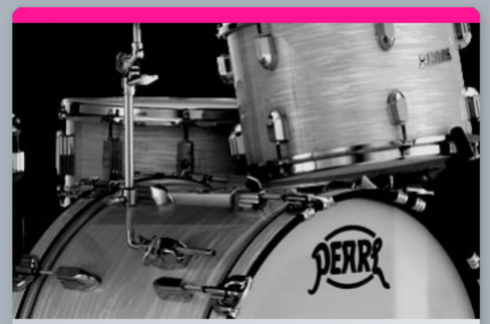

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Container-relative units

`cqw`	query container width
`cqh`	query container height
`cqi`	query container inline size
`cqb`	query container block size
`cqmin`	smallest of ‘cqi’ or ‘cqb’
`cqmax`	largest of ‘cqi’ or ‘cqb’

Browser support

container-query-polyfill

github.com/GoogleChromeLabs/container-query-polyfill

codepen.io/michellebarker/pen/yLxKPYW

About our drums

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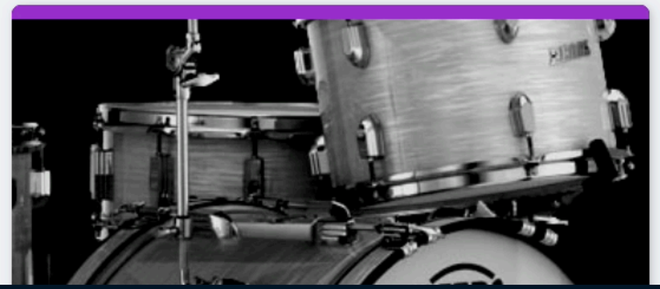


utopia.fyi

UTOPIA.
FLUID RESPONSIVE DESIGN

FLUID SPACE CALCULATOR

MIN VIEWPORT			MAX VIEWPORT		
Width	Font size	Type scale	Width	Font size	Type scale
320 px	21 px	1.2 Minor Third	1140 px	24 px	1.25 Major Third

INDIVIDUAL SPACE VALUES

Using the same base values from the *fluid type calculator*, this tool helps you to create a related fluid space system. You can add more *t-shirt sizes* below and edit their multipliers to customise the system to suit your project. Any spaces you add will also be listed below in *space value pairs* which you can use to introduce more dramatic space variance between different viewport sizes.

You can also use the individual space values to create your own *custom space pairs*, to further control the attitude of the spacing within your design.

Any changes you make on this page will be automatically included in the *CSS generator* below, ready to drop into your project.

	Multiplier	@min	@max	
3XS	0.25	5px	6px	

:has()

```css
.grid blockquote {
  grid-column: 2 / span 4;
  grid-row: 2 / span 2;
  text-align: center;
}
```

> **Climate activists are sometimes depicted as dangerous radicals. But the truly dangerous radicals are the countries that are increasing the production of fossil fuels.**
>
> **Antonio Guterres, UN Secretary General**

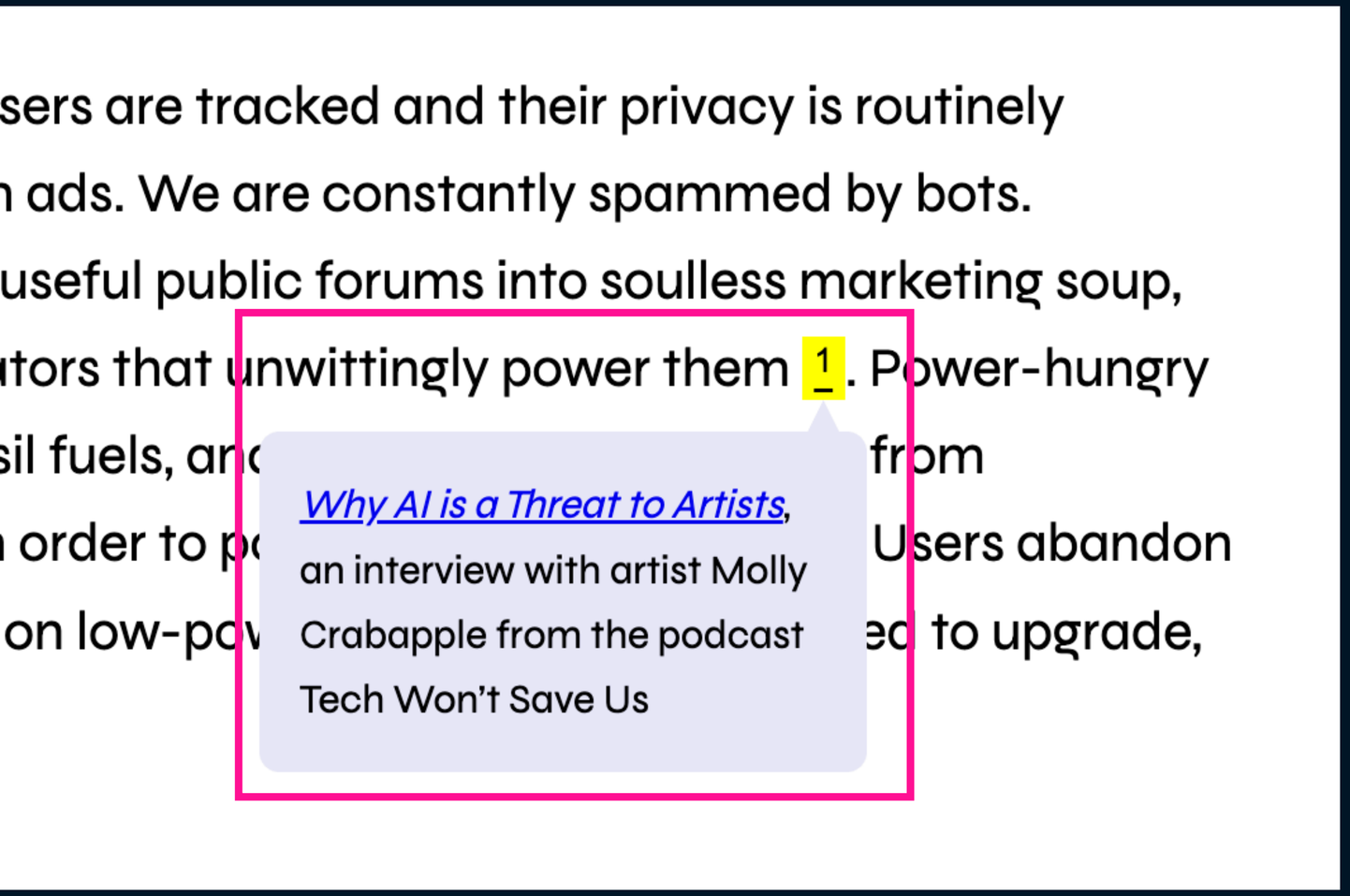
```css
.grid:has(img) img {
  grid-row: 1 / span 2;
  grid-column: 1 / span 3;
}

.grid:has(img) blockquote {
  grid-row: 2 / span 2;
  grid-column: 3 / span 4;
  text-align: left;
}
```

> **Climate activists are sometimes depicted as dangerous radicals. But the truly dangerous radicals are the countries that are increasing the production of fossil fuels.**
>
> Antonio Guterres, UN Secretary General

