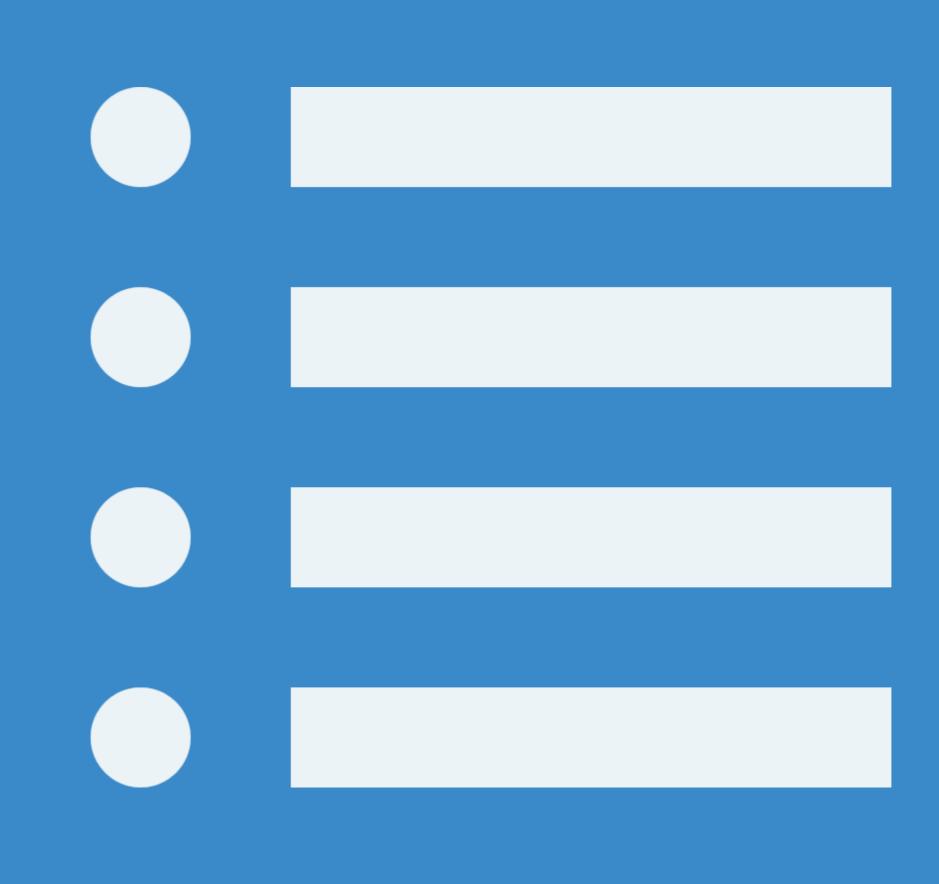
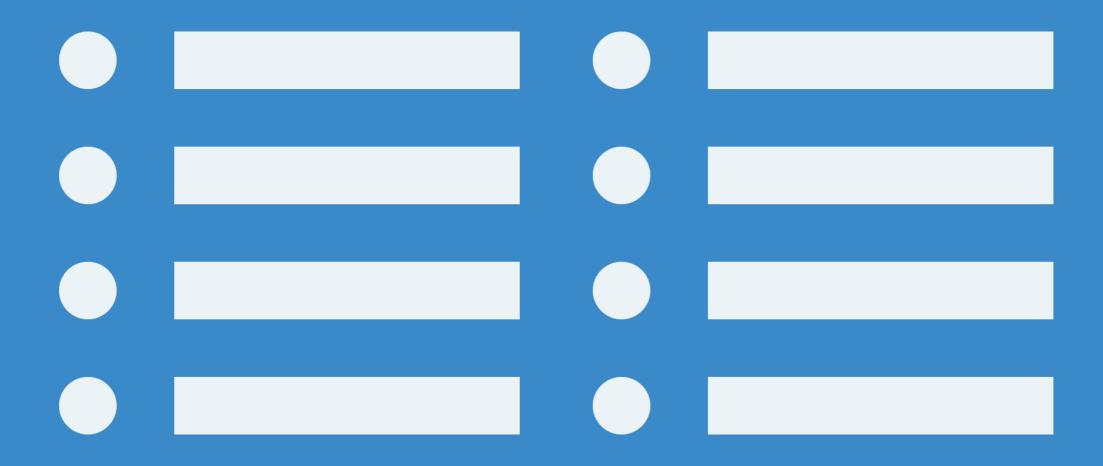
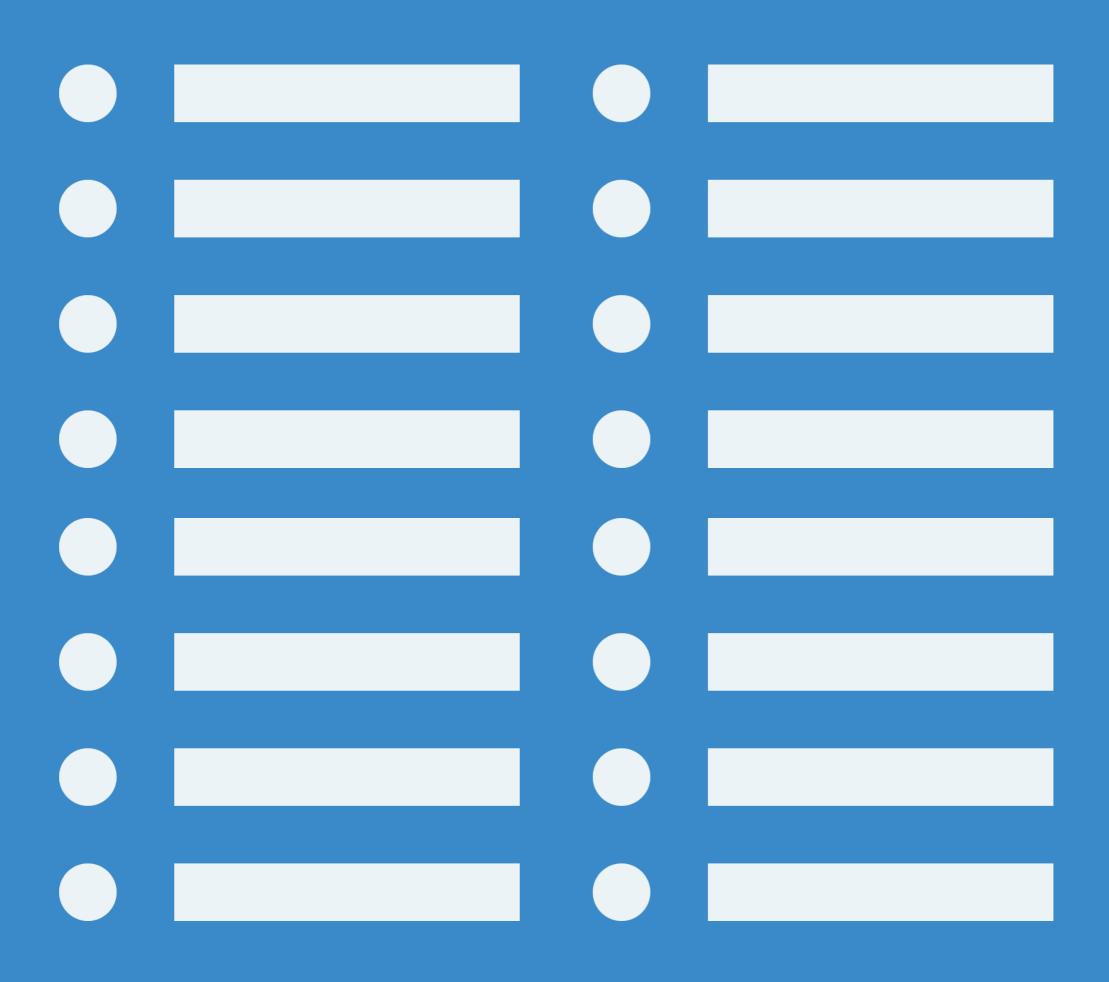
