

EXTENDS & SILENT CLASSES IN SASS 3.2

it's like ninjas in your code

EXTEND



OOCSS FRAMEWORKS

create 'objects' to streamline application?

OOCSS FRAMEWORKS

attempts to automate OOCSS

CSS frameworks have been using OOCSS methods since inception.

Where these fail is the insane amount of CSS selectors that by default are added to the site's CSS.

From grid systems to UI elements, CSS bloat is a real issue..

```
4890     box-shadow: inset 0 1px 0 rgba(255,255,255,0.5);
4891   }
4892   .navbar .nav-collapse .nav.pull-right {
4893     float: none;
4894     margin-left: 0;
4895   }
4896   .nav-collapse,
4897   .nav-collapse.collapse {
4898     overflow: hidden;
4899     height: 0;
4900   }
4901   .navbar .btn-navbar {
4902     display: block;
4903   }
4904   .navbar-static .navbar-inner {
4905     padding-left: 10px;
4906     padding-right: 10px;
4907   }
4908 }
4909 @media (min-width: 980px) {
4910   .nav-collapse.collapse {
4911     height: auto !important;
4912     overflow: visible !important;
4913   }
4914 }
4915 }
```


OOCSS FRAMEWORKS

attempts to automate OOCSS

CSS frameworks have been using OOCSS methods since inception.

Where these frameworks use a large amount of OOCSS methods, the default are a

From grid systems, CSS bloat is a

Twitter's bootstrap default includes 4914 lines of CSS.

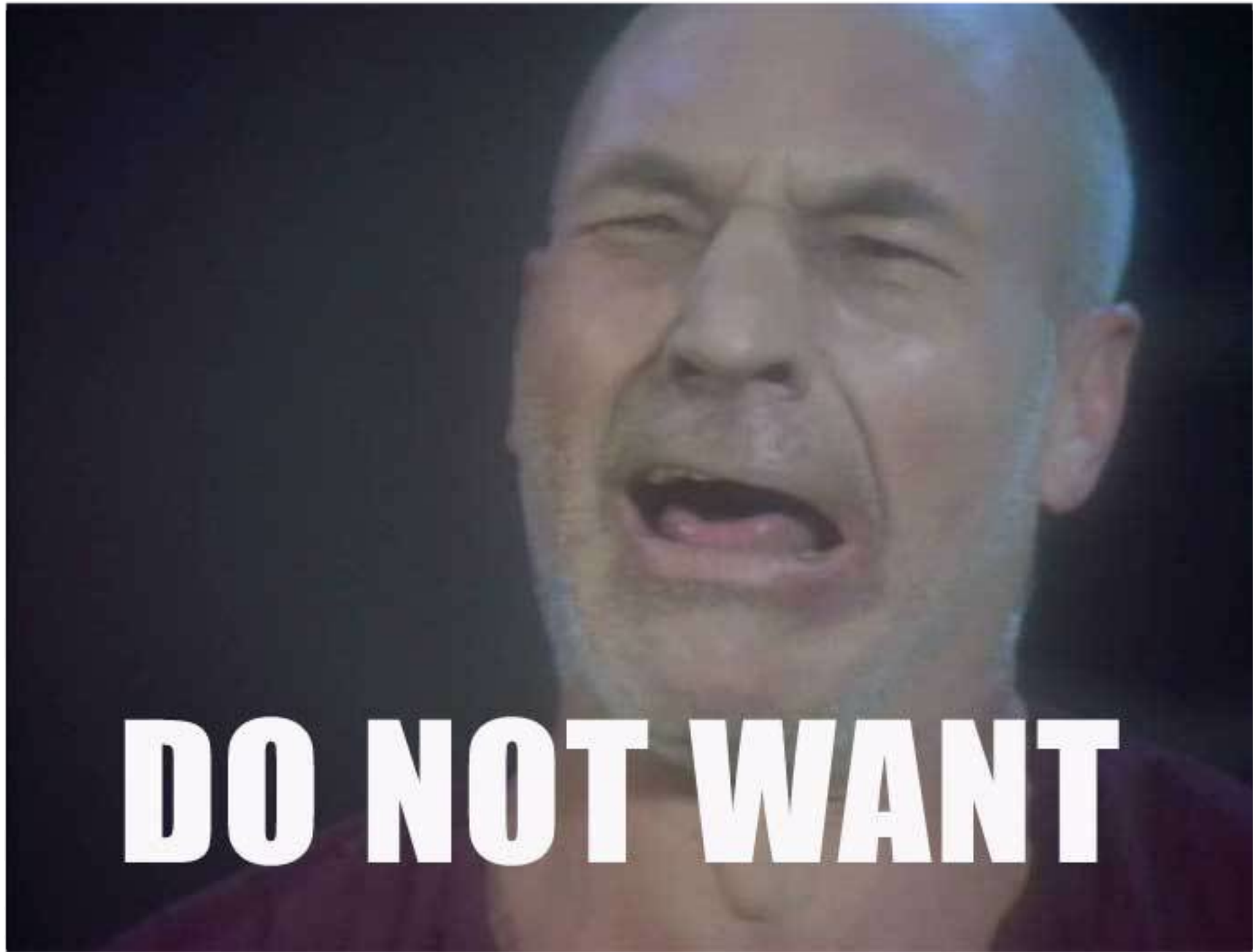
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```