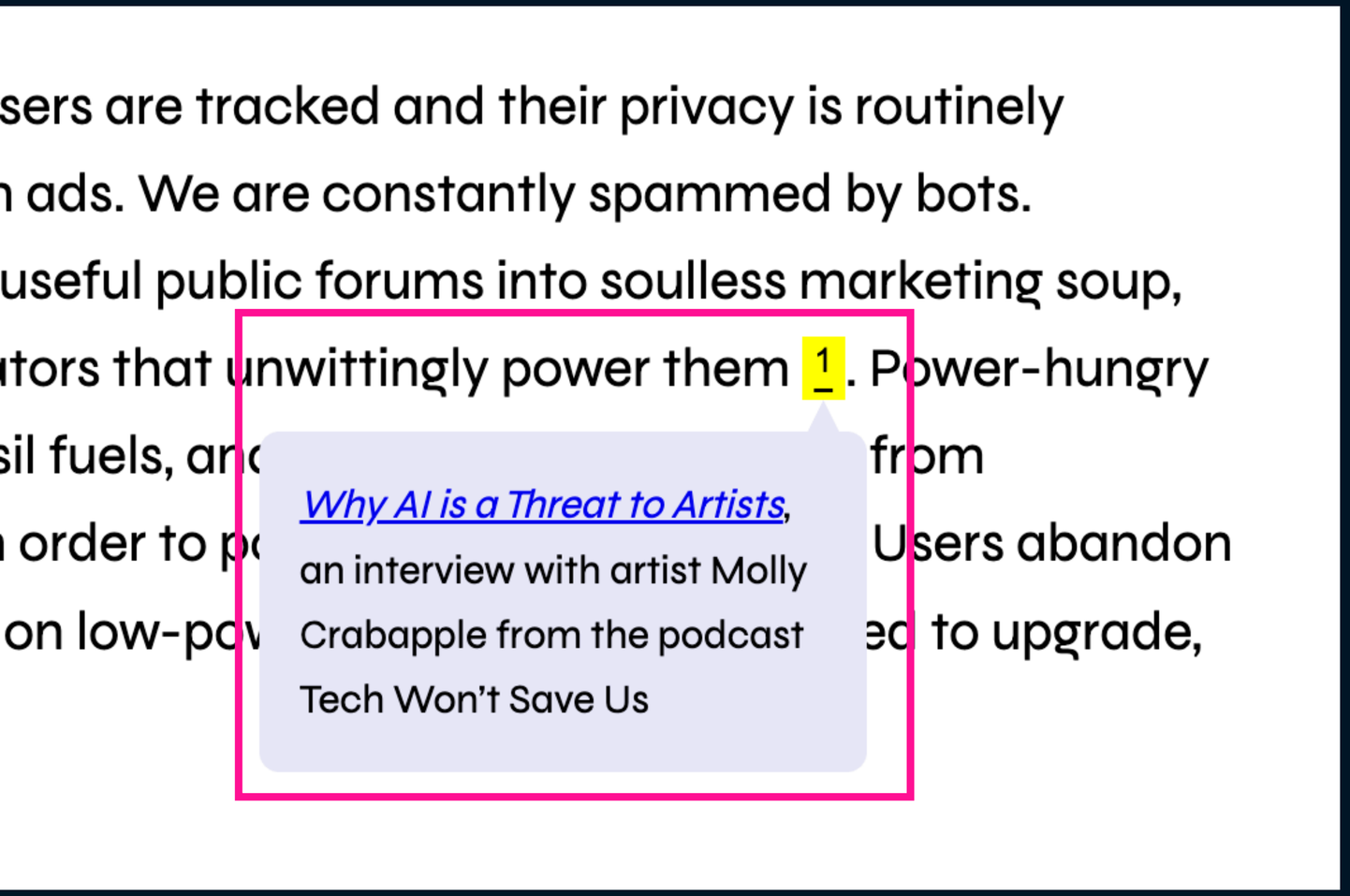
Anchor positioning

sers are tracked and their privacy is routinely
n ads. We are constantly spammed by bots.
useful public forums into soulless marketing soup,
ators that unwittingly power them [1]. Power-hungry
sil fuels, and from
n order to po Users abandon
on low-pov ed to upgrade,

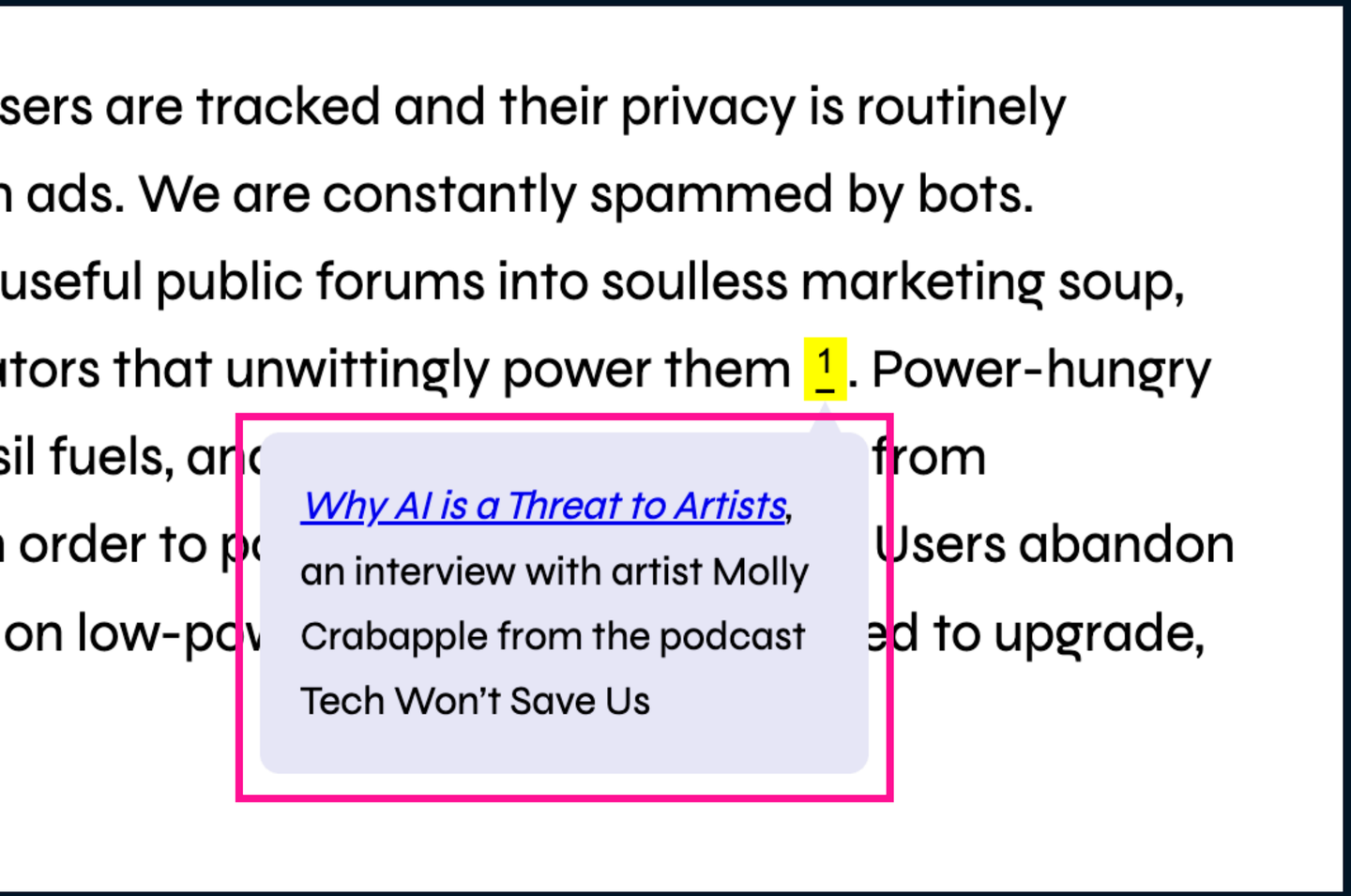
Why AI is a Threat to Artists, an interview with artist Molly Crabapple from the podcast Tech Won't Save Us



