

Progressing Our Layouts

Jen Simmons
@jensimmons
thewebahead.net

The Official Timeline of the Evolution of Web Page Layout



The
No-layout
Layout

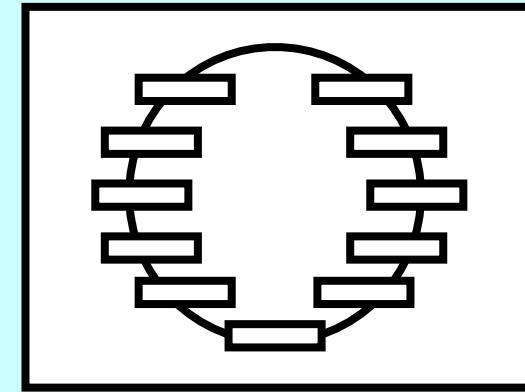
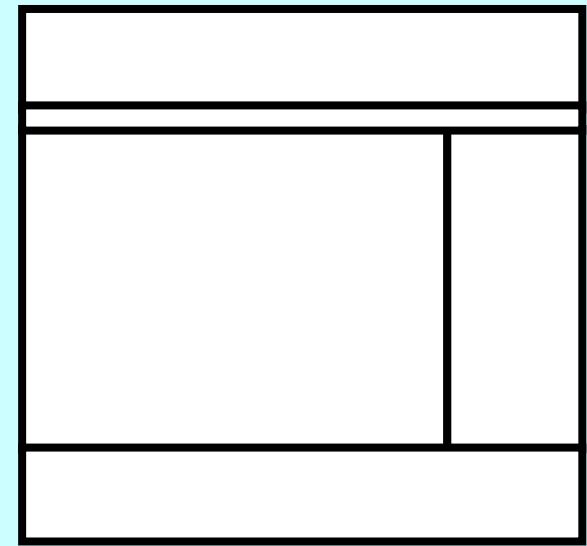


Table-based
Layouts



Float-based
Layouts



Amazing
future!





Jen Simmons

@jensimmons

Globally, 92% of browsers in use support border-radius. 96% support Flexbox. Still think it's too early to use Flexbox?

RETWEETS

306

LIKES

273



5:40 PM - 24 Feb 2016



...

@Cehter @jensimmons Yes because clients still demand IE9 or even IE8.

@jensimmons but in the end it just depends on how important that 4% is to your product.

@jensimmons @LeaVerou Depends on your client's willingness to drop that 8%, which could be too significant.

(*Tweets in response, with names removed to protect the, well, not the innocent, but to protect people from trolling.)