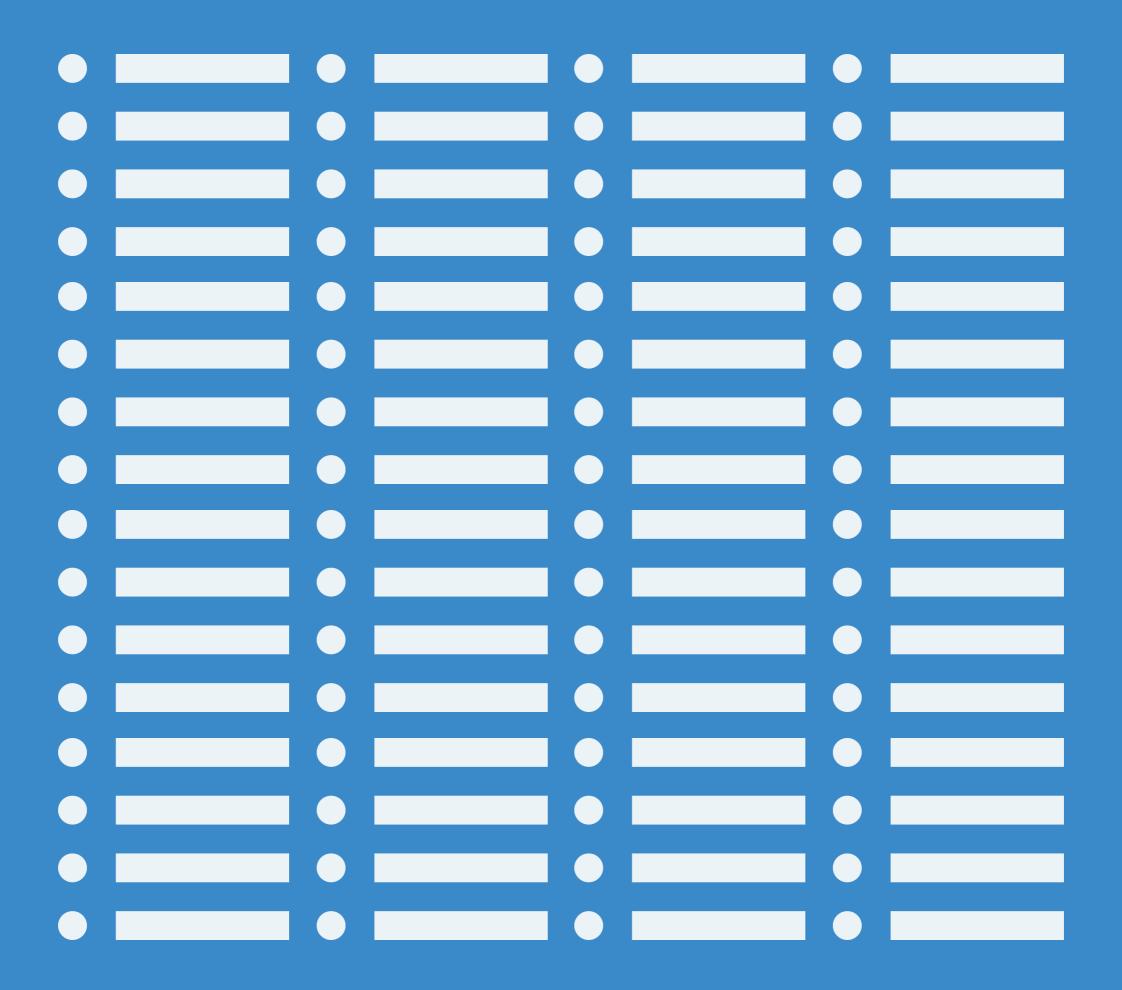
### Stop Hitting Yourself: CSS Design Patterns that Scale