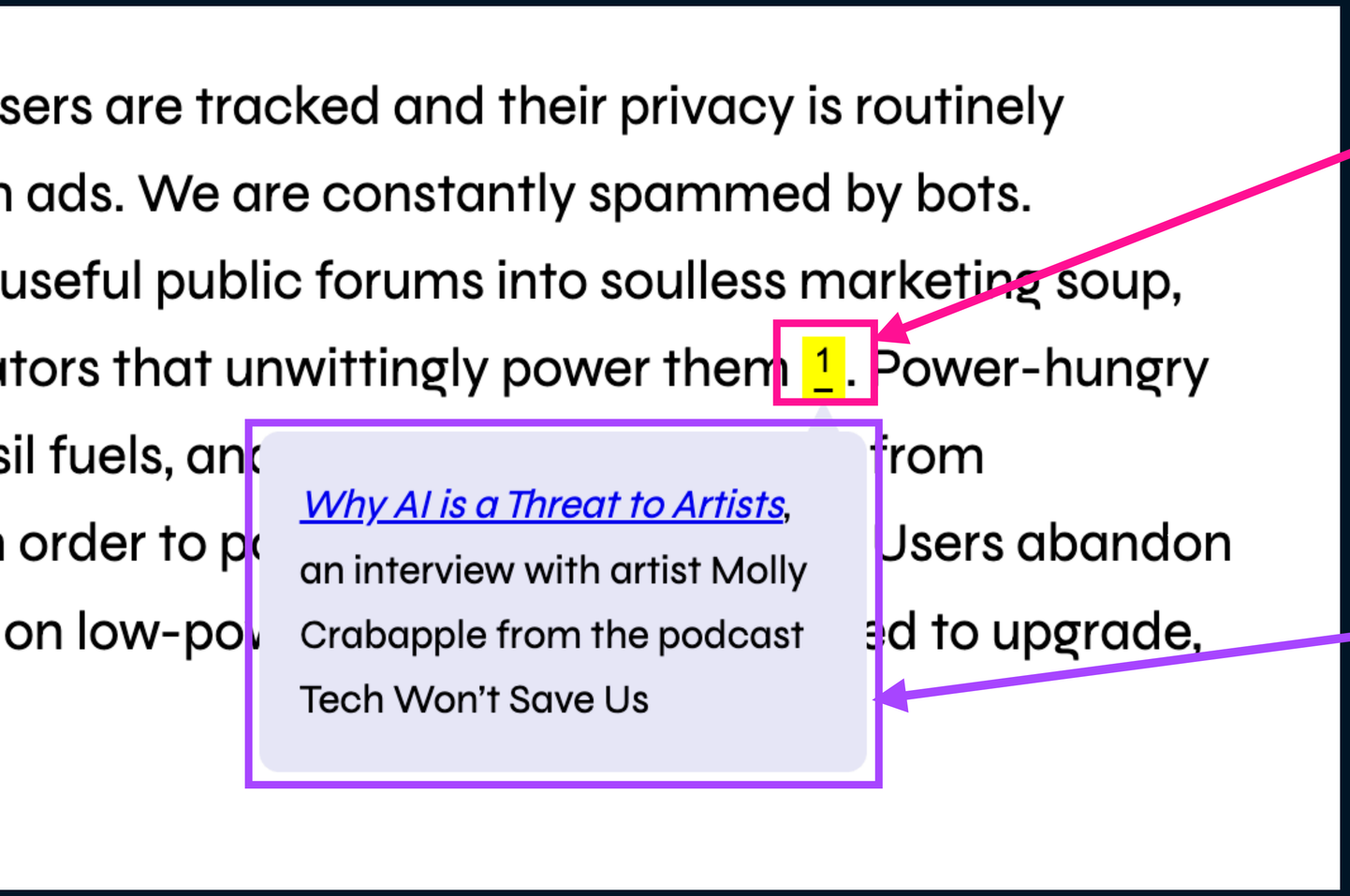

```
<div class="wrapper">
  <button> ... </button>
  <div class="tooltip">
    …
  </div>
</div>
```




```
<div class="wrapper">
  <button> ... </button>
  <div class="tooltip">
    …
  </div>
</div>

.wrapper {
  position: relative;
}
```




```
<div class="wrapper">
  <button> ... </button>
  <div class="tooltip">
    …
  </div>
</div>

.tooltip {
  position: absolute;
}
```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order to p Users abandon
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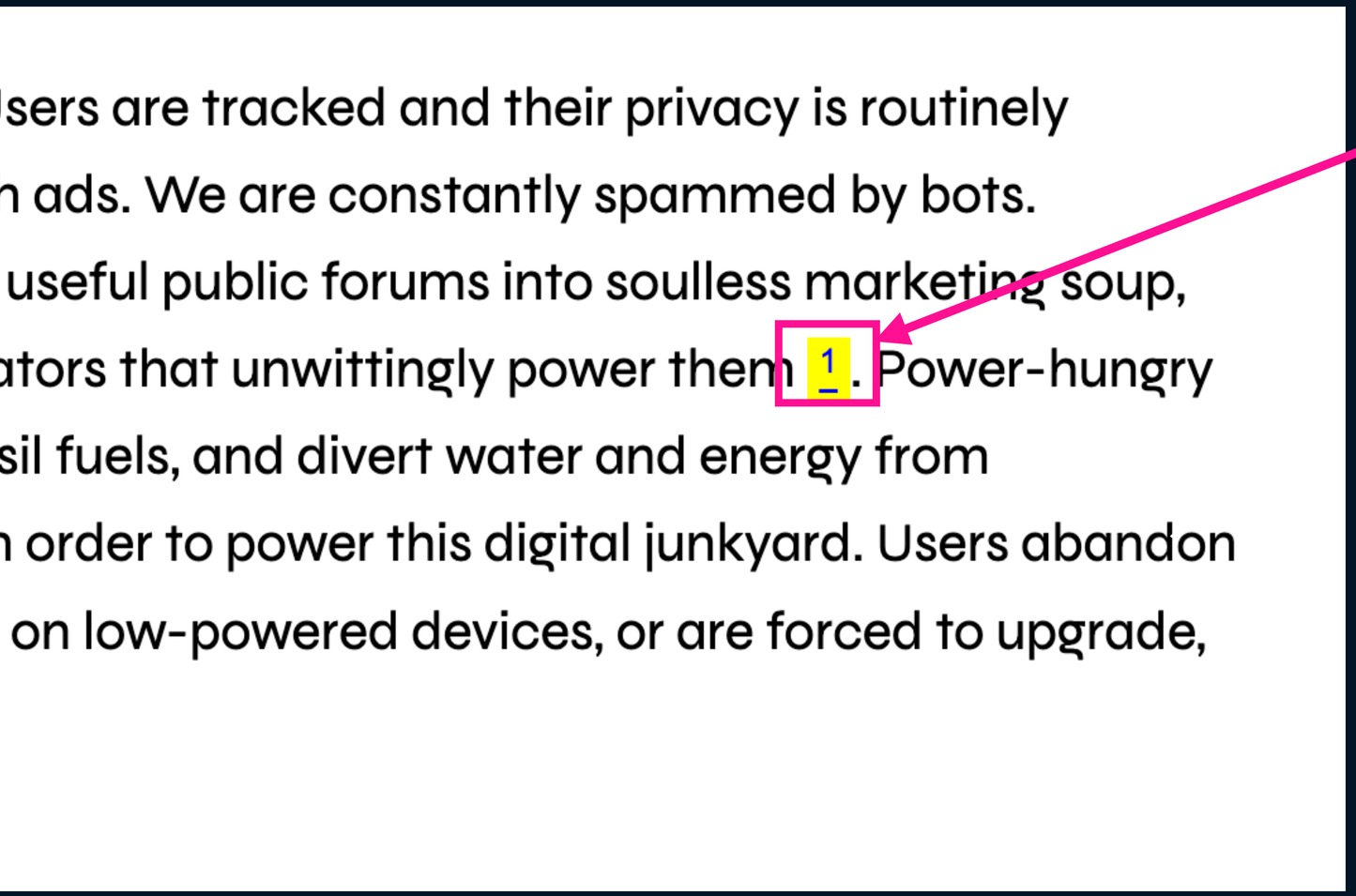
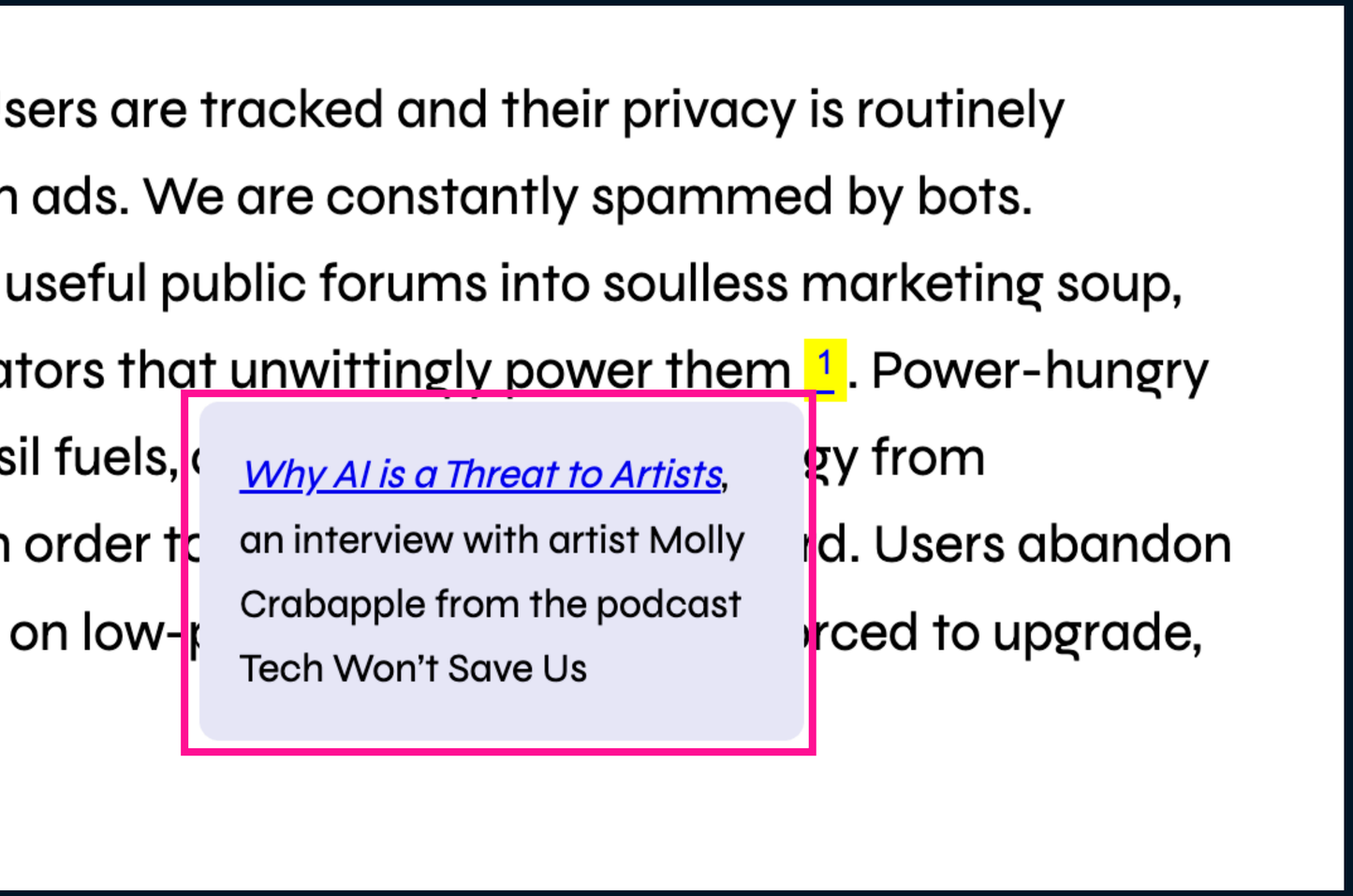
an interview with artist Molly
Crabapple from the podcast
Tech Won't Save Us
Anchor
Any other element



