A SMASHING CASE STUDY

Creative Techniques for Creative Design Challenges

ICONOGRAPHY

WordPress is a wonderfully powerful
versatile features giving it **the flexibilit**
range of users. However, if you are a prof
and plugins, sometimes these features ca
and options that allow off-the-shelf them
cases can sometimes also be used to und
theme built for a specific use case.

“

Not only should the image be a good candidate for SVG, but SVG should also be a good candidate for the image.

```html
<img src="my-image-1x.png"
     srcset="my-image-2x.png 2x, my-image-3x.png 3x"
     alt="my image" />
```

```html
<picture>
    <source type="image/svg+xml" srcset="path/to/image.svg">
    <img src="path/to/fallback.png" alt="Image description">
</picture>
```

Better SVG Fallback and Art Di ×

Secure https://sarasoueidan.com/blog/svg-picture/

Sara SOUEIDAN

is an award-winning freelance front-end Web developer, author & speaker from Lebanon, working with clients across the globe, building fast, responsive & accessible Web sites & applications.

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Better SVG Fallback and Art Direction With The <picture> Element

Published February 15, 2015 | Estimated Reading Time: 14 min

Besides using an SVG as a background image in CSS, you can serve SVG foreground images in HTML using one of several embedding techniques, each of which has its advantages and use cases. Unless

WHICH EMBEDDING TECHNIQUE?!

IT DEPENDS ™

1. Is the icon just decoration? If yes, I embed as a background image in CSS. I might embed it inline in the CSS to avoid an extra HTTP request.
2. Does the icon need to have a **smooth transition**? Does it *need* to have it? If yes, then don't use as a background image: inline instead.
3. Does the icon serve a function? Does it replace text indicating a specific action the user can take? If yes, inline + provide accessibility requirements.
4. What kind of fallback suits this image best? Is text fallback better? or can it be a raster image? If the contents of the SVG contains text that is essential to convey meaning, text fallback might be the best option. For example: infographics.
5. What's best for performance?
6. If inlining is best, how does that affect the markup?
7. …

SUPPORTER

I FEEL
SMASHING

MEMBER

plan-smashing copy.svg

UNREGISTERED

plan-smashing copy.svg


```svg
<svg xmlns="http://www.w3.org/2000/svg" width="313.587" height="280.988" viewBox="0 0 313.587
280.988"><path stroke="#6D6F71" stroke-width=".805" stroke-miterlimit="10"
stroke-dasharray="2.4155,1.6104" d="M249.702 28.655c-5.932.794-12.04
1.574-17.794-.285-5.753-1.859-11.14-7.02-12.002-13.902-.256-2.038-.086-4.214.818-5.984
1.629-3.19 5.701-4.235 8.33-2.138 3.243 2.586 3.363 8.497 1.175 12.3s-5.975 5.892-9.694
7.373c-4.354 1.734-9.157 2.872-13.515 1.149-2.751-1.087-5.086-3.225-7.405-5.263-7.391-6.496-15.
793-12.578-25.052-12.56-7.56.014-14.888 4.304-19.988 10.804-5.101 6.5-8.064 15.047-9.051
23.778l1.616.233" fill="none"/><circle opacity=".2" fill="#FAAA61" cx="123.937" cy="166.616"
r="114.373"/><circle fill="#FAAA61" cx="123.937" cy="169.539" r="73.676"/><g fill="#fff"><path
opacity=".5" d="M198.533 181.172l-.319-8.42.483-.018.319 8.42zM201.241 166.277l.802
14.903.483-.022-.803-14.904zM205.584 161.467h.483v19.702h-.483zM209.681
181.182l-.317-23.494.482-.007.317 23.494zM224.778 170.296v-.488l-10.596.216v-14.239h-.482v25.38
3h.482v-5.634l10.596-.367v-.5l-10.596.376v-4.529zM178.114 162.703h25.673v.49h-25.673z"/><path
d="M173.33 152.494v-12.575l-2.614.08-4.022-.284-1.724-4.634-18.771.75v7.119l-9.96
1.6v-3.836h-2.054l.264-9.192-2.857-.073-.266 9.265h-1.215v-15.911h-11.45l-.425
14.811-2.15.153.115-9.39-2.849.223-.115
9.369-3.559.253h-.258v.018l-9.571.679v10.526h-.003l-.267.003.014.341-4.341 1.683-.314-4.124-.01
1-.246h-.008l-.248-3.255.277-.011-.021-.489-.294.012-1.679-21.999-15.94.354 1.384
15.899-17.069.187.978 10.804v.001l-13.239 1.47v5.87l-.603.008-.208-15.274-4.586.062-.933-67.944
-1.285.017-.182-13.22-.925-.61-.085-6.21s-8.581 3.045-9.77-16.657c0 0
.052-3.012-1.44-3.608l-.683-18.537-.276.004-.172 18.549c-1.476.637-1.342 3.646-1.342
3.646-.648 19.727-9.308 16.919-9.308 16.919l.085 6.209-.909.636.181 13.22-1.284.018.933
67.945-3.3.042.209 15.275-5.32.076.207 15.041-8.072.112.204 14.825
60.777-.834-.007-.531h112.356v-26.772l.998 20.829.519-.022-1.373-28.67-.144.005z"/></g><g
opacity=".46"><path fill="#939598" d="M173.33
139.918l-2.615.081-4.022-.284-1.724-4.634-18.77.75v7.119l-9.96
1.6v-3.836h-6.129v-15.911h-11.45l-.425 14.811-18.387 1.304v10.771l-4.598
1.783-2.298-30.112-15.94.355 1.384 15.899-17.068.186.979 10.806-13.24 1.47v35.048h124.263z"/><
```

```svg
<svg width="318.029" height="267.921" viewBox="0 0 318.029 267.921"
aria-describedby="title">
    <title>Supporter Plan</title>
    <image xmlns:xlink="http://www.w3.org/1999/xlink" width="100%"
    height="100%" x="0" y="0" xlink:href="/images/
    plan-supporter-no-text.svg"></image>


</svg>
```

```svg
<svg width="318.029" height="267.921" viewBox="0 0 318.029 267.921"
aria-describedby="title">
    <title>Supporter Plan</title>
    <image xmlns:xlink="http://www.w3.org/1999/xlink" width="100%"
    height="100%" x="0" y="0" xlink:href="/images/
    plan-supporter-no-text.svg"></image>

    <text x="173" y="50" font-size=".8em">SUPPORTER</text>
</svg>
```

```
svg text {
    font-family: $mija;
    fill: #fff;
    font-weight: bold;
}
```

Image credit: Dean Gorissen

SVG icons placed inline with the text can be sized to scale up and down with the text using text relative units.

```
figcaption {
    color: $grey;
    font-size: .8em;
    font-style: italic;
    padding: .75em 0;

    &::before {
        content: url('
        display: inline-block;
        height: 1em;
        width: 1em;
        margin-right: .6em;
    }
}
```

“

An icon font icon can inherit the same text color, making it more flexible.

-Jane Doe

```html
<svg width=".." height=".." viewBox="..">
  <path d=".." fill="currentColor"/>
</svg>
```

```css
figcaption svg {
    color: inherit;
}
```

Sara Soueidan in Articles
2015/07/16 · 45 Comments

Styling SVG <use> Content with CSS

An in-depth article on how to style the contents of the SVG <use> element and overcome some challenges it brings.

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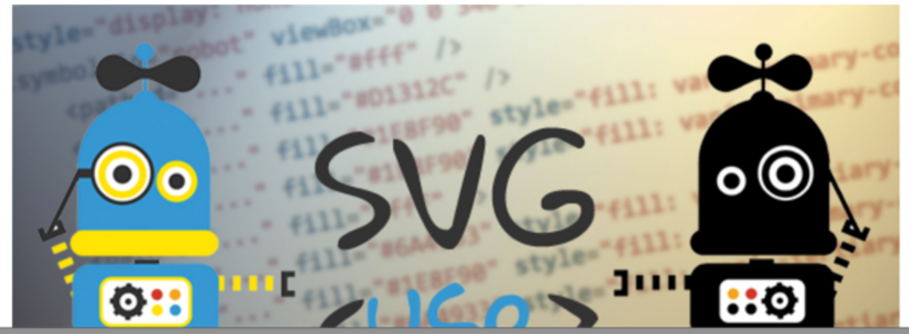

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TYPOGRAPHY

CONTROLLING RATE OF SCALE

calc() & Viewport Units

vh, vw, vmin, vmax

> Viewport-percentage lengths are relative to the size of the initial containing block, or *the viewport*, which is the visible part of the document inside the browser. **When the height or width of the viewport is changed, they should be scaled accordingly.**

zKvwXQ

A PEN BY Sara Soueidan

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HTML

```html
<h1>Scalable Heading</h1>
```

CSS

```css
body {
  padding: 30px;
}

h1 {
  font-size: 10vw;
}
```

JS

```
```

Scalable Heading

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```
:root{
  font-size: calc(16px + 3vw);
}
```

> It appears that by using calc() and vw we can get responsive typography that scales perfectly between specific pixel values within a specific viewport range.
>
> This means you can have perfect smooth scaling between any 2 font sizes over any viewport range. The font will start scaling and stop scaling exactly where you want.

-Mike Riethmuller

min font size

min screen size

```
font-size: calc( 16px + (24 - 16) * (100vw - 400px) / (800 - 400) );
```

max font size - min font size

max screen size - min screen size

codepen.io/MadeByMike/pen/YPJJYv?editors=110

Precision responsive typography

A PEN BY Mike

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HTML

```html
<h1>Responsive Typography</h1>
<p>It appears that by using calc() and vw we can get responsive typography that scales perfectly between specific pixel values within a specific viewport range.</p>
<p>The problem with the common approach to responsive typography is that it is jumpy and requires a lot of media queries.</p>
<p>Viewport units are fluid but lack precise control over font-size.</p>
<p>Typically you might use a table like this to work out the range of font sizes across different resolutions.</p>
<table>
  <tbody>
    <tr>
```

CSS (SCSS)

```scss
// These values are the minimum and maximum viewport sizes to apply the font scaling
$min_width: 400;
$max_width: 800;
// These values represent the range of fon-tsize to apply
// These values effect the base font-size, headings and other elements will scale proportionally
$min_font: 12;
$max_font: 24;