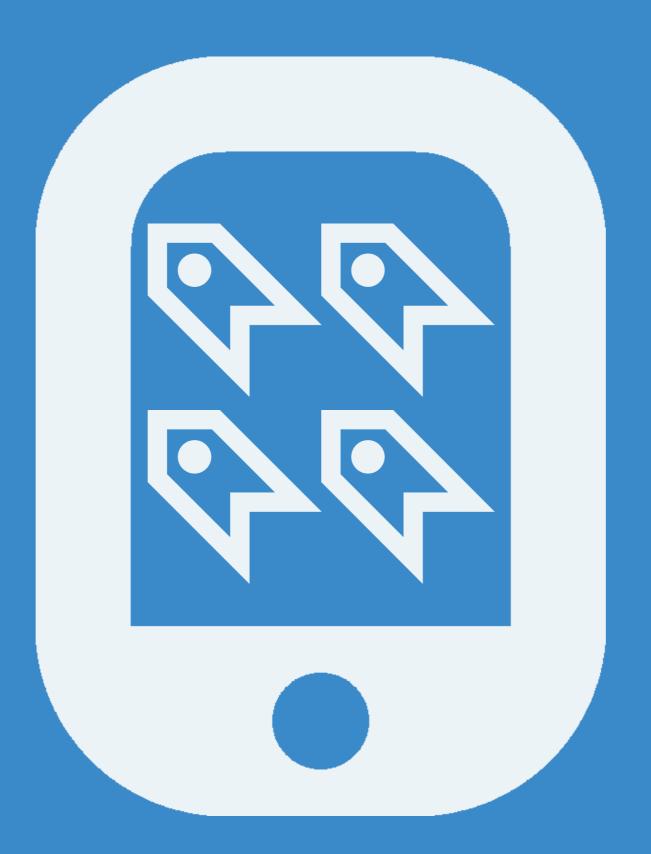


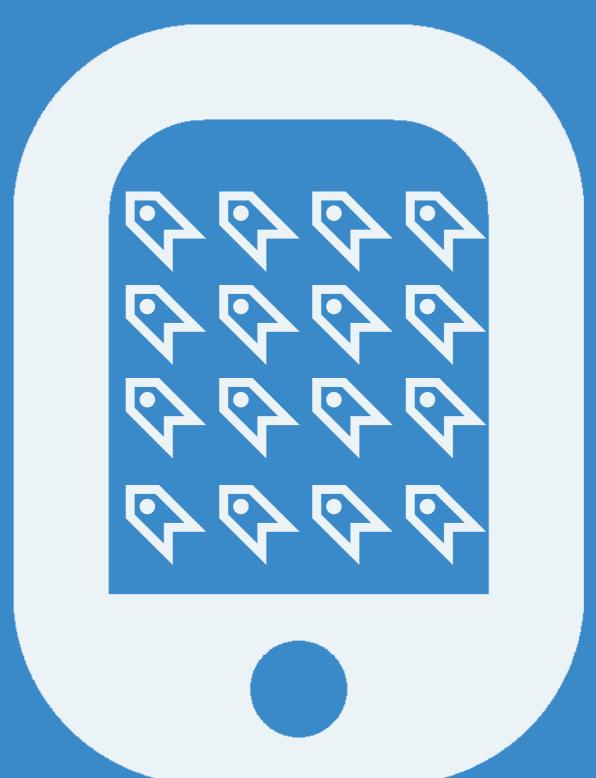


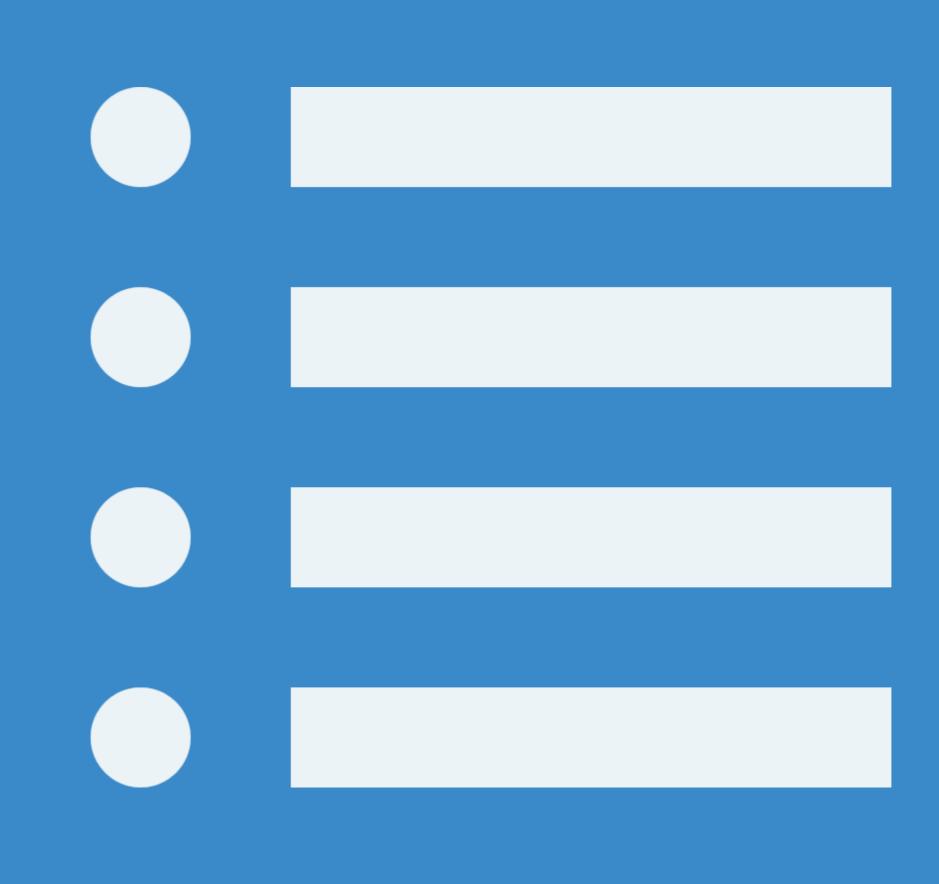












### What works for small

# Doesn't work for

#### Because we build for small

# We struggle with BIG

Because we build for small

#### Scale The ability to

### Scale The ability to reuse

## Scale The ability to reuse acc

## Scale The ability to reuse add fix

#### Reuse Code

# Specific code is too specific

#### Error Name Required

#E9F2F9

#### Error

Name Required