Works

**Doesn't
work**

Don't Use It

Use It

**Don't
Use It**

Use It

Works

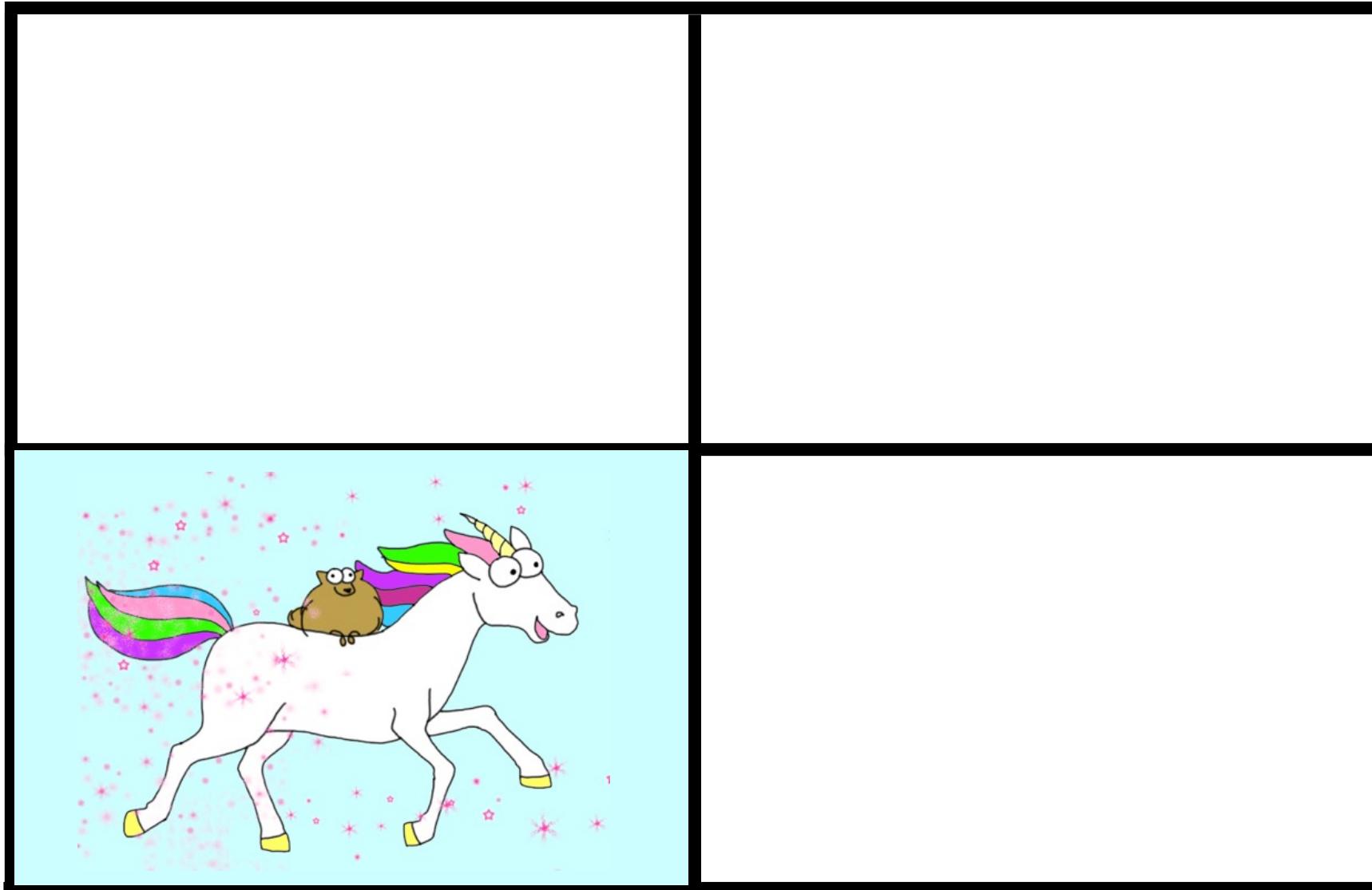
**Doesn't
work**

**Don't
Use It**

Use It

Works

**Doesn't
work**

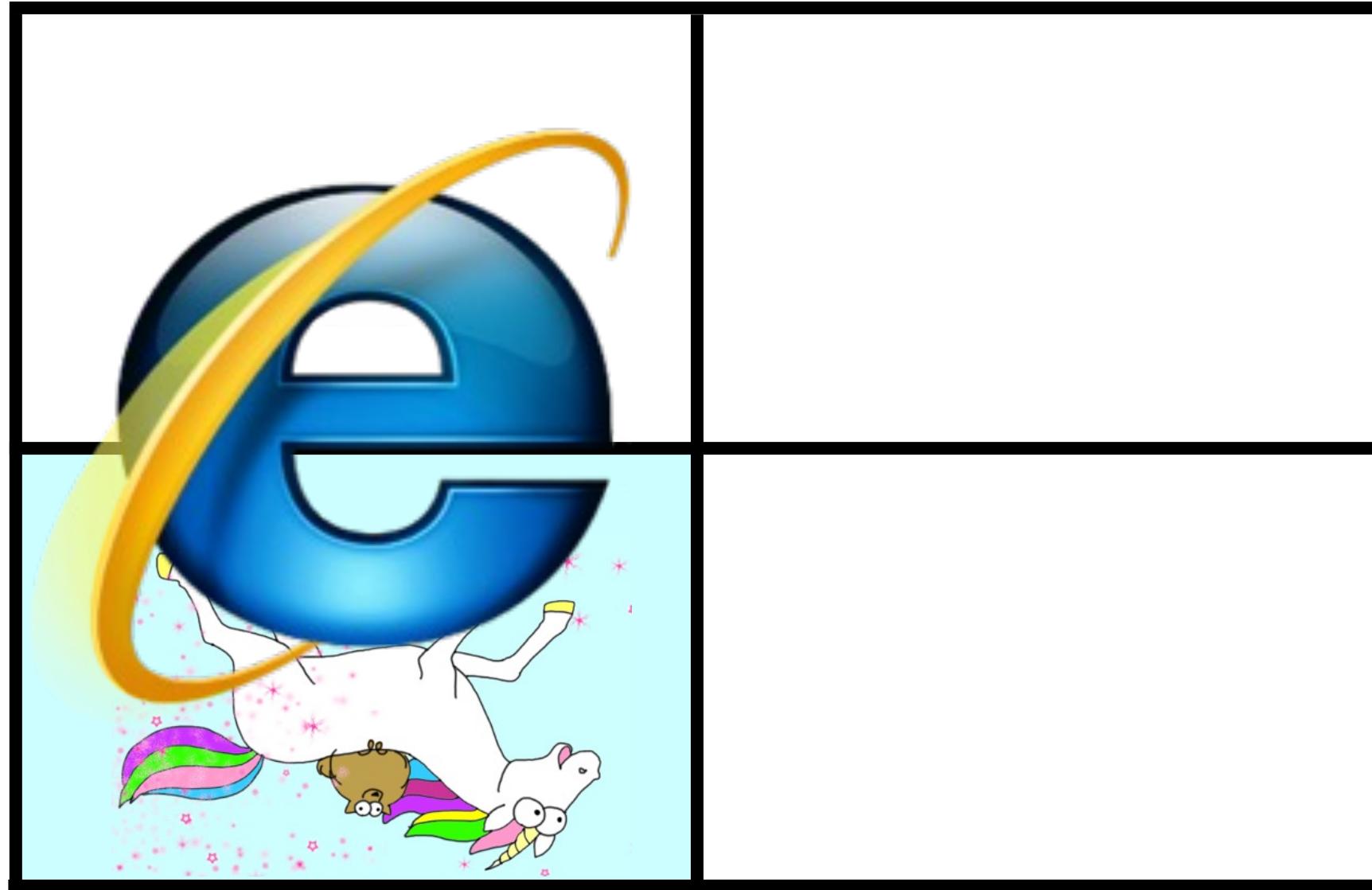


**Don't
Use It**

Use It

Works

**Doesn't
work**

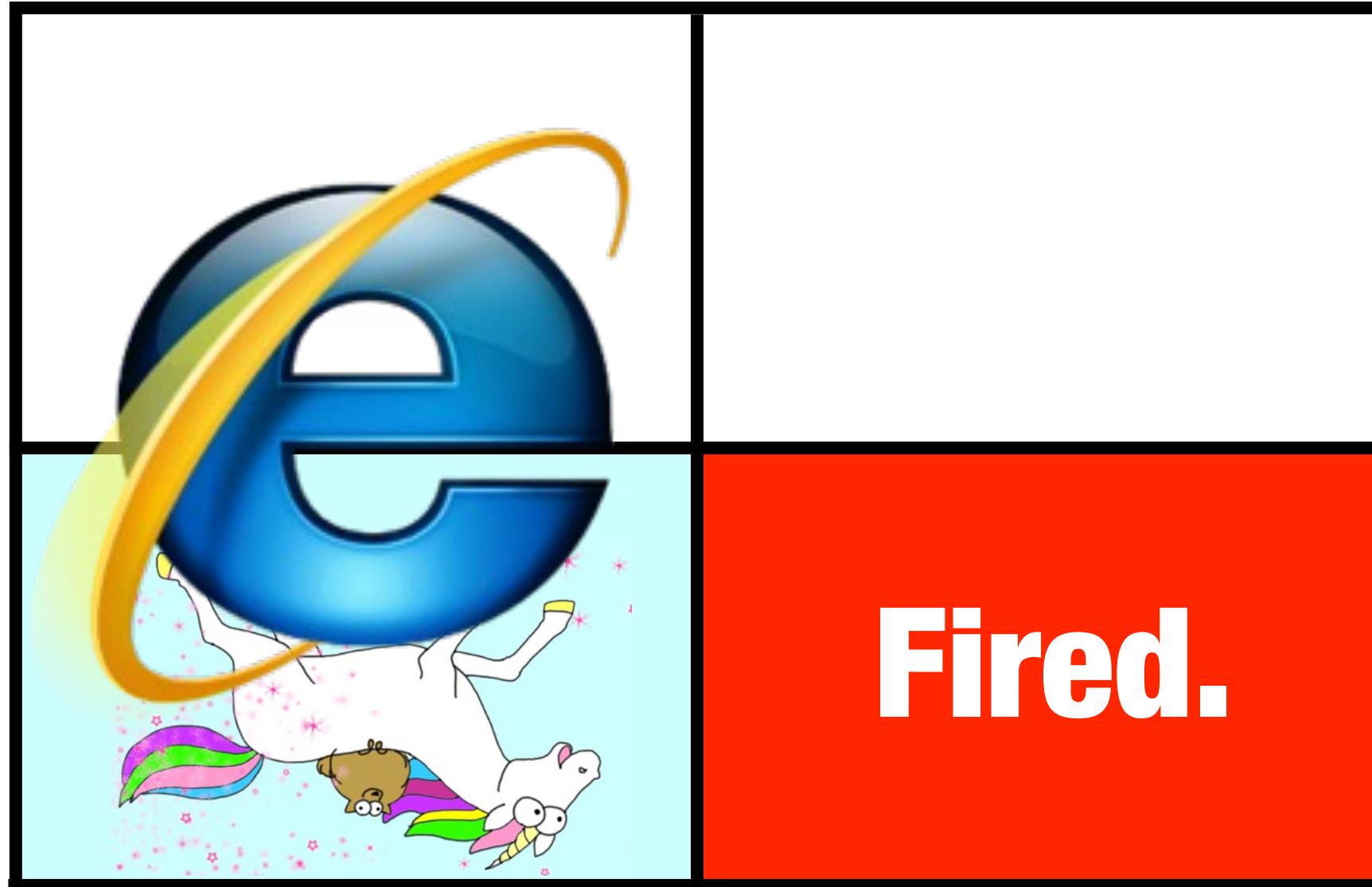


**Don't
Use It**

Use It

Works

**Doesn't
work**

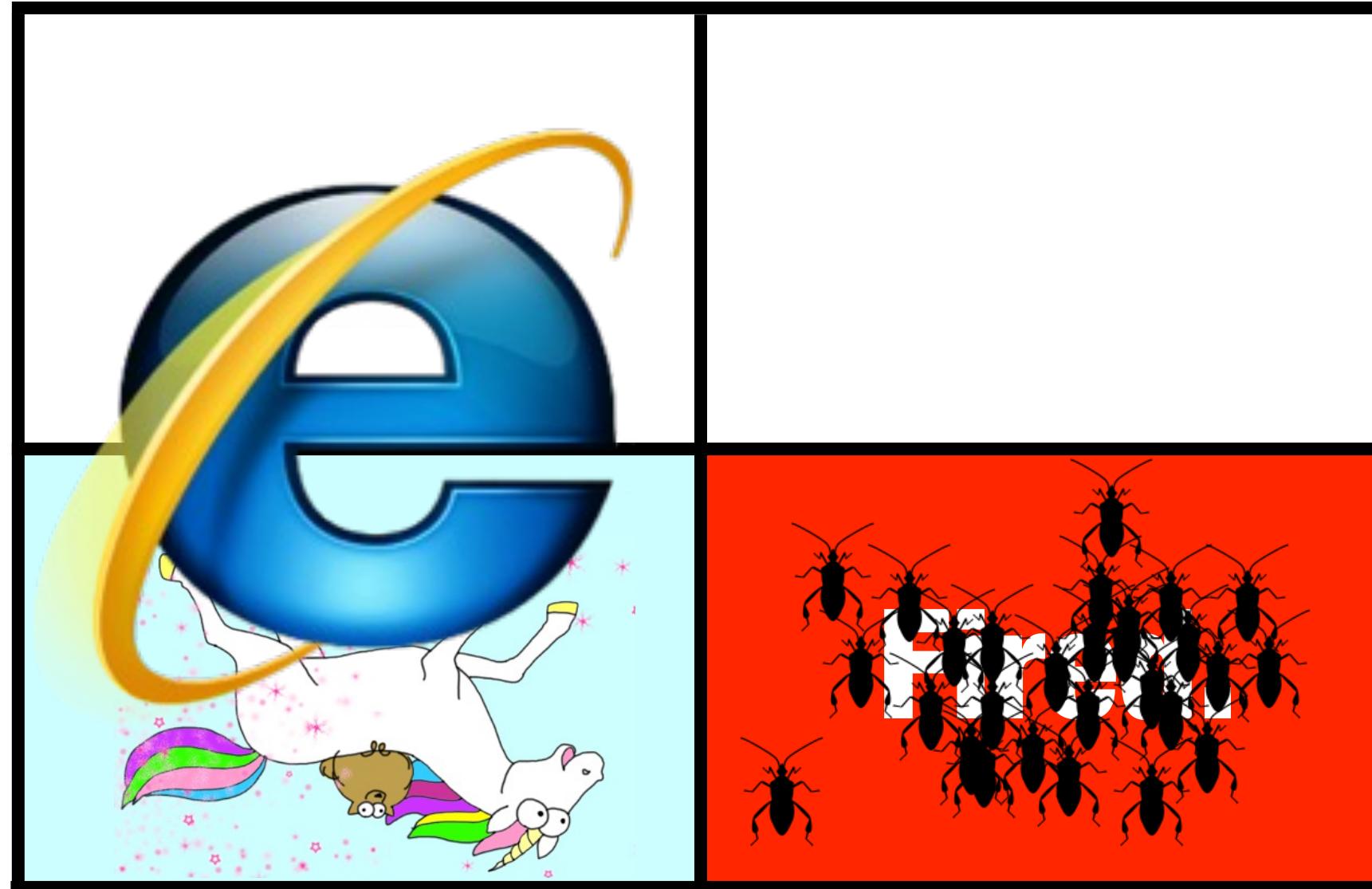


**Don't
Use It**

Use It

Works

**Doesn't
work**



**Don't
Use It**

Use It

Works

**Doesn't
work**



**Don't
Use It**

Use It

Works

**Doesn't
work**

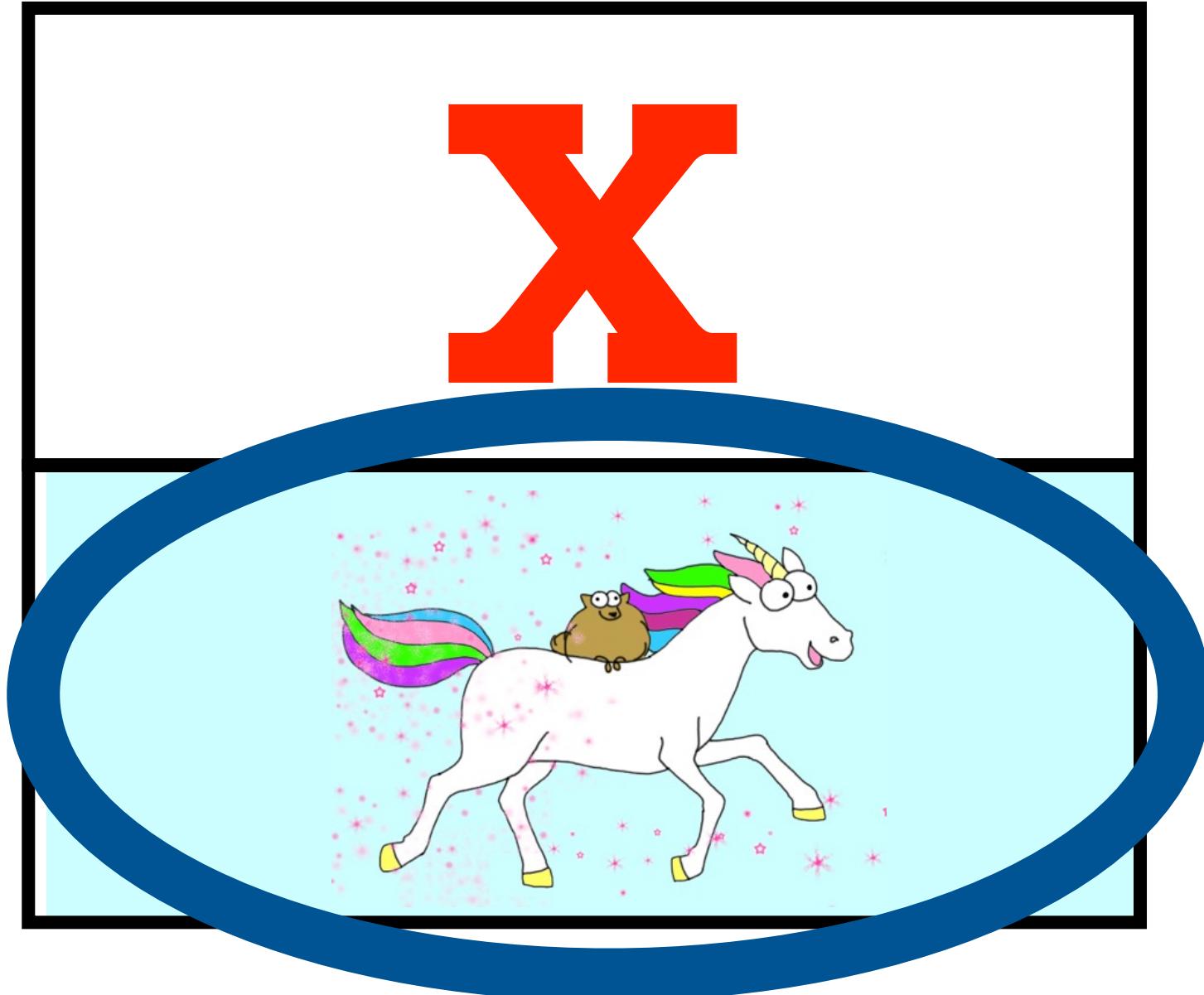
**Don't
Use It**

**Use It and
Don't Use It**

**Works and
Doesn't Work**

**Don't
Use It**

**Use It and
Don't Use It**



**Works and
Doesn't Work**



• GOLD •

@jongold



Follow

which one of the two possible websites are you currently designing?



RETWEETS
1,525

LIKES
2,122



1:40 PM - 2 Feb 2016

YOUR WEBSITE

IS | THIS | YOUR | WEBSITE

WE'RE UNIQUE

FIND OUT HOW UNIQUE

•••

This is the bit where you talk about how unique you are as a business and that you're different to all of your competitors.

Your website looks the same though.



Always

You could have four columns here but you won't. You'll have three, like everyone else.



Three

Have a cog icon above one of these columns if you're really feeling especially creative.



Columns

The perfect place to talk about your services. Because co-incidentally, you have three of them.

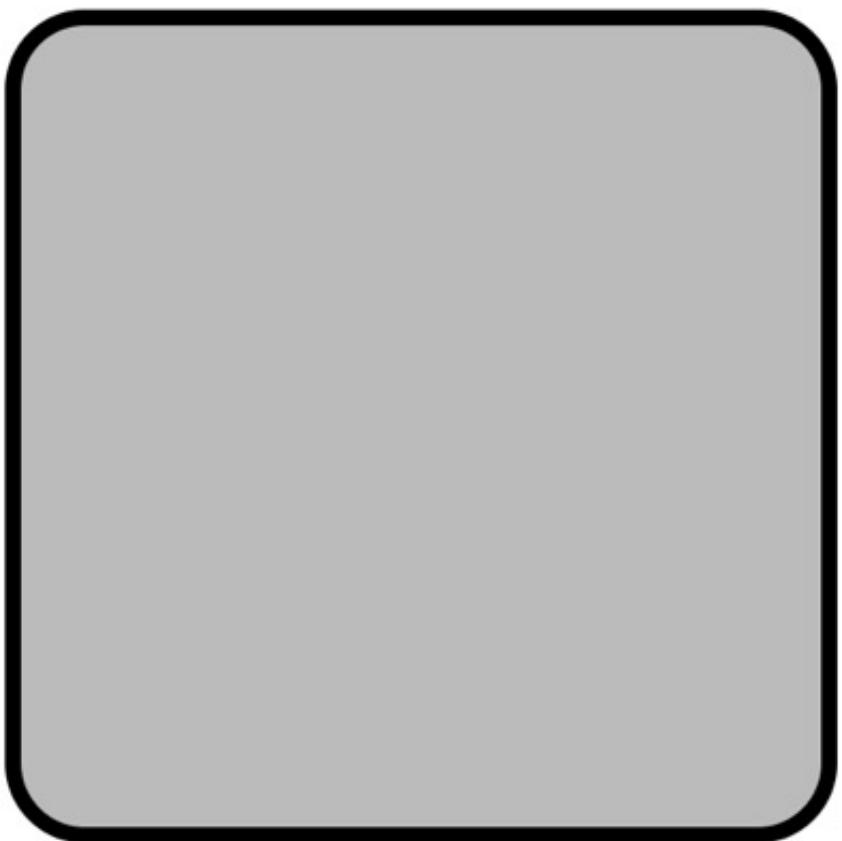
drawing by Dave Ellis
novolume.co.uk

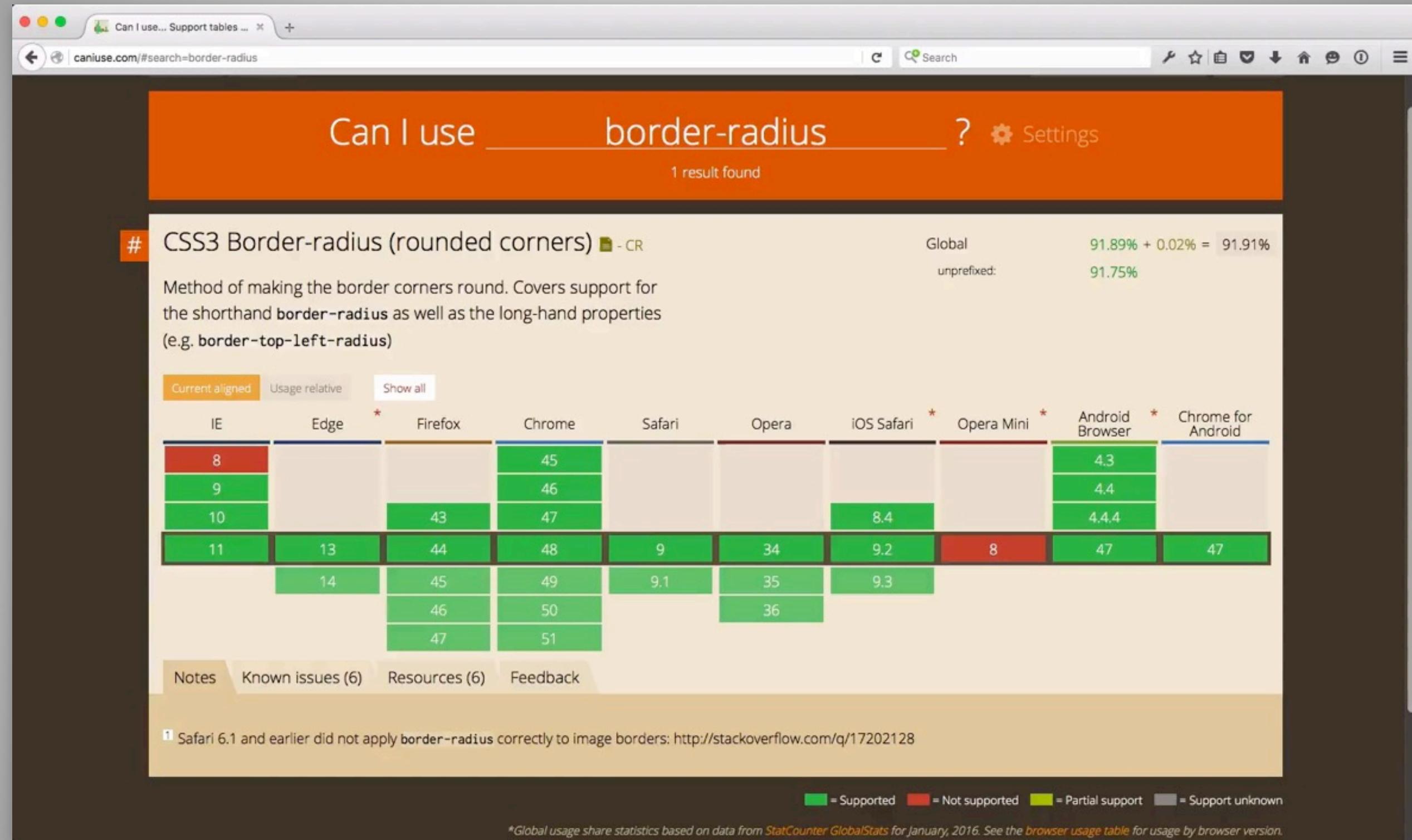
So, ok, how?



This Thing About CSS

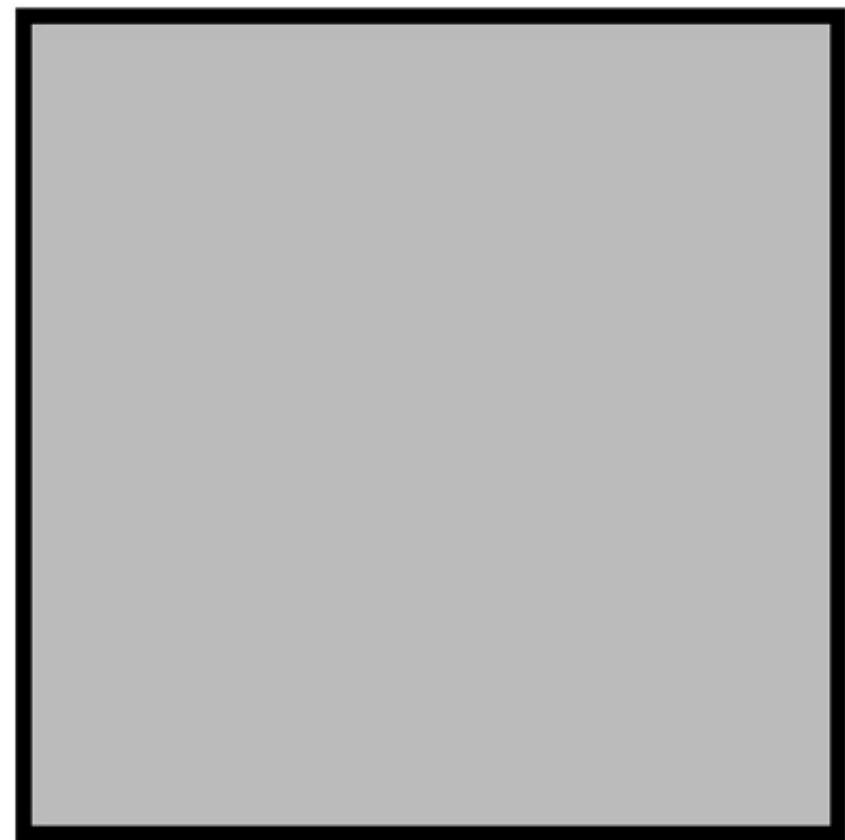
```
.box {  
background: #bbb;  
border: 10px solid black;  
border-radius: 50px;  
}
```



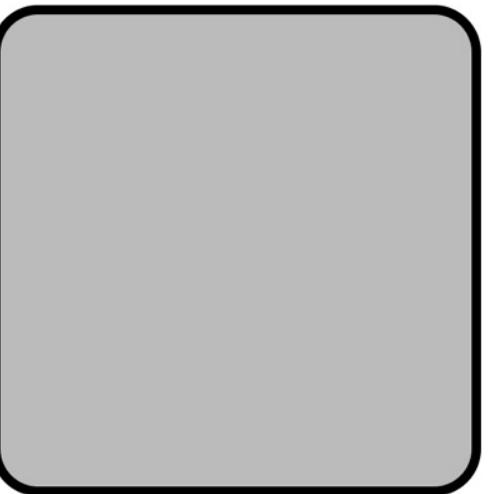




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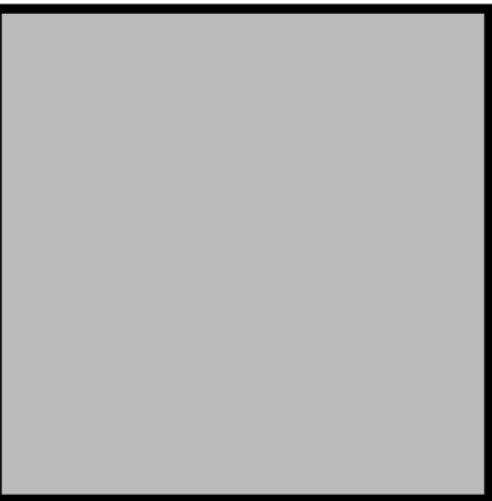
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}
```



Firefox
Safari
Chrome
IE9+
Edge

(on all operating systems)

```
.box {  
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border-radius: 50px;  
}
```



Opera Mini
IE8
IE7
IE6

That Magic Thing Where “Weird Stuff” Gets Ignored



CSS shapes

the web ahead

HOME TOPICS GUESTS EPISODES SUBSCRIBE ABOUT HELP OUT LINKBLOG

THE WEB AHEAD

Molly Holzschlag



Molly E. Holzschlag, known to many as "mollydotcom" or just plain "Mols" is an author, teacher and Open Web Evangelist. She has spent the majority of her 25 years in IT working with the Internet, and observed the Web emerge and evolve from its first days at CERN. She has spent the years since educating herself and others about the Web, its languages, and its core philosophies. Currently an invited expert to the W3C, Molly works globally to connect consumers, businesses, Web designers, developers, browser implementors and tool makers; encouraging cultural diplomacy, technical interoperability and professional excellence. Honored by multiple organizations and sites as one of the most influential women on the Web, a long-time friend and colleague once quipped "If Tim Berners-Lee is the father of the Web, than Molly is its fairy godmother."