OOCS FRAMEWORK

CSS from
OOCS

Where
amount
default

From g
CSS bl



```
0 rgba(255,255,255,0.5)  
v.pull-right {
```

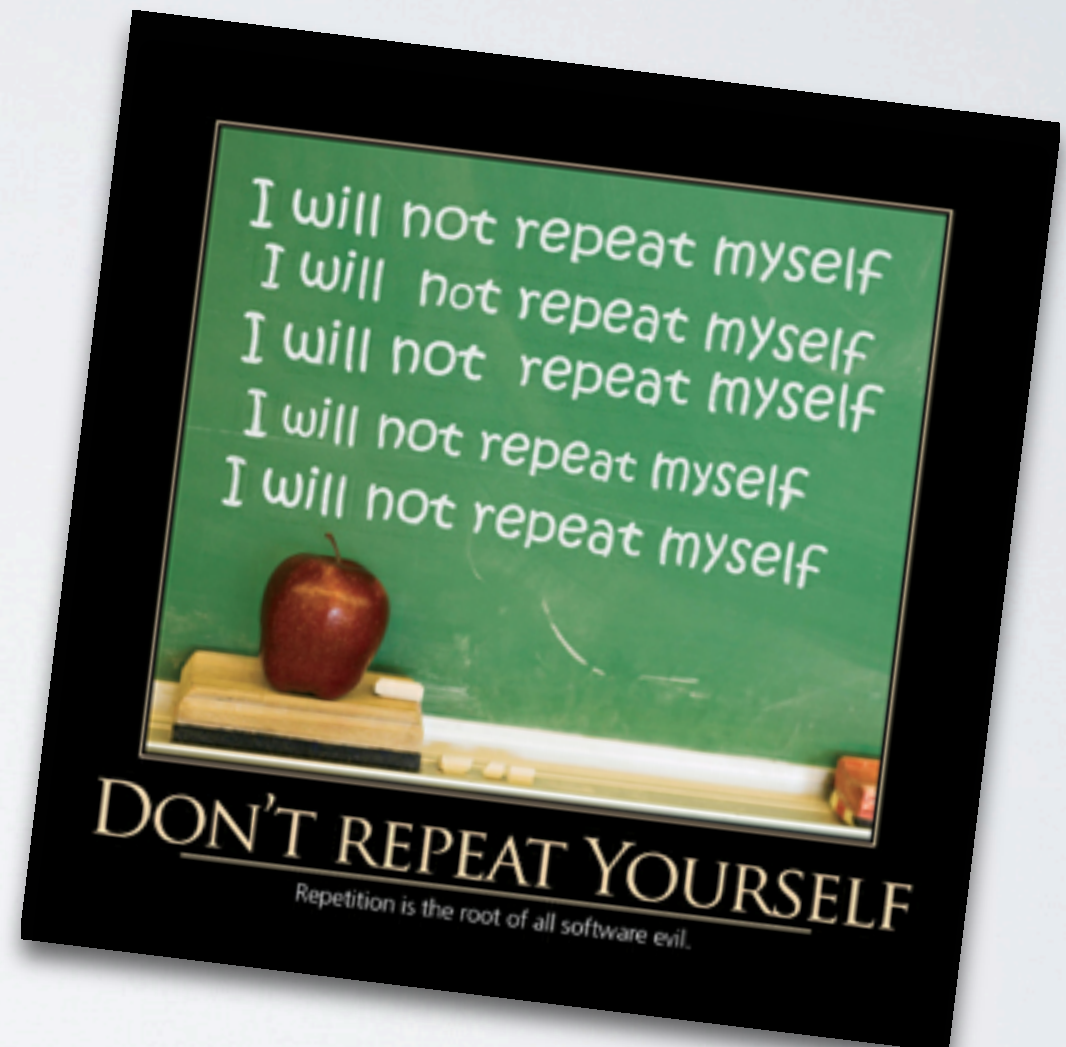
```
ner {
```

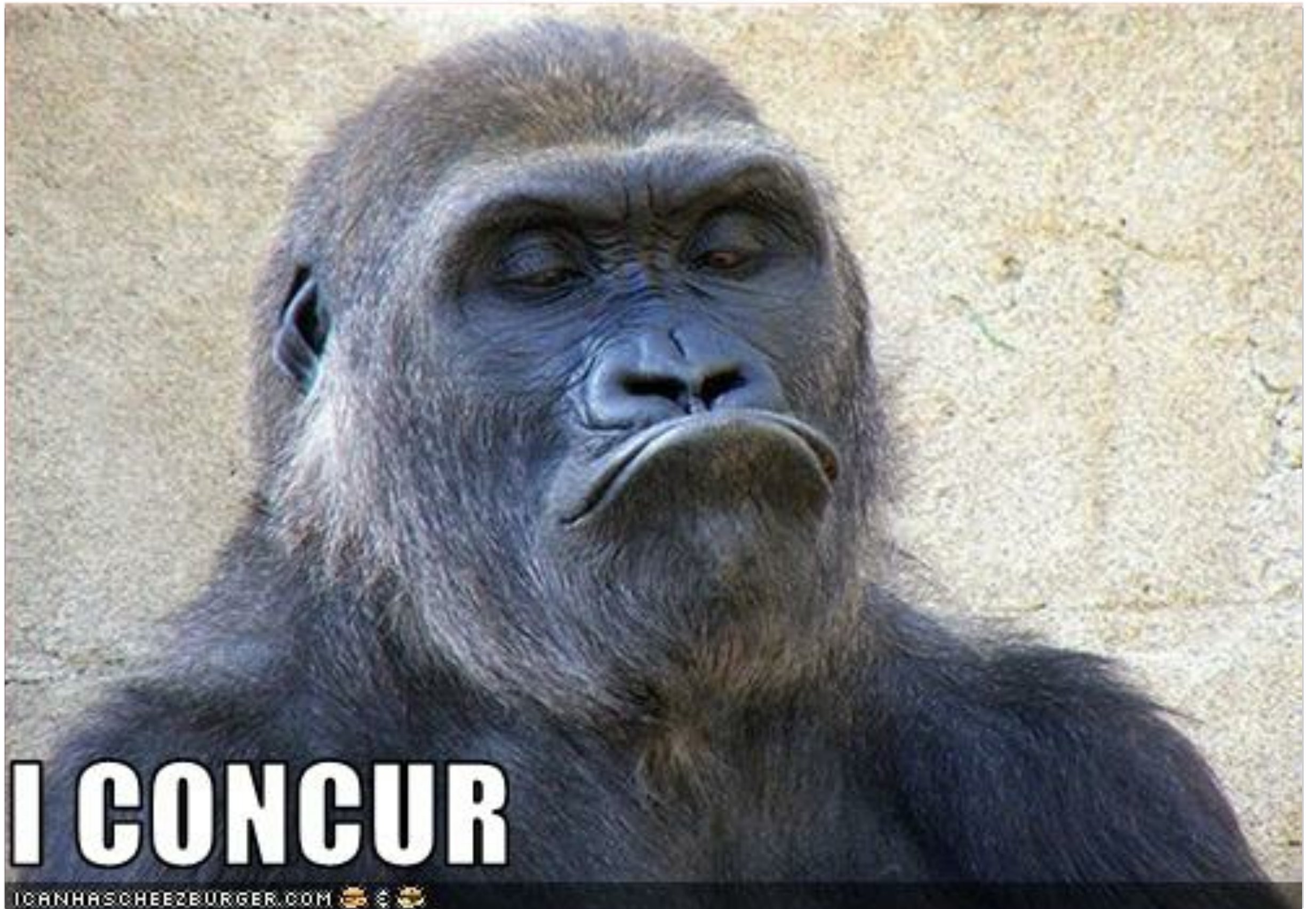
```
;   
rtant;
```


DRY CODING

find the pattern and **D**on't **R**epeat **Y**ourself

9 out of 10 developers agree that using a DRY method of coding will save your bacon in the long run.





I CONCUR

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OOCSS TEACHES US ...

create 'objects'


- Identify reusable objects
- Be semantic w/HTML
- Minimize selectors
- Extend your classes
- 'Style' separate from content
- 'Content' separate from container



OOCSS TEACHES US ...

create 'objects'

- Identify reusable objects
- Be semantic w/HTML
- Minimize selectors
- Extend your classes
- 'Style' separate from content
- 'Content' separate from container

A black and white photograph of a woman with curly hair, wearing a patterned top and a necklace. A large speech bubble is overlaid on the image, containing the text 'what does this mean?'.

**what
does this
mean?**

TWITTER'S BUTTONS

let's look at some code

OOCSS TEACHES US ...

create 'objects'

```
<ul class="nav nav-pills">  
  <li class="dropdown">  
    <a class="dropdown-toggle"  
      data-toggle="dropdown" href="#">  
      Dropdown  
      <b class="caret"></b>  
    </a>  
    <ul class="dropdown-menu">  
      <!-- links -->  
    </ul>  
  </li>  
</ul>
```

OOCSS TEACHES US ...

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```



**Markup with
presentational
classes**

OOCSS TEACHES US ...

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here

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presentational
classes**

OOCSS TEACHES US ...

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      <!-- links -->  
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```

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create 'objects'

Markup with presentational classes

OOCSS TEACHES US ...

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      <!-- links -->  
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here

here

here

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create 'objects'

Markup with presentational classes

OOCSS TEACHES US ...

```
<ul class="nav">  
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<a class="dropdown-toggle" data-toggle="dropdown" href="#">  
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<b class="dropdown-toggle"></b>  
</a>  
<ul class="dropdown-menu">  
<!-- links -->  
</ul>  
</li>  
</ul>
```

here

create 'objects'

here

here

here

here

here

&
here

Markup with presentational classes

OOCSS TEACHES US ...

create 'objects'

```
.nav-tabs:before,  
.nav-pills:before,  
.nav-tabs:after,  
.nav-pills:after {  
  display: table;  
  content: "";  
}
```

```
.nav-tabs:after,  
.nav-pills:after {  
  clear: both;  
}
```