:root { font-size: #{$min_font}px; }
```

Responsive Typography

It appears that by using calc() and vw we can get responsive typography that scales perfectly between specific pixel values within a specific viewport range.

The problem with the common approach to responsive typography is that it is jumpy and requires a lot of media queries.

Viewport units are fluid but lack precise control over font-size.

Typically you might use a table like this to work out the range of font sizes across different resolutions.

Viewport units:	**1vw**	**2vw**	**3vw**	**4vw**	**5vw**
Viewport size	**font-size in pixels**				
400px	4px	8px	12px	16px	20px
500px	5px	10px	15px	20px	25px

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caniuse.com/#feat=viewport-units

x | Feature: Viewport units: vw, vh, vmin, vmax

Viewport units: vw, vh, vmin, vmax - CR

Global 76.03% + 7.57% = 83.6%

Length units representing 1% of the viewport size for viewport width (vw), height (vh), the smaller of the two (vmin), or the larger of the two (vmax).

Current aligned | Usage relative | Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			49					4.4	
8	[2] 13	47	51			9.2		4.4.4	
[2] 11	[2] 14	48	52	9.1	39	9.3	all	51	51
		49	53	10	40				
		50	54	TP	41				
		51	55						

Notes | Known issues (11) | Resources (7) | Feedback

[1] Partial support in IE9 refers to supporting "vm" instead of "vmin".

[2] Partial support refers to not supporting the "vmax" unit.

[3] Partial support in iOS7 is due to buggy behavior of the "vh" unit (see workarounds: 1, 2).

Training Materials
Corporate training materials to teach soft skills training courses

Truly Fluid Typography With vh And vw Units

By Michael Riethmuller

May 10th, 2016 CSS, Responsive Web Design, Typography

32 Comments

Embracing fluid typography might be easier than you think. It has wide browser support, is simple to implement and can be achieved without losing control over many important aspects of design.

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```
line-height: calc(1.3em + (1.5 - 1.3) * ((100vw - 21em)/(35 - 21)));
```

blog.typekit.com/2016/08/17/flexible-typography-with-css-locks/

Adobe Typekit Blog

BLOG MENU

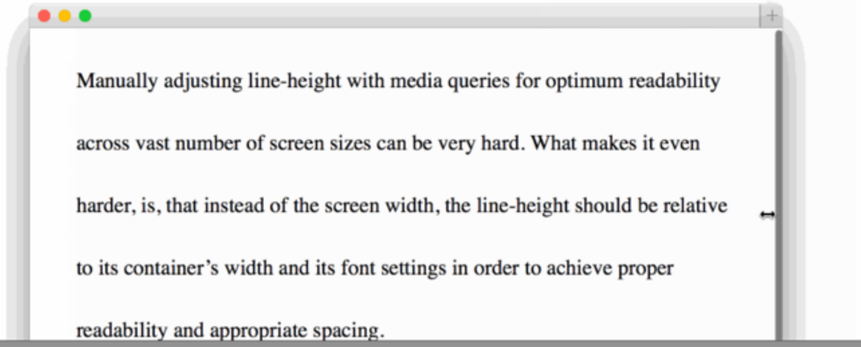
Flexible typography with CSS locks

Tim Brown · August 17, 2016 ·
Using Type

TIM BROWN

Head of Typography for Adobe Typekit & Adobe Type. Practicing typography and web design every day. I write, speak, and make tools to share what I learn. I try to be helpful. I love my wife, kids, family, friends, teachers, and dogs. I'm a volunteer firefighter.

In early 2012, I shared a formula for "molten leading", or fluid line spacing. Experienced typographers know that long lines of text need more line spacing, but line spacing can be tighter for short lines of text. The problem is that on the web, our texts are flexible. So our line spacing needs to flex, too:



The math of CSS locks

fvsch.com/code/css-locks/

Articles Code Photos

The math of CSS locks

September 2016

A CSS lock is a Responsive Web Design technique that lets you transition smoothly between two values, depending on the current viewport size, rather than jump straight from one value to the other.

This concept, and one implementation, were proposed by Tim Brown in Flexible typography with CSS locks.

When I tried wrapping my head around Tim's implementation, and creating variants of it, I had a hard time figuring out *what was going on exactly*. I did a lot of back-of-the-envelope calculations, and I thought it would be useful to share a mathematical explanation.

I'll describe the technique, its limitations, and the math that make it work. But don't worry about the math: it's basically addition and multiplication, and I've broken down the steps as much as possible—also there will be nice graphs.

TEXT UNDERLINES

CSS Gradients & Text Shadow

20 min ago

How to Roll Out New Features Without Hurting Loyal Users

by Vitaly Friedman

nin ago

ow to Roll Out
eatures Withou
yal Users

Vitaly Friedman

Marcin Wichary Follow
Designer/typographer at Medium · aresluna.org
Mar 18, 2014 · 10 min read

Crafting link underlines on Medium

How hard could it be to draw a horizontal line on the screen? It seems wrangling a few pixels together to stand in a file would be something computers should be pretty good at *anno domini twenty-fourteen*.

One would think so, but simple things are rarely simple under the surface… at least if they are worth anything. Typography, likewise, is a game of nuance. This is a story on how a quick evening project to fix the appearance of underlined Medium links turned into a month-long endeavour.

. . .

The history

Typography was never particularly fond of underlining. Do you want to emphasize your words? Grab some *italics* or use **bold**… hell, add some more

So, the ideal technological solution would allow us to:

- change the width of the line (with additional half-pixel/retina support),
- change the distance from the text,
- change the color (even if just to simulate thinner width by using lighter grays instead of black),
- clear the descenders,
- (perhaps) have a separate style for visited links.

CSS Underlines Suck

Posted on: January 31, 2015

Rebuilding my personal website, I was reminded of just how bad text underlining support is in CSS. After reviewing countless blog posts, Stack Overflow answers, and CSS design articles, I've put together a (hopefully useful) survey of various hacks and workarounds that you can use to make underlining suck less.

Just want to know what to use? Skip to the bottom of this article.

Writing this post I was reminded of an popular earlier article written by Marcin Wichary of Medium, where he attempted to craft the "perfect" cross-browser underline. He wrote:

> *So, the ideal technological solution would allow us to:*
>
> - *change the width of the line (with additional half-pixel/retina support),*
> - *change the distance from the text,*
> - *change the color (even if just to simulate thinner width by using lighter grays instead of black),*
> - *clear the descenders,*
> - *(perhaps) have a separate style for visited links.*

If you haven't read that article yet, do so now. I'll wait.

Throughout this article, I'll refer back to the Medium one, but this article covers more techniques, including libraries developed in response to Marcin's post.

The W3C has a spec that solves some of this, but browser support is still practically non-existent. Firefox has support with a prefix, and Chrome has support, but only if you have the experimental features enabled.

To quote a developer from that thread,

> *"So to a user, it doesn't work. An for a developer, using it is pointless, because noone will see it."*

W3C Editor's Draft

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2.2 Text Decoration Color: the 'text-decoration-color' property
2.3 Text Decoration Style: the 'text-decoration-style' property
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3 **Emphasis Marks**
3.1 Emphasis Mark Style: the 'text-emphasis-style' property
3.2 Emphasis Mark Color: the 'text-emphasis-color' property
3.3 Emphasis Mark Shorthand: the 'text-emphasis' property
3.4 Emphasis Mark Position: the 'text-emphasis-position' property

4 **Text Shadows: the 'text-shadow' property**

§ 2.5. Text Decoration Line Continuity: the 'text-decoration-skip' property

Name:	***'text-decoration-skip'***
Value:	none | [objects || spaces || ink || edges || box-decoration]
Initial:	objects
Applies to:	all elements
Inherited:	yes
Percentages:	n/a
Media:	visual
Computed value:	as specified
Canonical order:	per grammar
Animation type:	discrete

Note: Level 4 of this specification defines additional values ('leading-spaces' and 'trailing-spaces'), and uses them in the initial value of this property. At the time of writing, this is experimental and may still change, which is why it has not been incorporated into this level.

This property specifies what parts of the element's content any text decoration affecting the element must skip over. It controls all text decoration lines drawn by the element and also any text decoration lines drawn by its ancestors. Values have the following meanings:

'none'

Skip nothing: text-decoration is drawn for all text content and across atomic inline-level boxes.

2D

Intriguing styles, eh?

```
color: $blue;
text-decoration: none;
padding: .5em 0;
background-image: linear-gradient($blue, $blue);
background-repeat: no-repeat;
background-size: 100% 2px;
background-position: center bottom 30%;

text-shadow:
        3px 0 #fff,
        2px 0 #fff,
        1px 0 #fff,
       -1px 0 #fff,
       -2px 0 #fff,
       -3px 0 #fff;
```

```
color: $blue;
text-decoration: none;
padding: .5em 0;
background-image: linear-gradient(currentColor, currentColor);
background-repeat: no-repeat;
background-size: 100% 2px;
background-position: center bottom 30%;

text-shadow:
        3px 0 #fff,
        2px 0 #fff,
        1px 0 #fff,
       -1px 0 #fff,
       -2px 0 #fff,
       -3px 0 #fff;
```

20 min ago

How to Roll Out New Feature Without Hurting Loyal Users

by Vitaly Friedman

"Be agile, release early; release often." We know t drill. But is it strategically wise to keep rolling ou

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How to Roll Out New Features Without Hurting Loyal Users

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"Be agile, release early; release often." We know the drill. But is it strategically wise to keep rolling out

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Get actionable strategies for approaching your projects with page speed in mind, and learn how to test and benchmark which design choices are most critical.

```sass
@mixin underline( $shadow-color: #fff, $border-color: currentColor, $border-width: 1px ) {
    text-decoration: none;
    padding: .5em 0;
    background: linear-gradient($border-color, $border-color) no-repeat;
    background-size: 100% $border-width;
    background-position: center bottom 30%;

    text-shadow:
                 3px 0 $shadow-color,
                 2px 0 $shadow-color,
                 1px 0 $shadow-color,
                -1px 0 $shadow-color,
                -2px 0 $shadow-color,
                -3px 0 $shadow-color;

    transition: color .1s ease-out;
}
```

```sass
@mixin white_on_red_link ($shadow-color: $red) {
    color: #fff;
    @include underline($shadow-color, $border-color: #fff);
}

@mixin grey_on_navy_link ($shadow-color: $navy) {
    color: #9A97A9;
    @include underline($shadow-color, $border-color: #9A97A9);
}
```

Underline

Create beautiful underlines à la Medium! Now with the ability to clear descenders!

@include underline([$background, $color, $clear-descenders, $distance, $width])

Settings

- `'underline background': #f00`
- `'underline color': #00e`
- `'underline clear descenders': true`
- `'underline distance': 1` (unitless number)
- `'underline width': 2` (unitless number)
- `'underline extend': false`

Target

Creates specially formatted comments for use with gulp-css-target

@include target($target) { @content }

Set Multiple

Applies the same property to multiple values.

@include set-multiple($value, $property-list);

```
.box {
  @include set-multiple(50%, width height);
}
```

[redacted] wrote

```
a::-moz-selection,
a > *::-moz-selection,
span::-moz-selection,
span > *::-moz-selection {
    text-shadow: none;
}
a::selection,
a > *::selection,
span::selection,
span > *::selection {
    text-shadow: none;
}
```

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How to Roll Out New Features Without Hurting Loyal Users

by Vitaly Friedman

“Be agile, release early; release often.” We know the drill. But is it strategically wise to keep rolling out new features oftem? Especially once a product you're building reaches a certain size, you probably don't want to risk the integrity of your application with every new minor release.

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How to Roll Out New Features Without Hurting

```html
<a href="#">
    Parent
    <a href="#">
        Child
    </a>
    another child
</a>
```

```html
<a href="#">
    Parent
    <a href="#">
        Child
    </a>
    another child
</a>
```

```html
<a href="#">
    Parent
    </a><a href="#">
        Child
    </a>
    another child
</a>
```

```html
<a href="#">
    Parent
    <object type="just/kidding">
        <a href="#">
            Child
        </a>
    </object>
    Another child
</a>
```

“after wrapping any HTML with such attributeless <object> we would get just a wrapper element for this content. But a wrapper with an unusual trait: any content inside of it would be treated by browser’s parser without looking at the object’s context. So, using this trait we can, finally, nest one link into another, separating them for a parser.