```
img {  
    width: 200px;  
    margin: 0 1.5em 0.5em 0;  
    float: left;  
    shape-outside: circle();  
}
```

* There is a prefix: -webkit-shape-outside: circle();

The screenshot shows a web browser window for the website thewebahead.net. The page features a large red header with the text "THE WEB AHEAD". Below the header, there is a large, semi-transparent circular portrait of Molly Holzschlag. To the right of the portrait, her name "Molly Holzschlag" is written in a large, light-colored font. To the left of the portrait, there is some descriptive text about her. At the top of the page, there is a navigation bar with links for HOME, TOPICS, GUESTS, EPISODES, SUBSCRIBE, ABOUT, HELP OUT, and LINKBLOG.

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Can I use... Support tables ... + caniuse.com/#search=css shapes Search Compare browsers Index

Can I use css shapes ? ⚙️ Settings

1 result found

CSS Shapes Level 1 █ - CR

Allows geometric shapes to be set in CSS to define an area for text to flow around.

Global: 57.94% | unprefixed: 48.21%

| IE | Edge * | Firefox | Chrome | Safari | Opera | iOS Safari * | Opera Mini * | Android Browser * | Opera Mobile * | Chrome for Android | IE Mobile |
|----|--------|---------|--------|--------|-------|--------------|--------------|-------------------|----------------|--------------------|-----------|
| 8 | | | 45 | | | | | 4.3 | | | |
| 9 | | | 46 | | | | | 4.4 | | | |
| 10 | | 43 | 47 | | | | 8.4 | 4.4.4 | | | |
| 11 | 13 | 44 | 48 | 9 | 34 | 9.2 | 8 | 47 | 33 | 47 | 11 |
| | 14 | 45 | 49 | 9.1 | 35 | 9.3 | | | | | |
| | | 46 | 50 | | 36 | | | | | | |
| | | 47 | 51 | | | | | | | | |

Current aligned Usage relative Show all

Notes Known issues (0) Resources (7) Feedback

MS Edge status: Under Consideration

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

■ = Supported ■ = Not supported ■ = Partial support ■ = Support unknown

*Global usage share statistics based on data from StatCounter GlobalStats for January, 2016. See the browser usage table for usage by browser version.

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Molly Holzschlag | The Web Ahead

www.thewebahhead.net/guest/molly-holzschlag

HOME TOPICS GUESTS EPISODES SUBSCRIBE ABOUT HELP OUT LINKBLOG

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```
img.grapes {  
    max-width: 600px;  
    float: left;  
    margin-left: -26%;  
    shape-outside: polygon(  
        nonzero, -69.6% 101.25%, -84.35% 24.5%, 1.65% 4%, 23.3%  
        14.25%, 40.4% 13.5%, 43% 13.25%, 57.1% 16.5%, 62.7% 27%,  
        74.5% 32.25%, 78.15% 42.5%, 80.1% 49.25%, 77.15% 58.75%,  
        92.25% 68.25%, 92.9% 82.25%, 75.5% 92.5%, 51.55% 90.75%,  
        -5.6% 101.25%  
    );  
}
```



Grapes

The cultivation of the domesticated grape began 6,000–8,000 years ago in the Near East. Yeast, one of the earliest domesticated microorganisms, occurs naturally on the skins of grapes, leading to the innovation of alcoholic drinks such as wine. The earliest archeological evidence for a dominant position of wine-making in human culture dates from 8,000 years ago in Georgia.

The oldest winery was found in Armenia, dating to around 4000 BC. By the 9th century AD the city of Shiraz was known to produce some of the finest wines in the Middle East. Thus it has been proposed that Syrah red wine is named after Shiraz, a city in Persia where the grape was used to make Shirazi wine. Ancient Egyptian hieroglyphics record the cultivation of purple grapes, and history attests to the ancient Greeks, Phoenicians, and Romans growing purple grapes for both eating and wine production. The growing of grapes would later spread to other regions in Europe, as well as North Africa, and eventually in North America. In North America, native grapes belonging to various species of the *Vitis* genus proliferate in the wild across the continent, and were a part of the diet of many Native Americans, but were considered by European colonists to be unsuitable for wine. *Vitis vinifera* cultivars were imported for that purpose.

```
img.grapes {  
    max-width: 600px;  
    float: left;  
    margin-left: -26%;  
    shape-outside: polygon(  
        0% 0%, 100% 0%, 100% 100%, 0% 100%  
        14.25% 101.25%, -84.35% 24.5%, 1.05% -1%, 22.3%  
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        74.5% 32.25%, 70.15% 44.5%, 80.1% 49.25%, 11.15% 58.75%,  
        92.25% 68.25%, 94.9% 82.25%, 15.5% 94.5%, 51.55% 90.75%,  
        5.0% 101.25%  
    );  
}
```

<http://labs.jensimmons.com/progressinglayout/example1.html>

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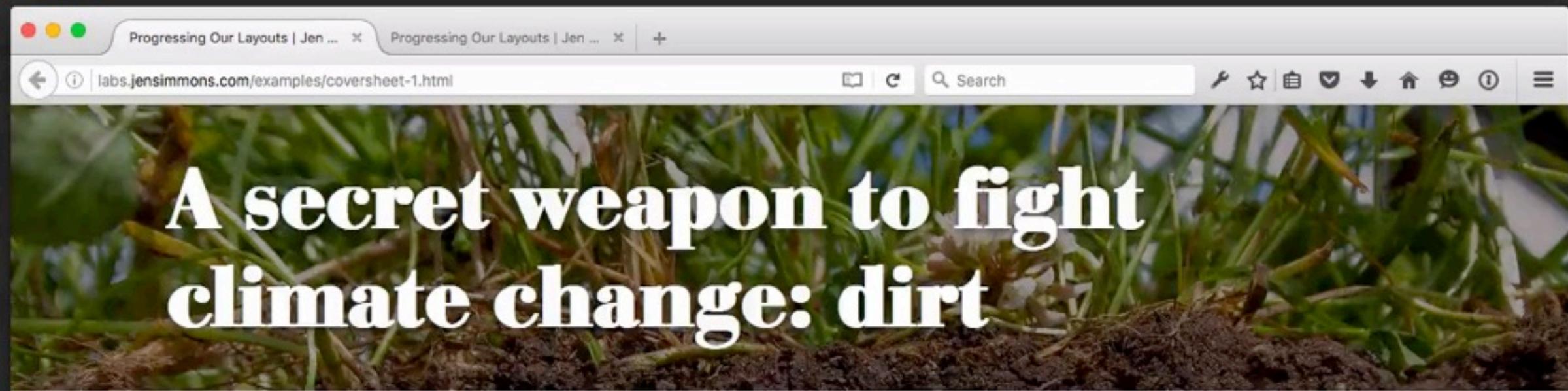
labs.jensimmons.com
[@jensimmons](https://twitter.com/jensimmons)

Tool #1:

CSS Error Handling



Viewport Units + Flexbox



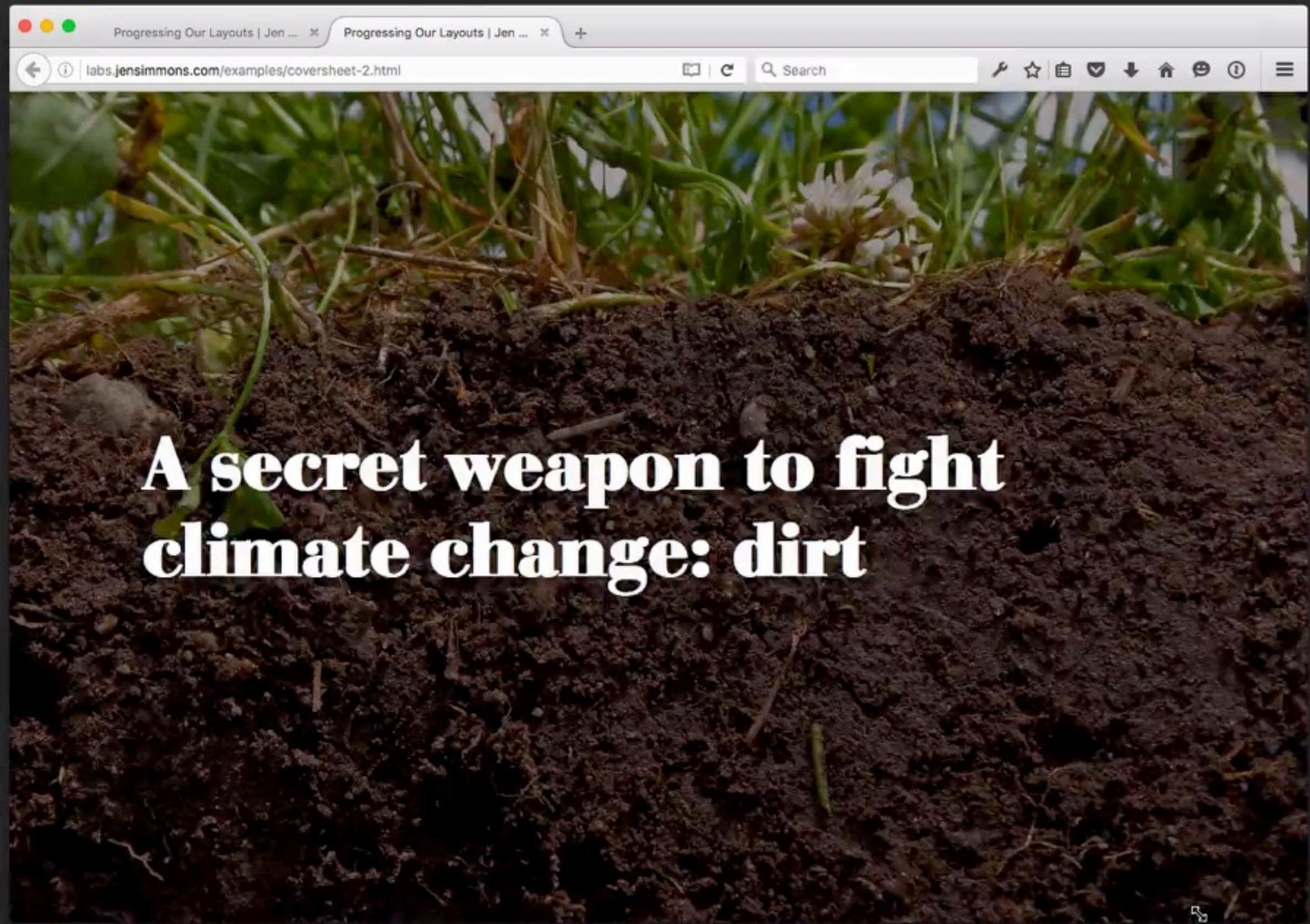
A secret weapon to fight climate change: dirt

by Debbie Barker and Michael Pollan · *The Washington Post* · December 15, 2015

When Will Allen is asked to name the most beautiful part of his [Vermont farm](#), he doesn't talk about the verdant, rolling hills or easy access to the Connecticut River. Though the space is a picturesque postcard of the agrarian idyll, Allen points down, to the dirt. "This precious resource not only grows food," he says, "but is one of the best methods we have for sequestering carbon."

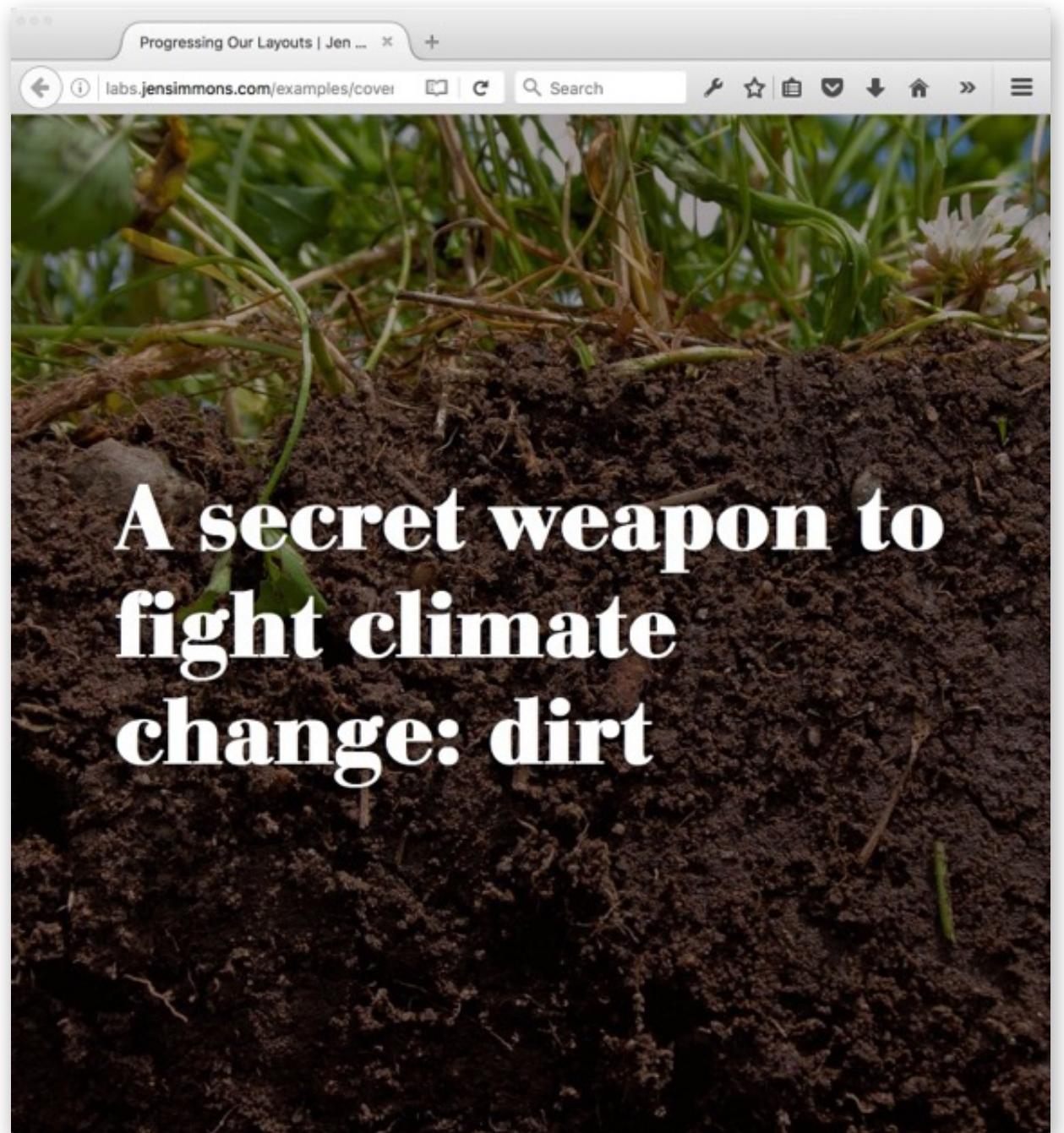
We think of climate change as a consequence of burning fossil fuels. But a third of the carbon in the atmosphere today used to be in the soil, and modern farming is largely to blame. Practices such as the overuse of chemicals, excessive tilling and the use of heavy machinery disturb the soil's organic matter, exposing carbon molecules to the air, where they combine with oxygen to create carbon dioxide. Put another way: Human activity has turned the living and fertile carbon system in our dirt into a toxic atmospheric gas.

Climate change, quite simply, cannot be halted without fixing agriculture.