Anchor

```
button {
  anchor-name: --anchor_1;
}
```




```
button {
  anchor-name: --anchor_1;
}

.tooltip {
  position: absolute;
  position-anchor: --anchor_1;
}
```

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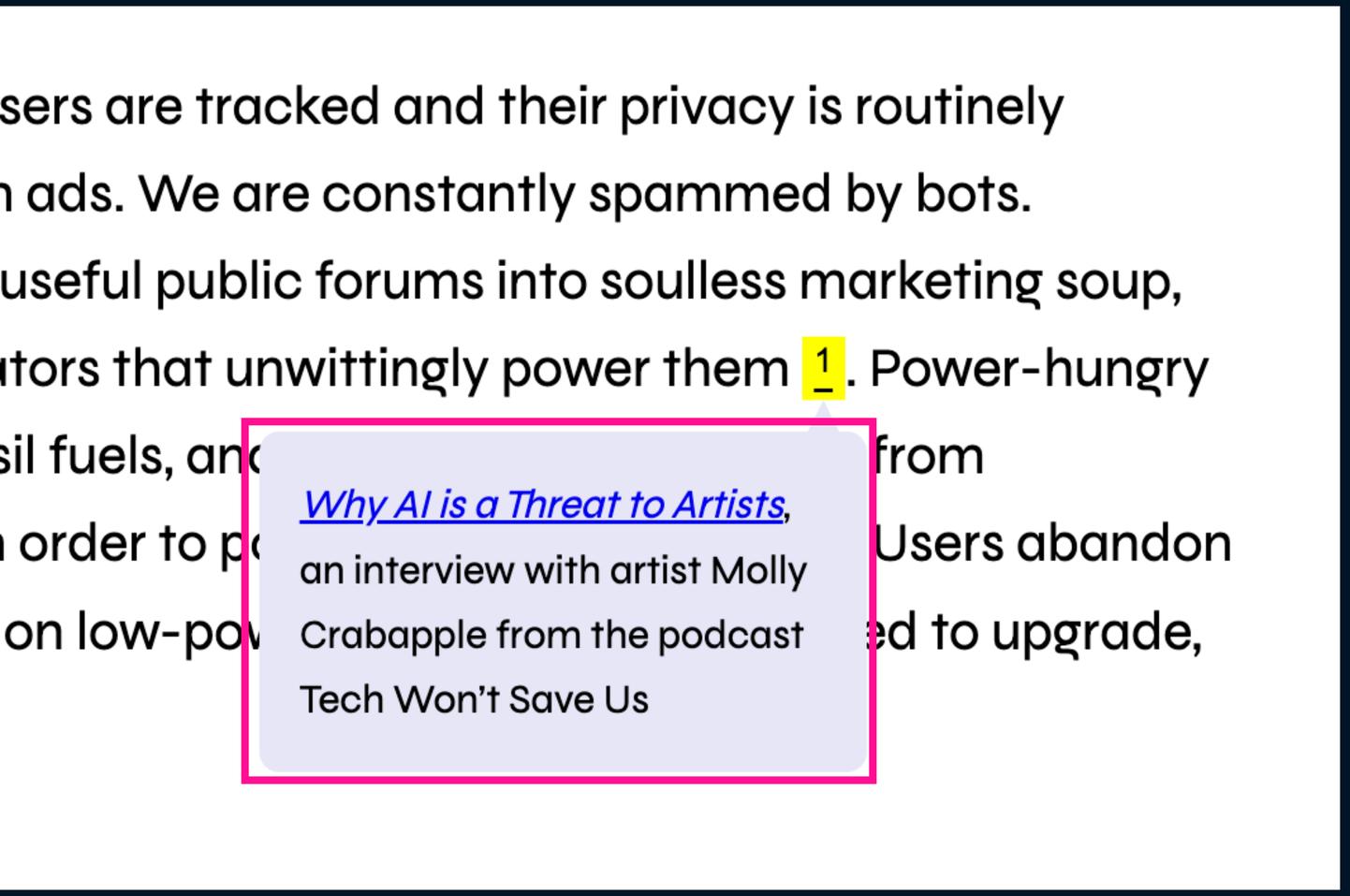
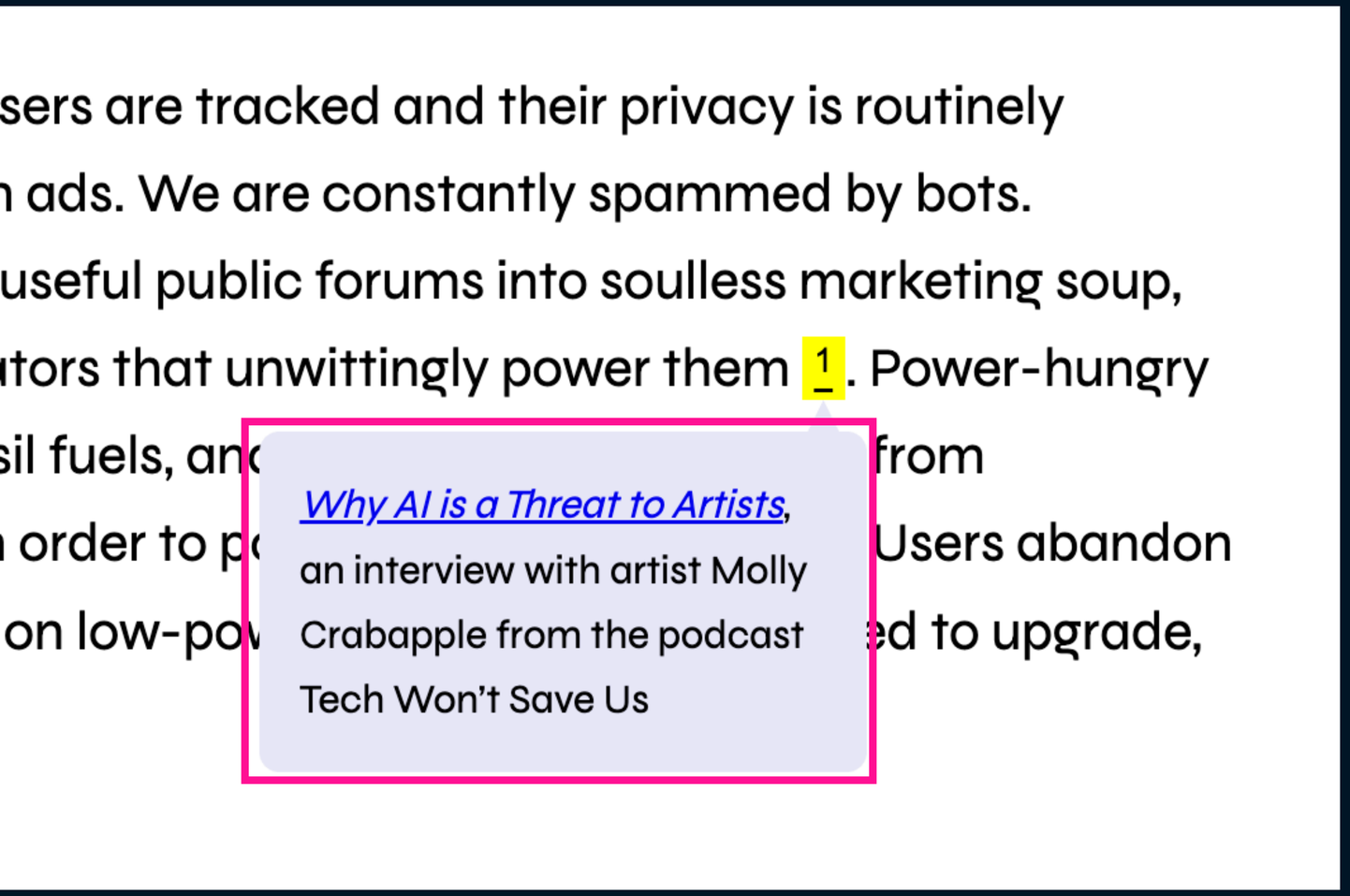
```
button {
  anchor-name: --anchor_1;
}

.tooltip {
  position: absolute;
  position-anchor: --anchor_1;
  inset-area: bottom left;
}
```




```
button {
  anchor-name: --anchor_1;
}

.tooltip {
  position: absolute;
  top: anchor(--anchor_1 bottom);
  right: anchor(--anchor_1 right);
}
```




```
button {
  anchor-name: --anchor_1;
}

.tooltip {
  position: absolute;
  top: anchor(--anchor_1 150%);
  right: anchor(--anchor_1 -150%);
}
```