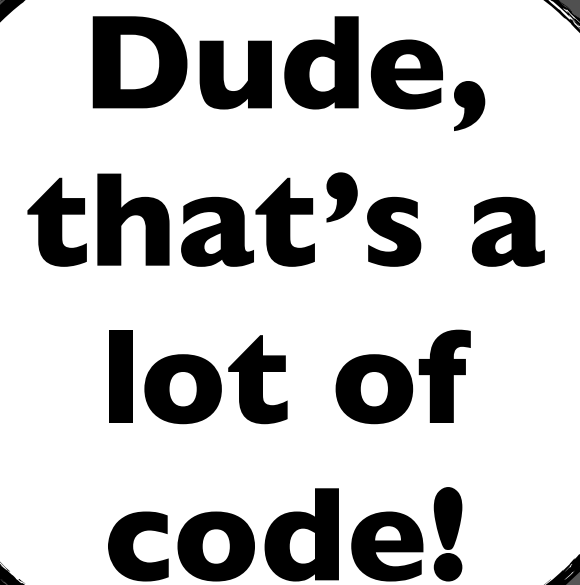
```
nav-tabs > li
```

**How much
CSS can it
really be?**

**It's just
for .nav-tabs
and .nav-pills**

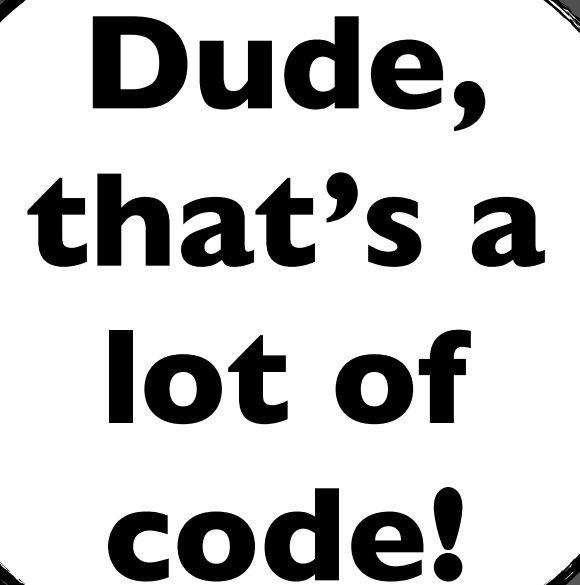
```
}  
  
.nav-tabs .open .dropdown-toggle,  
.nav-pills .open .dropdown-toggle,  
.nav > li.dropdown.open.active > a:hover {  
  color: #ffffff;  
  background-color: #999999;  
  border-color: #999999;  
}
```

```
.nav li.dropdown.open .caret,  
.nav li.dropdown.open.active .caret,  
.nav li.dropdown.open a:hover .caret {  
  border-top-color: #ffffff;  
  border-bottom-color: #ffffff;  
  opacity: 1;  
  filter: alpha(opacity=100);  
}
```



**Dude,
that's a
lot of
code!**

```
}  
  
.nav-tabs .open .dropdown-toggle,  
.nav-pills .open .dropdown-toggle,  
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  opacity: 1;  
  filter: alpha(opacity=100);  
}
```



**That's line
169 right
there.**

**This makes
baby kitties cry**

```
}  
.nav-tabs .open .dropdown-toggle,  
.nav-pills .open .dropdown-toggle,  
.nav > li.dropdown.open.active > a:hover {  
  color: #ffffff;  
  background-color: #999999;  
  border-color: #999999;  
}
```

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```
.nav li.dropdown.open .caret,  
.nav li.dropdown.open.active .caret,  
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  border-top-color: #ffffff;  
  border-bottom-color: #ffffff;  
  opacity: 1;  
  filter: alpha(opacity=100);  
}
```

**That's line
169 right
there.**

**Face it, CSS is
NOT DRY!**

**This makes
baby kitties cry**

```
    .nav li.dropdown.open.active > a:active {  
      color: #ffffff;  
      background-color: #999999;  
      border-color: #999999;  
    }
```

**Dude,
that's a
lot of
code!**

```
    .nav li.dropdown.open .caret,  
    .nav li.dropdown.open.active .caret,  
    .nav li.dropdown.open a:hover .caret {  
      border-top-color: #ffffff;  
      border-bottom-color: #ffffff;  
      opacity: 1;  
      filter: alpha(opacity=100);  
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en .dropdown-open .dropdown-toggle,  
dropdown.open.active > a:hover {  
color: #ffffff;  
background-color: #999999;  
border-color: #999999;  
}
```

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```
.nav li.dropdown.open .caret,  
.nav li.dropdown.open.active .caret,  
.nav li.dropdown.open a:hover .caret {  
border-top-color: #ffffff;  
border-bottom-color: #ffffff;
```

**10
references of
#ffffff in this
example alone**

**That's line
169 right
there.**

```
city=100);
```


**Face it, CSS is
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```
en .dropdown-open .dropdown-toggle,  
ndown.open.active > a:hover {  
color: #ffffff;  
background-color: #ffffff;  
border-color: #ffffff;  
}
```

**Presentational
classes, nothing
semantic at all.**

**Dude,
that's a
lot of
code!**

```
.nav li.dropdown.open .caret,  
.nav li.dropdown.open.active .caret,  
.nav li.dropdown.open a:hover .caret {  
border-top-color: #ffffff;  
border-bottom-color: #ffffff;  
border-left-color: #ffffff;  
border-right-color: #ffffff;  
border-top: 1px solid #ffffff;  
border-bottom: 1px solid #ffffff;  
border-left: 1px solid #ffffff;  
border-right: 1px solid #ffffff;
```

**10
references of
#ffffff in this
example alone**

**That's line
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there.**

```
city=100);
```

OOCSS BUTTONS

twitter bootstrap classes for buttons

```
.btn {
  display: inline-block;
  *display: inline;
  padding: 4px 10px 4px;
  margin-bottom: 0;
  *margin-left: .3em;
  font-size: 13px;
  line-height: 18px;
  *line-height: 20px;
  color: #333333;
  text-align: center;
  text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
  vertical-align: middle;
  cursor: pointer;
  background-color: #f5f5f5;
  *background-color: #e6e6e6;
  background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
  background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
  background-image: linear-gradient(top, #ffffff, #e6e6e6);
  background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
}

.btn:hover {
  color: #333333;
  text-decoration: none;
  background-color: #e6e6e6;
  *background-color: #d9d9d9;
  /* Buttons in IE7 don't get borders, so darken on hover */
  background-position: 0 -15px;
  -webkit-transition: background-position 0.1s linear;
  background-position 0.1s linear;
  -moz-transition: background-position 0.1s linear;
  -ms-transition: background-position 0.1s linear;
  -o-transition: background-position 0.1s linear;
  transition: background-position 0.1s linear;
}

.btn:focus {
  outline: thin dotted #333;
  outline: 5px auto -webkit-focus-ring-color;
  outline-offset: -2px;
}

.btn.active,
.btn:active {
  padding: 5px 10px 6px;
  color: #333333;
  text-decoration: none;
  background-color: #e6e6e6;
  *background-color: #d9d9d9;
  background-image: none;
  border: 1px solid #333333;
}

.btn-mini {
  padding: 2px 6px;
  font-size: 11px;
  line-height: 14px;
}

.btn-primary,
.btn-primary:hover,
.btn-warning,
.btn-warning:hover,
.btn-danger,
.btn-danger:hover,
.btn-success,
.btn-success:hover,
.btn-info,
.btn-info:hover,
.btn-inverse,
.btn-inverse:hover {
  color: #ffffff;
  text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
}

.btn-primary.active,
.btn-warning.active,
.btn-danger.active,
.btn-success.active,
.btn-info.active,
.btn-inverse.active {
  color: rgba(255, 255, 255, 0.75);
}

filter: progid:dximagetransform.microsoft.gradient(soft.gradient (startColorstr='#62c462', endColorstr='#51a351', GradientType=0));
filter: progid:dximagetransform.microsoft.gradient(enabled=false);
}

.btn-success:hover,
.btn-success:active,
.btn-success.active,
.btn-success.disabled,
.btn-success[disabled] {
  background-color: #51a351;
  *background-color: #499249;
}

.btn-success:active,
.btn-success.active {
  background-color: #408140 \9;
}

// -----

.btn-large {
  padding: 9px 14px;
  font-size: 15px;
  line-height: normal;
  -webkit-border-radius: 5px;
  moz-border-radius: 5px;
}
```

```
border-bottom-color: #b3b3b3;
-webkit-border-radius: 4px;
-moz-border-radius: 4px;
border-radius: 4px;
filter:
progid:dximagetransform.microsoft.gradient
(startColorstr='#ffffff',
endColorstr='#e6e6e6',
GradientType=0);
filter:
progid:dximagetransform.microsoft.gradient(enabled=false);
*zoom: 1;
-webkit-box-shadow: inset 0
1px 0 rgba(255, 255, 255, 0.2),
0 1px 2px rgba(0, 0, 0, 0.05);
-moz-box-shadow: inset 0
1px 0 rgba(255, 255, 255, 0.2),
0 1px 2px rgba(0, 0, 0, 0.05);
}

.btn:hover
.btn:active
.btn.active
.btn.disabled
.btn[disabled]
background-color: #e6e6e6;
*background-color: #d9d9d9;
}

.btn:active,
.btn.active {
background-color: #cccccc \9;
}

.btn:first-child {
*margin-left: 0;
```

```
2px 4px rgba(0, 0, 0, 0.15), 0
1px 2px rgba(0, 0, 0, 0.05);
box-shadow: inset 0 2px
4px rgba(0, 0, 0, 0.15), 0 1px
2px rgba(0, 0, 0, 0.05);
}

.btn.disabled,
.btn[disabled] {
cursor: default;
background-color: #e6e6e6;
background-image: none;
opacity: 0.65;
filter: alpha(opacity=65);
-webkit-box-shadow: none;
box-shadow: none;
}

.btn .icon {
font-size: 14px;
vertical-align: middle;
padding-right: 5px;
}

.btn-small [class^="icon-"] {
margin-top: -1px;
}
```

```
// -----
.btn-success,
.btn-success:hover {
color: #ffffff;
text-shadow: 0 -1px 0 rgba(0,
0, 0, 0.25);
}

-webkit-linear-gradient(top, #62c462,
#51a351);
background-image: -o-linear-
gradient(top, #62c462,
#51a351);
background-image: -moz-
linear-gradient(top, #62c462,
#51a351);
background-image: linear-
gradient(top, #62c462,
#51a351);
background-repeat: repeat-x;
border-color: #51a351
#51a351 #387038;
border-color: rgba(0, 0, 0, 0.1)
rgba(0, 0, 0, 0.1) rgba(0, 0, 0,
0.25);
```

I've decided to update all the buttons.