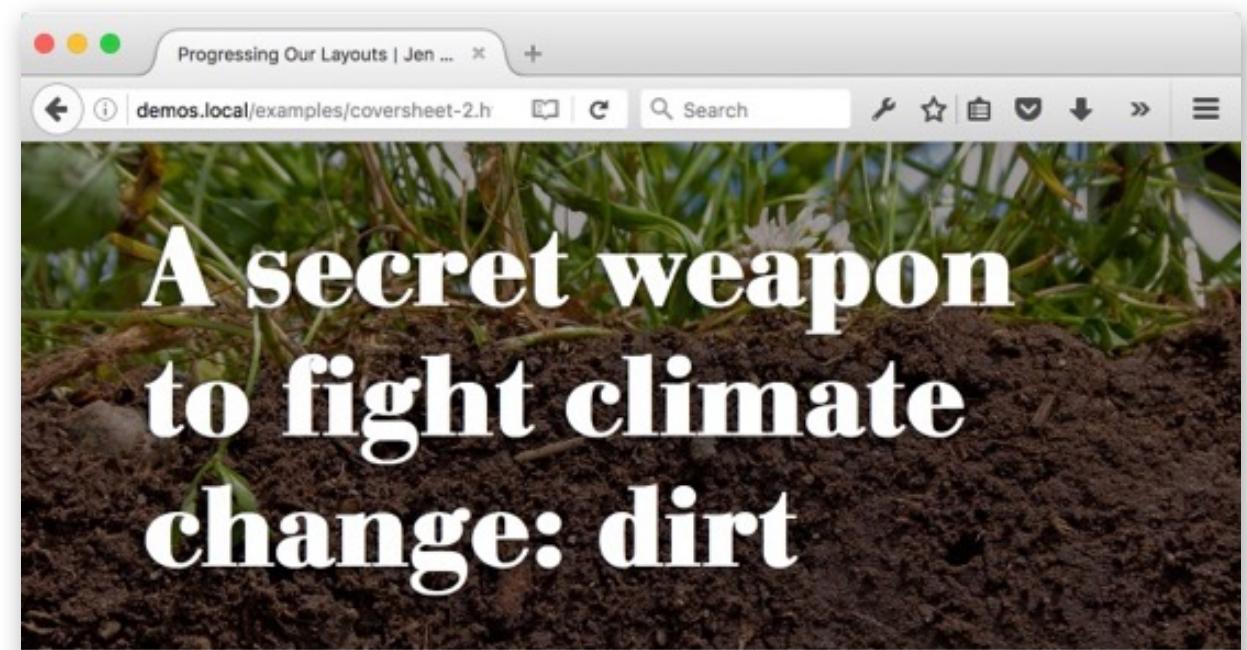


**A secret weapon to fight
climate change: dirt**

```
header {  
  display: flex;  
  height: 100vh;  
}  
  
h1 {  
  margin: auto;  
}
```



```
header {  
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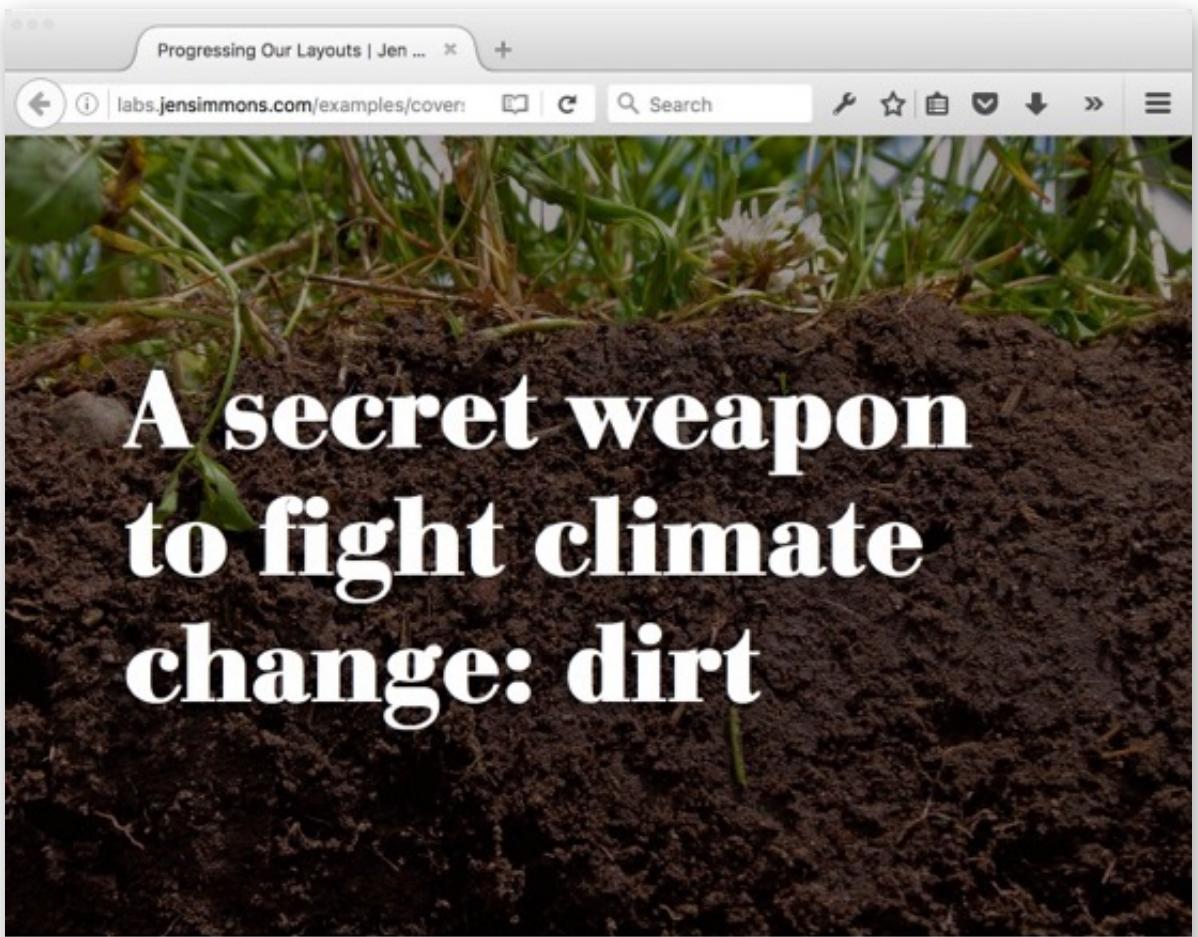


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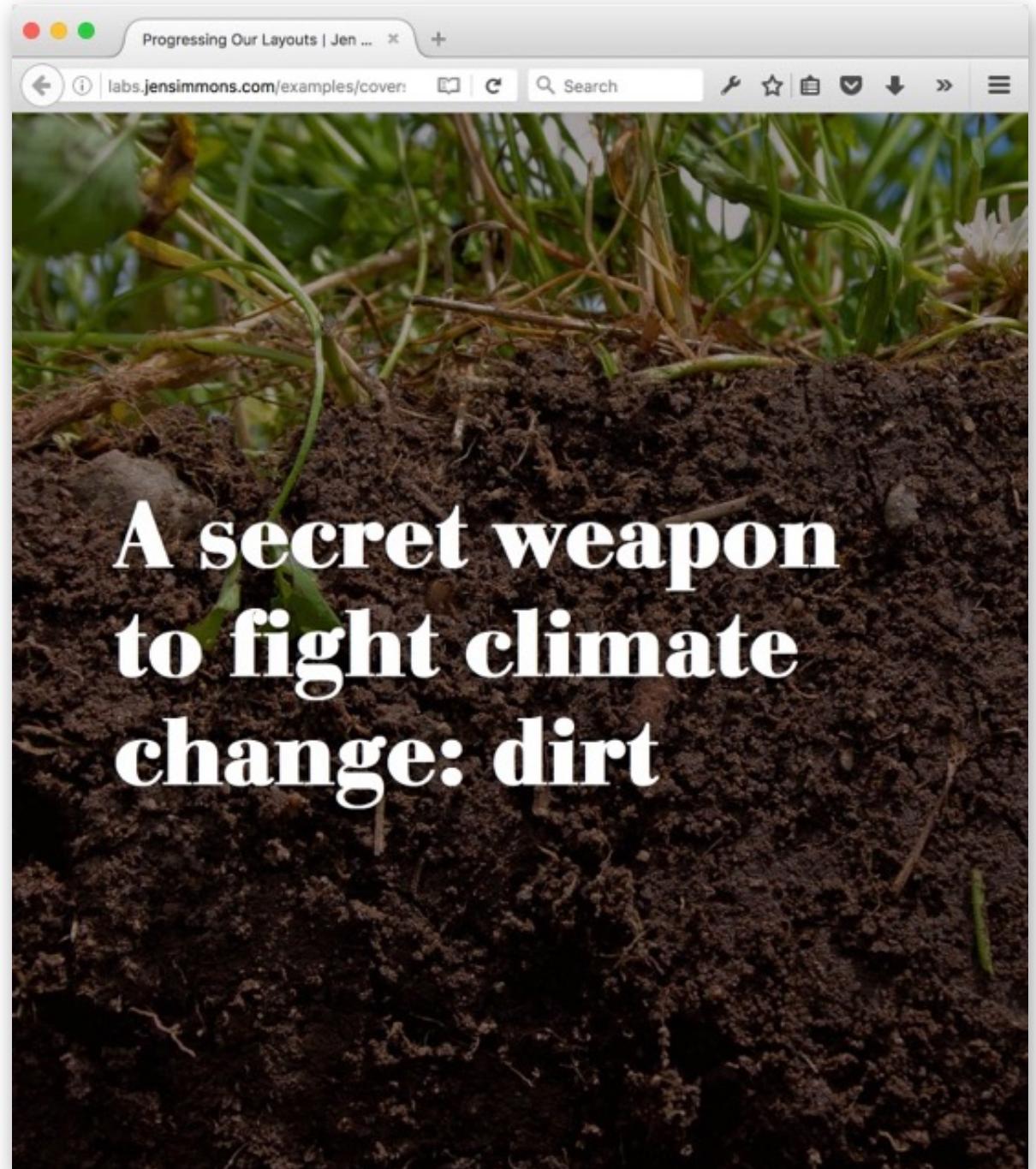
```
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h1 {  
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```

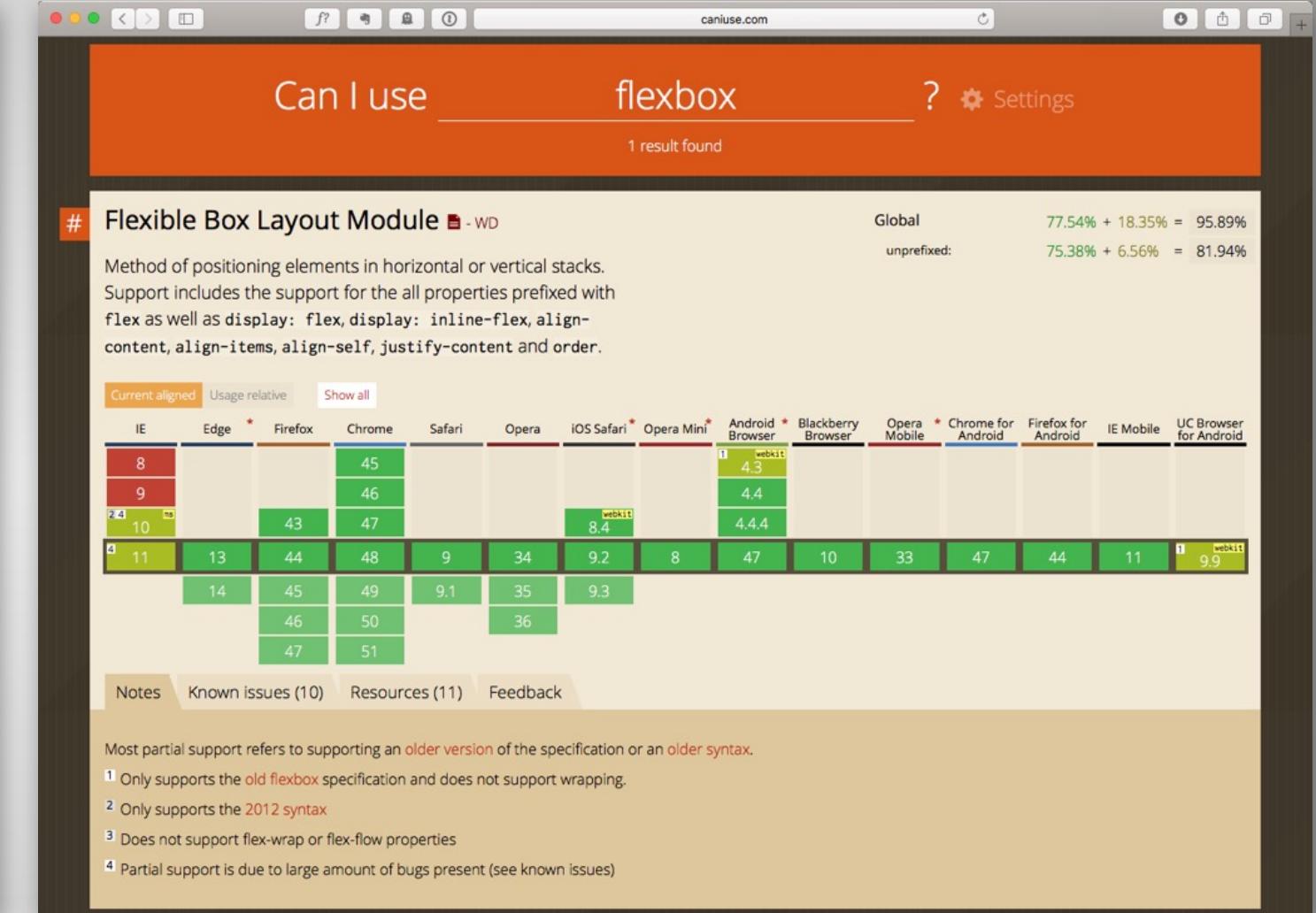
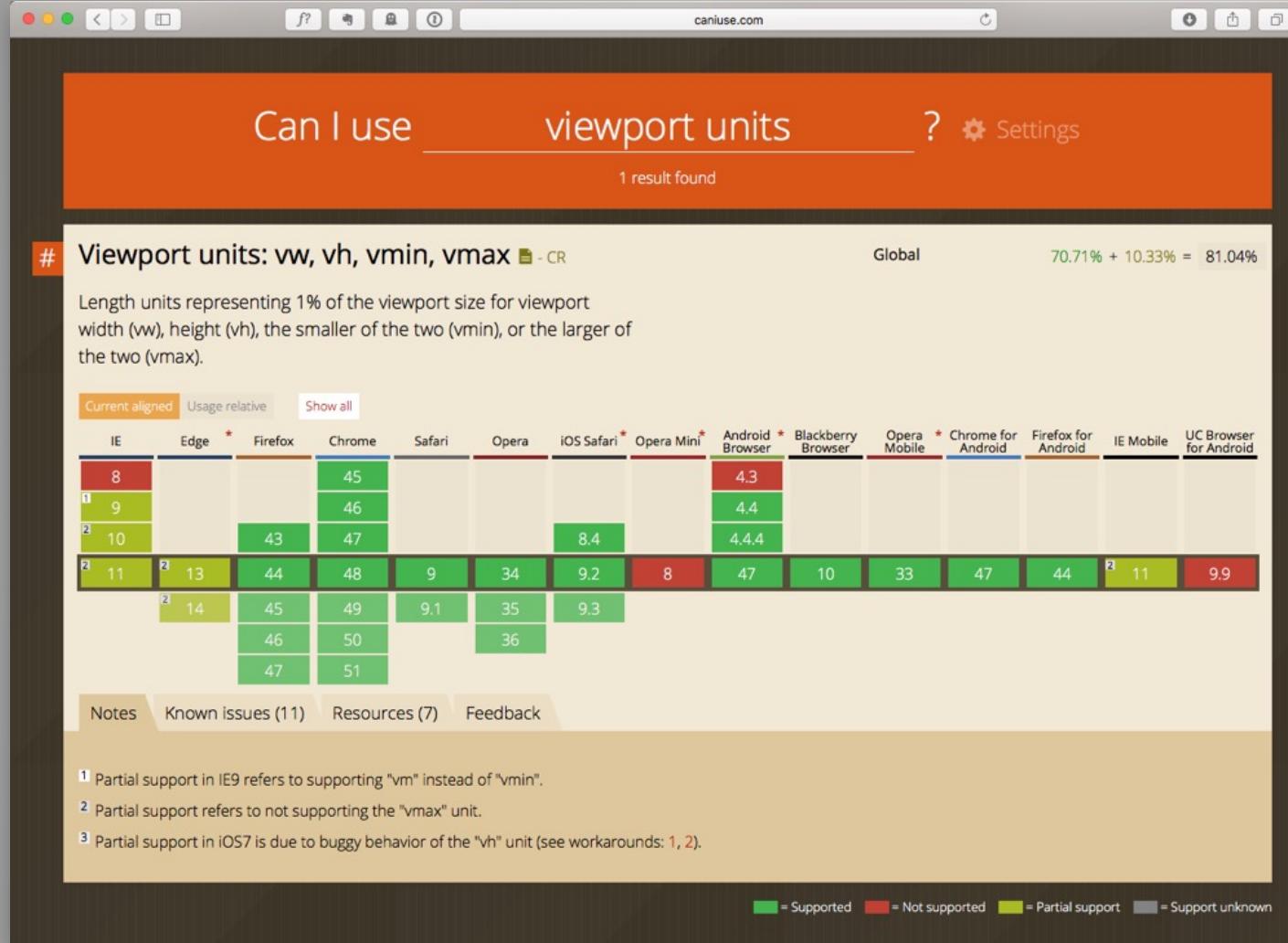


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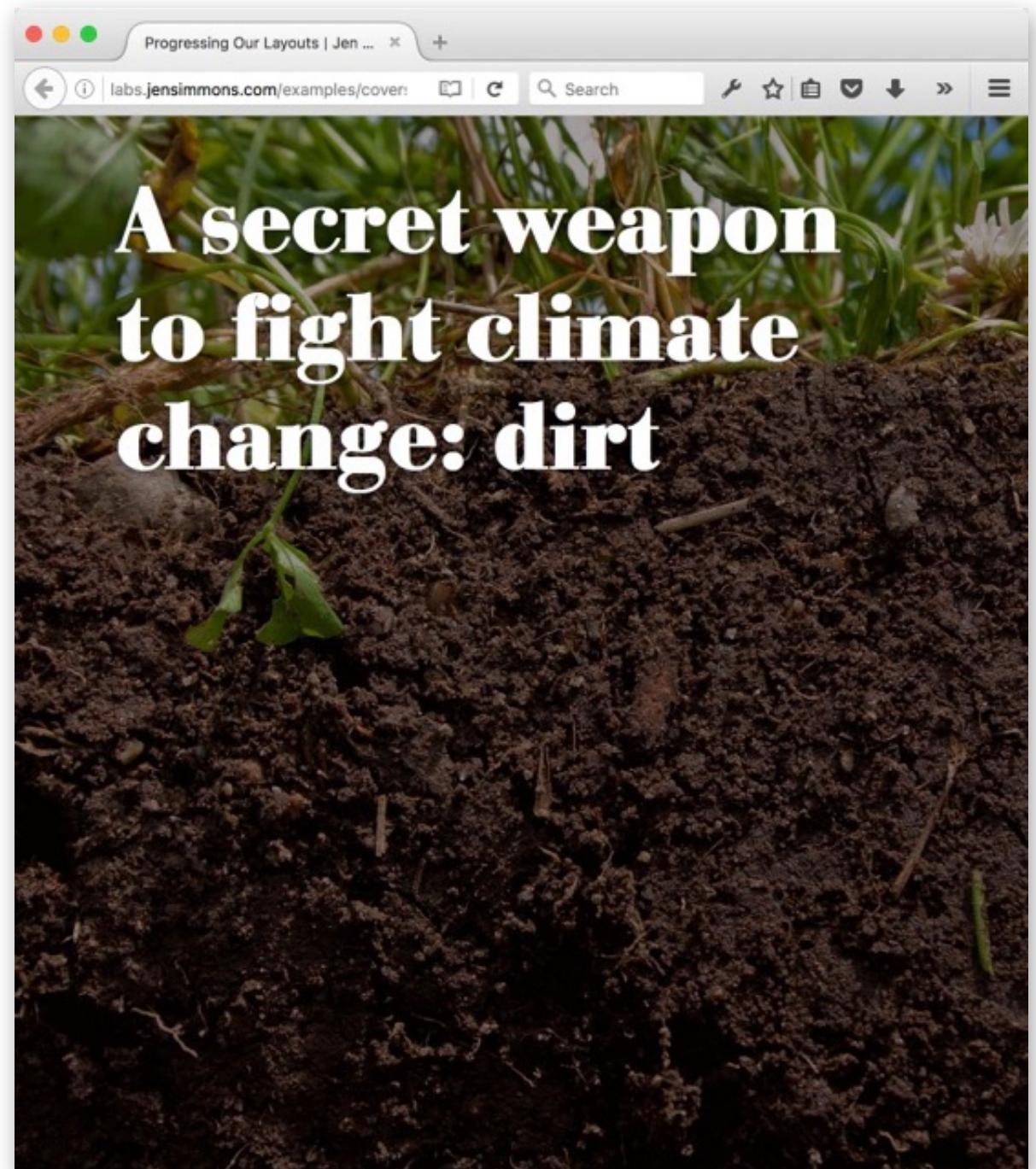
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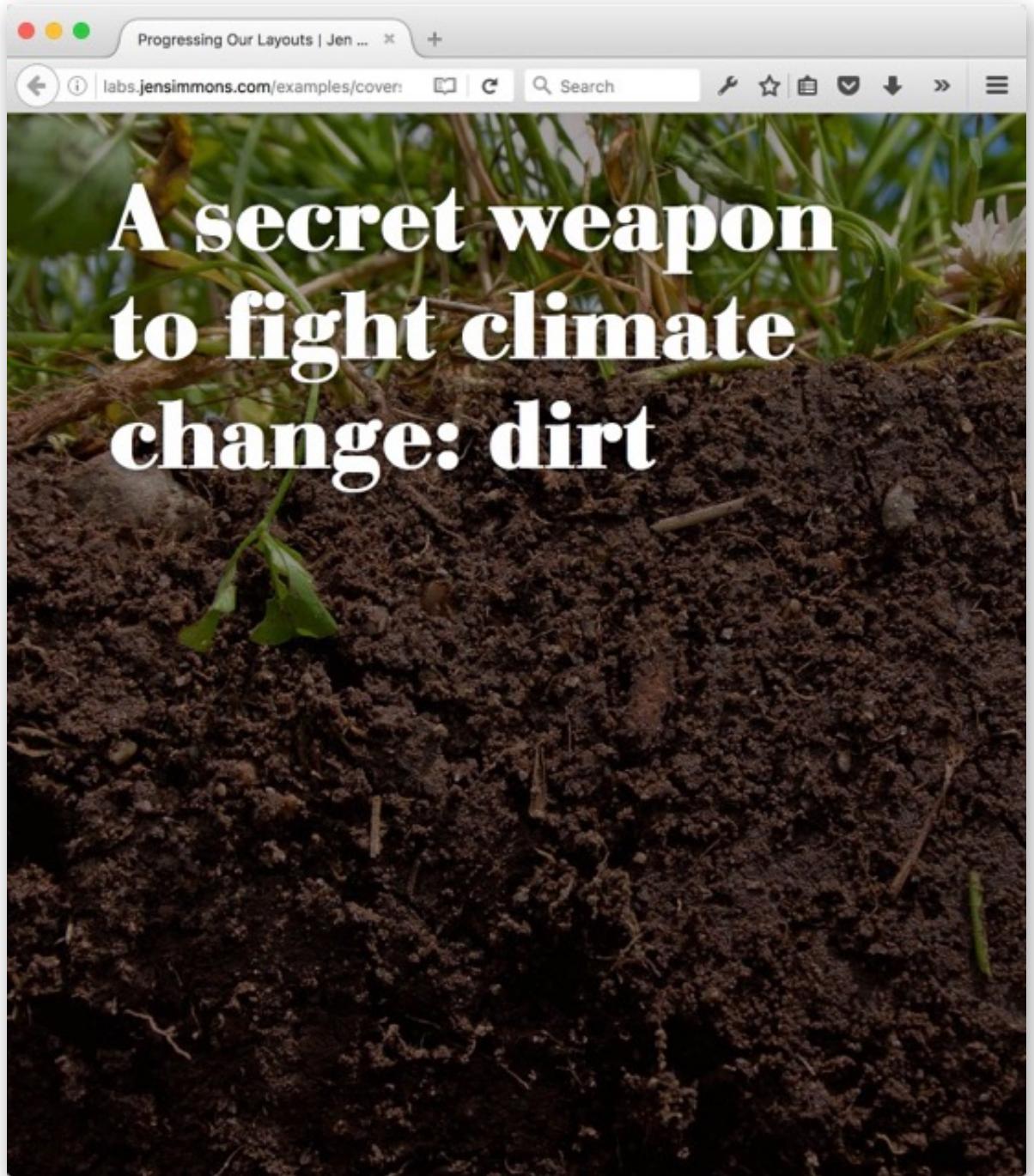