The web is becoming hostile to humans. Users are tracked and their privacy is routinely violated. Search results are populated with ads. We are constantly spammed by bots. Generative AI threatens to turn previously useful public forums into soulless marketing soup, while sacrificing the livelihoods of the creators that unwittingly power them [1]. Power-hungry data centres [2] demand the burning of fossil fuels, and [illegible] from communities, emitting tonnes of carbon in order to po[illegible] Users abandon hostile websites that take too long to load on low-pow[illegible]d to upgrade, as the pile of electronic waste grows [3].

Why AI is a Threat to Artists, an interview with artist Molly Crabapple from the podcast Tech Won't Save Us

We need a web **by and for humans**.

---

1. *Why AI is a Threat to Artists*, an interview with artist Molly Crabapple from the podcast Tech Won't Save Us
2. *Power grab: the hidden costs of Ireland's datacentre boom*, from The Guardian

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Power grab: the hidden costs of Ireland's datacentre boom, from The Guardian

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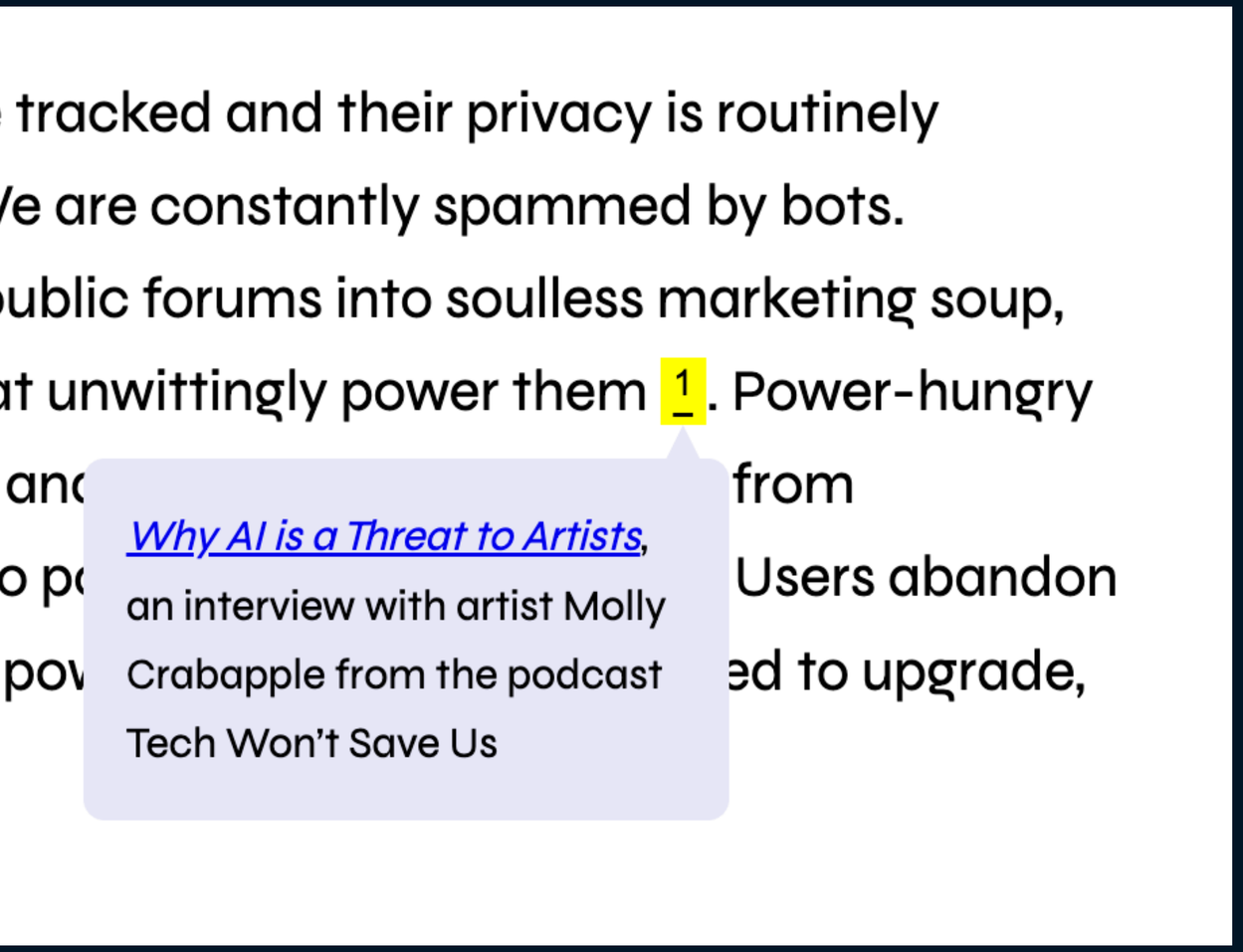
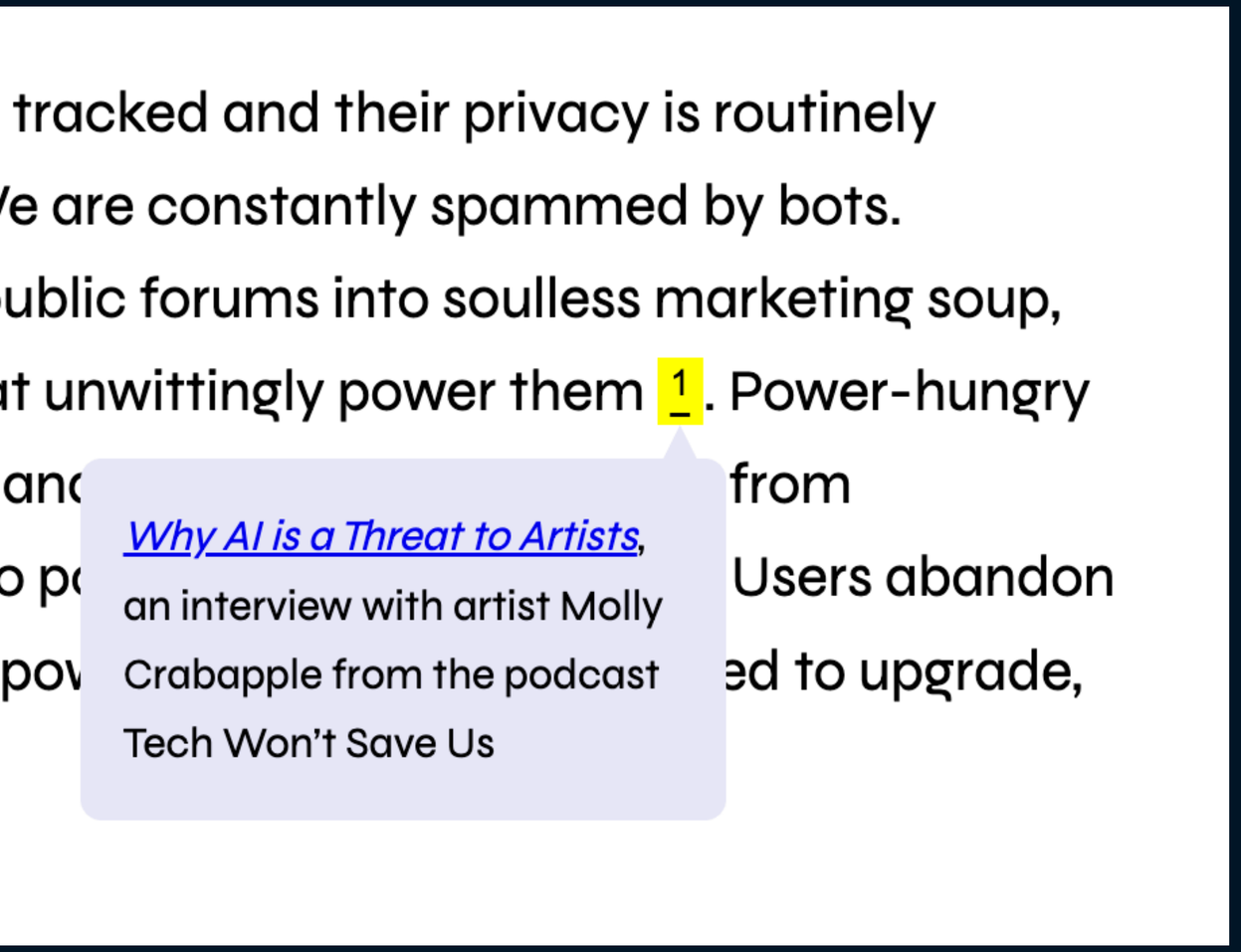