```
input[type="submit"].btn.btn-
large {
*padding-top: 7px;
*padding-bottom: 7px;
}

.btn-group > .btn-
large.dropdown-toggle {
padding-right: 12px;
padding-left: 12px;
}

.btn-large .caret {
margin-top: 6px;
border-top-width: 5px;
border-right-width: 5px;
border-left-width: 5px;
}

.dropdown .btn-large .caret {
border-top: 0;
border-bottom: 5px solid
#000000;
}

// -----
.icon-white {
background-image: url("../img/
glyphicons-halflings-
white.png");
}

.icon-off {
background-position: -384px
0;
}
```




```
border-bottom-color: #b3b3b3;
-webkit-border-radius: 4px;
-moz-border-radius: 4px;
border-radius: 4px;
filter:
progid:dximagetransform.microsoft.gradient
(startColorstr='#ffffff',
endColorstr='#e6e6e6',
GradientType=0);
filter:
progid:dximagetransform.microsoft.gradient(enabled=false);
*zoom: 1;
-webkit-box-shadow: inset 0
1px 0 rgba(255, 255, 255, 0.2),
0 1px 2px rgba(0, 0, 0, 0.05);
-moz-box-shadow: inset 0
1px 0 rgba(255, 255, 255, 0.2),
0 1px 2px rgba(0, 0, 0, 0.05);
}

.btn:hover
.btn:active
.btn.active
.btn.disabled
.btn[disabled]
background-color: #e6e6e6;
*background-color: #d9d9d9;
}

.btn:active,
.btn.active {
background-color: #cccccc \9;
}

.btn:first-child {
*margin-left: 0;
```

```
2px 4px rgba(0, 0, 0, 0.15), 0
1px 2px rgba(0, 0, 0, 0.05);
box-shadow: inset 0 2px
4px 4px rgba(0, 0, 0, 0.15), 0 1px
2px 2px rgba(0, 0, 0, 0.05);
}

.btn-success,
.btn-success:hover {
}

// -----

input[type="submit"].btn.btn-
large {
*padding-top: 7px;
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// -----

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background-image: url("../img/
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```
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border-top: 0;
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#000000;
}

// -----

.icon-white {
background-image: url("../img/
glyphicons-halflings-
white.png");
}

.icon-off {
background-position: -384px
0;
}
```

WE WANT OUR CAKE

and eat it too

PRESENTATIONAL v SEMANTIC

looks good and have meaning too



PRESENTATIONAL v SEMANTIC

looks good and have meaning too

CSS needs to convey design!



PRESENTATIONAL v SEMANTIC

...ks good and have meaning too

CSS needs to convey design!

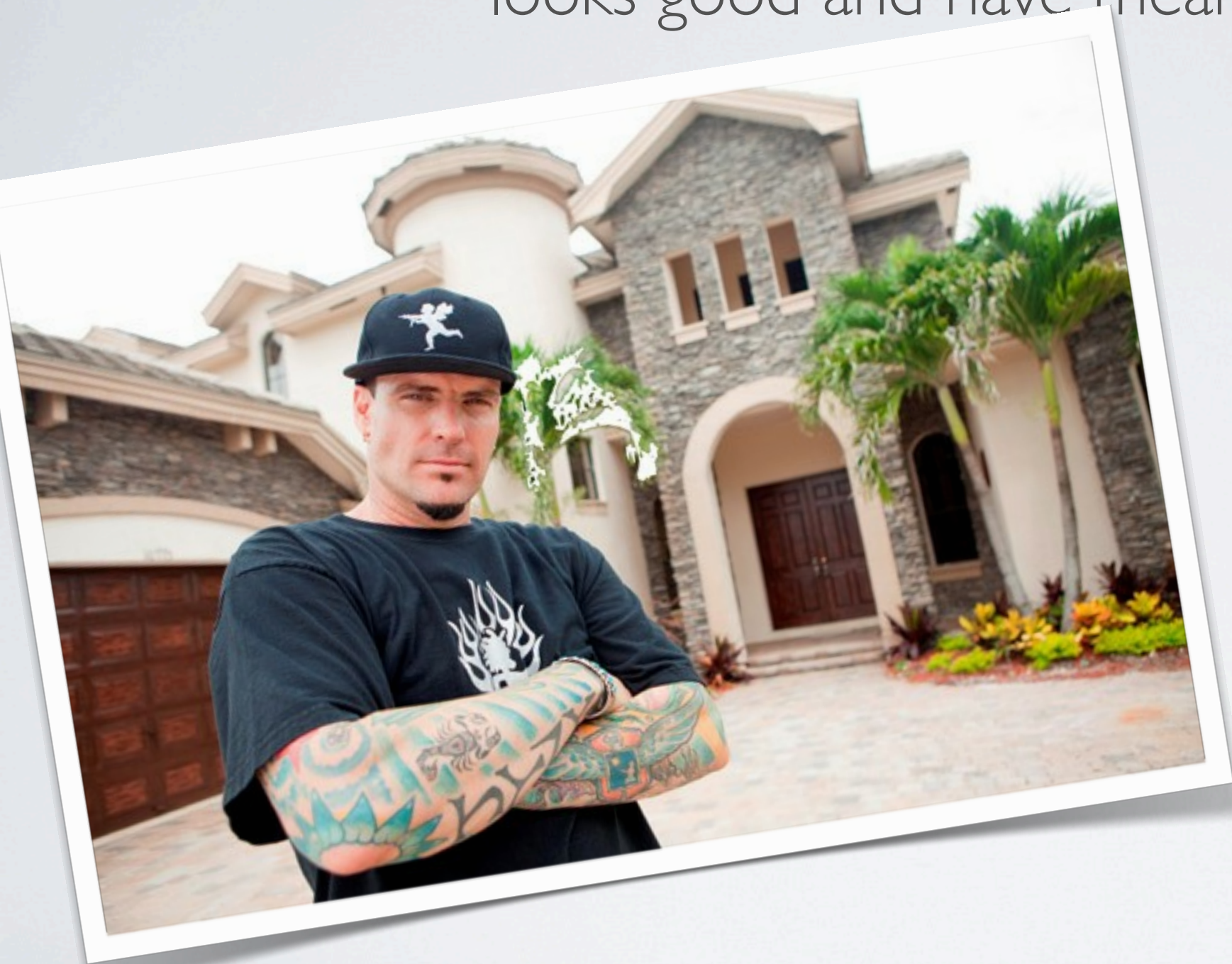


CSS needs to have semantic meaning!



PRESENTATIONAL v SEMANTIC

looks good and have meaning too



Managing presentational and semantic classes with vanilla CSS is as about as hard as Ice Man getting a top 10 hit.

In other words ...
IMPOSSIBLE!

PRESENTATIONAL v SEMANTIC

lo e meaning too

**That's why I
remodel homes
YO!**



Managing presentational and semantic classes with vanilla CSS is as about as hard as Ice Man getting a top 10 hit.

In other words ...
IMPOSSIBLE!

PRESENTATIONAL v SEMANTIC

lo e meaning too

**That's why I
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YO!**

**No, really.
Google it!**

Managing presentational and semantic classes with vanilla CSS is about as hard as Ice Man getting a top 10 hit.

In other words ...
IMPOSSIBLE!



OOCSS

let's look at a real 'object' solution

OO CSS

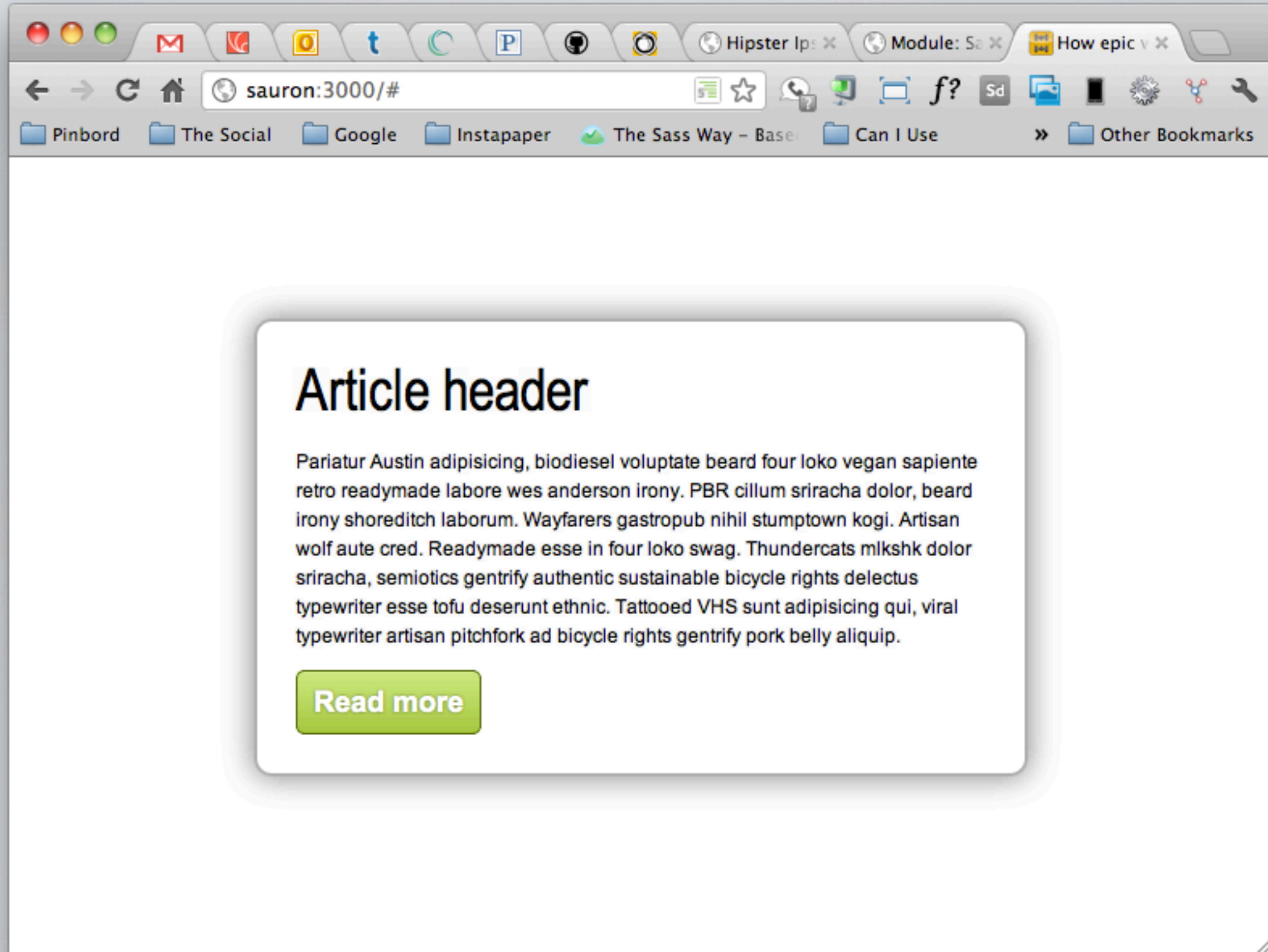
let's look at a real 'object' solution

OOSSCSS

let's look at a real 'object' solution

SASS 3.2 SILENT CLASSES

take everything you know and set it on fire!



Article header

Pariatur Austin adipisicing, biodiesel voluptate beard four loko vegan sapiente retro readymade labore wes anderson irony. PBR cillum sriracha dolor, beard irony shoreditch laborum. Wayfarers gastropub nihil stumptown kogi. Artisan wolf aute cred. Readymade esse in four loko swag. Thundercats mlkshk dolor sriracha, semiotics gentrify authentic sustainable bicycle rights delectus typewriter esse tofu deserunt ethnic. Tattooed VHS sunt adipisicing qui, viral typewriter artisan pitchfork ad bicycle rights gentrify pork belly aliquip.

[Read more](#)

OOCS

that's a lot of classes :0