-Roman Komarov

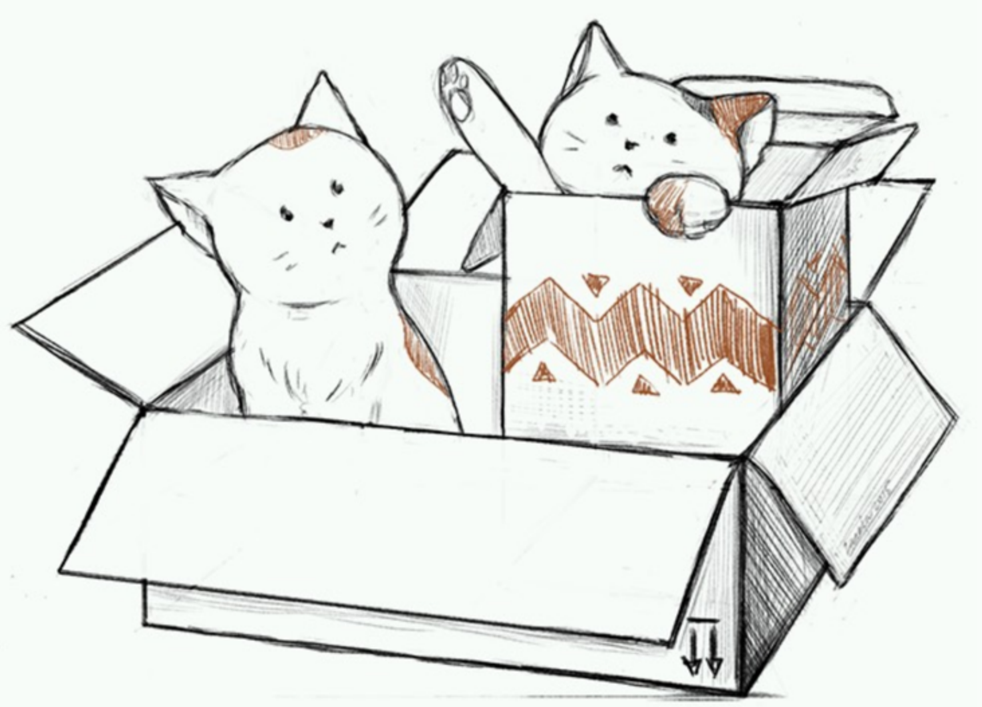
Nested Links

kizu.ru/en/fun/nested-links/

Roman Komarov

— in English
— по-русски

Nested Links



Quasi-nested links - JSFiddle

jsfiddle.net/csswizardry/rxsna/

Run Update Fork Tidy Collaborate Embed Settings Sign in

Fiddle Author

csswizardry

Fiddle Meta

External Resources

AJAX Requests

Legal, Credits and Links

JSFiddle Roadmap
suggest and vote for features

HTML

```html
<div class="post-link">

    <p>Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, <a href="https://www.google.com">feugiat vitae</a>, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit amet est et sapien ullamcorper pharetra. Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi. <a href="http://www.apple.com/">Aenean fermentum</a>, elit eget tincidunt condimentum, eros ipsum rutrum orci, sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis. Ut felis. Praesent dapibus, neque <a href="https://www.facebook.com/">id cursus faucibus</a>, tortor neque egestas augue, eu vulputate magna eros eu erat. Aliquam erat volutpat. Nam dui mi, tincidunt quis, accumsan porttitor, facilisis luctus, metus.</p>

    <a href="http://csswizardry.com/2013/02/introducing-csswizardry-grids/" class="post-link__read-more">Read more&hellip;</a>

</div>
```

JAVASCRIPT

```javascript
/**
 * Provide a large 'read more' hit area for clicking anywhere in the article
 * excerpt whilst preserving the ability to click on links within the text of the
 * article itself.
 *
 * Check the URL in your status bar as you hover the text/links.
 */
```

SCSS

```scss
.post-link {
    position: relative;
    /**
     * Position any links in the post excerpt at the top of the `z-index` stack.
     */
    a {
        position: relative;
        z-index: 1;
    }
}

    /**
     * Stretch the 'read more' link over the whole of the post.
     * Hide the 'read more' link's text.
     */
    .post-link__read-more {
        top:    0;
        right:  0;
        bottom: 0;
        left:   0;
        overflow: hidden;
        text-indent: 100%;
        white-space: nowrap;

        /**
         * Needs a heightened specificity to trump `.post-link a`.
         * Stack it under all other links in the post text.
         */
        a& {
            position: absolute;
            z-index: 0;
        }
```

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit amet est et sapien ullamcorper pharetra. Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi. Aenean fermentum, elit eget tincidunt condimentum, eros ipsum rutrum orci, sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis. Ut felis. Praesent dapibus

Need developers yesterday? Let Toptal find you the right people, right now.

ads via Carbon

dui mi,

y-grids/"

JAVASCRIPT

he article

the text of the

```
16      * Stretch the 'read more' link over the whole of the post.
17      * Hide the 'read more' link's text.
18      */
19     .post-link__read-more {
20         top:    0;
21         right:  0;
22         bottom: 0;
```

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit amet est et sapien ullamcorper pharetra. Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi. Aenean fermentum, elit eget tincidunt condimentum, eros ipsum rutrum orci, sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis. Ut felis. Praesent dapibus, neque id cursus faucibus, tortor neque egestas augue, eu vulputate magna eros eu erat. Aliquam erat volutpat. Nam dui mi, tincidunt quis, accumsan porttitor, facilisis luctus, metus.

20 min ago

How to Roll Out New Features Without Hurting Loyal Users

by Vitaly Friedman

"Be agile, release early; release often." We know the drill. But is it strategically wise to keep rolling out new features oftem? Especially once a product you're building reaches a certain size, you probably don't want to risk the integrity of your application with every new minor release.

→

```
.article--grid__title {

    font-size: 1.1em;
    margin: 0 0 0.5em;

    a {
        position: static;

        /* makes the heading link cover the entire article item area */
        &:before {
            content: "";
            display: block;
            position: absolute;
            top: 0;
            left: 0;
            width: 100%;
            height: 100%;
            z-index: 0;
            width: calc(100% + 80px);
            height: calc(100% + 60px);
            height: 100%;
            padding: 30px 40px 0 40px;
            left: -40px;
            top: -30px;
            transition: background-color .1s ease-out;
            background-color: transparent;
        }
    }
```

```
a {
    position: relative;
    z-index: 1;
}
```

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THE LATEST

20 min ago

How to Roll Out New Features Without Hurting Loyal Users

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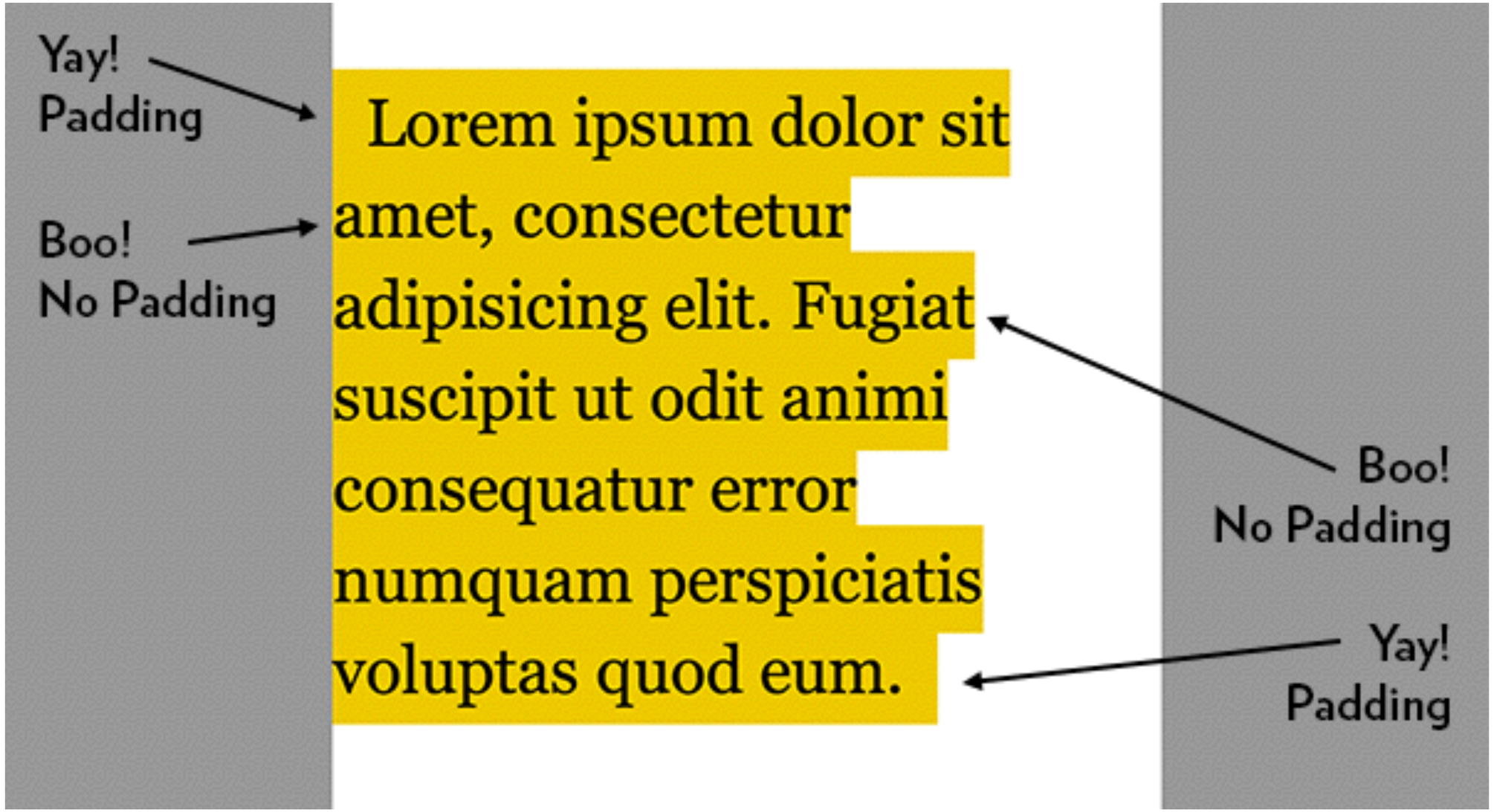
ADV

MULTI-LINE PADDED TEXT

THE PROBLEM


Yay!
Padding
Boo!
No Padding
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Fugiat suscipit ut odit animi consequatur error numquam perspiciatis voluptas quod eum.
Boo!
No Padding
Yay!
Padding

Multi-Line Padded Text

CHRIS COYIER // NOVEMBER 12, 2013

This is one of those tricky CSS things that I see come up every few months. I guess what better place to address it than CSS-Tricks eh?

The situation involves ragged-right inline text. Like when a paragraph of text breaks to the next line whenever the next word won't fit (i.e. most text on the internet). You want to add a background behind that text which:

>_ job board

codeBOX, LLC is hiring a Fun Compassionate Battle Hardened Senior Web Developer

Trade Skips is hiring a Front End Developer

X-Team International is hiring a Frontend Developer

See More Jobs Post a Job

box-decoration-break

W3C Candidate Recommendation

§ 5.4. Fragmented Borders and Backgrounds: the 'box-decoration-break' property

Name:	box-decoration-break
Value:	slice | clone
Initial:	slice
Applies to:	all elements
Inherited:	no
Percentages:	N/A
Media:	visual
Computed value:	as specified
Animatable:	no

When a break (page/column/region/line) splits a box, the 'box-decoration-break' property controls

- whether the box's margins, borders, padding, and other decorations wrap the broken edges of the box fragments
- how the background positioning area [CSS3BG] (and mask positioning area [CSS-MASKING-1], shape reference box [CSS-SHAPES-1], etc.) is derived from or duplicated across the box fragments and how the element's background is drawn within them.