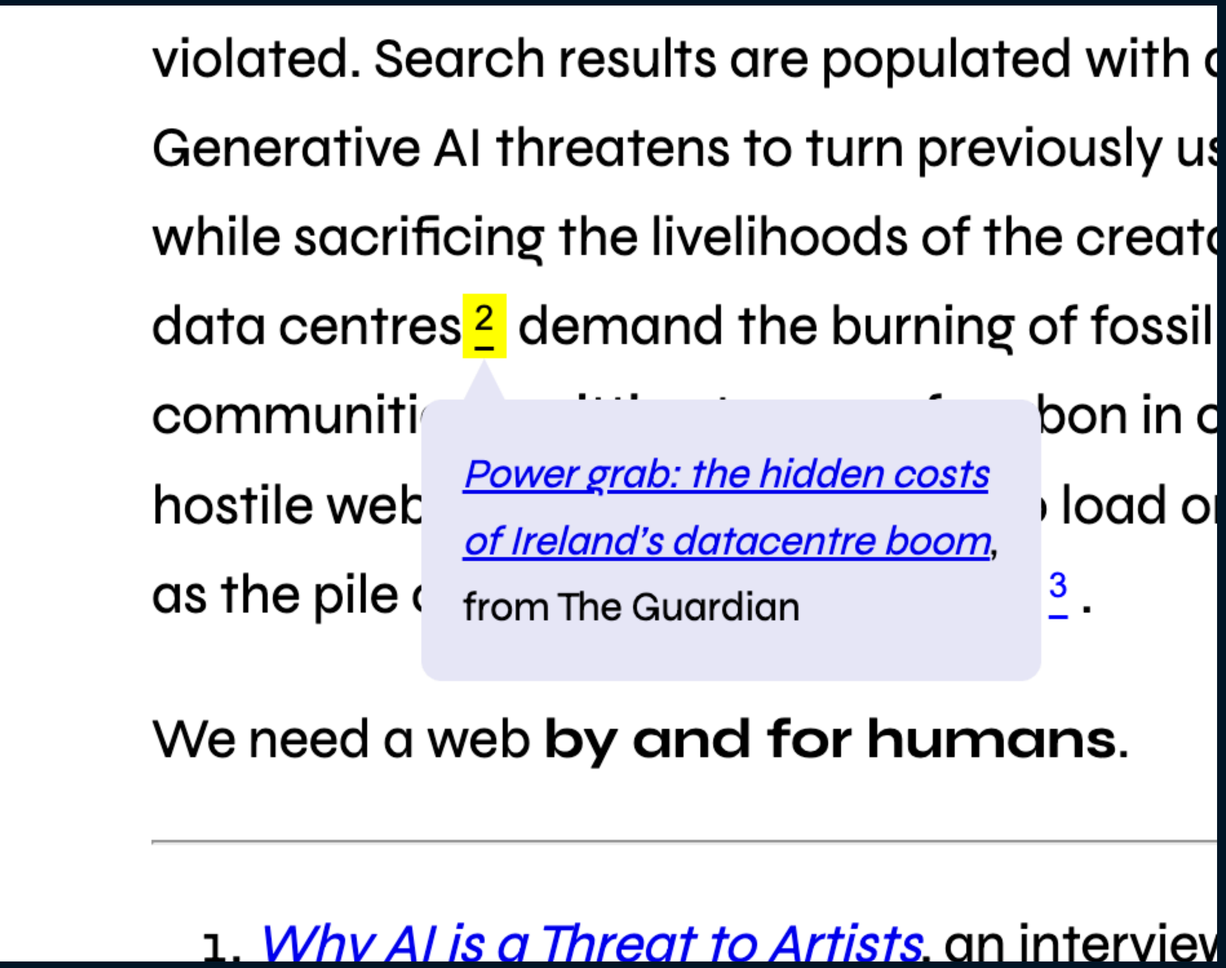

```
@position-try --pos-left {
  right: anchor(var(--anchor-name) right);
  left: auto;
}

@position-try --pos-right {
  left: anchor(var(--anchor-name) left);
}
```



