

A woman with dark hair tied back is standing in a kitchen, wearing a white apron over a red and white patterned dress. She is looking down at a large silver mixing bowl on a stand mixer. In the background, there's a counter with various baking ingredients and tools, and a sign that reads "Max's Heavenly CupCakes".

sweet & *Sassy*
RESPONSIVE DESIGN



@minamarkham

Girl Develop It

don't be shy. develop it. 





sass
not SASS

Ingredients

Flexible Grids
Flexible Media
Media Queries

**“WHY SHOULD
I CARE?”**



Presentational Classes

Media Queries

Conditional Classes



A close-up, high-angle shot of a chocolate cake. The cake has a dark brown, moist texture with several white, swirled frosting patterns. The lighting is dramatic, coming from the side to create strong highlights and shadows on the cake's surface.

@mixins



Sass **friendly**

Mobile First

```
$ gem install foundation
```

Flexible Grids

```
<nav class="col8">
```

@include grid-column(2);

```
.hero-unit { @include grid-column(2); }  
.promo-unit { @include grid-column(4); }
```

```
<section class="hero-unit">  
<aside class="promo-unit">
```

Flexible Media

max-width: 100%

```

```

Interchange

```
<img data-interchange="[small.jpg,  
(default)], [small.jpg, (small)],  
[medium.jpg, (medium)]">
```

```
<noscript>  
  
</noscript>
```

Media Queries

@media

Every time you see 320px, 480px,
768px, 1024px used as breakpoint
values, a kitten gets its head bitten off
by an angel...or something like that.

– Brad Frost

device-in

content-out

Start with the small screen first,
then expand until it looks like shit.
Time for a breakpoint!

– *Stephen Hay*



```
@mixin mq($breakpoint, $query:  
'min-width', $type: 'screen') {...}
```

```
@if $no-mqs {  
  @if $no-mqs >= $breakpoint  
  { @content; }}
```

```
@else {  
  @media #{$type} and (#{$query}:  
    #{$breakpoint}) { @content; } }
```

\$small: 20em;

\$medium: 48em;