Values have the following meanings:

clone

Each box fragment is independently wrapped with the border, padding, and margin. The 'border-radius' and 'border-image' and 'box-shadow', if any, are applied to each fragment independently. The background is drawn independently in each fragment of the element. A no-repeat background image will thus be rendered once in each fragment of the element.

> Note: Cloned margins are truncated on block-level boxes.

```
.featured-articles__teaser {

    span {
        background-color: #fff;
        padding: .3em .4em;
        line-height: 1.25em;
        box-decoration-break: clone;
    }
```

Don’t Miss These Articles on Smashing

z-index: 10;

Can I use... Support tables for

caniuse.com/#feat=css-boxdecorationbreak

x | Feature: CSS box-decoration-break

CSS box-decoration-break - WD

Global	7.31% + 73.73%	=	81.04%
unprefixed:	7.31% + 4.88%	=	12.19%

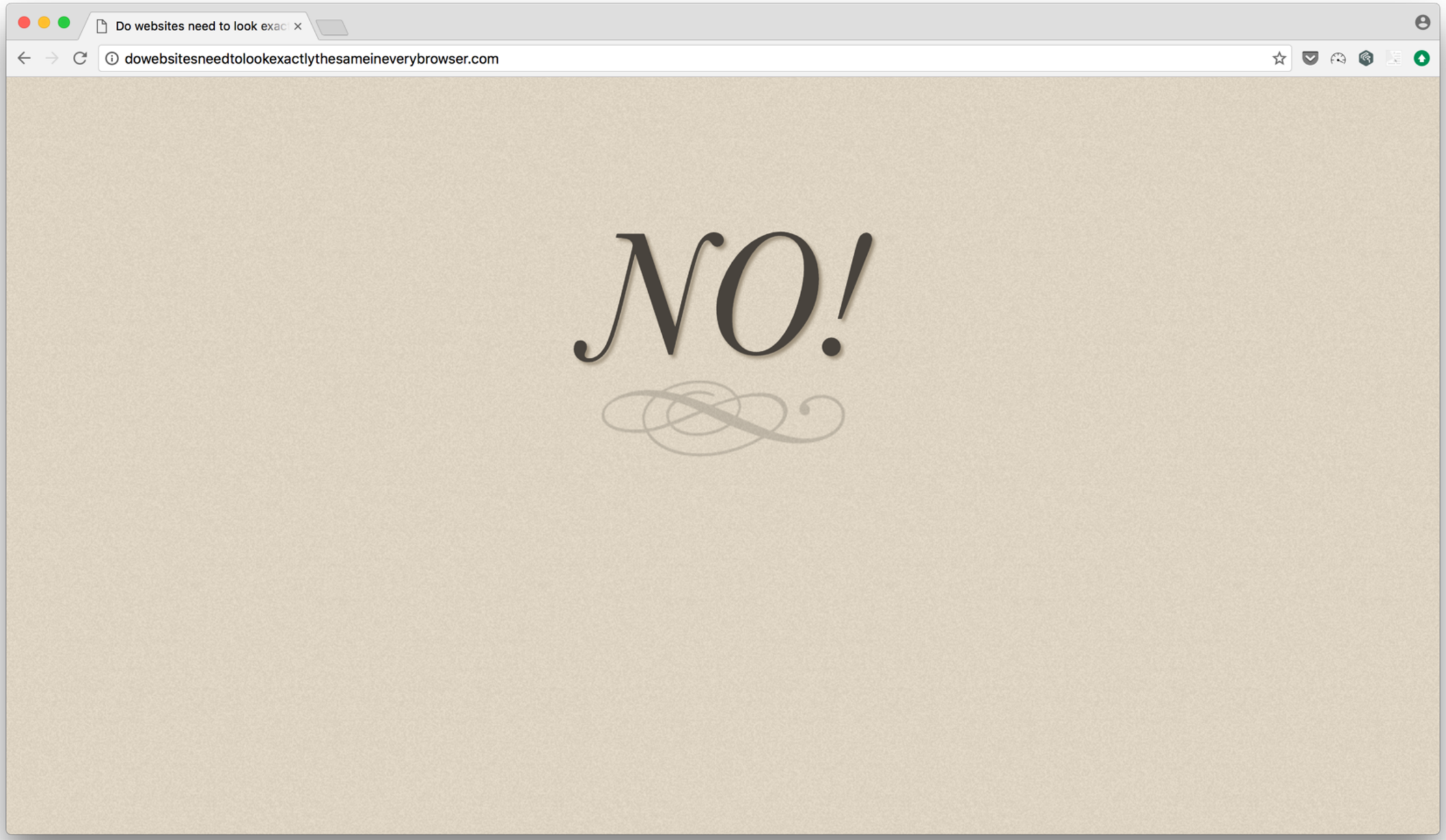
Controls whether the box's margins, borders, padding, and other decorations wrap the broken edges of the box fragments (when the box is split by a break (page/column/region/line).

Current aligned | Usage relative | Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			[1] 49					[1] 4.4	
8	13	47	[1] 51			[1] 9.2		[1] 4.4.4	
11	14	48	[1] 52	[1] 9.1	[1] 39	[1] 9.3	[1] all	[1] 51	[1] 51
		49	[1] 53	[1] 10	[1] 40				
		50	[1] 54	[1] TP	[1] 41				
		51	[1] 55						

Notes | Known issues (0) | Resources (4) | Feedback

[1] Partial support refers to working for inline elements but not across column or page breaks.


Do websites need to look exac
dowebsitesneedtolookexactlythesameineverybrowser.com
NO!

CUSTOM LIST BULLETS

with CSS Counters

list-style-type

> The list-style-type sets the appearance of list markers if the value of list-style-image—which can be used to set an image as a marker—is none or if the image it points to cannot be displayed.
>
> A list marker can have one of three types: glyphs (circle, disc, square), numbering systems, and alphabetic systems.

Disc:

- First Item
- Second Item
- Third Item

Circle:

- First Item
- Second Item
- Third Item

Square:

- First Item
- Second Item
- Third Item

decimal:

1. First Item
2. Second Item
3. Third Item

decimal-leading-zero:

01. First Item
02. Second Item
03. Third Item

lower-roman:

i. First Item
ii. Second Item
iii. Third Item

lower-latin (lower-alpha):

a. First Item
b. Second Item
c. Third Item

upper-latin (upper-alpha):

A. First Item
B. Second Item
C. Third Item

lower-greek:

α. First Item
β. Second Item
γ. Third Item

upper-roman:

I. First Item
II. Second Item
III. Third Item

georgian:

ა. First Item
ბ. Second Item
გ. Third Item

armenian:

Ա. First Item
Բ. Second Item
Գ. Third Item

none:

First Item
Second Item
Third Item

UNORDERED LIST

- Item 1
- Item 2
- Item 3
- Item 4
- Item 5

ORDERED LIST

01. The Search for the Holy Grail
02. **The Search for the Holy Grail**
03. **The Search for the Holy Grail**
04. The Search for the Holy Grail
05. This is a smashing link

CSS COUNTERS

“

Basically, it allows us to number a list of elements of any type, the same way ordered lists are numbered. Numbers are then incremented per element, and displayed as generated content using CSS pseudo-elements. Using the corresponding CSS property, you can initialize a counter(s), and then specify the increment value, which specifies by how much the counter should be incremented for every occurrence of the element.

View demo | Download source

When writing articles, blog posts, tutorials, magazine entries or anything else, you will often want to include some images, charts, photographs, or even videos and code snippets to illustrate your content.

That being said, you will most likely want to attach some kind of caption to these elements, and perhaps number them so your readers can keep track of your thoughts.

And that's exactly what we are going to do in today's tutorial: combining the usage of the `<figure>` element with CSS counters to make your inserted elements (especially images) sexy as hell!

WordPress Theme
Genogram
One of the many types of diagrams you can build with GoJS on HTML5 Canvas.
DreamTemplate
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5,000+ DESIGNS
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WORDPRESS THEME
BOOTSTRAP RESPONSIVE HTML TEMPLATES
Get RESPONSIVE HTML5/CSS3 CODED BY PROS!
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BEST wp theme 2016
Check out our deals & offers!
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②ality – JavaScript and more

Most popular (last 30 days)

ECMAScript 6 modules: the final syntax

Classes in ECMAScript 6 (final semantics)

ECMAScript 6's new array methods

The final feature set of ECMAScript 2016 (ES7)

Iterating over arrays and objects in JavaScript

ES proposal: Template Literal Revision

ES proposal: Function.prototype.toString revision

2012-01-12

Automatically numbering headings via CSS

Labels: css, dev, html

This post shows you how to number HTML headings with CSS. That is, given the following HTML.

```
<h1>My Article</h1>
<h2>Introduction</h2>
<h3>Rationale</h3>
<h2>Background</h2>
```

With the proper CSS, the above will be displayed as

My Article
1. Introduction
1.1. Rationale
2. Background

(Ad, please don't block.)

slack

All the tools your team needs in one place. Slack: Where work happens.

ads via Carbon

Dr. Axel Rauschmayer

```sass
ol {
  list-style: none;
  counter-reset: listCounter; // Custom bullets: Decimal Leading Zero... but without the dot.

  li {

    padding-left: 1.75em;

    counter-increment: listCounter; // for the custom bullets
    margin-bottom: 1em; // for the custom bullets

    /* Generate the list bullet */
    &::before {
        content: counter(listCounter, decimal-leading-zero);
        font-size: 0.5em;
        font-weight: bold;
        color: $red;
        font-family: Mija, Helvetica, Arial, sans-serif;
        margin-left: -2.5em;
        float: left;
    }
  }
}
```

CSS Reference
CONCEPT

Counters

e.g. mask-image

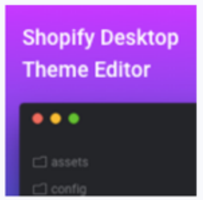
See also counter-increment counter-reset

CSS Counters provide us with a way to apply automatic numbering using CSS.

Basically, it allows us to number a list of elements of any type, the same way ordered lists are numbered. Numbers are then incremented per element, and displayed as generated content using CSS pseudo-elements. Using the corresponding CSS property, you can initialize a counter(s), and then specify the increment value, which specifies by how much the counter should be incremented for every occurrence of the element.

Counters can be useful for numbering sections in articles, for example, or figures (images), and for tables of

Advertisement



Join MDN and developers like you at Mozilla's View Source conference, 12-14 September in Berlin, Germany. Learn more at https://viewsourceconf.org

Using CSS counters

see all contributors

SEE ALSO
CSS
CSS Reference
CSS Lists and Counters
Guides
Consistent list indentation
Using CSS counters
At-Rules
@counter-style
Properties
counter-increment
counter-reset
list-style
list-style-image
list-style-position
list-style-type

CSS counters are, in essence, variables maintained by CSS whose values may be incremented by CSS rules to track how many times they're used. This lets you adjust the appearance of content based on its placement in the document. CSS counters are an implementation of Automatic counters and numbering in CSS 2.1.

The value of a counter is manipulated through the use of `counter-reset`. `counter-increment` can be displayed on a page using the `counter()` or `counters()` function of the `content` property.

IN THIS ARTICLE
Using counters
Nesting counters
Specifications
See also

Using counters

To use a CSS counter, it must first be reset to a value (0 by default). To add the value of a counter to an element, use the `counter()` function. The following CSS adds to the beginning of each h3 element "Section <the value of the counter>:".