#E9F2F9

#### Error

Name Required

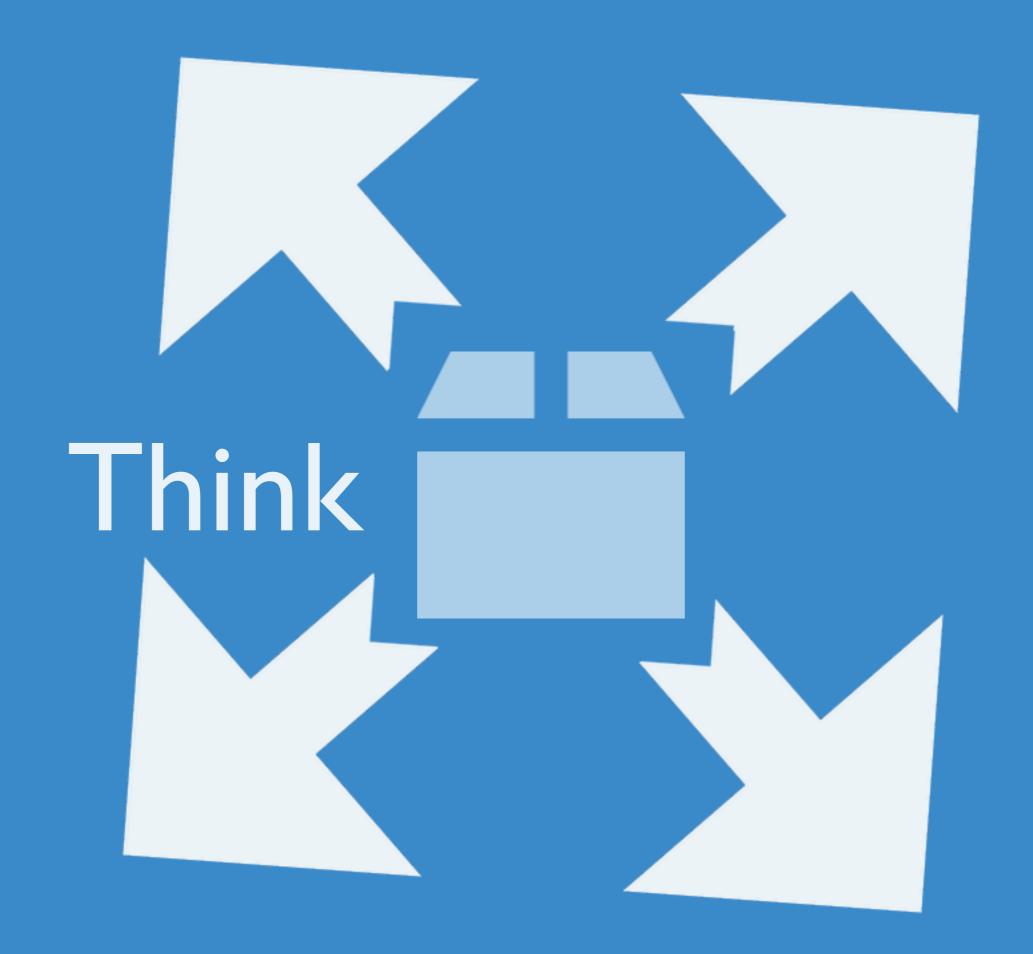
#9CC4E4

```
<div class="error">
<h1>Error:</h1>
Name Required
</div>
```

```
.error h1 {
color: #E9F2F9;
.error p {
color: #9CC4E4;
```

# Simple and Semantic But is it reusable?

### 



## My Life Things I hate:

- Lists
- Irony
- Clichés

#### My Life #E9F2F9 Things I hate:

- Lists
- Clichés

• Irony #9CC4E4

```
<div id="content">
<h1>My Life</h1>
<aside>
 <h2>Things I Hate</h2>
 <u1>
   Lists
   Irony
   Clichés
 </aside>
</div>
```