```
<div class="main_content">
```

```
  <article class="post_summary post_border">
```

```
    <h1 class="post_header ">Article header</h1>
```

```
    <p>Pariatur Austin adipisicing, biodiesel voluptate beard four loko vegan  
sapiente retro readymade labore wes anderson irony. PBR cillum sriracha dolor,  
beard irony shoreditch laborum. Wayfarers gastropub nihil stumptown kogi. Artisan  
wolf aute cred. Readymade esse in four loko swag. Thundercats mlkshk dolor  
sriracha, semiotics gentrify authentic sustainable bicycle rights delectus typewriter  
esse tofu deserunt ethnic. Tattooed VHS sunt adipisicing qui, viral typewriter  
artisan pitchfork ad bicycle rights gentrify pork belly aliquip.</p>
```

```
      <a href="#" class="post_button primary_post_button">Read more</a>
```

```
  </article>
```

```
</div>
```

OOCSS

that's a lot of presentational CSS

```
.post_summary {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
}
```

```
.post_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
.post_header {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.post_button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);
```

```
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

```
.primary_post_button {  
  background: -webkit-linear-gradient(top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten  
(#cdeb8e, 10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top,  
#a5c956 0%,#cdeb8e 100%);  
  }  
}
```


OOCSS

that's a lot of presentational CSS

```
.post_summary {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
}
```

```
.post_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
.post_header {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.post_button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);
```

```
padding: 10px;  
border-radius: 15px;  
border: 1px solid #cdeb8e;  
text-decoration: none;  
}
```

```
.primary_post_button {  
  background: -webkit-linear-gradient(to top, #cdeb8e 0%, #a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(to top, lighten(#cdeb8e, 10%) 0%, lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(to top, #a5c956 0%, #cdeb8e 100%);  
  }  
}
```

**Re-using
this gets
complicated real
fast.**

OOCSS

that's a lot of presentational CSS

```
.post_summary {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
}
```

```
.post_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius:  
}
```

```
.post_head  
  font-fam  
  font-weig  
}
```

```
.post_button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
}
```

```
padding: 10px  
border-radius  
border: 1px  
text-decor  
}
```

```
.primary_post_b  
  background: -webkit-linear-gradient(to top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(to top, lighten  
(#cdeb8e, 10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(to top,  
#a5c956 0%,#cdeb8e 100%);  
  }  
}
```

**Re-using
this gets
complicated real
fast.**

**Extending
classes like this in
the DOM sucks!**

OO'S'SS

one semantic class on the block

```
<div class="main_content">
```

```
<article class="post_summary">
```

```
<h1>Article header</h1>
```

```
<p>Pariatur Austin adipisicing, biodiesel voluptate beard four loko vegan  
sapiente retro readymade labore wes anderson irony. PBR cillum sriracha dolor,  
beard irony shoreditch laborum. Wayfarers gastropub nihil stumptown kogi. Artisan  
wolf aute cred. Readymade esse in four loko swag. Thundercats mlkshk dolor  
sriracha, semiotics gentrify authentic sustainable bicycle rights delectus typewriter  
esse tofu deserunt ethnic. Tattooed VHS sunt adipisicing qui, viral typewriter  
artisan pitchfork ad bicycle rights gentrify pork belly aliquip.</p>
```

```
<a href="#">Read more</a>
```

```
</article>
```

```
</div>
```


00'0

one semantic

**Conveys
simple meaning
about the block.**

```
<div class="main_content">
```

```
<article class="post_summary">
```

```
<h1>Article header</h1>
```

```
<p>Pariatur Austin adipisicing, biodiesel voluptate beard four loko vegan  
sapiente retro readymade labore wes anderson irony. PBR cillum sriracha dolor,  
beard irony shoreditch laborum. Wayfarers gastropub nihil stumptown kogi. Artisan  
wolf aute cred. Readymade esse in four loko swag. Thundercats mlkshk dolor  
sriracha, semiotics gentrify authentic sustainable bicycle rights delectus typewriter  
esse tofu deserunt ethnic. Tattooed VHS sunt adipisicing qui, viral typewriter  
artisan pitchfork ad bicycle rights gentrify pork belly aliquip.</p>
```

```
<a href="#">Read more</a>
```

```
</article>
```

```
</div>
```