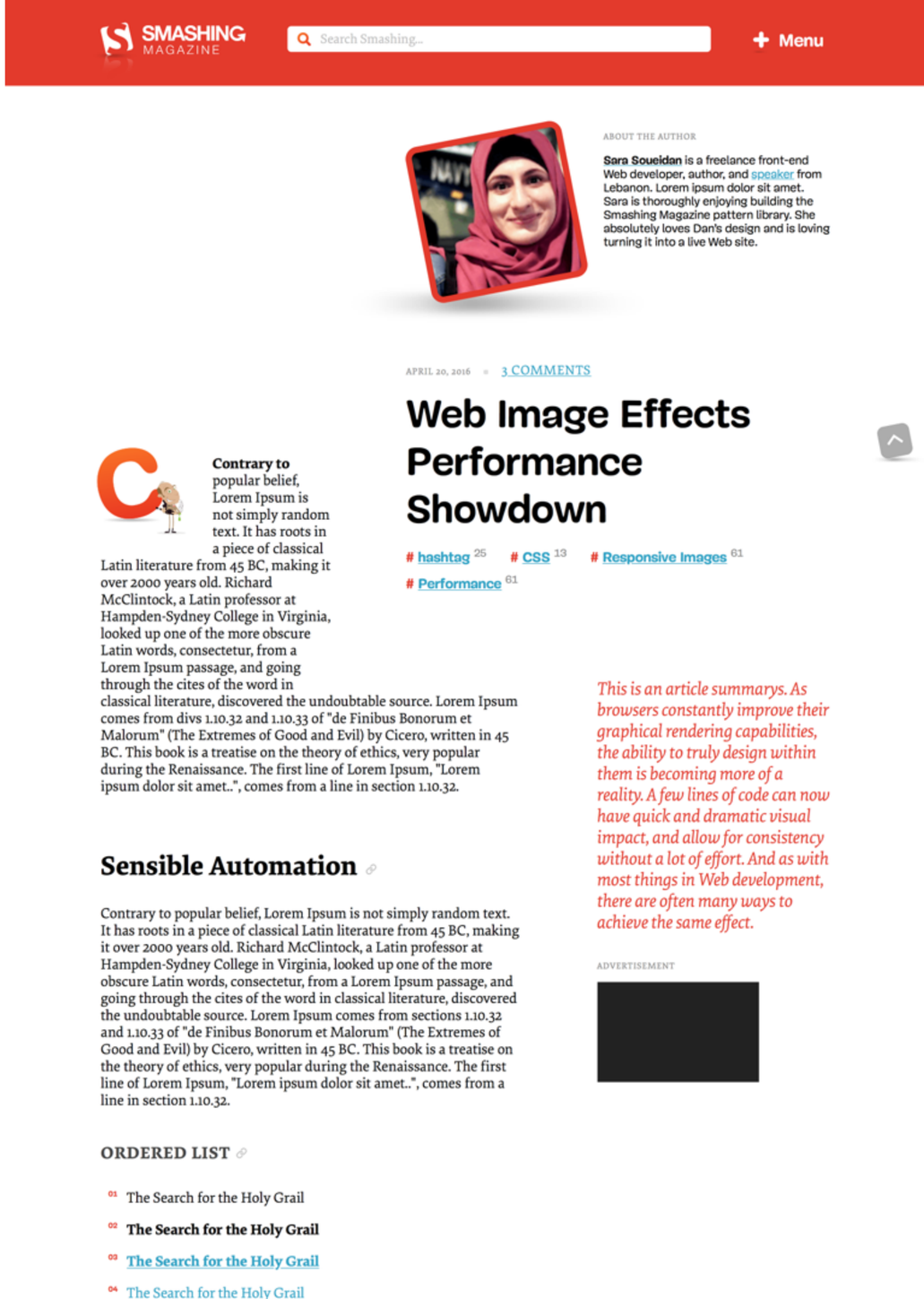
```
1  body {
2    counter-reset: section;                /* Set the section counter
3  }
4
5  h3::before {
6    counter-increment: section;            /* Increment the section co
```

LAYOUT

ARTICLE LAYOUT

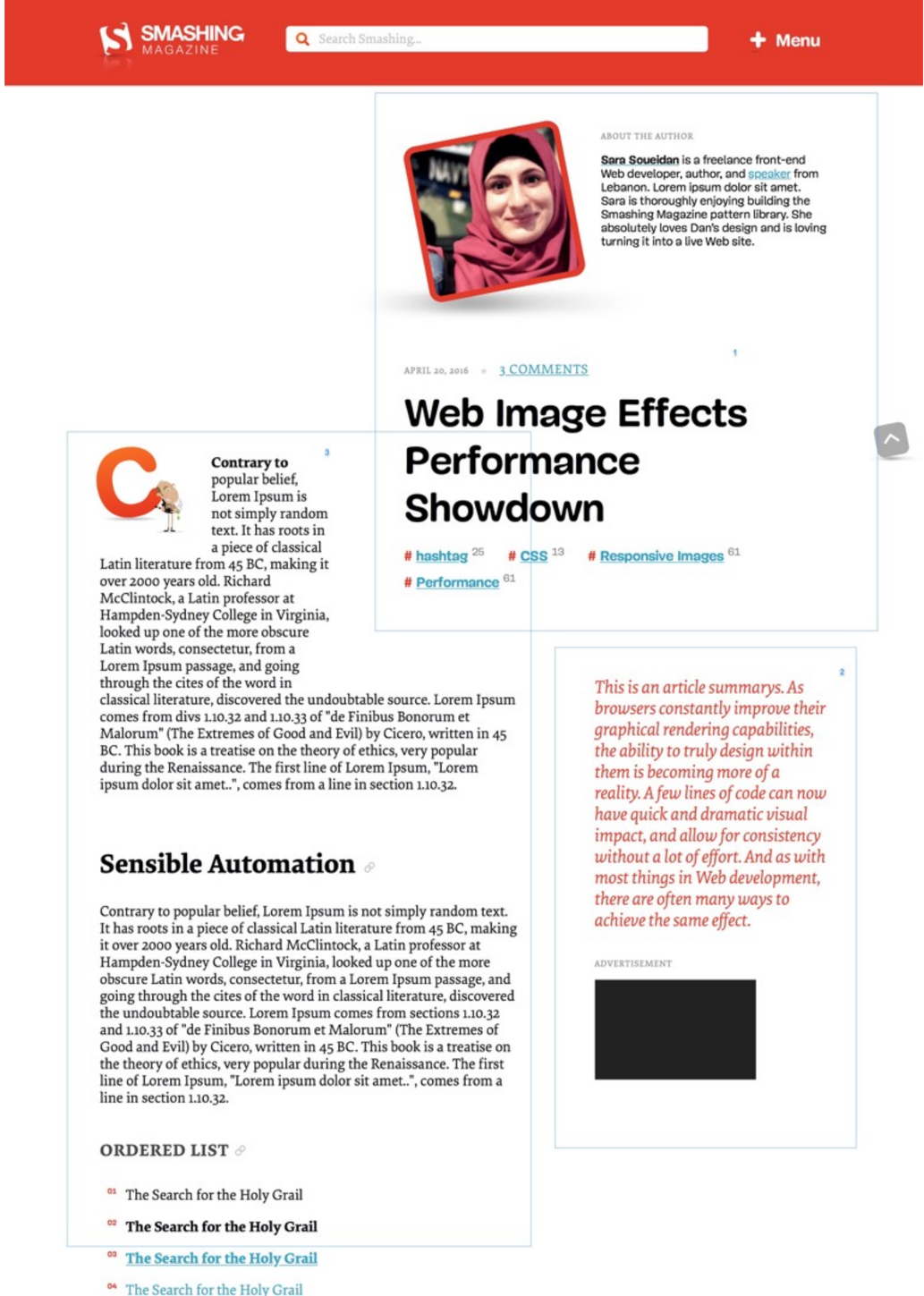
THE CHALLENGE

1. The order of the elements in the DOM needs to be logical and cannot be changed to accommodate the visual layout.
2. The content of the article in the DOM cannot be interrupted by any elements (e.g. s) for presentation-only purposes.



FIRST ATTEMPT

1. Float Section (1) to the right.
2. Float Section (2) to the right—different width.
3. ***Don't*** float Section (3)—let it wrap naturally around (1) and (2).
4. Add upper padding or margin to Section (3) to push it down to the same level of the heading as per the design.
5. TBC…



akQvJV

A PEN BY Sara Soueidan

Save | Fork | Settings | Change View

HTML

```
<section class="block" role="main">
  <div class="container">
    <div class="row">
      <div class="col-7 col--article-head">
        <div class="author">Author bio</div>
        <!-- </div> -->
        <header
```

CSS (SCSS)

```
93
94 .article__content {
95   float: none;
96   // overflow: hidden; /* needed to clear floats like this because
97  /* the other clearfix made it go all the way down because
98   it cleared the floats on both sides (or either side) */
```

JS

Author bio

Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of the word in classical literature, discovered the undoubtable source. Lorem Ipsum comes from divs 1.10.32 and 1.10.33 of "de Finibus Bonorum et Malorum" (The Extremes of Good and Evil) by Cicero, written in 45 BC. This book is a treatise on the theory of ethics, very popular during the Renaissance. The first line of Lorem Ipsum, "Lorem ipsum dolor sit amet..", comes from a line in section 1.10.32. Lorem ipsum dolor sit amet, consectetur adipisicing elit. Necessitatibus eum, earum asperiores repellat minima dolorem quo nemo doloribus modi, quae eveniet atque obcaecati praesentium, ut repellendus enim soluta sapiente amet!

Web Image Effects Performance Showdown

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Collections | Console | Assets | Comments | Delete | Keyboard