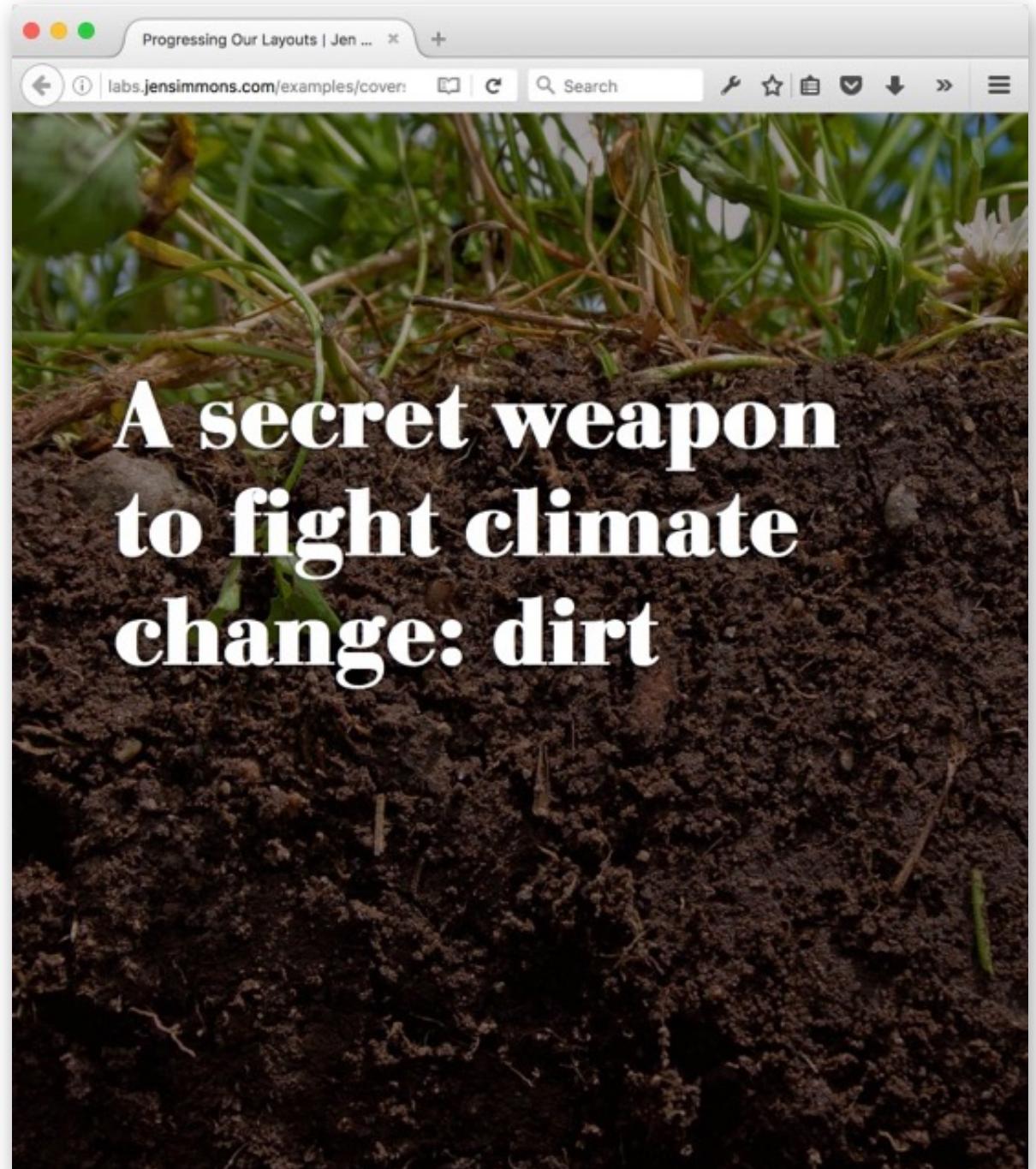
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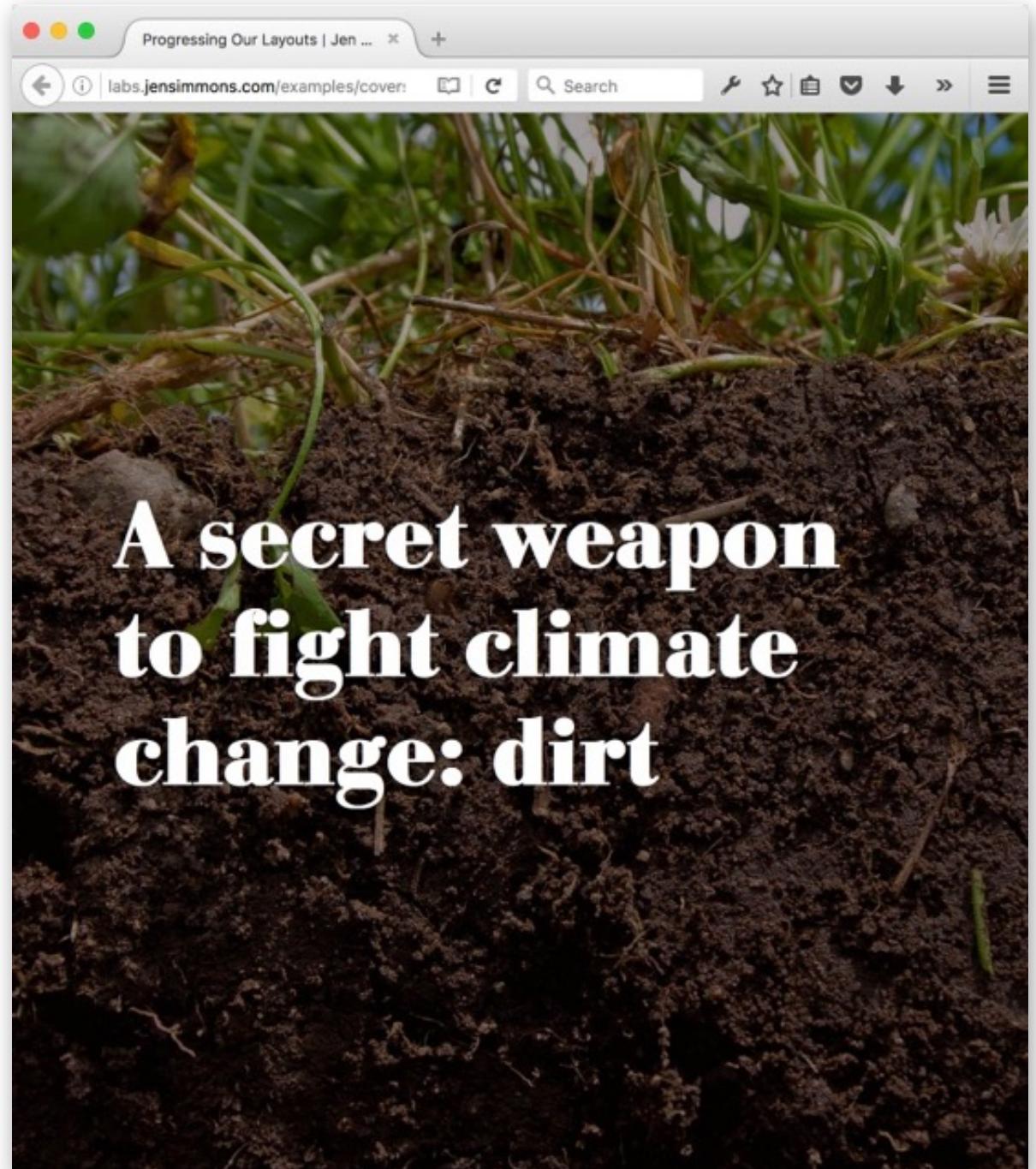
```
header {  
  display: flex;  
  height: 500px;  
  height: 100vh;  
}  
  
h1 {  
  margin-top: 2em;  
  margin: auto;  
}
```



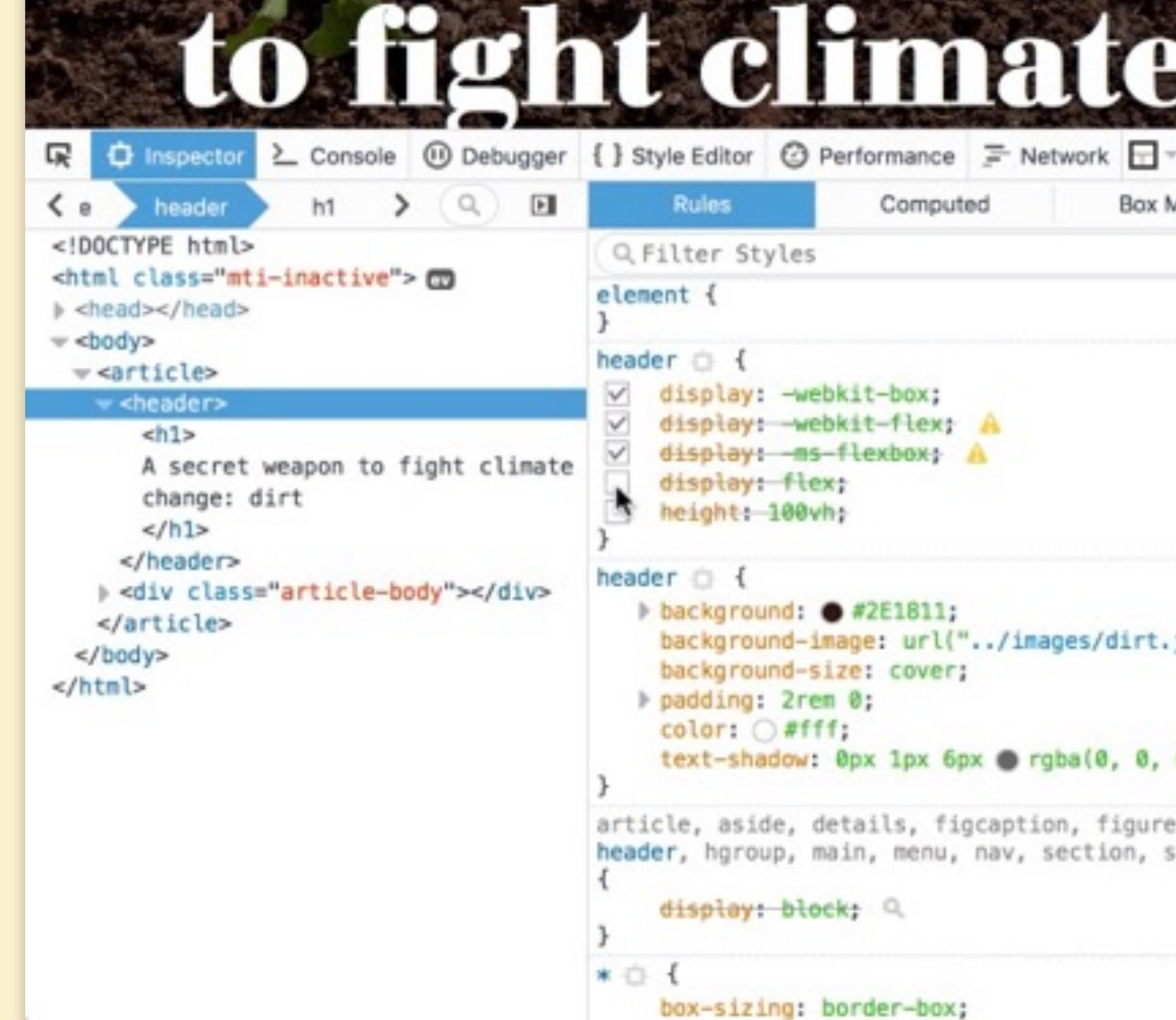
```
header {  
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  height: 100vh;  
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  margin: auto;  
}
```



* The running code uses prefixes, which I'll talk about later.

Tool #2: CSS Overrides



Initial Letter

theintercept.com

102



Ryan Gallagher

Sep. 25 2015, 5:40 a.m.

THERE WAS A SIMPLE AIM at the heart of the top-secret program: Record the website browsing habits of “every visible user on the internet.”

Before long, billions of digital records about ordinary people’s

theguardian.com

200

272



Save for later

On 16 September 2015, Apple launched the latest version of its iPhone operating system, iOS9. One feature of the new system is the option to install an ad blocker, preventing the phone’s Safari web browser from loading most web ads. The following day, the [top-selling application](#) in the UK was Peace, an ad blocker by celebrated software developer Marco Arment.

An estimated 150 to 200 million people use ad blockers on their desktop or laptop ad browsers and that number is [growing at 41% a year](#). As ad spending

NBC's Friends R...