00'0

one semantic

**Conveys
simple meaning
about the block.**

```
<div class="main_content">  
  <article class="post_summary">
```

```
    <h1>Article header</h1>
```

```
    <p>Pariatur Austin adipisicing, biodieser  
sapiente retro readymade labore wes ander  
beard irony shoreditch laborum. Wayfarers g  
wolf aute cred. Readymade esse in four loko s  
sriracha, semiotics gentrify authentic sustainable biy, g  
esse tofu deserunt ethnic. Tattooed VHS sunt adipisicing qui, viral typewriter  
artisan pitchfork ad bicycle rights gentrify pork belly aliquip.</p>
```

```
    <a href="#">Read more</a>
```

```
  </article>
```

```
</div>
```

**Any redesign
hinges off of
editing one class in
the CSS**

00'0

one semantic

**Conveys
simple meaning
about the block.**

```
<div class="main_content">  
  <article class="post_summary">
```

```
    <h1>Article header</h1>
```

```
    <p>Pariatur Austin adipisicing, biodieser
```

sapiente retro readymade labore wes ander

beard irony shoreditch laborum. Wayfarers g

wolf aute cred. Readymade esse in four loko s

srirach authentic sustainable biy, g, status typewriter

ess, wood VHS sunt adipisicing qui, viral typewriter

art, s gentrify pork belly aliquip.</p>

**No need to edit
the markup.
That's cool!**

**Any redesign
hinges off of
editing one class in
the CSS**

```
</a
```

```
</div>
```


OO'S'SS

@mixin is a cool tool ...

```
@mixin default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
@mixin default_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
@mixin post_header {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
@mixin button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

```
@mixin primary_button {  
  background: -webkit-linear-gradient(top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten(#cdeb8e,  
10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top, #a5c956  
0%,#cdeb8e 100%);  
  }  
}
```

```
.post_summary {  
  @include .default_block;  
  h1 {  
    @include .post_header;  
  }  
  a {  
    @include .button;  
    @include .primary_button;  
  }  
}
```

OO'S'SS

@mixin is a cool tool ...

```
@mixin default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
@mixin default_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
@mixin post_summary {  
  font-family: serif;  
  font-weight: bold;  
}
```

```
@mixin button {  
  font-size: 1.2em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

```
@mixin primary_button {  
  background: -webkit-linear-gradient(top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten(#cdeb8e,  
10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top, #a5c956  
0%,#cdeb8e 100%);  
  }  
}
```

```
.post_summary {  
  @include default_block;  
  h1 {  
    @include post_header;  
  }  
  a {  
    @include button;  
    @include primary_button;  
  }  
}
```

**We have
combined all these
'object' mixins into
a nice module.**

Mixins are never processed into CSS until used.

```
@mixin default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
@mixin default_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
@mixin post_summary {  
  font-family: inherit;  
  font-weight: normal;  
}
```

```
@mixin button {  
  font-size: inherit;  
  display: inline-block;  
  font-weight: normal;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

We have combined all these 'object' mixins into a nice module.

```
primary_button {  
  background: -webkit-linear-gradient(top, #cdeb8e 0%, #a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten(#cdeb8e, 10%) 0%, lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top, #a5c956 0%, #cdeb8e 100%);  
  }  
}
```

```
.post_summary {  
  @include default_block;  
  h1 {  
    @include post_header;  
  }  
  a {  
    @include button;  
    @include primary_button;  
  }  
}
```


OO'S'SS

the robot will copy and paste

```
.post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0,  
0.5);  
  border: 2px solid rgba(0, 0, 0, 0.3);  
  border-radius: 0.938em;  
}  
.post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}  
.post_summary a {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;
```

```
  text-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
  background: -webkit-linear-gradient(top,  
#cdeb8e 0%, #a5c956 100%);  
}  
.post_summary a:hover {  
  background: -webkit-linear-gradient(top,  
#e0f3b9 0%, #bad57d 100%);  
}  
.post_summary a:active {  
  background: -webkit-linear-gradient(top,  
#a5c956 0%, #cdeb8e 100%);  
}
```

**This is
really clean and
looks awesome
right?**

SS

and paste

```
.post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0,  
0.5);  
  border: 2px solid rgba(0, 0, 0, 0.3);  
  border-radius: 0.938em;  
}  
.post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}  
.post_summary a {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;
```

```
  text-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
  background: -webkit-linear-gradient(top,  
#cdeb8e 0%, #a5c956 100%);  
}  
.post_summary a:hover {  
  background: -webkit-linear-gradient(top,  
#e0f3b9 0%, #bad57d 100%);  
}  
.post_summary a:active {  
  background: -webkit-linear-gradient(top,  
#a5c956 0%, #cdeb8e 100%);  
}
```

**This is
really clean and
looks awesome
right?**

SS

and paste

```
.post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 10px;  
  margin: 10px 0 0 0;  
  box-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  border: 1px solid #4c6812;  
  border-radius: 5px;  
}
```

**But for reuse,
this method will
100% duplicate all
the CSS under a
new selector**

```
.post_summary a {  
  font-family: inherit;  
  font-weight: lighter;  
}
```

```
.post_summary a {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;
```

```
  text-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
  background: -webkit-linear-gradient(top, #cdeb8e 0%, #a5c956 100%);  
}  
.post_summary a:hover {  
  background: -webkit-linear-gradient(top, #e0f3b9 0%, #bad57d 100%);  
}  
.post_summary a:active {  
  background: -webkit-linear-gradient(top, #a5c956 0%, #cdeb8e 100%);  
}
```


**This is
really clean and
looks awesome**

SS

I has a sad.



```
.post_summ  
width: 40e  
box-sizing  
padding:  
margin:  
box-  
0.5);  
bord  
bord  
}  
.post_s  
font-fam  
font-weigh  
}  
.post_summ  
font-size: 1  
display: inline-block;  
font-weight: bold;  
color: white;
```

```
0, 0, 0.5);  
radient(top,  
;  
radient(top,  
radient(top,  
;
```

OO'S'SS

@extend is pretty awesome ...

```
.default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
.default_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
.post_header {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

```
.primary_button {  
  background: -webkit-linear-gradient(top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten(#cdeb8e,  
10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top, #a5c956  
0%,#cdeb8e 100%);  
  }  
}
```

```
.post_summary {  
  @extend .default_block;  
  h1 {  
    @extend .post_header;  
  }  
  a {  
    @extend .button;  
    @extend .primary_button;  
  }  
}
```

OO'S'CSS

@extend is pretty awesome ...

```
.default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
.default_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
.post_header {  
  font-family: serif;  
  font-weight: bold;  
}
```

```
.button {  
  font-size: 1.2em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

```
.primary_button {  
  background: -webkit-linear-gradient(top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten(#cdeb8e,  
10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top, #a5c956  
0%,#cdeb8e 100%);  
  }  
}
```

```
.post_summary {  
  @extend .default_block;  
  h1 {  
    @extend .post_header;  
  }  
  a {  
    @extend .button;  
    @extend .primary_button;  
  }  
}
```

**We have
combined all these
'object' classes into
a nice module ...**

OO'S'CSS

@extend is just awesome ...

... but all these classes will get processed into the CSS

```
.default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000,  
  @extend %default_border;  
}
```

```
.default_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
.post_header {  
  font-family: serif;  
  font-weight: bold;  
}
```

```
.button {  
  font-size: 1.2em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

We have combined all these 'object' classes into a nice module ...

```
background: -webkit-linear-gradient(top, #cdeb8e  
-webkit-linear-gradient(top, lighten(#cdeb8e,  
a5c956, 10%) 100%);
```

```
background: -webkit-linear-gradient(top, #a5c956  
0%, #cdeb8e 100%);  
}
```

```
.post_summary {  
  @extend .default_block;  
  h1 {  
    @extend .post_header;  
  }  
  a {  
    @extend .button;  
    @extend .primary_button;  
  }  
}
```