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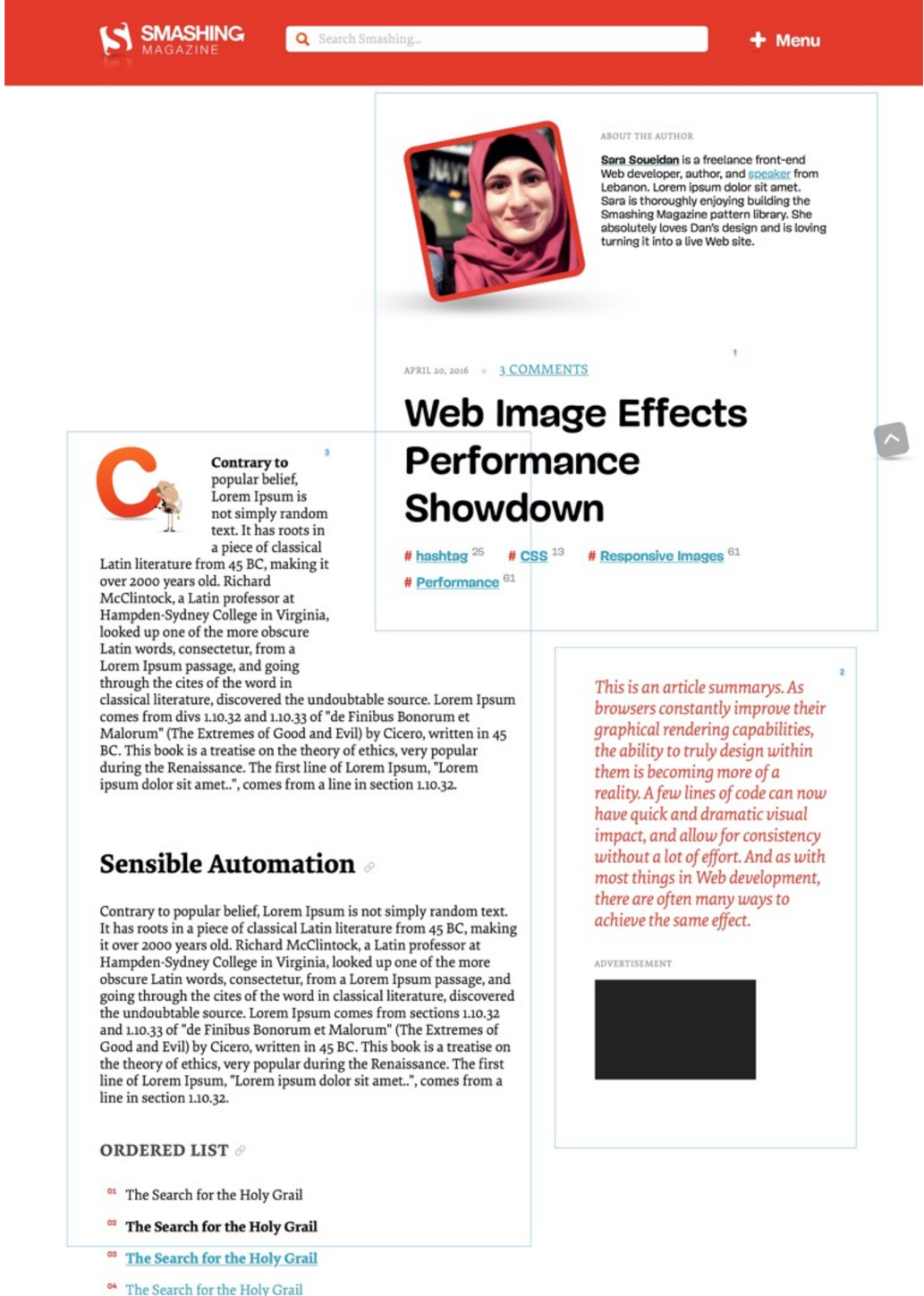
FIRST ATTEMPT

1. Float Section (1) to the right.
2. Float Section (2) to the right—different width.
3. ***Don't*** float Section (3)—let it wrap naturally around (1) and (2).
4. Add upper padding or margin to Section (3) to push it down to the same level of the heading as per the design.
5. **Float the drop caps.**



akQvJV

A PEN BY Sara Soueidan

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HTML

```html
<section class="block" role="main">
  <div class="container">
    <div class="row">
      <div class="col-7 col--article-head">
        <div class="author">Author bio</div>
        <!-- </div> -->
        <header
```

CSS (SCSS)

```scss
}
.drop-caps {
  width: 130px;
  margin: 0 20px 20px 0;
  float: left;

  img {
    max-width: 100%;
  }
}
```

JS

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Author bio

Web Image Effects Performance Showdown

Sensible Automation

Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of

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akQvJV

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HTML

```html
<section class="block" role="main">
  <div class="container">
    <div class="row">
      <div class="col-7 col--article-head">
          <div class="author">Author bio</div>
        <!-- </div> -->
          <header
```

CSS (SCSS)

```scss
/* STUFF I DID TO MAKE THE LAYOUT REACH THE POINT IT IS AT NOW */

.article__content {
  float: none;
  overflow: hidden; /* needed to clear floats like this because
 /* the other clearfix made it go all the way down because
  it cleared the floats on both
```

JS

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This is an article summary. Lorem ipsum dolor sit amet, consectetur adipisicing elit. Dolor, quo autem quod delectus. Quasi aliquid fugiat voluptatibus qui error maiores dicta neque eligendi, expedita at id eaque, impedit quos officia.

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“

Every time design needs to be changed because CSS is shit, a kitten dies somewhere.

-Lea Verou

PGPkYX

A PEN BY Sara Soueidan

Save | Fork | Settings | Change View

HTML

```
Repellendus vero atque quo
doloremque quas, ea? Mollitia
nobis dignissimos quisquam
reprehenderit.
Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
```

CSS (SCSS)

```
box-sizing: border-box;
}
.section-1 {
    width: 100%;
    overflow: hidden;
    padding: 20px 0;
}

.section-1__content {
  background-color: red;
  width: 400px;
  height: 300px;
}

.section-2 {
```

JS

Collections | Console | Assets | Comments | Delete | Keyboard

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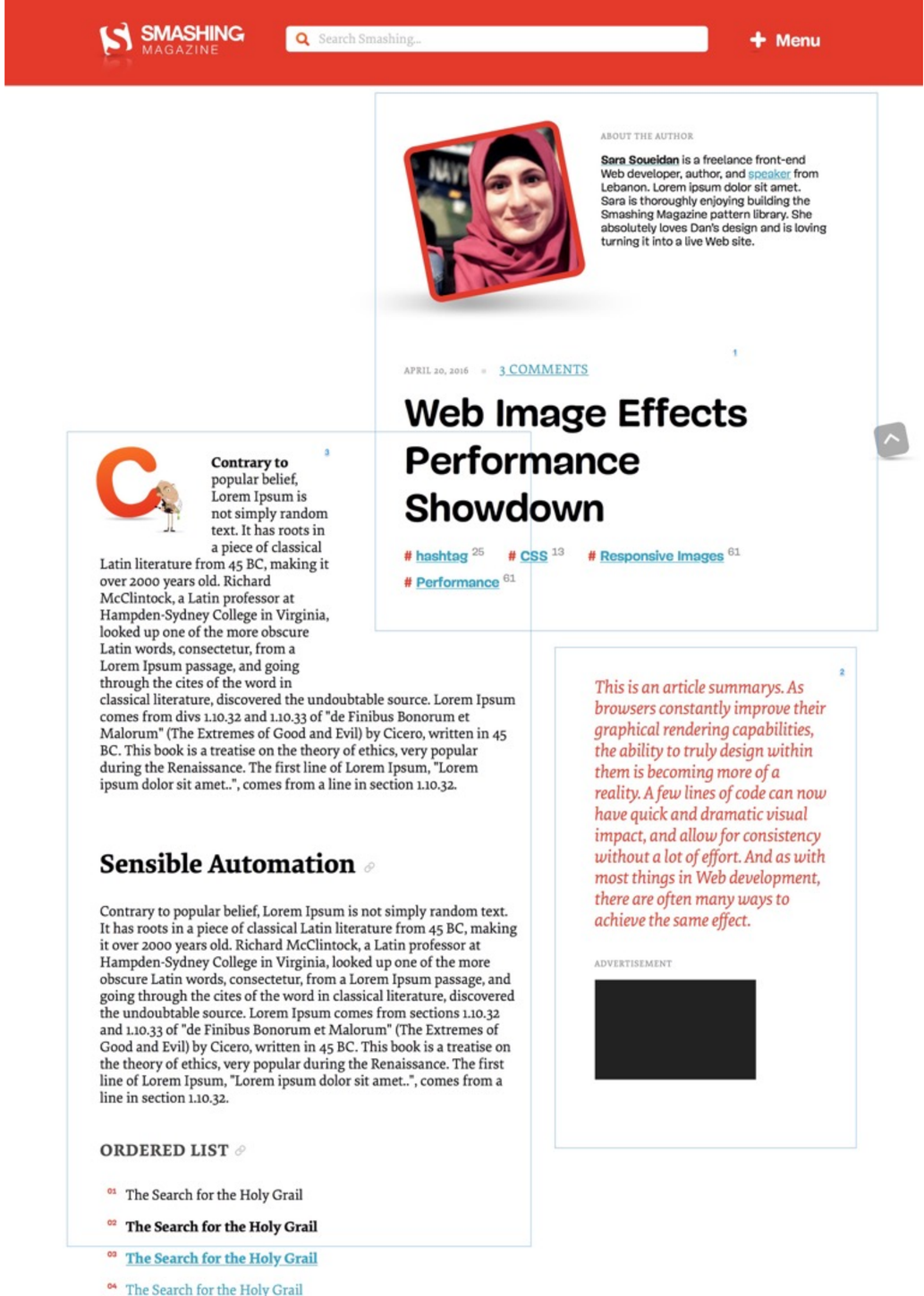
🔥😍😌😈🔥😎🤗😉💪🏻

1. Don’t float Section (1).
2. Float Section (2) to the right.
3. Float Section (3) to the left.
4. Pull Sections (2) and (3) up by applying a negative bottom margin to Section (1).
5. Push Section (2) back down using top margin.
6. Create pseudo-element inside Section (3) to create space where (3) overlaps with (1).



PULL-OUT COMPONENTS

Malorum" (The Extremes of Good and Evil) by Cicero, written in 45 BC. This book is a treatise on the theory of ethics, very popular during the Renaissance. The first line of Lorem Ipsum, "Lorem ipsum dolor sit amet..", comes from a line in section 1.10.32.

Smashing Job Board

User Experience Designer (f/m) - blogfoster GmbH - (Berlin, Germany) - Fulltime

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Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of

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REQUIREMENTS

- Pull the component out of the article's content flow.
- Make it fit into the "sidebar" width.
- Make the content that comes after the component flow where the component was flowing.
- Make component styles independent from parent context.

```
@media all and (min-width: 1024px) {
  width: 57%;
  margin-right: -74%;
  float: right;
}
```

1. Pull the component to the right using negative margin.
2. Fit it to “sidebar” width by giving it a specific width.
3. Allow rest of the article content to wrap around it by floating it. This changes the way the content that comes after the component will behave around it.

STRETCH-OUT COMPONENTS

May 26, 2016 — Be agile, release early, release often. We know the drill. But is it strategically wise to keep rolling out new features oftem? Especially once a product you're building reaches a certain size, you probably don't want to risk the integrity of your application with every new minor release.. Read More

4 min read

21 comments

If you can't get enough of this topic, our pal *Yoav Weiss* wrote an amazing chapter about the ins and outs of Responsive Images in Smashing Book 5. Get it today!