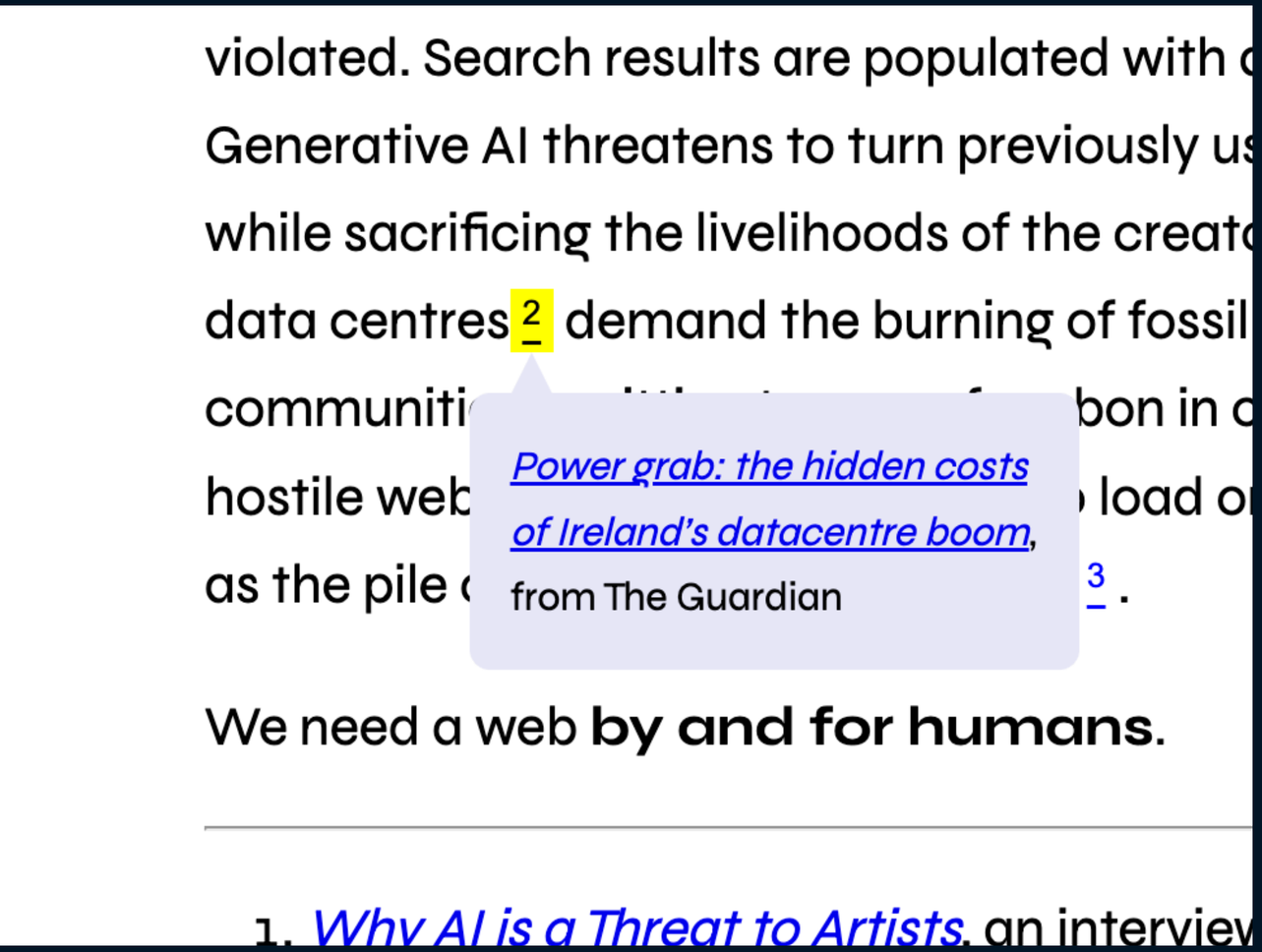

```
@position-try --pos-left {
  right: anchor(var(--anchor-name) right);
  left: auto;
}

@position-try --pos-right {
  left: anchor(var(--anchor-name) left);
}
```

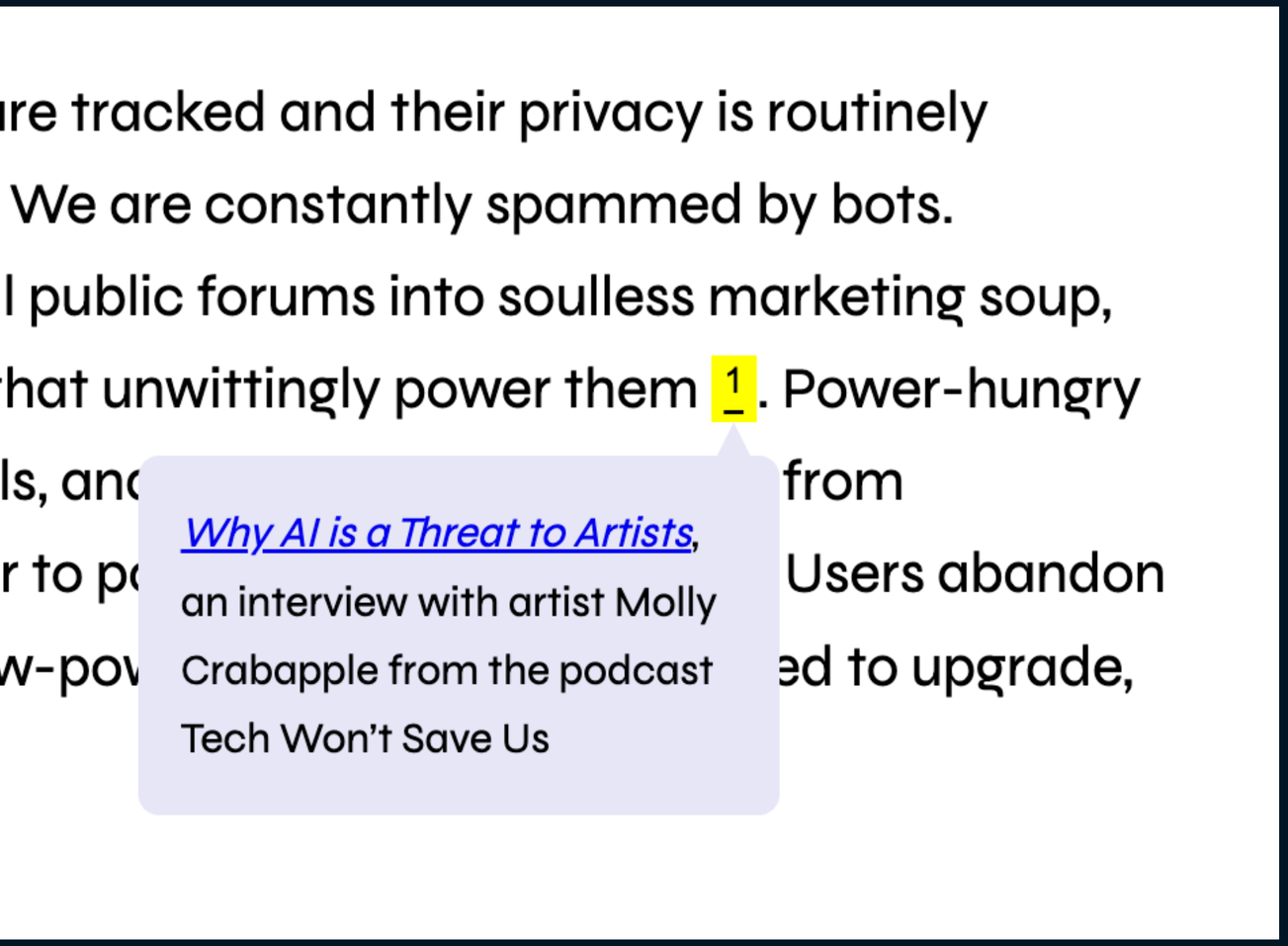



```
@position-try --pos-left {
  right: anchor(var(--anchor-name) right);
  left: auto;
}

@position-try --pos-right {
  left: anchor(var(--anchor-name) left);
}
```




```
.tooltip {
  position-try-options:
    --pos-right, --pos-left;
  position-try-order: most-width;
}
```




```
.tooltip {
  position-try-options:
    --pos-right, --pos-left;
  position-try-order: most-width;
}
```

codepen.io/michellebarker/pen/jOomKRE

The web is becoming hostile to humans. Users are tracked and their privacy is routinely violated. Search results are populated with ads. We are constantly spammed by bots. Generative AI threatens to turn previously useful public forums into soulless marketing soup, while sacrificing the livelihoods of the creators that unwittingly power them [1]. Power-hungry data centres [2] demand the burning of fossil fuels, and divert water and energy from communities, emitting tonnes of carbon in order to power this digital junkyard. Users abandon hostile websites that take too long to load on low-powered devices, or are forced to upgrade, as the pile of electronic waste grows [3].

We need a web **by and for humans**.