\$large: 90em;

```
@include mq($large) {...}
```

usage

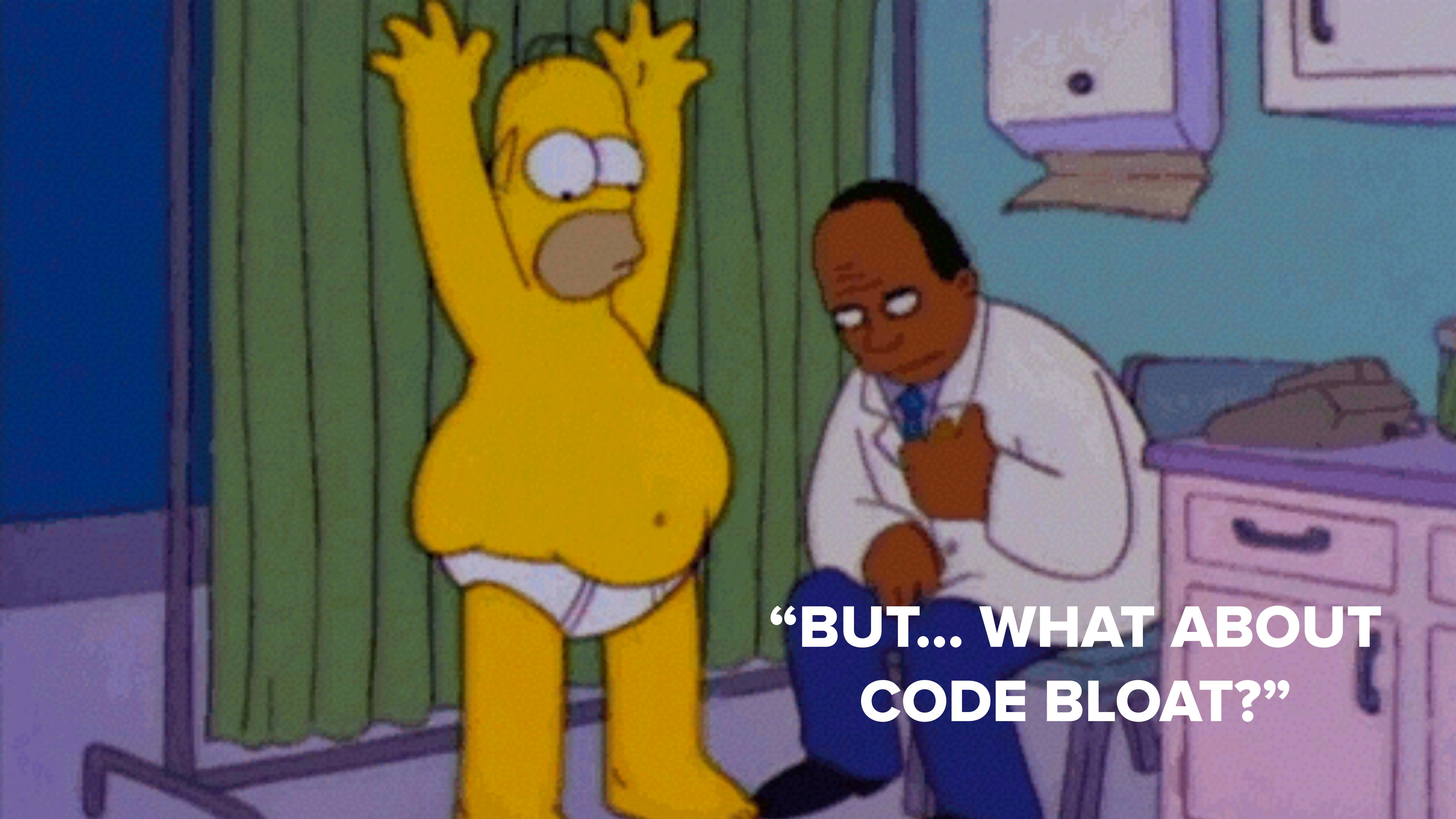
```
.hero-unit {  
  @include mq($small) {font-size: 1.2em;}  
  @include mq($large) {font-size: 1.5em;}  
  @include mq(30em) {font-size: 2em;} }  
  
.promo-unit {  
  @include mq($small) {font-size: 1.5em;}  
  @include mq($large) {font-size: 2em;}}
```

```
@media and screen and (min-width: 20em) {  
  .hero-unit {font-size: 2em;}}
```

```
@media and screen and (min-width: 20em) {  
  .promo-unit {font-size: 1.5em;}}
```

```
@media and screen and (min-width: 20em) {  
  .hero-unit {font-size: 2em;}}
```

```
@media and screen and (min-width: 20em) {  
  .promo-unit {font-size: 1.5em;}}
```



**“BUT... WHAT ABOUT
CODE BLOAT?”**

...we hashed out whether there were performance implications of combining vs scattering Media Queries and came to the conclusion that the difference, while ugly, is minimal at worst, essentially non-existent at best.

– Sam Richard

But...

Sass::MediaQueryCombiner

```
.hero-unit {  
  @include mq(20em) {font-size: 2em;}  
  @include mq(30em) {font-size: 2.5em;}}  
  
.promo-unit {  
  @include mq(20em) {font-size: 1.5em;}  
  @include mq(50em) {font-size: 2em;}}
```