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```
width: 98vw;
position: relative;
left: 50%;
right: 50%;
margin-left: -49vw;
margin-right: -49vw;
```

```
width: 98vw;
position: relative;
left: 50%;
right: 50%;
margin-left: -49vw;
margin-right: -49vw;


-webkit-clip-path: inset(-50px 0 80px 0 round 11px);
        clip-path: inset(-50px 0 80px 0 round 11px);
```

caniuse.com/#feat=css-clip-path

x | Feature: CSS clip-path property

CSS clip-path property - CR

Method of defining the visible region of an element using SVG or a shape definition.

Global	0% + 76.45% =	76.45%
unprefixed:	0% + 7.71% =	7.71%

Current aligned | Usage relative | Show all

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
			[2] 49					[2] 4.4	
8	13	[1 3] 47	[2] 51			[2] 9.2		[2] 4.4.4	
11	14	[1 3] 48	[2] 52	[2] 9.1	[2] 39	[2] 9.3	all	[2] 51	[2] 51
		[1 3] 49	[2] 53	[2] 10	[2] 40				
		[1 3] 50	[2] 54	[2] TP	[2] 41				
		[1 3] 51	[2] 55						

Notes | Known issues (0) | Resources (3) | Feedback

[1] Partial support refers to only supporting the `url()` syntax.

[2] Partial support refers to supporting shapes and the `url(#foo)` syntax for inline SVG, but not shapes in external SVGs.

[3] Supports shapes behind the `layout.css.clip-path-shapes.enabled` flag

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Full Width Containers in Limited Width Parents

CHRIS COYIER // JULY 25, 2016

I bookmarked a tweet a few months ago, as it was a bonafide CSS trick and that's what we love around here.

The issue is: **how do we make a full-browser-width container when we're inside a limited-width parent?**

>_ job board

codeBOX, LLC is hiring a Fun Compassionate Battle Hardened Senior Web Developer

Trade Skips is hiring a Front End Developer

X-Team International is hiring a Frontend Developer

See More Jobs Post a Job

HEADS UP!

Viewport height is taller than the visible part of the document in some mobile browsers

18 février 2015
Web, Safari, iPhone, iPad, bug

When trying to use a `100vh` CSS value to build a new interface for a game that would use the full viewport, I discovered that this full height value meant the bottom of the game interface was partialy hidden behind the browser buttons bar or below the “fold” of some mobile browsers.

An issue with Apple iOS Safari

I first discovered this on my iPhone 5 and iPad 2.

Here is what this page looks like on an iPhone 5:

OVERFLOW-X: HIDDEN;

COMPONENT-LEVEL ENHANCEMENTS

with Flexbox

ABOUT THE AUTHOR

Sara Soueidan is a freelance front-end Web developer, author, and speaker from Lebanon. Lorem ipsum dolor sit amet. Sara is thoroughly enjoying building the Smashing Magazine pattern library. She absolutely loves Dan's design and is loving turning it into a live Web site.

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hashtag 25 # CSS 13 # Responsive Images 61 # Performance 61

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DISPLAY: FLEX;

FLEX-DIRECTION: COLUMN;

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by Vitaly Friedman

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EQUAL HEIGHT GRID ITEMS

```
.article--grid__container {
    display: flex;
    flex-wrap: wrap;
    @include clearfix;
}

.article--grid {
    display: flex;
    flex-direction: column;
```

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20 min ago

How to Roll Out New Features Without Hurting Loyal Users

```
.col--article--grid {

    &:nth-of-type(1) {
        order: 1;
    }
    &:nth-of-type(2) {
        order: 2;
    }
    &:nth-of-type(3) {
        order: 3;
    }

    &:nth-of-type(4) {
        order: 0;
    }

    &:nth-of-type(n+5) { // all items starting from the 5th one
        order: 4;
    }
}
```

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How to Roll Out New Features Without Hurting Loyal Users

```
/* TWO COLUMN GRID: Ad must be second in the list */

@media all and (min-width: 640px) {
    .col--article--grid {
        &:nth-of-type(1) {
            order: 1;
        }
        &:nth-of-type(2) {
            order: 3;
        }
        &:nth-of-type(3) {
            order: 4;
        }
        &:nth-of-type(n+5) {
            order: 5;
        }

        &:nth-of-type(4) {
            order: 2;
        }
    }
}
```

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How to Roll Out New Features Without Hurting Loyal Users

```
/* THREE COLUMN GRID: Ad must be second in the list */

@media all and (min-width: 1100px) {
    .col--article--grid {
        &:nth-of-type(1) {
            order: 1;
        }
        &:nth-of-type(2) {
            order: 2;
        }
        &:nth-of-type(3) {
            order: 4;
        }
        &:nth-of-type(n+5) {
            order: 5;
        }
        &:nth-of-type(4) {
            order: 3;
        }
    }
}
```

```
@media all and (min-width: 1440px) {
    .col--article--grid {

        &:nth-of-type(1) {
            order: 1;
        }
        &:nth-of-type(2) {
            order: 2;
        }
        &:nth-of-type(3) {
            order: 3;
        }
        &:nth-of-type(n+5) {
            order: 5;
        }
        &:nth-of-type(4) {
            order: 4;
        }
    }
}
```

INTERACTIONS & ANIMATIONS

CSS-ONLY SLIDE UP/DOWN

~~HEIGHT: AUTO;~~

.SLIDEUP()

.SLIDEDOWN()

SMASHING MAGAZINE

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Menu

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```
.element {
    max-height: 0;
    transition: max-height .4s ease-in-out;
}

.element.open {
    max-height: 1000px; /* element would sure be less than 1000px */
}
```

```
.enhanced .slideDown {
    max-height: 50em;
    transition: all .9s ease-out;

    &.main-nav {
        max-height: 50em;
    }

    &.search-loader-wrapper {
        max-height: 100px;
        transition-duration: .2s;
    }
}

.enhanced .slideUp {
    max-height: 0;
    transition: all .3s ease-out;

    &.search-loader-wrapper {
        transition-duration: 0.1s;
    }
}
```

“

When you set a max-height value, the element will animate visually only as far as its real height, but the transition time will be divided over the entire length specified.

EXAMPLE

Computed element height: 250px;

max-height: 1000px;

transition-duration: 400ms

Visual result: transition to 250px over a course of: (400 * 250) / 1000 = 100ms.

That is, the transition is faster than you initially wanted it to be.

To get a 400ms transition for the 250px height, you'll have to multiply the transition-duration by 1000/250 = 4.

```
.enhanced .slideDown {
    max-height: 50em;
    transition: all .9s ease-out;

    &.main-nav {
        max-height: 50em;
    }

    &.search-loader-wrapper {
        max-height: 100px;
        transition-duration: .2s;
    }
}

.enhanced .slideUp {
    max-height: 0;
    transition: all .3s ease-out;

    &.search-loader-wrapper {
        transition-duration: 0.1s;
    }
}
```

Responsive News — Cutting th ×

responsivenews.co.uk/post/18948466399/cutting-the-mustard

Responsive News

Where BBC News developers blog about responsive design.

Opinions expressed on this blog are those of the individual contributers, and are not necessarily those of the BBC as a whole.

Cutting the mustard

The browser is a hostile development environment and supporting a wide range of desktop browsers can be tough work.

One of the immediate challenges we discovered when we first started the responsive news prototype was the large range of devices that we would have to support. It terrified us. This article is about a solution we use to alleviate this problem.

Stats and market evolution

```
<script>
  /* if JS is enabled and the browser is modern enough, add "enhanced" class name to
  document (used for initially collapsing the navigation, for example) */
  (function(){
    if(!('querySelector') in document
       && "addEventListener" in window
       && "getComputedStyle" in window) {

      return;
    }

    window.document.documentElement.className += " enhanced";
  })();
</script>
```

```html
<a href="#menu" class="menu-trigger" id="menu-button" aria-controls="main-nav">
```

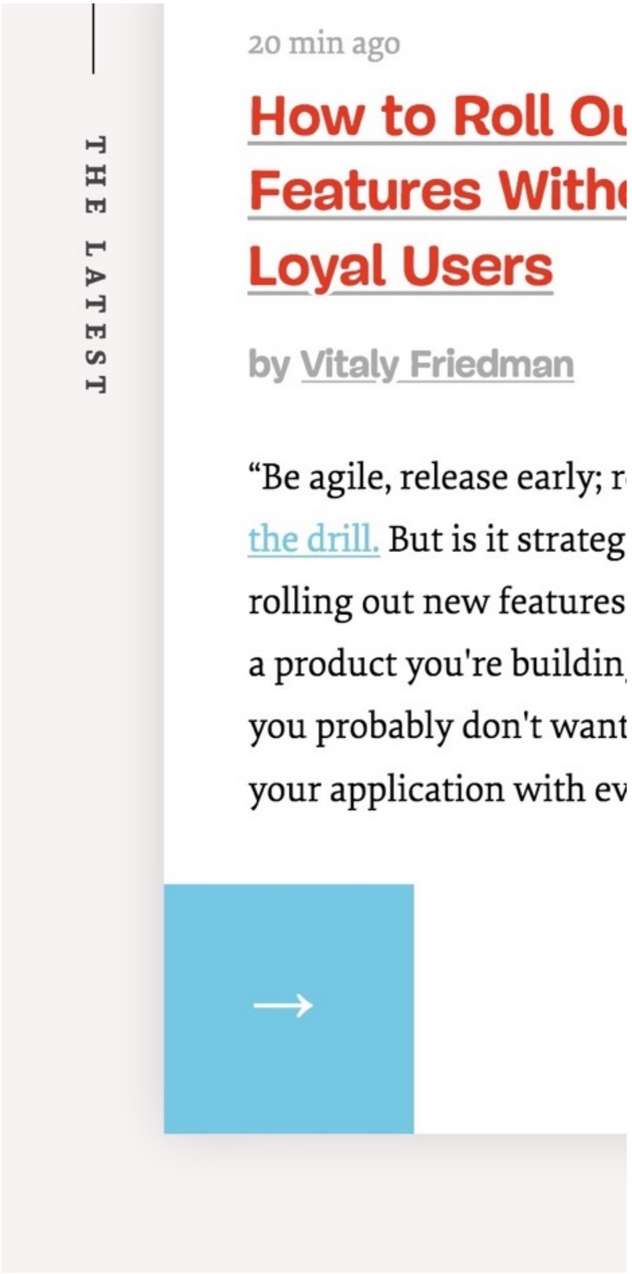
```
.main-nav__dropdown:target {
    display: block; // opens when the menu link is clicked

    .main-nav__list {
        display: block;
    }
}
```

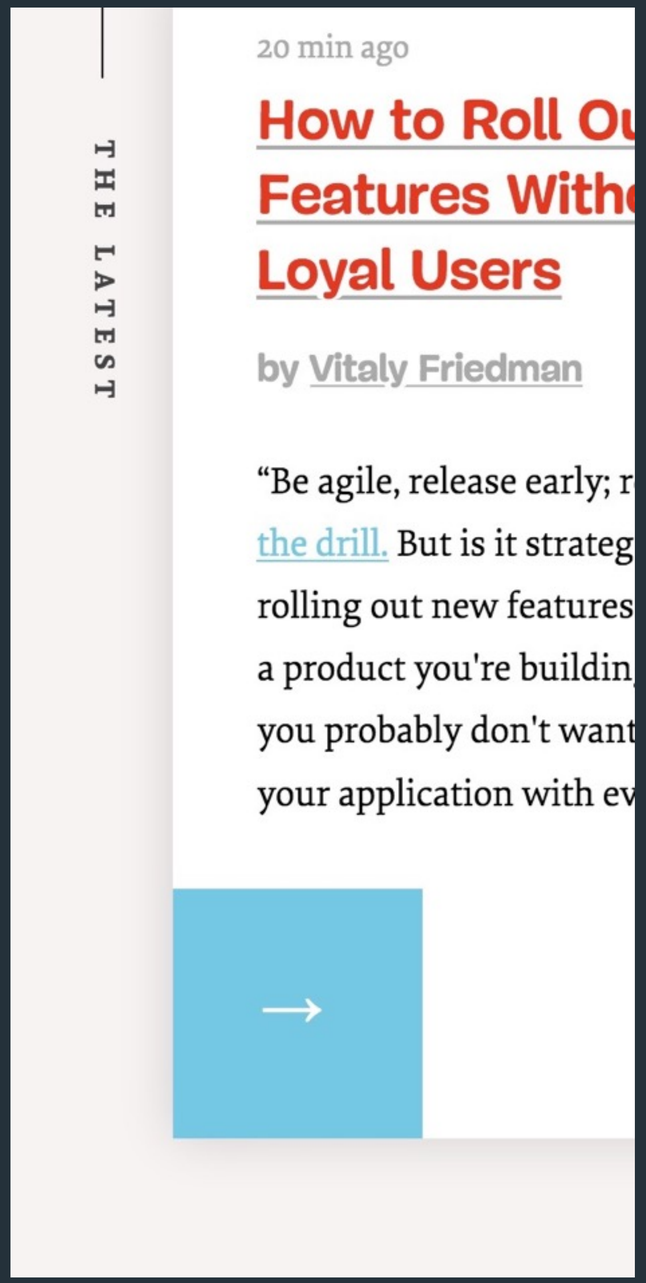
```
menu_button.addEventListener('click', function(e){
    e.preventDefault();
    this.classList.toggle('open');
    navigation_list.classList.add('slideUp');
```