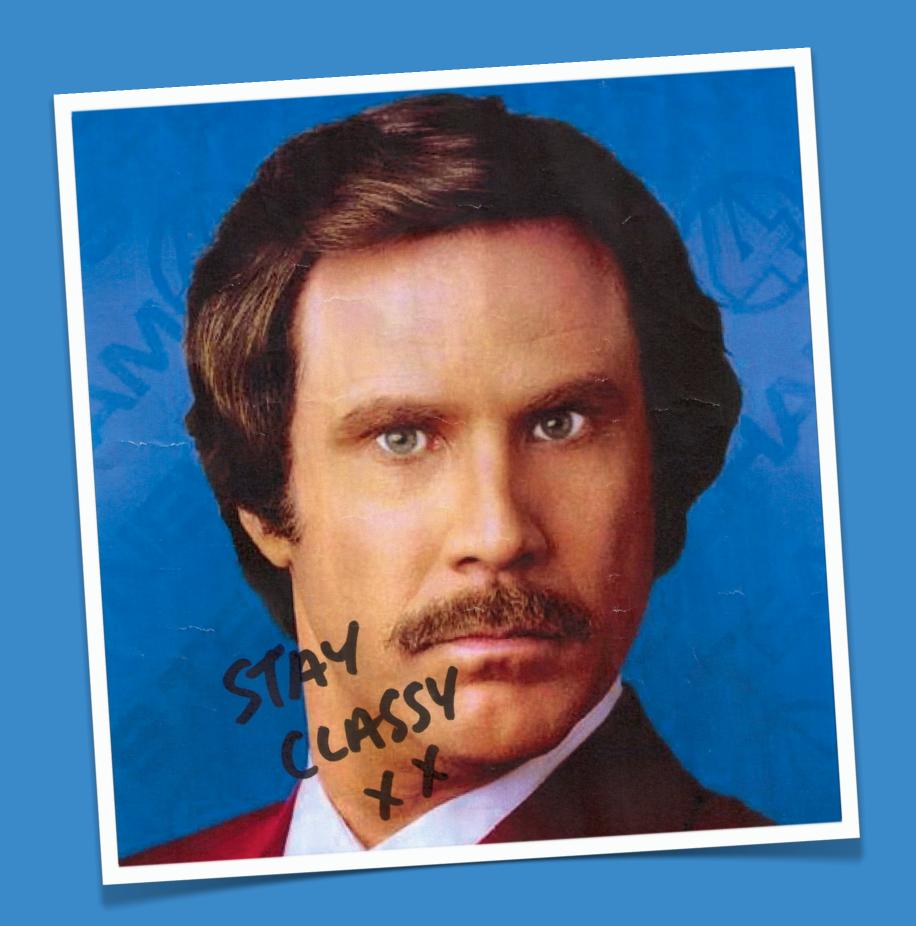
```
error h1,
#content h2 {...}
.error p,
#content li {...}
```

```
<div class="error box">
  <h1 class="box-title">...</h1>
  ...
</div>
```

```
.box .box-title {...}
.box .box-content {...}
```

```
<div id="content">
<h1>My Life</h1>
<aside class="box">
 <h2 class="box-title">...</h2>
 ul class="box-content">
   Lists
   Irony
   Clichés
 </aside>
</div>
```

```
<div id="content">
<h1>My Life</h1>
<aside class="box">
 <h2 class="box-title">...</h2>
 ul class="box-content">
   Lists
   Irony
   Clichés
 </aside>
</div>
```



# Abstract your CSS, just like other code

## Build components, not implementations

## Literally, think outside the box Design outside your needs

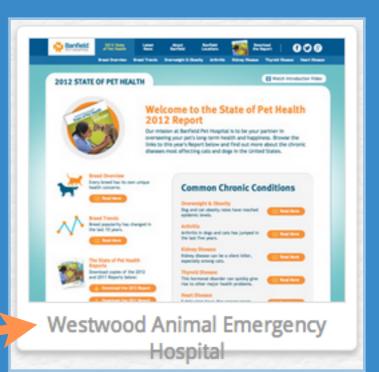
### No "Magic Numbers"

NOVE PROCESS WESOMAN	TODD D EVENTS THAN PRISE	SISTER COMPANIES BLOG CONTACT
	DEEP IN THE H	HEART BRIDES & GROOMS
	NAME DROPPER TO PARTY.	NEW HOME, NEW IDEAS.
	Todd Events	



.site-title {
 height: 30px;
}

.site-title {
 height: 30px;



.site-title {
 min-height: 30px;