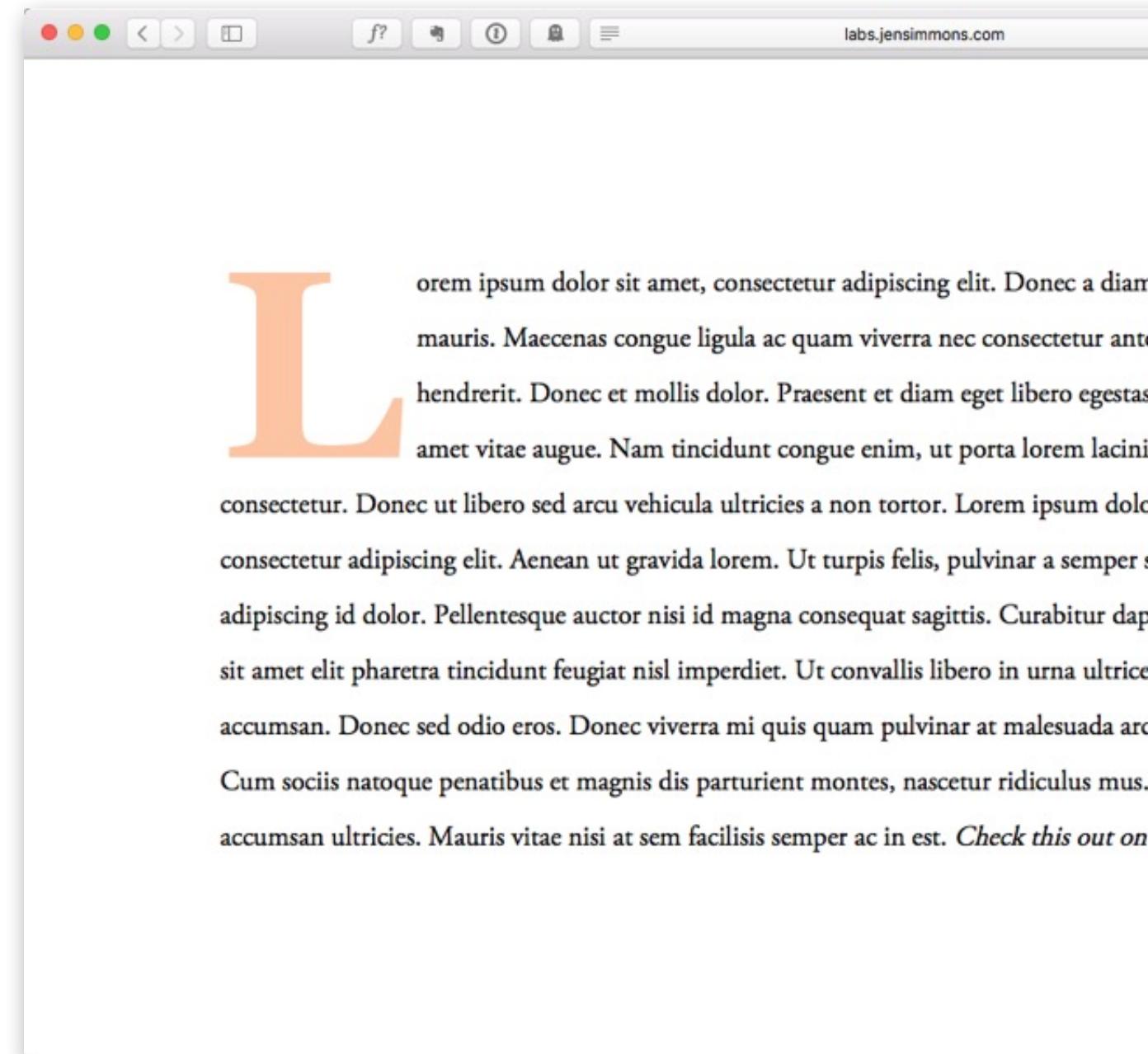
By Hulton Archive/Getty Images.

And here’s which cast member you can blame...

BY JULIE MILLER

Never have the lyrics of the *Friends* theme song—“I’ll be there for you...”—rung falser than on Thursday, upon learning that the *Friends* reunion teased by NBC executives this week has already fallen through, only 24 hours after the

```
p::first-letter {  
  
color: rgba(255,190,150,0.9);  
font-weight: bold;  
margin-right: 0.5em;  
  
-webkit-initial-letter: 4;  
initial-letter: 4;  
  
}
```



Can I use `::first-letter` ? [Settings](#)

1 result found

`::first-letter CSS pseudo-element selector` - REC

CSS pseudo-element that allows styling only the first "letter" of text within an element. Useful for implementing initial caps or drop caps styling.

Global 96.42% + 1.27% = 97.7%

Current aligned Usage relative Show all

| IE | Edge * | Firefox | Chrome | Safari | Opera | iOS Safari * | Opera Mini * | Android Browser | Blackberry Browser | Opera Mobile * | Chrome for Android | Firefox for Android | IE Mobile | UC Browser for Android |
|----|--------|---------|--------|--------|-------|--------------|--------------|-----------------|--------------------|----------------|--------------------|---------------------|-----------|------------------------|
| 3 | | | 45 | | | | | 4.3 | | | | | | |
| 9 | | | 46 | | | | | 4.4 | | | | | | |
| 10 | | 43 | 47 | | | | 8.4 | 4.4.4 | | | | | | |
| 11 | 13 | 44 | 48 | 9 | 34 | 9.2 | 8 | 47 | 10 | 33 | 47 | 44 | 11 | 9.9 |
| | 14 | 45 | 49 | 9.1 | 35 | 9.3 | | | | | | | | |
| | | 46 | 50 | | 36 | | | | | | | | | |
| | | 47 | 51 | | | | | | | | | | | |

Notes Known issues (2) Resources (2) Feedback

The spec says that both letters of digraphs which are always capitalized together (such as "IJ" in Dutch) should be matched by `::first-letter`, but no browser has ever implemented this.

1 Excludes punctuation immediately after the first letter from the match. (The spec says it should be included in the match.)

2 Acts like the first character is always a letter even when it's not. For example, given "!X;", "!" is matched instead of the entire string.

3 Only recognizes the deprecated `:first-letter` pseudo-class, not the `::first-letter` pseudo-element.

4 Only matches the very first character. The spec says that surrounding punctuation should also match.

■ = Supported ■ = Not supported ■ = Partial support ■ = Support unknown

caniuse.com

Can I use... Support tables for HTML5, CSS3, etc

About News May 12, 2015 - Feature suggestions now handled by GitHub issues

Compare browsers Index

Can I use initial-letter

?  Settings

0 results found.

Why not [suggest this feature be added?](#)

 = Supported  = Not supported  = Partial support  = Support unknown

*Global usage share statistics based on data from StatCounter GlobalStats for January, 2016. See the [browser usage table](#) for usage by browser version.

By [@Fyrd](#), design by [@Lensco](#). Location detection provided by [ipinfo.io](#).

Trouble with table colors/contrast? Try enabling [accessible colors](#).



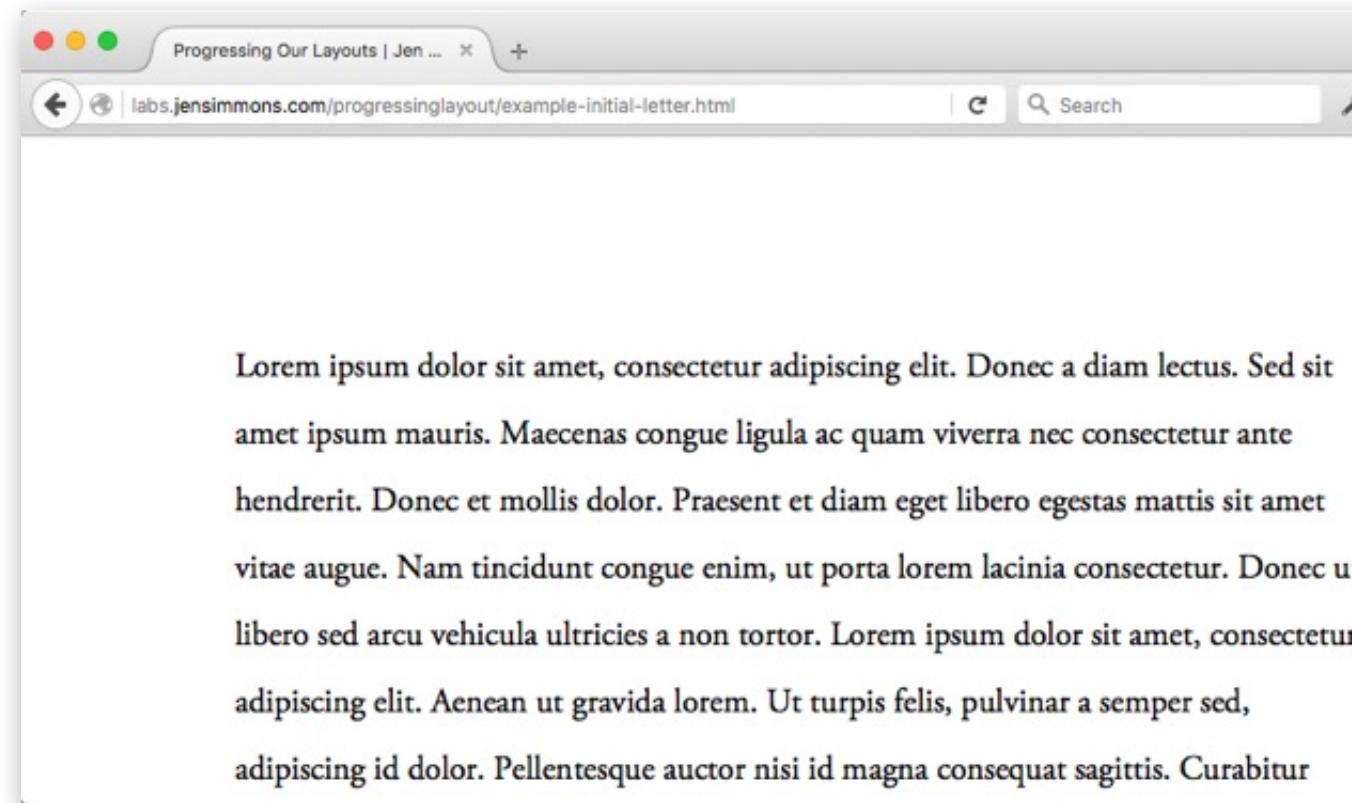
```
p::first-letter {  
  
color: rgba(255,190,150,0.9);  
font-weight: bold;  
margin-right: 0.5em;  
  
-webkit-initial-letter: 4;  
initial-letter: 4;  
  
}
```



```
p::first-letter {  
  color: rgba(255,190,150,0.9);  
  font-weight: bold;  
  margin-right: 0.5em;  
  webkit-initial-letter: 4;  
  initial-letter: 4;  
}
```



```
@supports (initial-letter: 4) or  
(-webkit-initial-letter: 4)  
  
p::first-letter {  
    color: rgba(255,190,150,0.9);  
    font-weight: bold;  
    margin-right: 0.5em;  
    -webkit-initial-letter: 4;  
    initial-letter: 4;  
}  
  
}
```



Tool #3: *@supports*, aka Feature Queries





1 result found

CSS Feature Queries - CR

Global

70.17%

CSS Feature Queries allow authors to condition rules based on whether particular property declarations are supported in CSS using the @supports at rule.

| | | Current aligned | Usage relative | Showing all | | | | | | | | | | | | | | | | | |
|----|----|-----------------|----------------|-------------|---------|--------|--------|-------|------------|-----|------------|----|-----------------|----|--------------------|--------------|-----|--------------------|---------------------|-----------|------------------------|
| | | IE | Edge | * | Firefox | Chrome | Safari | Opera | iOS Safari | * | Opera Mini | * | Android Browser | * | Blackberry Browser | Opera Mobile | * | Chrome for Android | Firefox for Android | IE Mobile | UC Browser for Android |
| 33 | 37 | | | | | | 23 | | | | | | | | | | | | | | |
| 34 | 38 | | | | | 3.1 | 24 | | | | | | | | | | | | | | |
| 35 | 39 | | | | | 3.2 | 25 | | | | | | | | | | | | | | |
| 36 | 40 | | | | | 4 | 26 | 3.2 | | | | | | | | | | | | | |
| 37 | 41 | | | | | 5 | 27 | 4.1 | | | | | | | | | | | | | |
| 38 | 42 | | | | | 5.1 | 28 | 4.3 | | | | | | | | | | | | | |
| 6 | 39 | | | | | 6 | 29 | 5.1 | | | | | | | | | | | | | |
| 7 | 40 | | | | | 6.1 | 30 | 6.1 | | | | | | | | | | | | | |
| 8 | 41 | | | | | 7 | 31 | 7.1 | | | | | | | | | | | | | |
| 9 | 42 | | | | | 7.1 | 32 | 8 | | | | | | | | | | | | | |
| 10 | 12 | | | | | 8 | 33 | 8.4 | | | | | | | | | | | | | |
| 11 | 13 | | | | | 47 | 9 | 34 | 9.2 | 8 | 47 | 10 | 33 | 47 | 44 | 11 | 9.9 | | | | |
| | 14 | | | | | 45 | 49 | 9.1 | 35 | 9.3 | | | | | | | | | | | |
| | 46 | | | | | 50 | | | 36 | | | | | | | | | | | | |
| | 47 | | | | | 51 | | | | | | | | | | | | | | | |

Notes

Known issues (1)

Resources (7)

Feedback

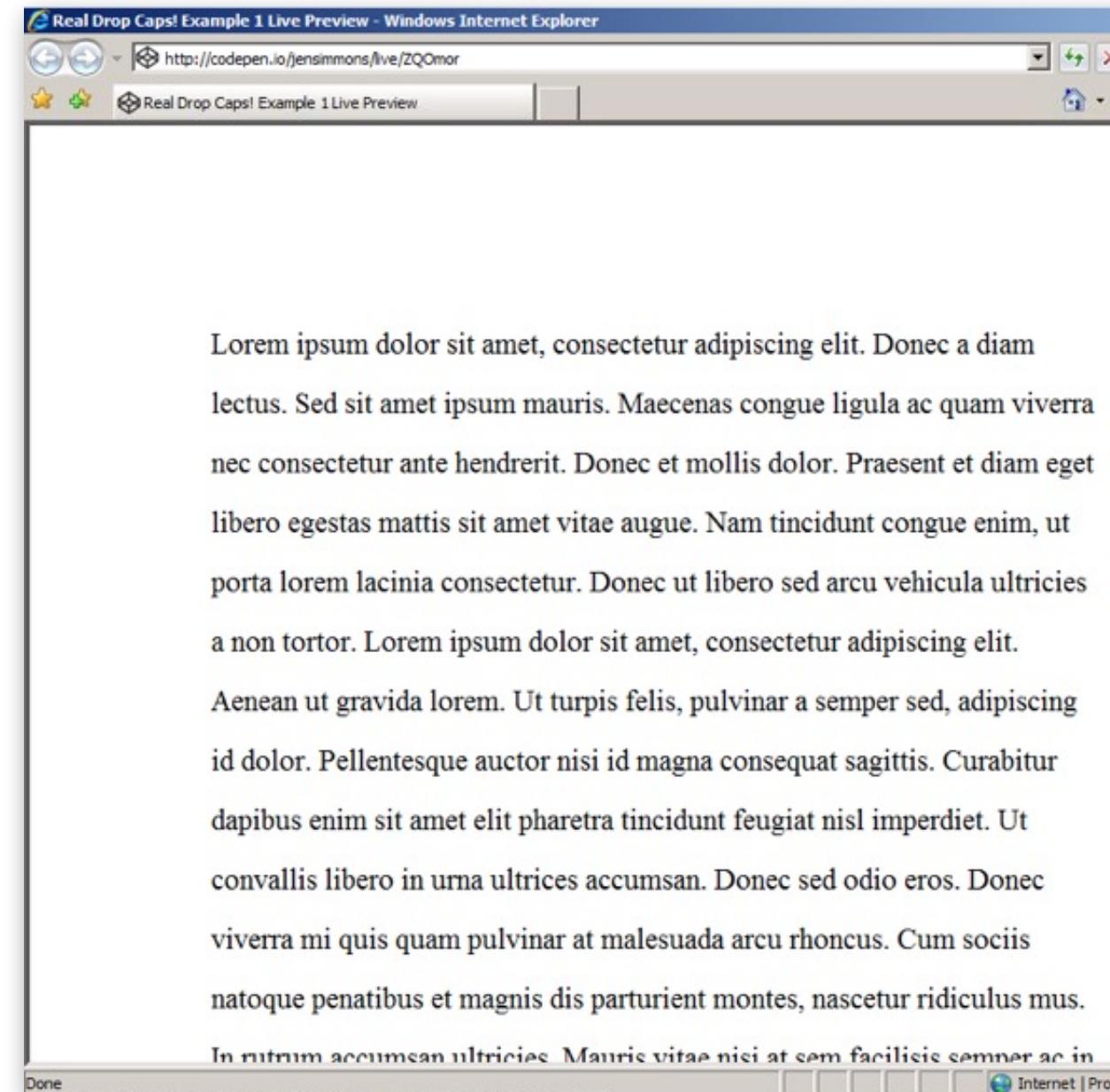
See also the [CSS.supports\(\) DOM API](#)

```
@supports (initial-letter: 4 ) or  
(-webkit-initial-letter: 4 )
```

```
p {color:red;}
```