A11Y:
SMALL STEPS, BIG DIFFERENCE

PROVIDE TEXTUAL CONTEXT FOR ICONS



- *Back to top buttons*
- *Read more buttons*
- *Comment up vote buttons*




```html
<a href="#" class="article--grid__read-more">
    &rarr;
    <span class="sr-only">Read more</span>
</a>
```

```css
.sr-only {
  display: inline-block;
  height: 0;
  width: 0;
  overflow: hidden;
}
```

ACCESSIBLE INLINE SVG

```
<div class="back-to-top-wrapper">
    <a href="#" class="back-to-top" title="Back to top">
        <svg viewBox="0 0 100 100" width="25px" height="25px" tabindex="-1"
             role="img" aria-labelledby="title">
            <title>Back to top</title>
            <image src="/images/back-to-top-arrow.png" xlink:href=""></image>
            <path d="M 10,50 L 60,100 L 70,90 L 30,50  L 70,10 L 60,0 Z" transform="translate(
            0 0) rotate(90 50 50)" fill="#fff" stroke="#fff"></path>
        </svg>
    </a>
</div>
```

INLINE SVG FALLBACK

```
<div class="back-to-top-wrapper">
    <a href="#" class="back-to-top" title="Back to top">
        <svg viewBox="0 0 100 100" width="25px" height="25px" tabindex="-1"
             role="img" aria-labelledby="title">
            <title>Back to top</title>
            <image src="/images/back-to-top-arrow.png" xlink:href=""></image>
            <path d="M 10,50 L 60,100 L 70,90 L 30,50  L 70,10 L 60,0 Z" transform="translate(
            0 0) rotate(90 50 50)" fill="#fff" stroke="#fff"></path>
        </svg>
    </a>
</div>
```

PROVIDE CLUES FOR CONTENT CHANGES

CATEGORY

Responsive Images

A client-side solution for delivering alternate image data based on device capabilities to prevent wasted bandwidth and optimize display for both screen and print.

RELATED

- SVG
- Retina Displays
- Design
- Performance

FEATURED

Responsive Images Done Very Right: A Guide to Using `<picture>` and `srcset`

```html
<input type="text" name="search" id="search-input" placeholder="Search Smashing..."
aria-controls="search-results" />
```

> The aria-controls attribute creates a cause and effect relationship. It identifies the element(s) that are controlled by the current element, when that relationship isn't represented in the DOM. For example a button that controls the display of information contained within a div.
>
> [...]
>
> The more widely the two elements are separated in the DOM, the more useful the aria-controls attribute becomes.

-Leonie Watson

“

When a User Agent (UA) supports aria-controls, it makes it possible for focus to be moved from the current element directly to the element it controls. The alternative is to navigate through all the intervening content in hopes of discovering what might have changed elsewhere on the page.

-Leonie Watson

```
<div class="header__search-results" id="search-results"
     aria-live="polite"
     aria-relevant="additions"
     aria-atomic="false" >
```

> A screen reader can only focus on one part of the page at a time. If something changes elsewhere on the page, there's a good chance a screen reader user will be oblivious to it. When the update takes place within an ARIA live region, a screen reader is automatically notified (wherever its focus is at the time), and it conveys the updated content to the user.

-Leonie Watson

combination fo both produces amazing results.

6 ▲ Reply

Jeremy Doe wrote — June 1, 2016 5:28 pm

Interesting article covering how to offer great support with the minimum effort.

The core of automation is that machines are good at identifying patterns and humans are good at conveying emotions. An effective combination fo both produces amazing results.

3 ▲ Reply

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ARIA Live Regions

see all contributors

Introduction

In the past, a web page change could only be spoken in entirety which often annoyed a user, or by speaking very little to nothing, making some or all information inaccessible. Until recently, screen readers have not been able to improve this because no standardized markup existed to alert the screen reader to a change. ARIA live regions fill this gap and provide suggestions to screen readers regarding whether and how to interrupt users with a change.

Simple Live Regions

Dynamic content which updates without a page reload is generally either a region or a widget. Simple content changes which are not interactive should be marked as live regions. Below is a list of each related ARIA live region property with a description.

1. **aria-live**: The aria-live=POLITENESS_SETTING is used to set the priority with which screen reader should treat updates to live regions - the possible settings are: off/polite/assertive. The default setting is 'off'. This attribute is by far the most important.
2. **aria-controls**: The aria-controls=[IDLIST] is used to associate a control with the regions that it controls. Regions are identified just like an ID in a div, and multiple regions can be associated with a control using a space, e.g. aria-controls="myRegionID1 myRegionsID2".

> Not known if the aria-controls aspect of live regions is implemented in current ATs, or which. Needs research.

Normally, only aria-live="polite" is used. Any region which receives updates that are important for the user to receive, but not so rapid as to be annoying, should receive this attribute. The screen reader will speak changes whenever the user is idle

IN THIS ARTICLE

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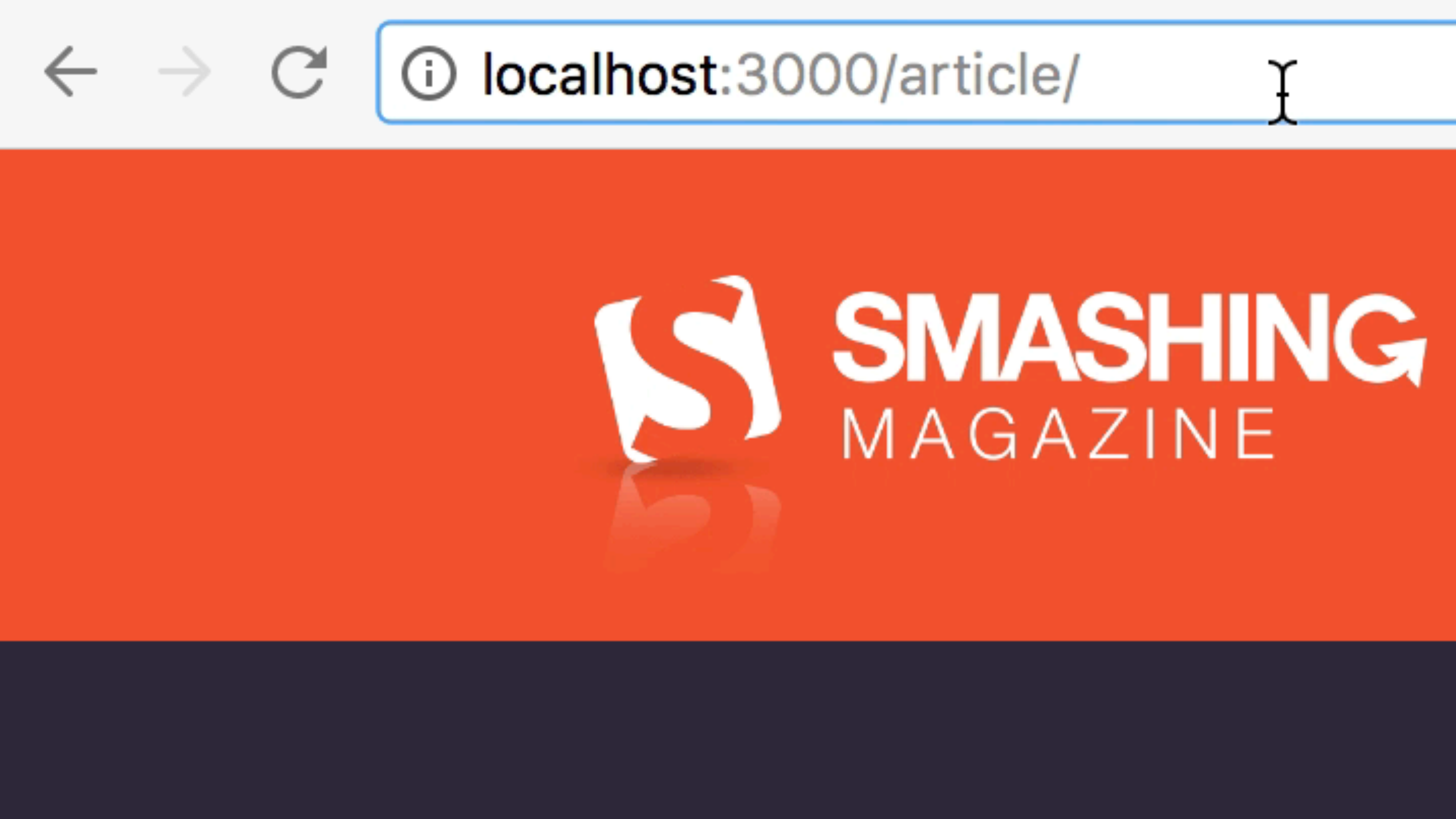
Simple Live Regions
Simple Use Case: combobox updates useful on-screen information
Preferring Specialized Live Region Roles
Advanced Live Regions
Advanced Use Case: Roster

PROVIDE CONTENT SHORTCUTS

“

The main content is not usually the first thing on a web page. Keyboard and screen reader users generally must navigate a long list of navigation links, sub-lists of links, corporate icons, site searches, and other elements before ever arriving at the main content. This is particularly difficult for users with some forms of motor disabilities.

-WebAIM


localhost:3000/article/
SMASHING
MAGAZINE

```html
<a href="#main" class="skip-main">Skip to main content</a>

<header class="main-header block">
```

```
.skip-main {
    left: -999px;
    position: absolute;
    top: auto;
    width: 1px;
    height: 1px;
    overflow: hidden;
    z-index: -999;
}

.skip-main:focus, .skip-main:active {
    color: $red;
    background-color: #fff;
    left: auto;
    top: auto;
    width: auto;
    height: auto;
    overflow: auto;
    padding: 0.5em 1em;
    text-align: center;
    font-size: 1.2em;
    z-index: 999;
}
```

"Skip Navigation" Links

Article Contents

- Overview
- Creating "Skip Navigation" Links
- Browser Quirks
- Multiple "Skip" Links
- Alternatives to "Skip Navigation" Links

Overview

The main content is not usually the first thing on a web page. Keyboard and screen reader users generally must navigate a long list of navigation links, sub-lists of links, corporate icons, site searches, and other elements before ever arriving at the main content. This is particularly difficult for users with some forms of motor disabilities.

Last updated: Oct 25, 2013

Translations

German

Related Resources

- Motor Disabilities
- Links and Hypertext
- CSS in Action: Invisible Content Just for Screen Reader Users
- Creating Accessible JavaScript
- Site Searches, Indexes, and Site Maps

- Don’t treat accessibility as an afterthought.
- Test accessibility on a component level.
- The foundation of accessibility is proper markup. Write something you would be able to understand when CSS is disabled. (E.g. pricing table markup)
- Ask suitable questions before deciding which HTML elements to use.
- Enhance.
- Document. (Hacks, unconventional/uncommon tricks, etc.

THANK YOU

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