Westwood Animal Emergency Hospital

```
.site-title {
    min-height: 30px;
```



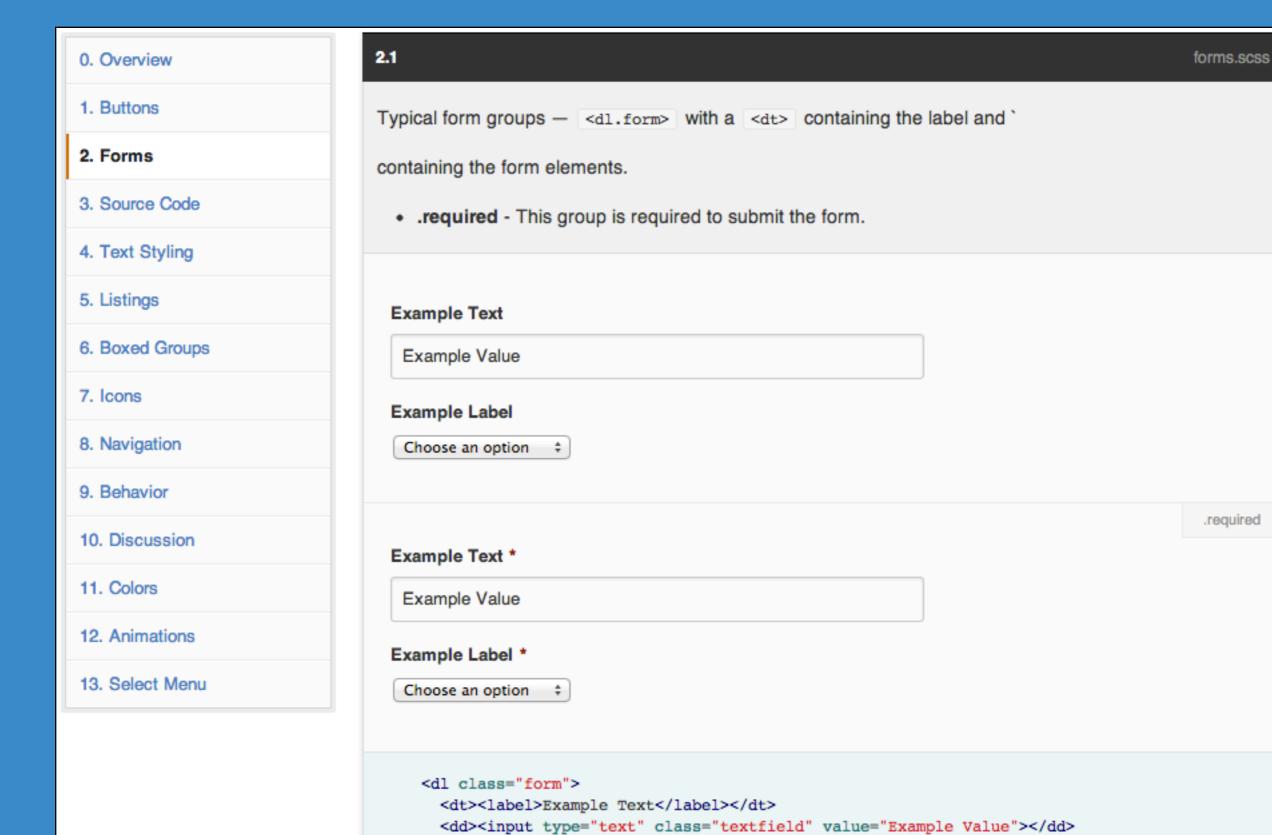
```
.site-title {
    min-height: 30px;
```