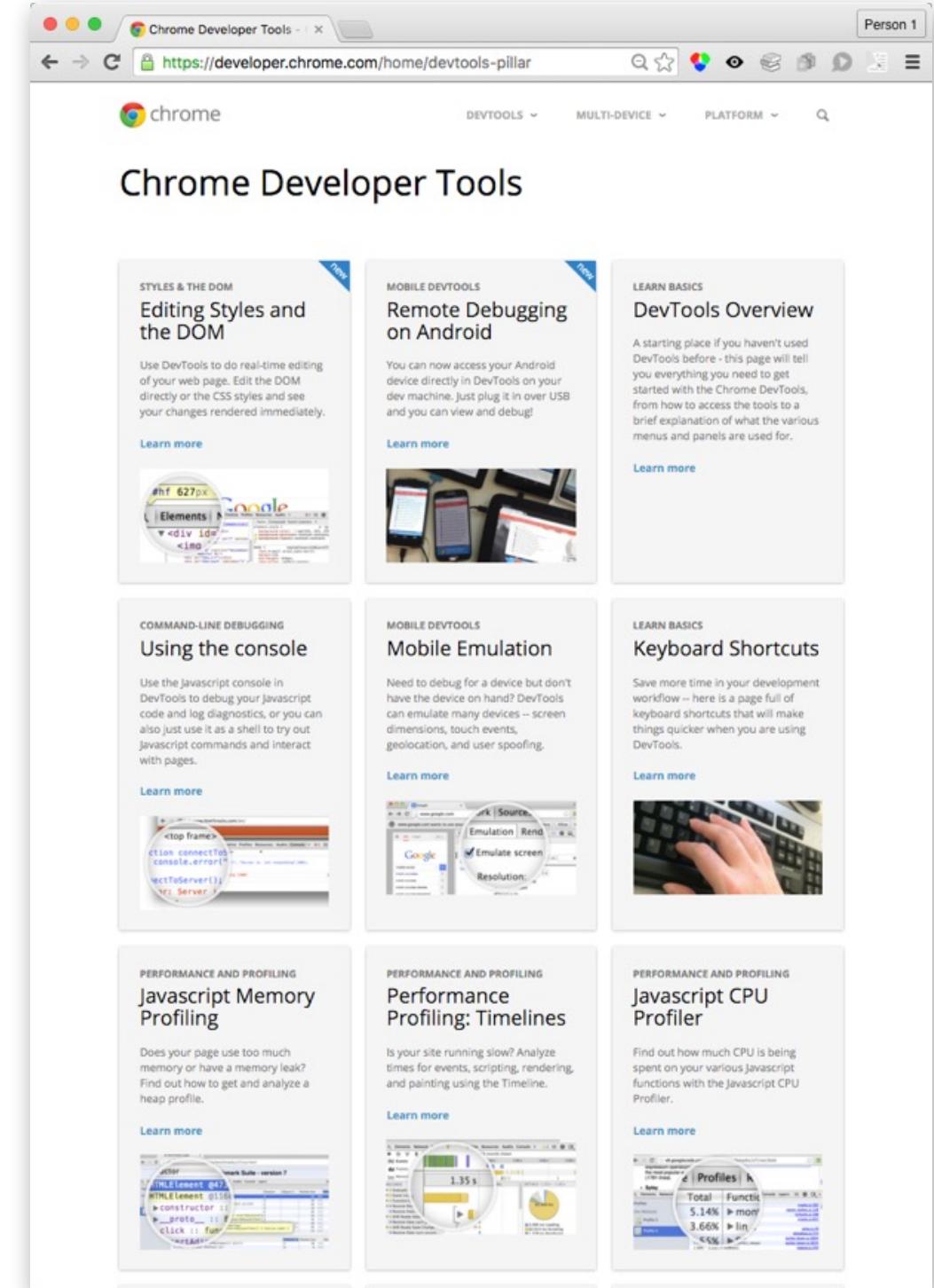
```
p::first-letter {  
color: rgba(255,190,150,0.9);  
font-weight: bold;  
margin-right: 0.5em;  
-webkit-initial-letter: 4;  
initial-letter: 4;  
}
```

```
}
```



```
// Layout overrides for browsers that  
// don't support Flexbox flex-wrap,  
// namely, Firefox 25 to 28.
```

```
@supports (not (flex-wrap: wrap)) {  
    .article-list {  
        display: block;  
    }  
  
    article {  
        flex: none;  
        float: left;  
        width: 48%;  
    }  
}
```



Tool #3: *@supports*, aka Feature Queries



Prefixes

A screenshot of a CSS editor interface. At the top, there are icons for 'Labs at jensimmons', 'Files', 'CSS', and 'SCSS'. Below the header is a toolbar with 'Find', 'Replace', and navigation buttons. The main area shows the file structure: 'labs.jensimmons.com > examples > sass > image-gallery-1.scss'. The code editor displays the following SCSS:

```
ul {  
  display: flex;  
  flex-wrap: wrap;  
  justify-content: space-around;  
}  
  
li {  
  flex-grow: 1;  
  border: 1px solid black;  
}  
  
img {  
  height: 300px;  
  height: calc(25vh - 2px);  
  display: block;  
  object-fit: cover;  
}  
  
img {  
  height: 300px;  
  height: calc(25vh - 2px);  
  display: block;  
  -o-object-fit: cover;  
  object-fit: cover; }
```

A screenshot of a CSS editor interface, similar to the one above. The file structure is identical: 'labs.jensimmons.com > examples > css > image-gallery-1.css'. The code editor displays the generated CSS, which includes vendor prefixes for older browsers:

```
ul {  
  display: -webkit-box;  
  display: -webkit-flex;  
  display: -ms-flexbox;  
  display: flex;  
  -webkit-flex-wrap: wrap;  
  -ms-flex-wrap: wrap;  
  flex-wrap: wrap;  
  -webkit-justify-content: space-around;  
  -ms-flex-pack: distribute;  
  justify-content: space-around; }  
  
li {  
  -webkit-box-flex: 1;  
  -webkit-flex-grow: 1;  
  -ms-flex-positive: 1;  
  flex-grow: 1;  
  border: 1px solid black; }  
  
img {  
  height: 300px;  
  height: calc(25vh - 2px);  
  display: block;  
  -o-object-fit: cover;  
  object-fit: cover; }
```

postcss/autoprefixer: Parse... +

[GitHub, Inc. \(US\) | https://github.com/postcss/autoprefixer](https://github.com/postcss/autoprefixer)

Autoprefixer build passing

PostCSS plugin to parse CSS and add vendor prefixes to CSS rules using values from [Can I Use](#). It is recommended by Google and used in Twitter, and Taobao.

Write your CSS rules without vendor prefixes (in fact, forget about them entirely):

```
:fullscreen a {  
  display: flex  
}
```

Autoprefixer will use the data based on current browser popularity and property support to apply prefixes for you. You can try the [interactive demo](#) of Autoprefixer.

```
:-webkit-full-screen a {  
  display: -webkit-box;  
  display: -webkit-flex;  
  display: flex  
}  
:-moz-full-screen a {  
  display: flex  
}  
:-ms-fullscreen a {  
  display: -ms-flexbox;  
  display: flex  
}  
:fullscreen a {  
  display: -webkit-box;  
  display: -webkit-flex;  
  display: -ms-flexbox;  
  display: flex  
}
```

Twitter account for news and releases: [@autoprefixer](#).

Sponsored by  EVIL MARTIANS

The screenshot shows the CodeKit website on the left and the CodeKit application window on the right, both running in a web browser.

CodeKit Website (Left):

- Header:** CodeKit: THE Mac App For ...
- Title:** CODEKIT
- Slogan:** A Mac App for Cool People
- Main Text:** It's like steroids for web developers
- Text:** CodeKit helps you build websites faster and better. See its flagship features below, then get a real feel for the app on the [Videos](#) page.
- Buttons:** Buy Now (\$32) and Download Trial
- Version Info:** Version 2.7.1 (19115) Mac OS 10.8+
The trial includes all features and unlocks in place

CodeKit Application (Right):

- Title Bar:** CodeKit
- Project:** CodeKitWebsite2(Git)
- Toolbar:** Assets, Server, Preview
- File List:** api, api2, appcast, bower_components, files, images, inc, js, kit, scss (with sub-items: _icons.scss, _settings.scss, app.scss, serverscripts, stylesheets, about.html, codekit1.html). The file "app.scss" is selected.
- Output Style:** Compressed
- Debug Info:** None
- Other Options:**
 - Create a source map
 - Use the libsass compiler
- After Compiling:**
 - Run Bless on the CSS file
 - Run Autoprefixer on the CSS file

Features Section (Bottom):

- Compile Everything:** Less, Sass, Stylus, CoffeeScript, Typescript, Jade, Haml, Slim, Markdown & Javascript.
- Auto-Refresh Browsers:** Refresh browsers across devices: Mac, PC, iOS, Android & kitchen fridge. Never hit command+R again.
- Bower Built-In:** Install 6,000+ components with a single click: Bootstrap, jQuery, Modernizr, Zurb Foundation, even WordPress.
- It Just Works:** There's no grunting at a command line and zero setup. Just drop your project on the app and go.

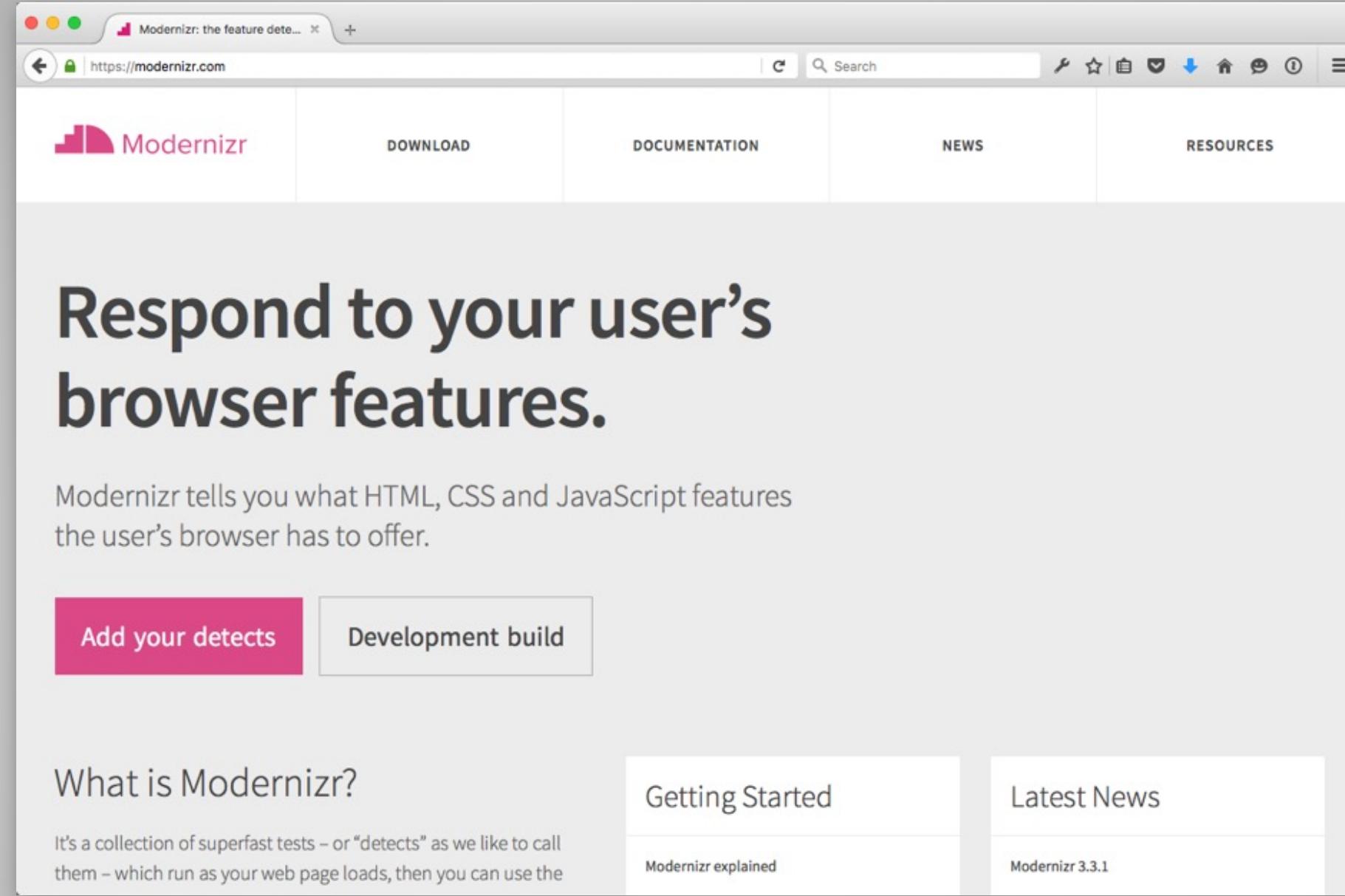
Footer: COMPILE EVERY LANGUAGE
CodeKit compiles Less, Sass, Stylus, Jade, Haml, Slim, CoffeeScript, Javascript, TypeScript, Markdown and Compass files automatically each time you save. Easily set options for each language on a file-by-file basis.

Bonus Tool: Autoprefixer



Tool #4: Modernizer





modernizer.com

Using Modernizr with CSS

Modernizr's classes

By default, Modernizr sets classes for all of your tests on the root element (<html> for websites). This means adding the class for each feature when it is supported, and adding it with a no- prefix when it is not (e.g. `.feature` or `.no-feature`). This makes it super simple to add features in via progressive enhancement!

Say you include Modernizr's detection for CSS gradients. Depending on the browser, it will result in either `<html class="cssgradients">` or `<html class="no-cssgradients">`. Now that you know those two states, you can write CSS to cover both cases

```
.no-cssgradients .header {  
    background: url("images/glossybutton.png");  
}  
  
.cssgradients .header {  
    background-image: linear-gradient(cornflowerblue, rebeccapurple);  
}
```

```
.flexwrap {  
    //  
    // the flexbox layout  
    //  
    //  
}  
//
```

```
.no-flexwrap {  
    //  
    // the old school layout  
    //  
    //  
}  
//
```

Tool #5: Conditional Stylesheets



Tool #0: Conditional Stylesheets



```
<link rel="stylesheet" type="text/css" href="css/style.css" />

<!--[if IE 7]><link rel="stylesheet" type="text/css"
media="screen" href="css/ie7.css"  />< ! [endif]-->

<!--[if IE 6]><link rel="stylesheet" type="text/css"
media="screen" href="css/ie6.css"  />< ! [endif]-->
```

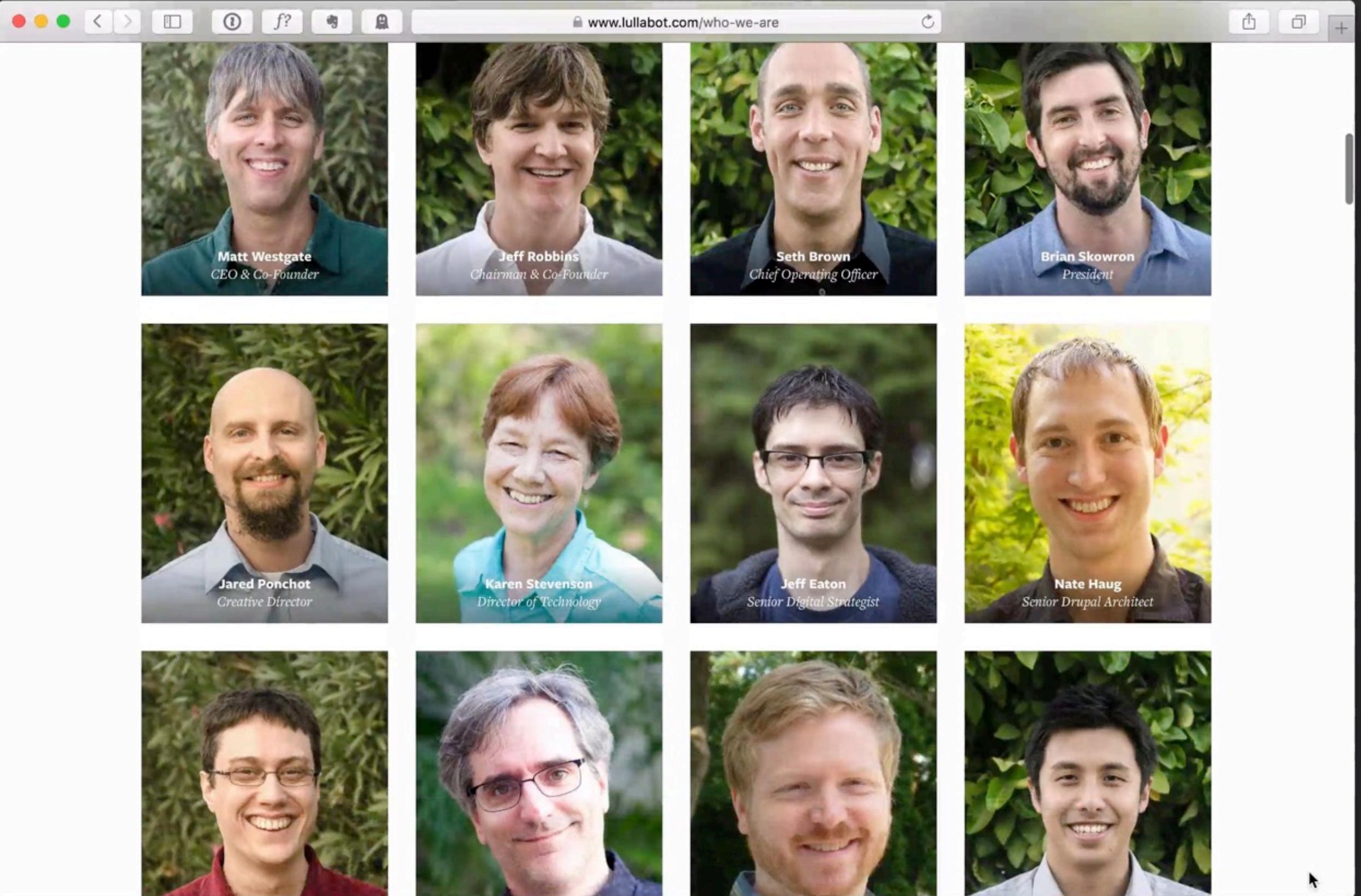
```
<!--[if lt IE 7 ]> <html class="ie6"> <![endif]-->
<!--[if IE 7 ]>      <html class="ie7"> <![endif]-->
<!--[if IE 8 ]>      <html class="ie8"> <![endif]-->
<!--[if IE 9 ]>      <html class="ie9"> <![endif]-->
<!--[if (gt IE 9)|(IE)]><!--> <html class=""> <!--<![endif]-->
```

```
@media all and (-ms-high-contrast: none), (-ms-high-contrast:  
active) {  
    // IE10+ CSS here  
}
```

Tool #6: Polyfill



Grid





Progressing Our Layouts | ...