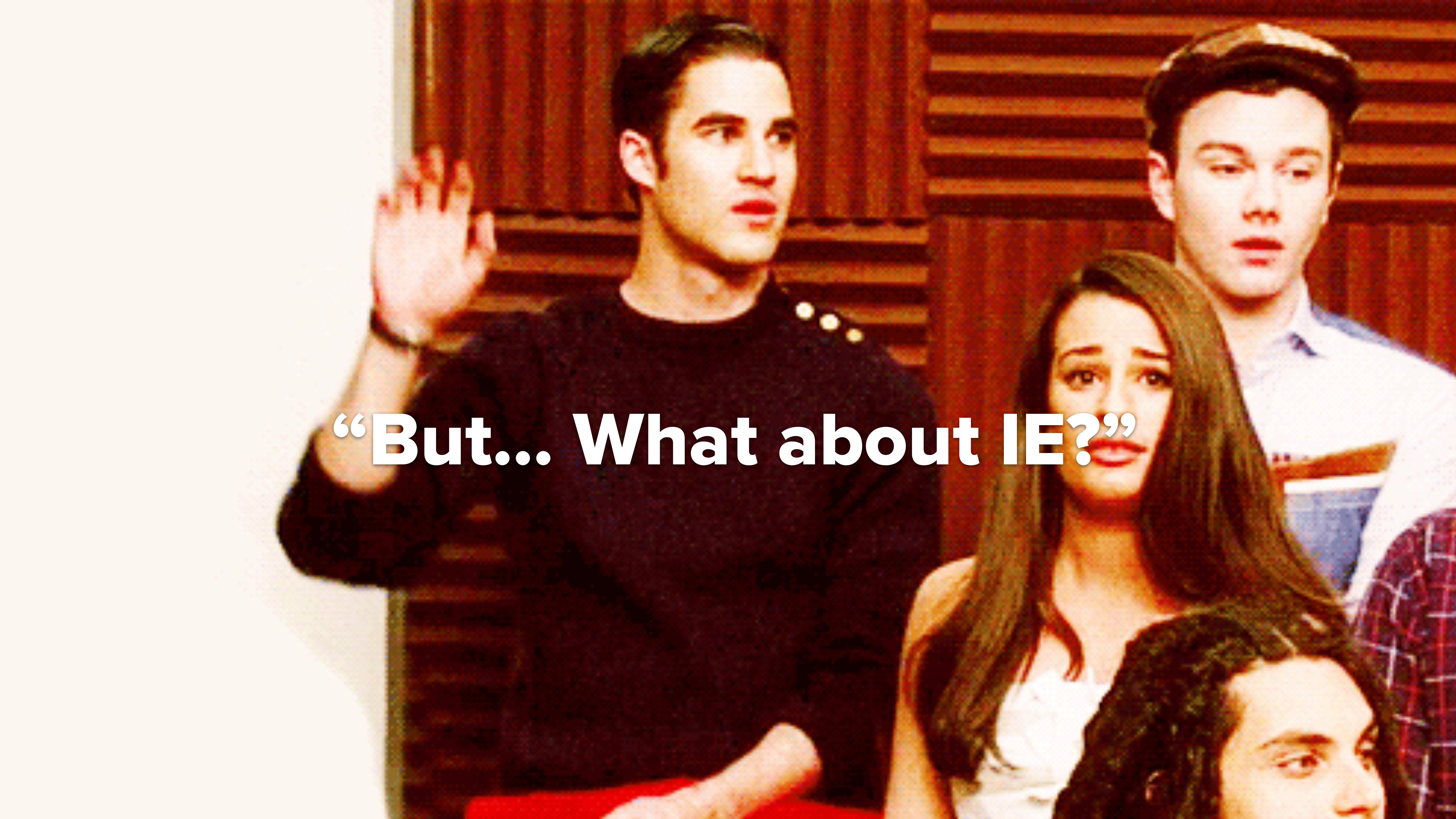
```
@media and screen and (min-width: 20em) {  
  .hero-unit {font-size: 2em;}  
  .promo-unit {font-size: 1.5em;}}
```

```
$ gem install  
sass-media_query_combiner
```

The Catch

Ruby 1.9.2
Untested on large-scale
Rearranges CSS

If your CSS doesn't look like
this, you're doing it wrong.

A photograph of a group of teenagers in a school hallway. In the foreground, a boy in a dark t-shirt is gesturing with his right hand, palm facing forward. Behind him, a girl with long brown hair and a white tank top looks towards the camera. To her right, another boy in a plaid shirt is partially visible. In the background, two more boys stand near a set of wooden double doors. The boy on the left wears a dark polo shirt and has his hands on his hips. The boy on the right wears a light-colored button-down shirt and blue jeans.

“But... What about IE?”



This is why we can't have nice things

\$no-mqs: false default!

\$old-ie: false default!

```
@mixin old-ie {  
  @if $old-ie { @content; }}}
```

\$no-mqs: 48em

\$old-ie: true

```
.foobar {  
  @include old-ie { ... } }
```



Baking it Up

```
.promo-unit {  
  @include grid-column(4);  
  @include mq(20em) {font-size: 2em;}  
  @include mq(30em) {font-size: 2.5em;}  
  font-size: 1.3em;  
  margin-top: 1em;  
  float: left;}
```

Quick Demo

Recap

Mixins FTW!

Dynamic Content

Modularize Styles

Resources

[Install](#)[Learn Sass](#)[Blog](#)[Documentation](#)[Get Involved](#)

Sass Basics

Before you can use Sass, you need to set it up on your project. If you want to just browse here, go ahead, but we recommend you go install Sass first. [Go here](#) if you want to learn how to get everything setup.