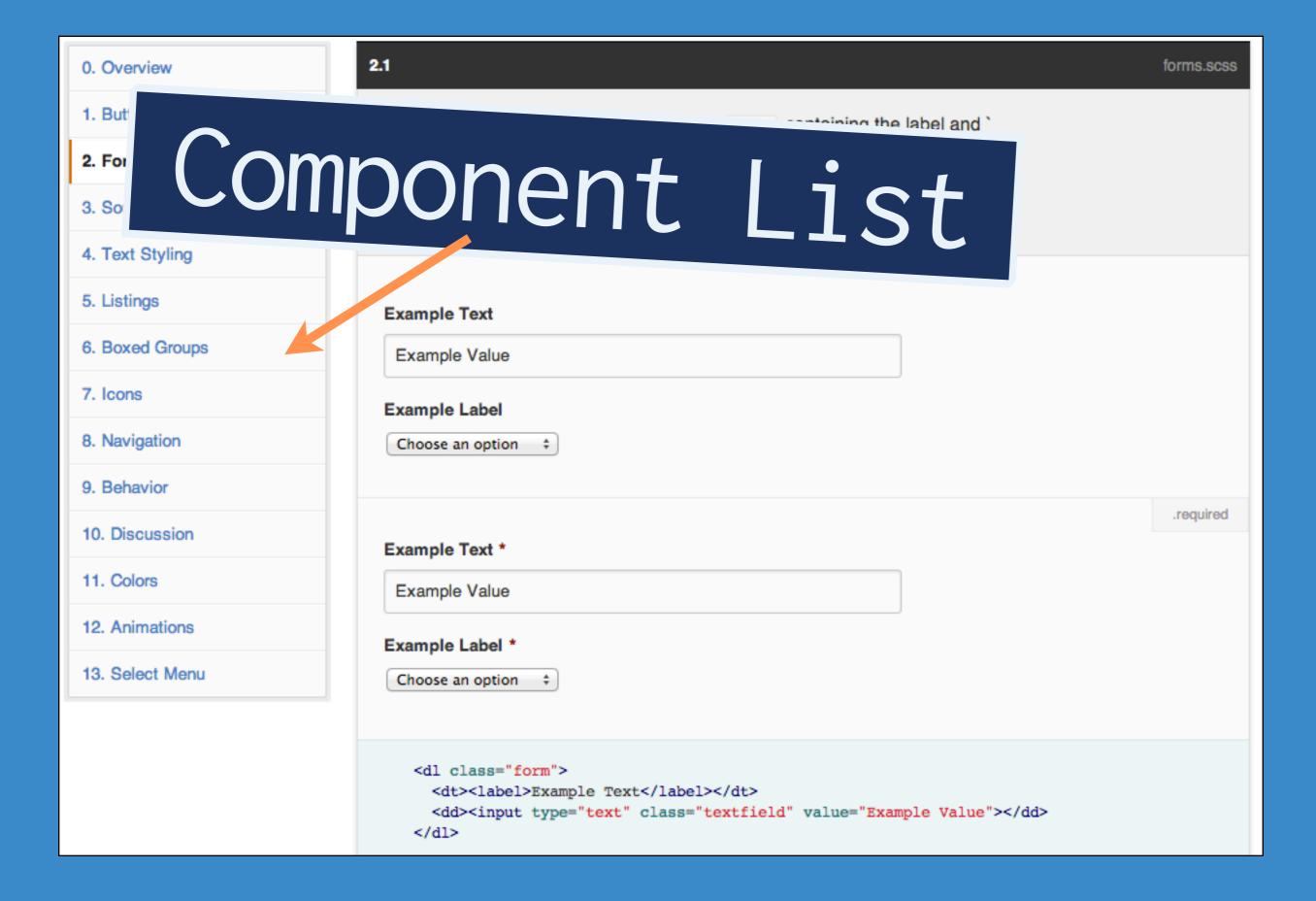
css-tricks.com/magic-numbers-in-css/

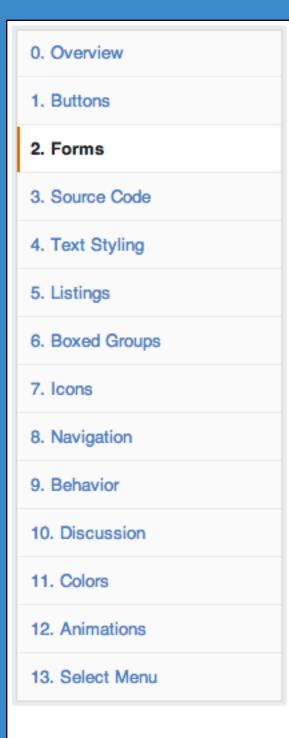