OO'S'SS

our processed CSS

```
.default_block, .post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.5);  
}
```

```
.default_border, .default_block, .post_summary  
{  
  border: 2px solid rgba(0, 0, 0, 0.3);  
  border-radius: 0.938em;  
}
```

```
.post_header, .post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

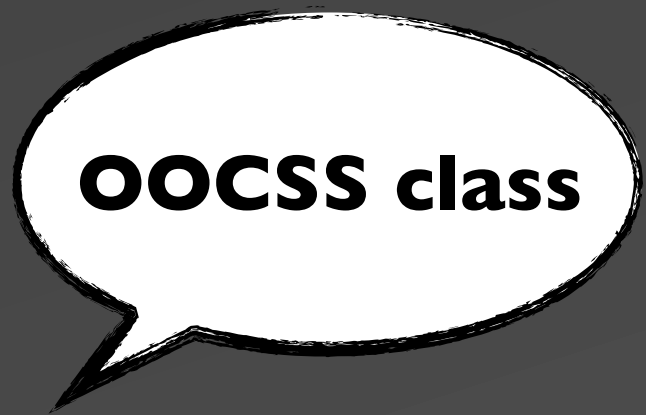
```
.button, .post_summary a {  
  font-size: 1.5em;  
  display: inline-block;
```

```
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
}
```

```
.primary_button, .post_summary a {  
  background: -webkit-linear-gradient(top,  
  #cdeb8e 0%, #a5c956 100%);  
}
```

```
.primary_button:hover, .post_summary a:hover  
{  
  background: -webkit-linear-gradient(top,  
  #e0f3b9 0%, #bad57d 100%);  
}
```

```
.primary_button:active, .post_summary a:active  
{  
  background: -webkit-linear-gradient(top,  
  #a5c956 0%, #cdeb8e 100%);  
}
```

OO'S'SS

our processed CSS

```
.default_block, .post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.5);  
}
```

```
.default_border, .default_block, .post_summary  
{  
  border: 2px solid rgba(0, 0, 0, 0.3);  
  border-radius: 0.938em;  
}
```

```
.post_header, .post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.button, .post_summary a {  
  font-size: 1.5em;  
  display: inline-block;
```

```
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
}
```

```
.primary_button, .post_summary a {  
  background: -webkit-linear-gradient(top,  
  #cdeb8e 0%, #a5c956 100%);  
}
```

```
.primary_button:hover, .post_summary a:hover  
{  
  background: -webkit-linear-gradient(top,  
  #e0f3b9 0%, #bad57d 100%);  
}
```

```
.primary_button:active, .post_summary a:active  
{  
  background: -webkit-linear-gradient(top,  
  #a5c956 0%, #cdeb8e 100%);  
}
```

oocss class

OO'S'SS

our processed CSS

Semantic class

```
.default_block, .post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.5);  
}
```

```
.default_border, .default_block, .post_summary  
{  
  border: 2px solid rgba(0, 0, 0, 0.3);  
  border-radius: 0.938em;  
}
```

```
.post_header, .post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.button, .post_summary a {  
  font-size: 1.5em;  
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```
  font-weight: bold;  
  color: white;  
  box-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
}
```

```
.primary_button, .post_summary a {  
  background: -webkit-linear-gradient(top,  
  #cdeb8e 0%, #a5c956 100%);  
}  
.primary_button:hover, .post_summary a:hover  
{  
  background: -webkit-linear-gradient(top,  
  #e0f3b9 0%, #bad57d 100%);  
}  
.primary_button:active, .post_summary a:active  
{  
  background: -webkit-linear-gradient(top,  
  #a5c956 0%, #cdeb8e 100%);
```

oocss class

OO'S'SS

our processed CSS

```
.default_block, .post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.3);  
}
```

**Semantic
class**

```
font-weight: bold;  
color: white;  
box-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
padding: 10px;  
border-radius: 5px;  
border: 1px solid #4c6812;  
text-decoration: none;  
}
```

oocss class

```
.default_block, .post_summary  
{  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.3);  
}
```

```
.post_header, .post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.button, .post_summary a {  
  font-size: 1.5em;  
  display: inline-block;
```

```
.primary_button, .post_summary a {  
  background: -webkit-linear-gradient(top,  
  #cdeb8e 0%, #a5c956 100%);  
}
```

```
.primary_button:hover, .post_summary a:hover  
{  
  background: -webkit-linear-gradient(top,  
  #e0f3b9 0%, #bad57d 100%);  
}
```

```
.primary_button:active, .post_summary a:active  
{  
  background: -webkit-linear-gradient(top,  
  #a5c956 0%, #cdeb8e 100%);  
}
```


OOCSS class

OOCSS

our processed CSS

```
.default_block, .post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.3);  
}
```

```
font-weight: bold;  
color: white;  
box-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
padding: 10px;  
border-radius: 5px;  
border: 1px solid #4c6812;  
text-decoration: none;  
}
```

Semantic class

```
.default_block, .post_summary  
{  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.3);  
}
```

OOCSS class

```
.primary_button, .post_summary a {  
  background: -webkit-linear-gradient(top,  
    #cdeb8e 0%, #a5c956 100%);  
}
```

```
.post_header, .post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
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.primary_button:hover, .post_summary a:hover  
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  background: -webkit-linear-gradient(top,  
    #0f3b9 0%, #bad57d 100%);  
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Semantic class

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.button, .post_summary a {  
  font-size: 1.5em;  
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```
.primary_button:active, .post_summary a:active  
{  
  background: -webkit-linear-gradient(top,  
    #a5c956 0%, #cdeb8e 100%);  
}
```

OOCSS class

OOCSS

our processed CSS

```
.default_block, .post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.3);  
}
```

Semantic class

```
font-weight: bold;  
color: white;  
box-shadow: 0 0 30px rgba(0, 0, 0, 0.5);  
border: 1px solid black;  
text-decoration: none;
```

OOCSS class

```
.default_block, .post_summary {  
  border: 1px solid black;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.3);  
}
```

OOCSS class

```
.primary_button, .post_summary a {  
  background: -webkit-linear-gradient(top, #cdeb8e 0%, #a5c956 100%);  
}  
.primary_button:hover, .post_summary a:hover {  
  background: -webkit-linear-gradient(top, #0f3b9 0%, #bad57d 100%);  
}  
.primary_button:active, .post_summary a:active {  
  background: -webkit-linear-gradient(top, #a5c956 0%, #cdeb8e 100%);  
}
```

Semantic class

```
.post_header, .post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.button, .post_summary a {  
  font-size: 1.5em;  
  display: inline-block;
```

OOCSS class

OOCSS

our processed CSS

```
.default_block, .post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.3);  
}
```

Semantic class

```
font-weight: bold;  
color: white;  
background-color: #cdeb8e; box-shadow: 0 0 30px rgba(0, 0, 0, 0.5);  
border: 1px solid #a5c956; border-radius: 0.3em; text-decoration: none;
```

OOCSS class

```
.default_block, .post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.3);  
}
```

OOCSS class

```
.primary_button, .post_summary a {  
  background: -webkit-linear-gradient(to right, #cdeb8e 0%, #a5c956 100%);  
}
```

Semantic class

```
.post_header, .post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

Semantic class

```
.primary_button:hover, .post_summary a:hover {  
  background: -webkit-linear-gradient(to top, #0f3b9 0%, #bad57d 100%);  
}.primary_button:active, .post_summary a:active {  
  background: -webkit-linear-gradient(to top, #a5c956 0%, #cdeb8e 100%);  
}
```

```
.button, .post_summary a {  
  font-size: 1.5em;  
  display: inline-block;
```

```
background: -webkit-linear-gradient(to top, #a5c956 0%, #cdeb8e 100%);  
}
```

oocss class

OO'S'CSS

our processed CSS

```
.default_block {
  width: 40em;
  box-sizing: border-box;
  padding: 2em;
  margin: 1em;
  box-shadow: 0 2px 4px #ccc;
}
```

```
.default_block {
  border: 1px solid #ccc;
  border-radius: 5px;
}
```

```
.post_header {
  font-family: sans-serif;
  font-weight: bold;
}
```

```
.button, .post_summary a {
  font-size: 1.5em;
  display: inline-block;
}
```



```
5);
```

semantic class

```
(top,
```

class

```
primary_button:active, .post_summary a:active {
  background: -webkit-linear-gradient(top, #a5c956 0%, #cdeb8e 100%);
}
```


#1 COMPLAINT

all these classes, they exist even if I don't use them ;(

w/SILENT CLASSES

they don't exist until you want them to

OO'S'SS

the way of the future!

```
%default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
%default_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
}
```

```
%post_header {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
%button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

```
%primary_button {  
  background: -webkit-linear-gradient(top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten(#cdeb8e,  
10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top, #a5c956  
0%,#cdeb8e 100%);  
  }  
}
```

```
.post_summary {  
  @extend %default_block;  
  h1 {  
    @extend %post_header;  
  }  
  a {  
    @extend %button;  
    @extend %primary_button;  
  }  
}
```

OO'S CSS

the future!

% is all the magic

```
%default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
%default_border {  
  border: 2px solid transparentize(#000, 0.7);  
  border-radius: 15 / 16 * 1em;  
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%post_header {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
%button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

```
primary_button {  
  background: -webkit-linear-gradient(top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten(#cdeb8e,  
10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top, #a5c956  
0%,#cdeb8e 100%);  
  }  
}
```

```
.post_summary {  
  @extend %default_block;  
  h1 {  
    @extend %post_header;  
  }  
  a {  
    @extend %button;  
    @extend %primary_button;  
  }  
}
```


OO'S CSS

the future!