Pre-processing

CSS on its own can be fun, but stylesheets are getting larger, more complex, and harder to

TOPICS

[Preprocessing](#)[Variables](#)[Nesting](#)[Partials](#)[Import](#)[Mixins](#)

Foundation

The most advanced responsive front-end framework in the world.

[Download Foundation 5](#)

★ 17.6k stargazers  @ZURBfoundation



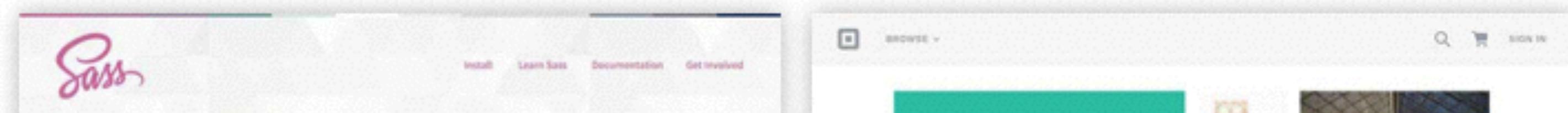
Power tools for the web

Version 2.1.1:  Changes  Upgrade Path  Code

YOUR MARKUP, YOUR DESIGN, YOUR OPINIONS | OUR MATH.

In a world of agile development and super-tablet-multi-magic-laptop-phones, the best layouts can't be contained in a single framework or technique. CSS Libraries are a bloated mess of opinions about how to do your job. Why let the table-saw tell you where to put the kitchen?

IN THE WILD



[GITHUB](#)[EXAMPLES](#)[DOCS](#)

A **lightweight** semantic **grid** framework for **Sass** and **Bourbon**.

<!-- HTML markup for the section right below this code block -->

```
<section>
```

```
    <aside>What is it about?</aside>
```

neat.bourbon.io/

```
    <article>Neat is an open source semantic grid framework built on top of Sass and Bourbon...</article>
```

The ™



Using source maps with Sass 3.3

Tem Hettler shows us how to use source maps to make debugging easier with Sass 3.3 and modern browsers like Safari, Chrome, and Firefox. [Read more...](#)

ADS BY FUSION

Host
Unlimited
Domains

Host Unlimited
Unlimited disk s
transfer for one
price.



SCSS

```
79    text-decoration: none;
80    text-shadow: 0 1px 1px rgba(0,0,0,.1);
81    transition: all linear 0.1s;
82  }
83
84  .nav-subtitle {
85    color: rgba(255,255,255,.75);
86    display: block;
87    font-family: Georgia, "Times New Roman", Times, serif;
88    font-size: .7rem;
89    font-style: italic;
90    line-height: 1rem;
91    max-width: 260px;
92  }
93
94  @media (min-width: 990px) {
95    .nav-item > a {
96      max-width: 500px;
97      font-size: 1.7rem;
98      line-height: 2rem;
99    }
100
101  .nav-subtitle {
102    margin: 4px 0 0;
103  }
104 }
```

CSS

```
1  * {
2    margin: 0;
3    padding: 0;
4  }
5
6  /*NAV*/
7  .top-bar {
8    background: linear-gradient(to left, rgba(54, 194, 182, 0.96) 0, rgba(
9    border-bottom: 1px solid rgba(0, 0, 0, 0.1);
10   box-shadow: 0 1px 1px 0 rgba(0, 0, 0, 0.1);
11   display: block;
12   position: fixed;
13   width: 100%;
14   z-index: 1000;
15   font-family: 'Helvetica Neue', Helvetica, Arial, sans-serif;
16   font-size: 1.05em;
17   font-weight: 400;
18   line-height: 1.6rem;
19 }
20
21  .nav {
22   display: flex;
23   flex-wrap: wrap;
24   justify-content: flex-start;
25   list-style: none;
26   margin: 0;
```



mina.so/sassy-rwd

thanks!