---

1. *Why AI is a Threat to Artists*, an interview with artist Molly Crabapple from the podcast Tech Won't Save Us
2. *Power grab: the hidden costs of Ireland's datacentre boom*, from The Guardian
3. *World Wide Waste*, book by Gerry McGovern

youtube.com/watch?v=Xa02mZnI0zs

codepen.io/michellebarker/pen/pomWryN

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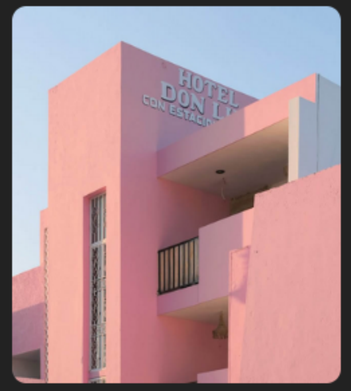
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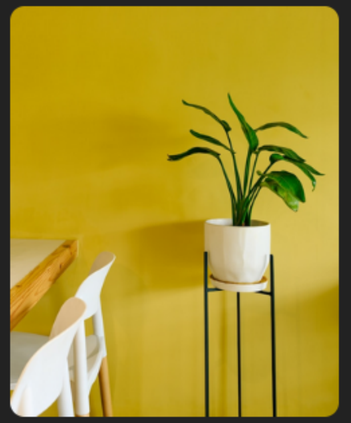
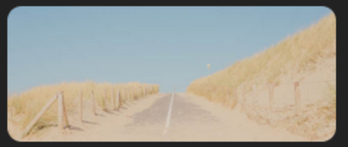
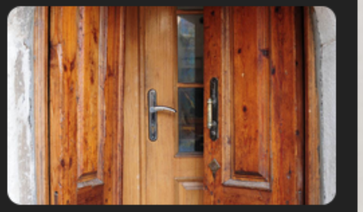
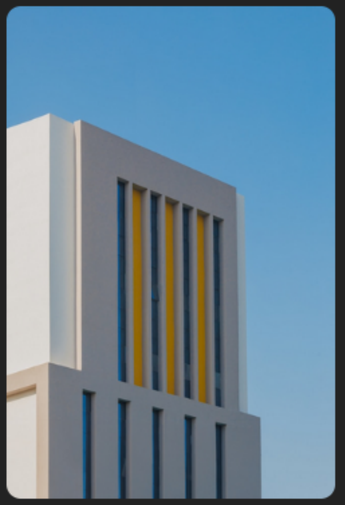

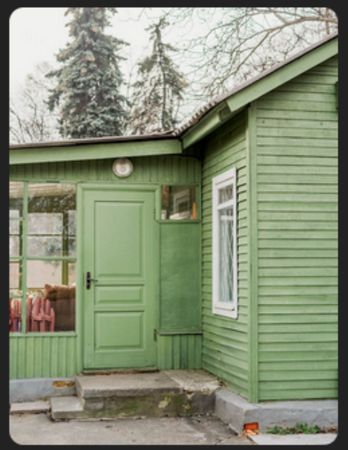
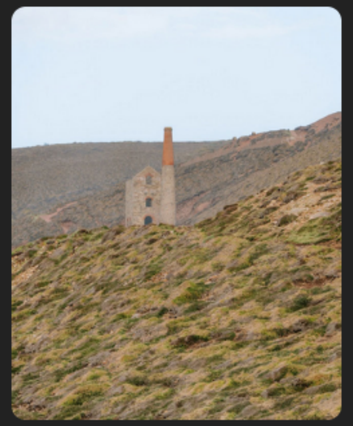
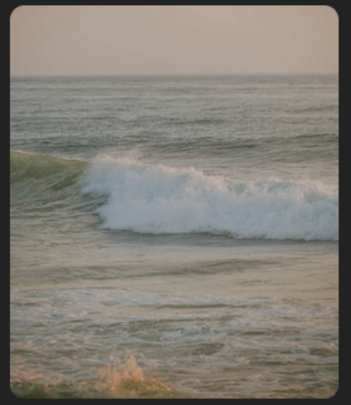
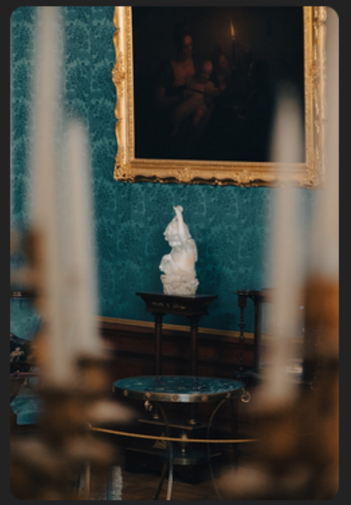

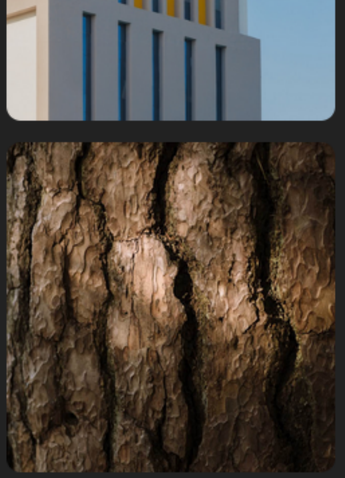

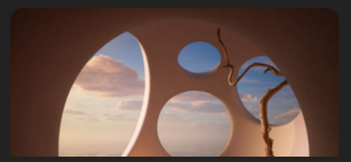
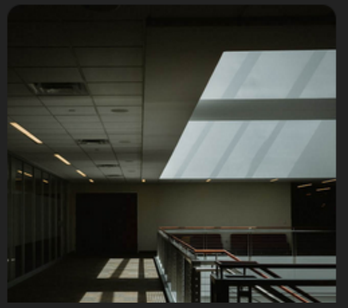
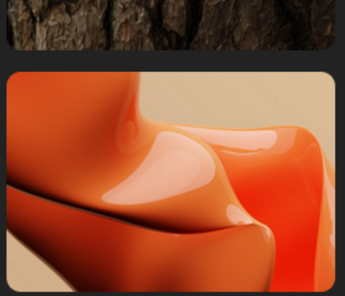

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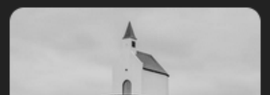

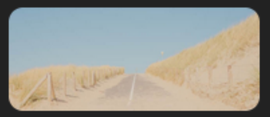
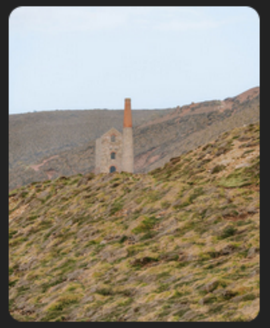

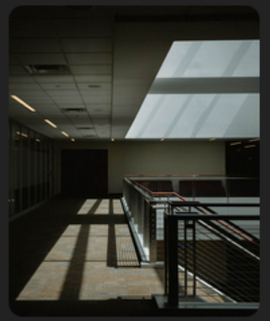
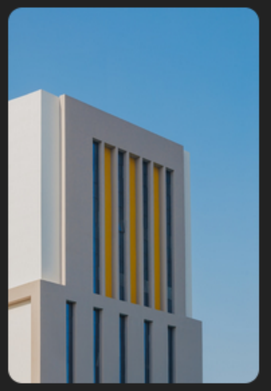
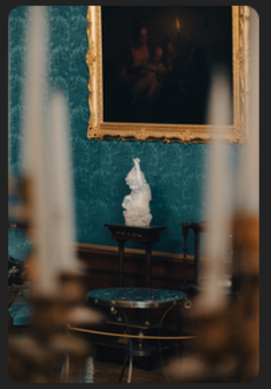

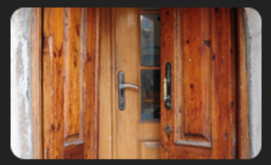
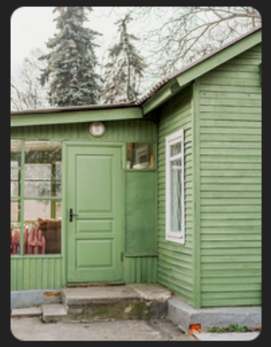

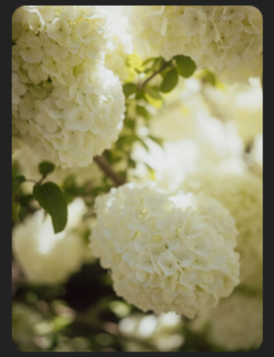
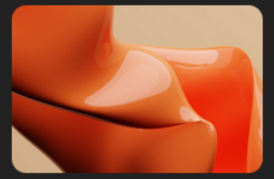
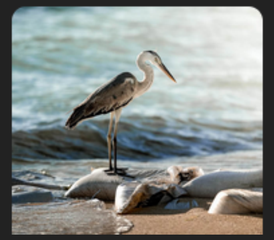

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Let’s start building creative layouts again.

Thank you

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