labs.jensimmons.com/examples/image-gallery-no-layout.html



Search



The Woods with Little to No Layout

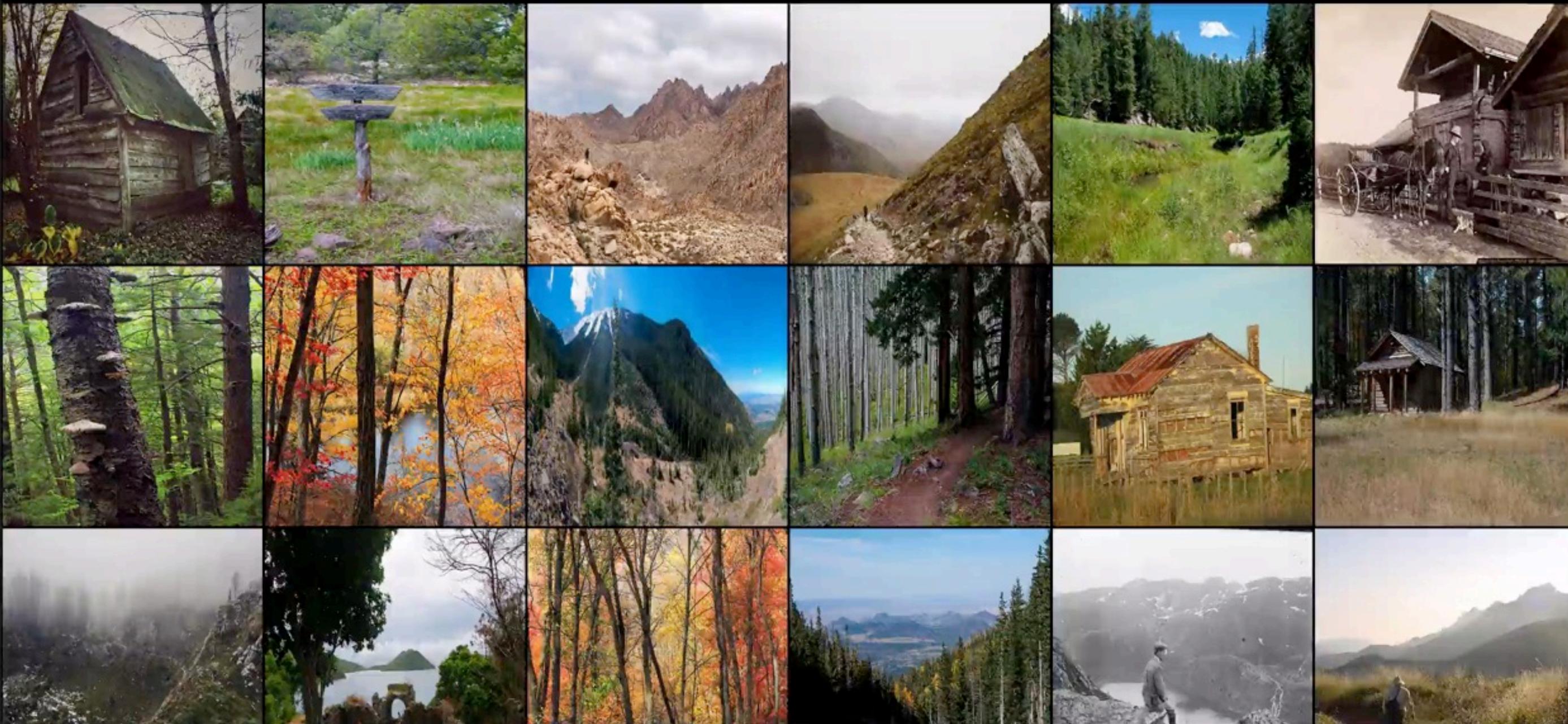




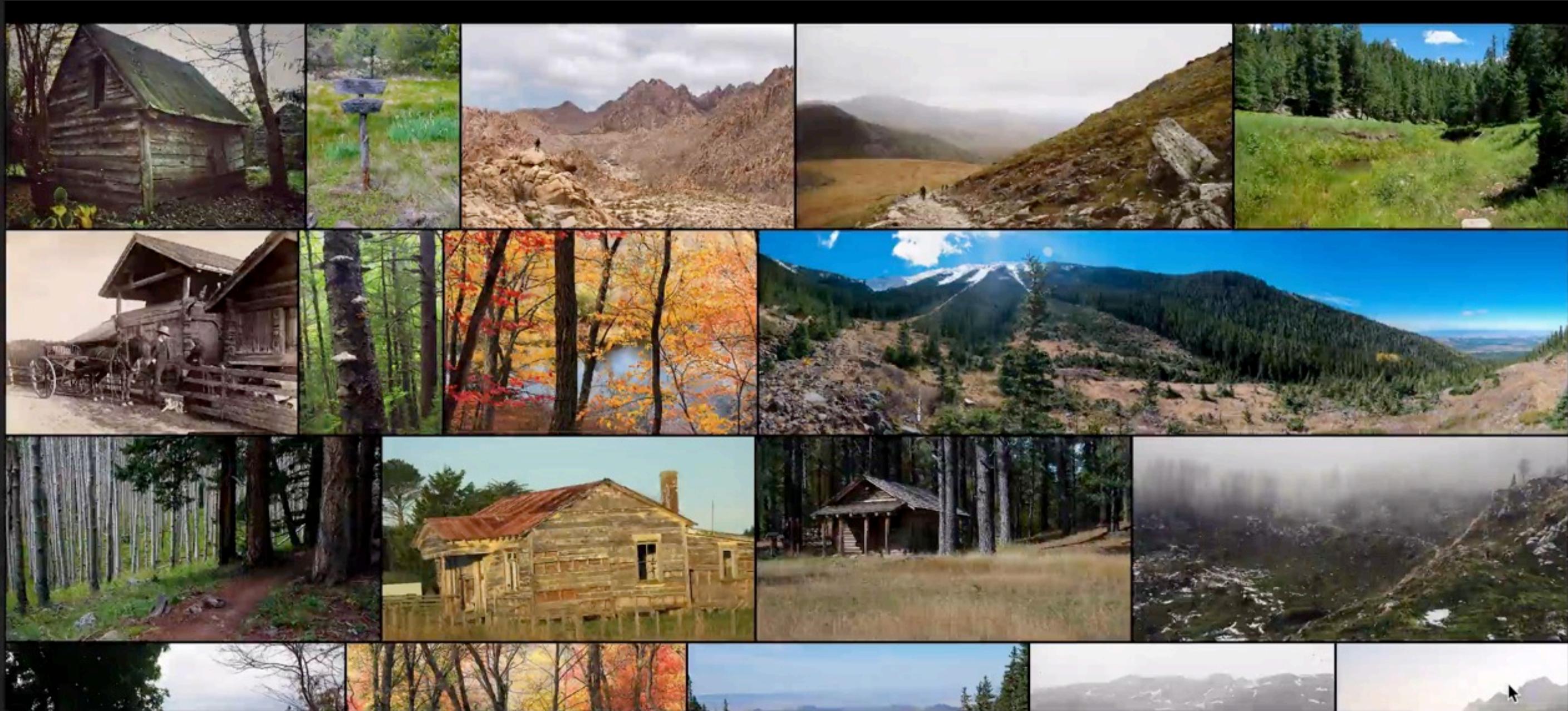
The Woods in Floats



The Woods in As We Usually Do: Squares



The Woods in Flexbox Columns





Progressing Our La...



labs.jensimmons.com/examples/image-gallery-flexbox-2.html



Search



The Woods in Flexbox Rows



The Woods in A 7-column Symmetrical Grid



```
ul {  
    display: grid;  
    grid-template-columns: repeat(2, 1fr);  
    grid-auto-rows: 50vw;  
    grid-auto-flow: dense;  
  
    @media (min-width: 360px) {  
        grid-template-columns: repeat(3, 1fr);  
        grid-auto-rows: 33vw;  
    }  
    @media (min-width: 500px) {  
        grid-template-columns: repeat(4, 1fr);  
        grid-auto-rows: 25vw;  
    }  
    @media (min-width: 700px) {  
        grid-template-columns: repeat(5, 1fr);  
        grid-auto-rows: 20vw;  
    }  
    @media (min-width: 900px) {  
        grid-template-columns: repeat(6, 1fr);  
        grid-auto-rows: 16.666666666666664vw;  
    }  
}  
  
li {  
    height: 100%;  
    border: 1px solid black;  
}  
  
li.highlight-box {  
    grid-row: span 2;  
    grid-column: span 2;  
}  
  
li.highlight-tall {  
    grid-row: span 2;  
}  
  
li.highlight-wide {  
    grid-column: span 2;  
}  
  
img {  
    display: block;  
    object-fit: cover;  
    height: 100%;  
}
```

labs.jensimmons.com

Can I use... Support tables ... +

caniuse.com/#search=Grid

Can I use Grid ? Settings

1 result found

CSS Grid Layout WD

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for lay out into columns and rows using a set of predictable sizing behaviors

Global 0% + 8.63% = 8.63%
unprefixed: 0%

| IE | Edge | Firefox | Chrome | Safari | Opera | iOS Safari | Opera Mini | Android Browser | Opera Mobile | * Chrome for Android | IE Mobile |
|------|------|---------|--------|--------|-------|------------|------------|-----------------|--------------|----------------------|-----------|
| 8 | | | 45 | | | | | 4.3 | | | |
| 9 | | | 46 | | | | | 4.4 | | | |
| 2 10 | | | 43 | 1 47 | | | 8.4 | 4.4.4 | | | |
| 2 11 | 2 13 | 3 44 | 1 48 | 9 | 1 34 | 9.2 | 8 | 47 | 33 | 47 | 2 11 |
| | 2 14 | 3 45 | 1 49 | 9.1 | 1 35 | 9.3 | | | | | |
| | | 3 46 | 1 50 | | 1 36 | | | | | | |
| | | 3 47 | 1 51 | | | | | | | | |

Notes Known issues (0) Resources (9) Feedback

Supported in WebKit Nightly with `-webkit-` prefix.
Chrome status: In development
WebKit status: In Development

1. Fact CSS ignores code it doesn't recognize
2. The CSS Cascade
3. Feature Queries with `@supports {}`
4. Modernizer
5. Conditional Stylesheets for IE
6. Polyfills



What are we
going to do about
full-page layout?

**Don't use Grid
until 100% of your
audience has it**

**Write float-based
(inline block / display table)
layout & deliver that to some
browsers, while the rest
get Grid layout**

You should NOT be jacking up the HTML order for layout anyway, so the HTML for both will be identical.)

**Deliver a “mobile” / skinny /
simplified layout to older
browsers, and a full-page Grid
layout to supporting browsers**



SECTIONS

HOME

SEARCH

The New York Times

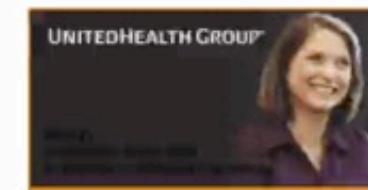
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Obama's Long Game for Cubans' Rights

By WILLIAM M. LEOGRANDE MARCH 2, 2016



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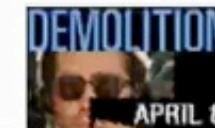


More

WASHINGTON — President Obama's announcement that he will visit Cuba this month has prompted a new round of criticism from opponents of normalizing relations. Their complaint: that the administration's opening to Cuba has yet to yield any tangible progress on human rights.

"I think the president ought to be pushing for a free Cuba" instead of going there, said one Republican presidential hopeful, Senator Ted Cruz of Texas. Senator Marco Rubio of Florida, Mr. Cruz's rival, echoed the theme: "A year and two months after the opening of Cuba, the Cuban government remains as oppressive as ever." The United States, such critics argue, should insist on human rights concessions in exchange for normalization.

Election year hyperbole aside, this argument sounds compelling because it appeals to core American values of democracy and human rights. But the



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The New York Times



Opinion

OP-ED CONTRIBUTOR

Obama's Long Game for Cubans' Rights



By WILLIAM M. LEOGRANDE

MARCH 2, 2016

WASHINGTON — President Obama's announcement that he will visit [Cuba](#) this month has prompted a new round of criticism from opponents of normalizing relations. Their complaint: that the administration's opening to Cuba has yet to yield any tangible progress on human rights.

"I think the president ought to be pushing for a free Cuba" instead of going there, [said](#) one Republican presidential hopeful, Senator Ted Cruz of Texas. Senator Marco Rubio of Florida, Mr. Cruz's rival, [echoed](#) the theme: "A year and two months after the opening of Cuba, the Cuban government remains as oppressive as ever." The United States, such [critics argue](#), should insist on human rights concessions in exchange for normalization.

Election year hyperbole aside, this argument sounds compelling because it appeals to core American values of democracy and human rights. But the critics have it backward: Mr. Obama has not given up on human rights in order to pursue normalization; he is pursuing normalization as a path to improving human rights. Nor is this a particularly new or exotic strategy; it's been American policy toward

Use a Polyfill for Grid

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Fire Chasers

A Letter to Slack

The Never-ending Film Title

Why Bother Making
Beautiful Team Pages?

Thu 25 Feb
2016
09:38 AM

Why Bother Making Beautiful Team Pages?

The talented, Portland-based design agency [Instrument](#) launched a new web site for itself this week. It's nice enough, but what I was particularly taken by was the team page, which captures each of the company's many employees in elegantly styled photos.



Say goodbye to
guesswork and hello
to money with
Multivariate Testing in
[MailChimp Pro](#).

Sponsor



Chimp Essentials
teaches you how to
use MailChimp
better. Start with
some [free video
lessons](#).

Studio — Instrument

www.instrument.com/studio/

Search

Amie Pascal

Client Partner

Zech Bard

Head Writer

The image shows a screenshot of a web browser window. The title bar reads "Studio — Instrument". The address bar shows the URL "www.instrument.com/studio/". Below the address bar is a search bar with the placeholder "Search". To the right of the search bar are various browser icons. The main content area of the browser displays two photographs of individuals. On the left is a woman named Amie Pascal, who is smiling and wearing a black sleeveless top with a blue feather print and a red necklace. On the right is a man named Zech Bard, who has a beard and is wearing a black zip-up hoodie with white lettering that includes a large "L" and the text "EST. 2010". The background behind the portraits is a light gray studio backdrop.



The Art of Imagination

WORK

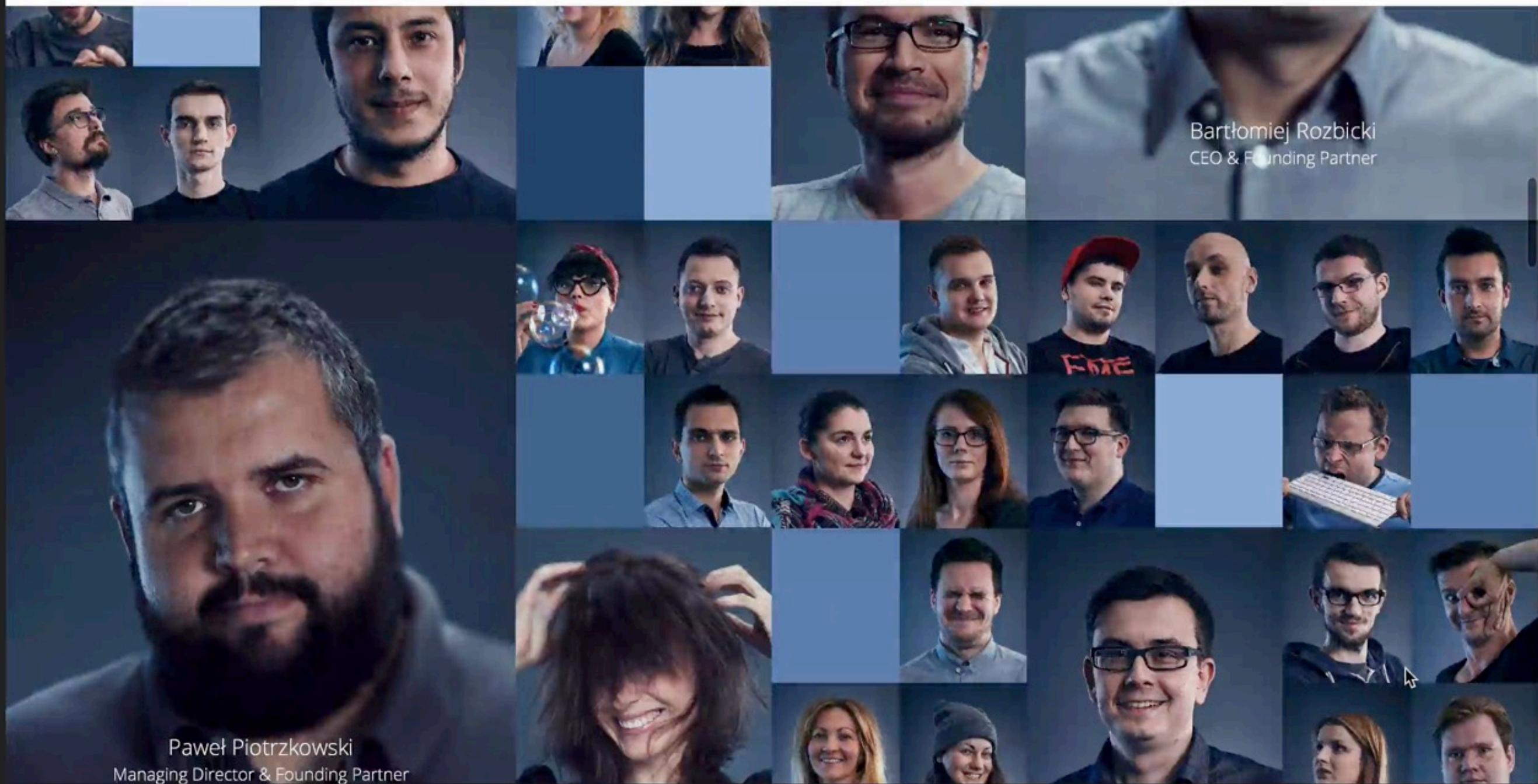
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Paweł Piotrkowski
Managing Director & Founding Partner

Bartłomiej Rozbicki
CEO & Founding Partner

Use a Polyfill for Grid

Basic layout, that doesn't require Grid.
Or Media Queries. Or Feature Queries.
Hand-write your own CSS for this.
Drop layout frameworks & learn vanilla CSS.

Code that uses Grid to create the layout.
Use Feature Queries to hide it from
non-supporting browsers.



Basic layout, that doesn't require Grid.
Or Media Queries. Or Feature Queries.
Hand-write your own CSS for this.
Drop layout frameworks & learn vanilla CSS.



Thanks!

labs.jensimmons.com
[@jensimmons](https://twitter.com/jensimmons)
thewebahead.net