@minamarkham



credits & such

7 Habits of Highly Effective Media Queries

<http://bradfrostweb.com/blog/post/7-habits-of-highly-effective-media-queries/>

Responsive Web Design in Sass: Using Media Queries in Sass 3.2 <http://thesassway.com/intermediate/responsive-web-design-in-sass-using-media-queries-in-sass-32>

Yes, you really can make complex webapps responsive

<http://adioso.com/blog/2013/06/responsifying-adioso/>

Sass & Media Queries | <http://sasscast.tumblr.com/post/38673939456/sass-and-media-queries>

Sass Style Guide | <http://css-tricks.com/sass-style-guide/>

Sass Globbing | <https://github.com/chriseppstein/sass-globbing>

Sass Media Query Combiner | https://github.com/aaronjensen/sass-media_query_combiner

Media Query Test | http://aaronjensen.github.io/media_query_test/

Media Query Mixin | <https://gist.github.com/Snugug/2490750>



**SCREAMING
INTERNALITY**

Namespacing





the almighty ampersand

```
.btn {  
  &:hover {...}  
}
```

.btn:hover {...}

```
.btn {  
    form & {...}  
}
```

```
form .btn {...}
```

&- or &
_

```
.btn {  
  &-secondary {...}  
  &_secondary {...}  
}
```

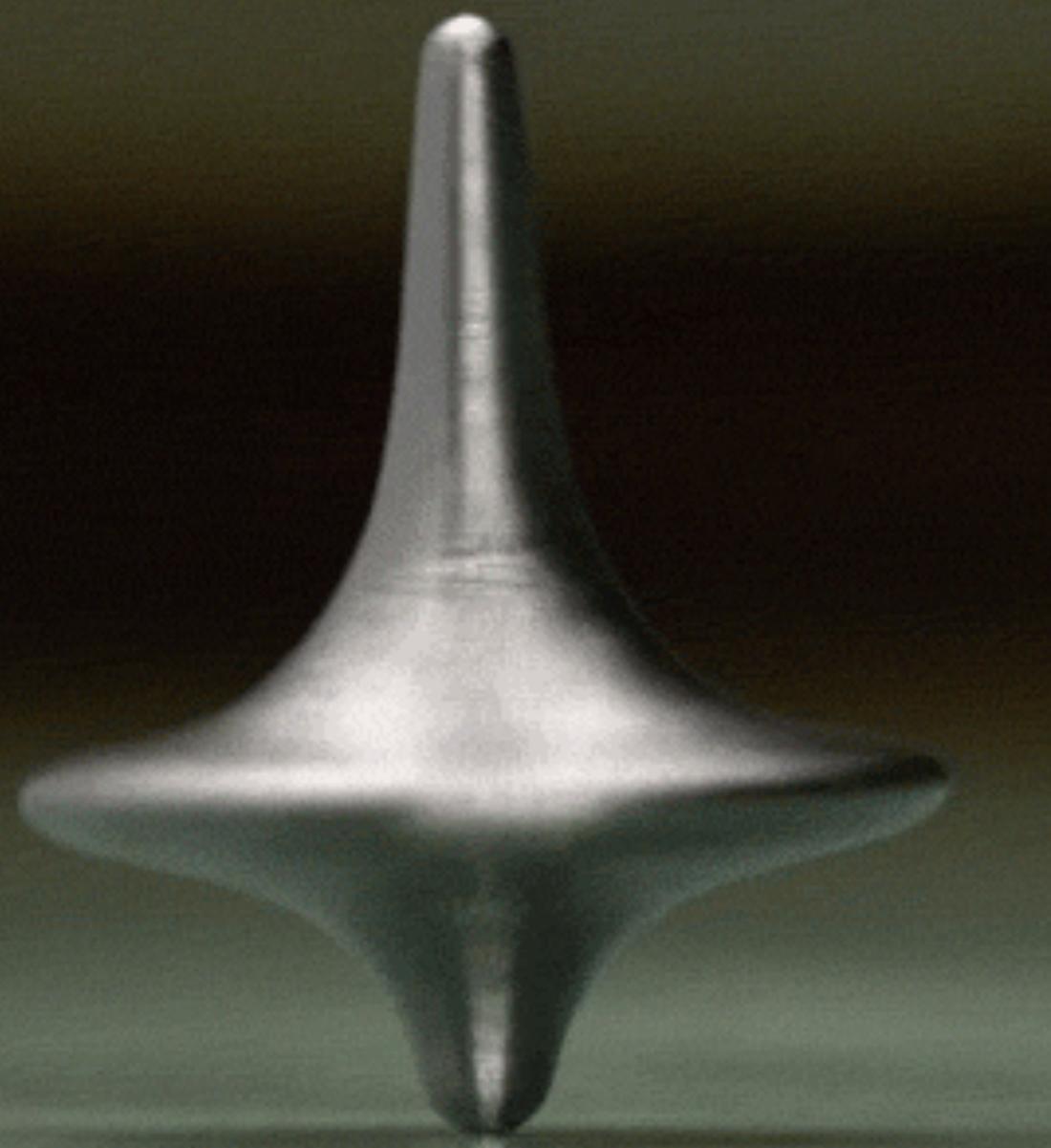
.btn-secondary {...}

.btn_secondary {...}

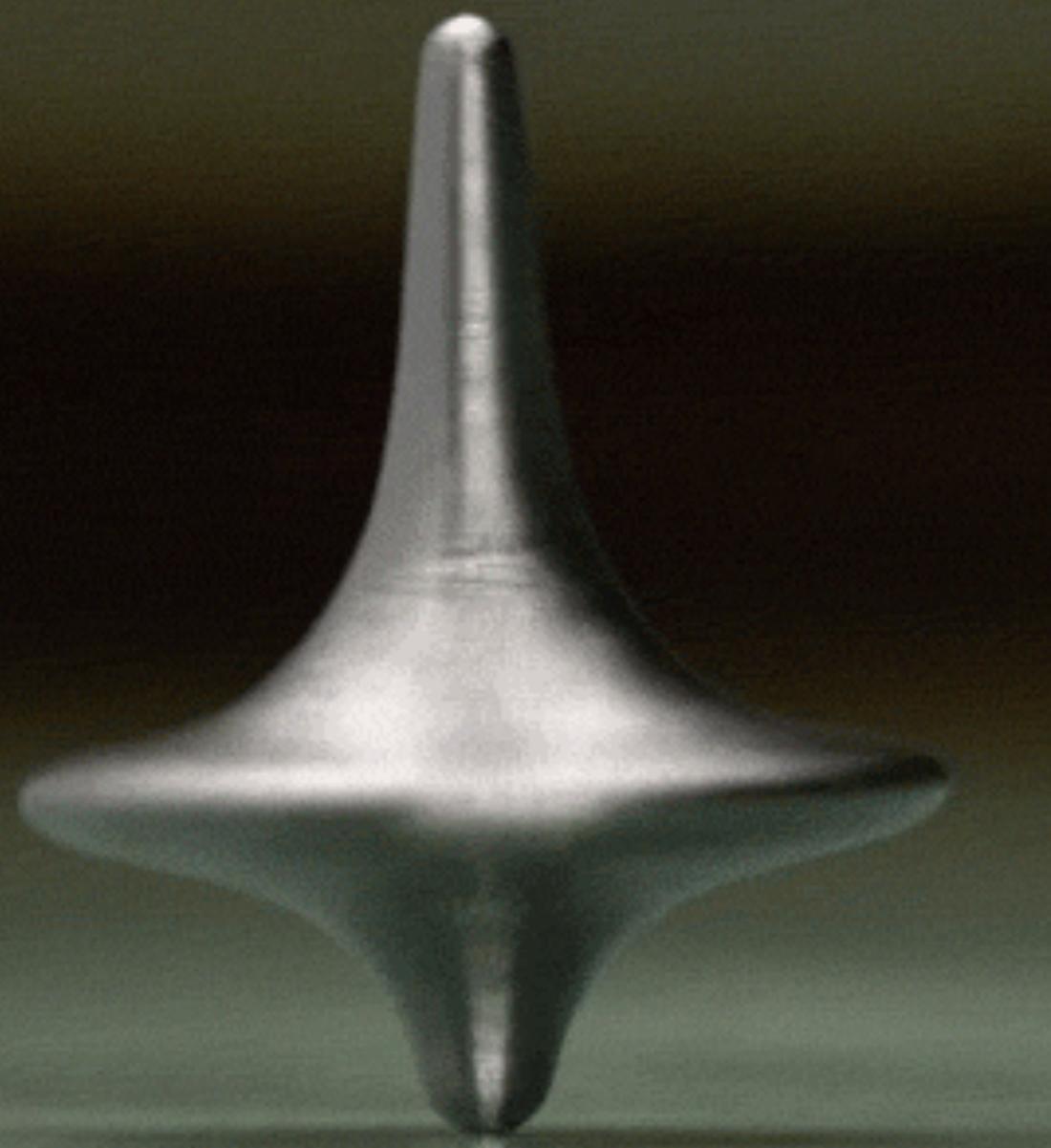
A stack of colorful Russian nesting dolls (matryoshka) is visible in the background, though mostly obscured by a dark overlay. The top doll has a painted face with blue eyes, blonde hair, and a pink mouth. The word "nesting" is overlaid in large, white, sans-serif font.