% is all the magic

```
%default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
%default_border {  
  border: 2px solid transparent;  
  border-radius: 10px;  
}
```

```
%post_header {  
  font-family: serif;  
  font-weight: bold;  
}
```

```
%button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

**None of
these 'silent
classes' will be
in the CSS**

```
primary_button {  
  background: -webkit-linear-gradient(top, #cdeb8e  
0%,#a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(top, lighten(#cdeb8e,  
10%) 0%,lighten(#a5c956, 10%) 100%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(top, #a5c956  
0%,#cdeb8e 100%);  
  }  
}
```

```
.post_summary {  
  @extend %default_block;  
  h1 {  
    @extend %post_header;  
  }  
  a {  
    @extend %button;  
    @extend %primary_button;  
  }  
}
```

OO'CSS

the future!

% is all the magic

```
%default_block {  
  width: 480 / 12 * 1em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 10 / 16 * 1em 1em 0;  
  box-shadow: 0 0 30px transparentize(#000, 0.5);  
  @extend %default_border;  
}
```

```
%default_border {  
  border: 2px solid transparent;  
  border-radius: 7px;  
}
```

```
%post_header {  
  font-family: serif;  
  font-weight: bold;  
}
```

```
%button {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
  color: white;  
  text-shadow: 0 0 3px transparentize(#000, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid darken(#cdeb8e, 50%);  
  text-decoration: none;  
}
```

None of these 'silent classes' will be in the CSS

```
primary_button {  
  background: -webkit-linear-gradient(to top right, 0%, #a5c956 100%);  
  &:hover {  
    background: -webkit-linear-gradient(to top right, 10% 0%, lightgray 10%, lightgray 90%, #cdeb8e 90%);  
  }  
  &:active {  
    background: -webkit-linear-gradient(to top right, 0%, #cdeb8e 10%, #cdeb8e 90%, #cdeb8e 100%);  
  }  
}
```

We have combined all these 'object' classes into a nice module.

```
.post_summary {  
  @extend %default_block;  
  h1 {  
    @extend %post_header;  
  }  
  a {  
    @extend %button;  
    @extend %primary_button;  
  }  
}
```

OO'S'SS

silent classes processed

```
.post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.5);  
}
```

```
.post_summary {  
  border: 2px solid rgba(0, 0, 0, 0.3);  
  border-radius: 0.938em;  
}
```

```
.post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.post_summary a {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;
```

```
  color: white;  
  text-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
}
```

```
.post_summary a {  
  background: -webkit-linear-gradient(top,  
  #cdeb8e 0%, #a5c956 100%);  
}  
.post_summary a:hover {  
  background: -webkit-linear-gradient(top,  
  #e0f3b9 0%, #bad57d 100%);  
}  
.post_summary a:active {  
  background: -webkit-linear-gradient(top,  
  #a5c956 0%, #cdeb8e 100%);  
}
```

process

**looks much like
the Mixin solution,
but no styles will
be duplicated**

```
.post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0.625em 1em 0;  
  box-shadow: 0 0 30px rgba(0, 0, 0, 0.5);  
}
```

```
.post_summary {  
  border: 2px solid rgba(0, 0, 0, 0.3);  
  border-radius: 0.938em;  
}
```

```
.post_summary h1 {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.post_summary a {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;
```

cessed

```
  color: white;  
  box-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  padding: 10px;  
  border-radius: 5px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
}
```

```
.post_summary a {  
  background: -webkit-linear-gradient(top,  
    #cdeb8e 0%, #a5c956 100%);  
}  
.post_summary a:hover {  
  background: -webkit-linear-gradient(top,  
    #e0f3b9 0%, #bad57d 100%);  
}  
.post_summary a:active {  
  background: -webkit-linear-gradient(top,  
    #a5c956 0%, #cdeb8e 100%);  
}
```


post_summary.css

**looks much like
the Mixin solution,
but no styles will
be duplicated**

```
.post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0 625em 1em 0;  
  background-color: #4c6812; color: white; text-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  border-radius: 10px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
}
```

**as styles are
reused, they will be
properly extended
in the CSS**

```
.post_summary a {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.post_summary a {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;
```

ccessed

```
  background-color: #4c6812; color: white; text-shadow: 0 0 3px rgba(0, 0, 0, 0.5);  
  border-radius: 10px;  
  border: 1px solid #4c6812;  
  text-decoration: none;  
}
```

```
.post_summary a {  
  background: -webkit-linear-gradient(top, #cdeb8e 0%, #a5c956 100%);  
}  
.post_summary a:hover {  
  background: -webkit-linear-gradient(top, #e0f3b9 0%, #bad57d 100%);  
}  
.post_summary a:active {  
  background: -webkit-linear-gradient(top, #a5c956 0%, #cdeb8e 100%);  
}
```

post_summary.css

looks much like
the **Mixin solution**,
but **no styles will
be duplicated**

**no unnecessary
presentational
classes created**

**as styles are
reused, they will be
properly extended
in the CSS**

```
.post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0 625em 1em 0;  
  border: 1px solid #4c78a8;  
  border-radius: 5px;  
  background-color: white;  
  box-shadow: 0 10px 10px #4c78a8;  
  text-decoration: none;  
}
```

```
.post_summary a {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.post_summary a {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
}
```

```
.post_summary a {  
  background: -webkit-linear-gradient(top,  
    #cdeb8e 0%, #a5c956 100%);  
}  
.post_summary a:hover {  
  background: -webkit-linear-gradient(top,  
    #e0f3b9 0%, #bad57d 100%);  
}  
.post_summary a:active {  
  background: -webkit-linear-gradient(top,  
    #a5c956 0%, #cdeb8e 100%);  
}
```

post_summary CSS

looks much like the Mixin solution, but no styles will be duplicated

no unnecessary presentational classes created

as styles are reused, they will be properly extended in the CSS

easily manageable and elegant solution from the CSS, not in the markup!

```
.post_summary {  
  width: 40em;  
  box-sizing: border-box;  
  padding: 2em;  
  margin: 1em 0 625em 1em 0;  
  background-color: #f0f0f0;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
}
```

```
.post_summary a {  
  font-family: "Arial Narrow";  
  font-weight: lighter;  
}
```

```
.post_summary a {  
  font-size: 1.5em;  
  display: inline-block;  
  font-weight: bold;  
}
```

```
background-color: white;  
box-shadow: 0 5px 5px #ccc;  
border: 1px solid #ccc;  
border-radius: 5px;  
border: 1px solid #4f81bd;  
text-decoration: none;  
}
```

```
.post_summary a {  
  background: -webkit-linear-gradient(top, #cdeb8e 0%, #a5c956 100%);  
}
```

```
.post_summary a:hover {  
  background: -webkit-linear-gradient(top, #cdeb8e 0%, #57d 100%);  
}
```

```
.post_summary a:active {  
  background: -webkit-linear-gradient(top, #cdeb8e 0%, #3e 100%);  
}
```


process

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the Mixin solution

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```
.post_summary {  
width: 40em;  
box-sizing: border-box;  
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font-weight: light;  
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```

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.post_summary a {  
font-size: 1.5em;  
display: inline-block;  
font-weight: bold;  
}
```

elegant solution
from the CSS, not
in the markup!

```
background: linear-gradient(to top, #000 0%, #fff 100%);
```


SUMMARY

what have we learned?

**OOCSS UI frameworks will
add some serious CSS bloat**

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QUESTIONS?

you, in the front ...



<http://speakerrate.com/speakers/15438>

You don't win anything, but
it helps me to get better at this ;)

Sass 3.2: Silent Classes

Speaker Deck Slides by Dale Sande

EXTENDS & SILENT CLASSES IN SASS 3.2

it's like ninjas in your code

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