nesting

inception rule



<3 levels deep



```
.btn {  
  &-secondary {  
    &-icon {...}  
  }  
}  
}
```

.btn-secondary {...}

.btn-secondary-icon {...}

@media

```
@mixin mq($breakpoint, $query:  
'min-width', $type: 'screen') {...}
```

```
.promo-title {  
  @include mq(20em) {font-size: 2em;}  
  @include mq(30em) {font-size: 2.5em;}  
  @include mq(50em) {font-size: 3em;}  
  font-size: 1.3em;  
  margin-top: 1em;  
  float: left;  
}
```

.btn {...}

.btn-large {...}

<div class="btn btn-large">

@extend
all the things!



```
.btn {...}
```

```
.btn-large {@extend .btn;}
```

```
<div class="btn-large">
```

```
%btn {...}
```

```
.btn-large {@extend %btn;}
```

```
<div class="btn-large">
```

**don't @extend
between modules**

PUBLIC



minamarkham / sassy-starter

[Unwatch](#) 1[Star](#) 0[Fork](#) 0

Sassy starter - HTML / SCSS (SMACSS) — Edit

6 commits

1 branch

0 releases

1 contributor



branch: master

sassy-starter / +



init Sache



minamarkham authored an hour ago



.editorconfig

initial commit

2 months ago



.gitignore

initial commit

2 months ago



.htaccess

Create .htaccess

an hour ago



Gruntfile.js

removing unnecessary files; refactoring

an hour ago



LICENSE.md

initial commit

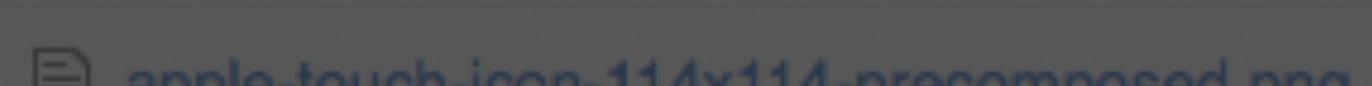
2 months ago



README.md

Update README.md

an hour ago



apple-touch-icon-114x114-precomposed.png

initial commit

2 months ago



apple-touch-icon-57x57-precomposed.png

initial commit

2 months ago

Code

Issues

Pull Requests

Wiki

Graphs

Network

Settings

SSH clone URL

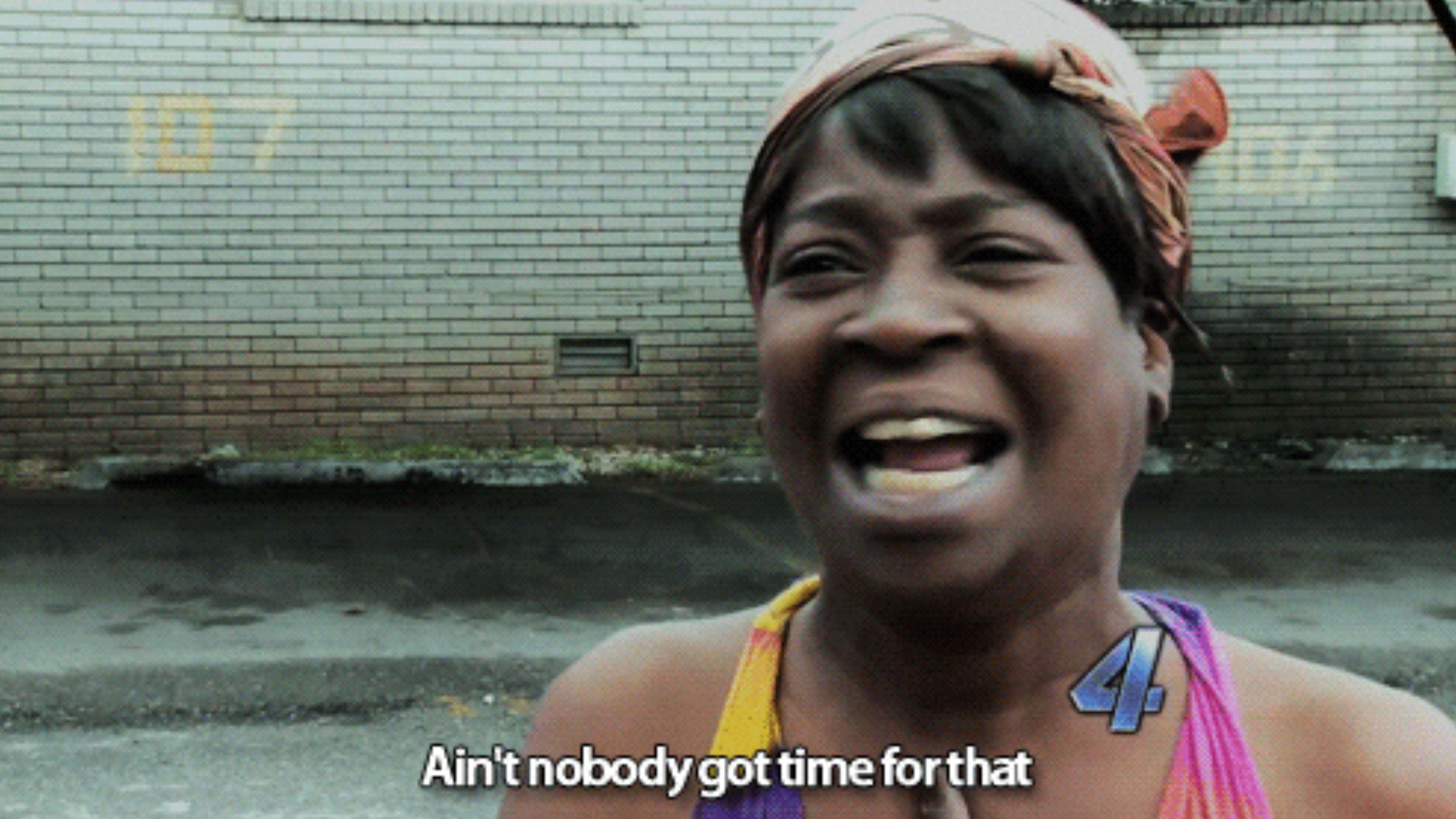
git@github.com:minam...



You can clone with HTTPS, SSH, or Subversion. ?

Clone In Desktop

mina.so/sassy-Starter



4

Ain't nobody got time for that

refactor
all the things!



```
601  
602 a.move-forward.btn-login-wht {background-position:-20px -5321px;}  
603 a.rollover-forward.btn-login-wht {background-position:-20px -5371px;}  
604 .ie6 a.move-forward.btn-login-ltgray {background-position:-20px -5321px;}  
605  
606 a.move-backward span {display:none;}  
607 .ie6 a.move-backward span {text-indent:-99999px;}  
608  
609 /* global search button */  
610 #glb-search-container form .search {font-size:15px !important; width:40px; margin:7px 0 0 3px; padding:0; color:#FFA100;  
611 ; background:0; cursor:pointer; font-weight:bold; border-width:0;}  
612 .ie7 #glb-search-container form .search {margin:8px 0 0 1px;}  
613 .ie6 #glb-search-container form .search {margin:8px 0 0 0;}  
614  
615 /* GLOBAL WRAPPER */  
616  
617 .glb-wrapper-inner {background:url('../img/glb-hdr-bg.jpg') 50% 0% no-repeat;}  
618  
619 /* GLOBAL HEADER */  
620  
621 .glb-hdr-container {position:relative; z-index:100;}  
622 .glb-hdr {position:relative; width:980px; font-size:.93em; margin:0 auto;}  
623 .glb-hdr a:hover {text-decoration:none;}  
624  
625 #logo {margin:21px 0 43px;}  
626  
627 #glb-hdr-toolbar {position:absolute; top:0; right:0; height:50px; overflow:visible; line-height:30px; z-index:105;  
628 padding-top:4px;}  
629  
630 #glb-hdr-toolbar .contact-link,  
631 #glb-hdr-toolbar .salutation {float:left; margin-right:10px; /*color:#fffff;*/ color:#000000;}  
632 #glb-hdr-toolbar .logout-link {float:left; /*margin-left:10px; /*color:#fffff;*/ color:#000000;}  
633 /*#glb-hdr-toolbar .logout-link span {padding-left:11px; background:url('../img/bg-vertical-separator.gif') 0% 50%  
634 repeat-y;}
```

**refactor
all the things?**





Baby steps

extract components

create variables

apply naming conventions

nest and @extend

Home

the beginning

Portfolio

my work

Contact

say hi

About

my story

mina.so/smacss-menu

Before: 161 lines

After: 97 lines