# Component Dashboards

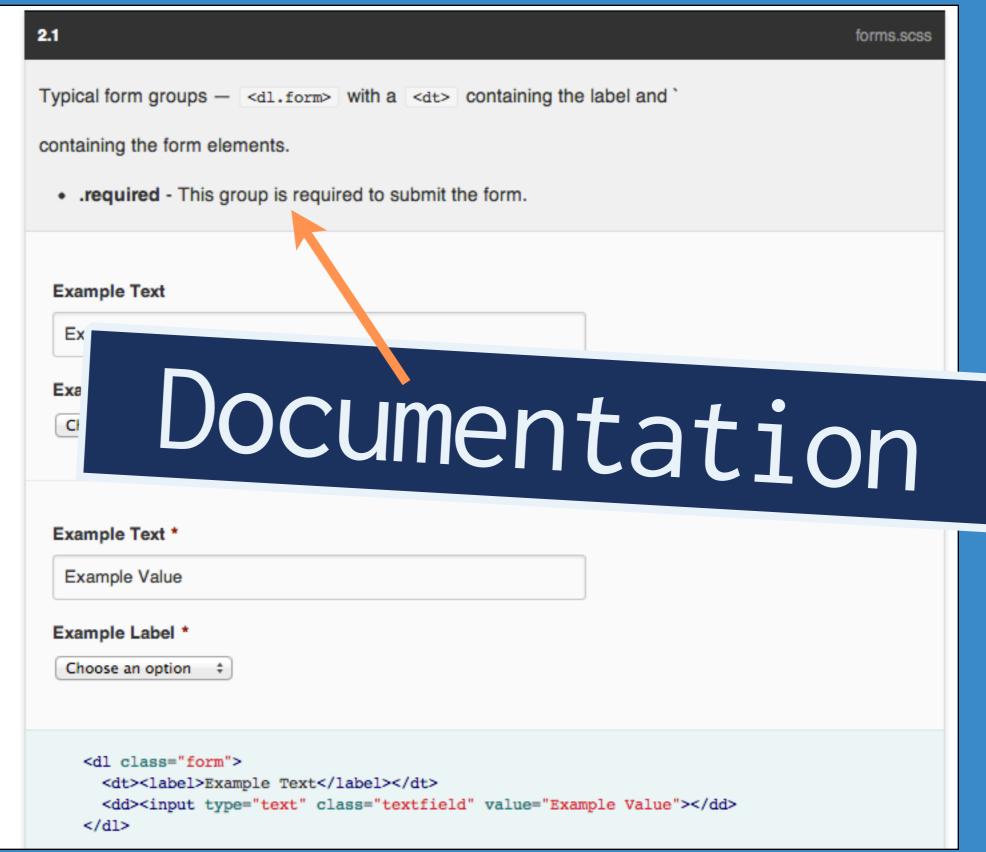
Documentation, Examples, Styleguide

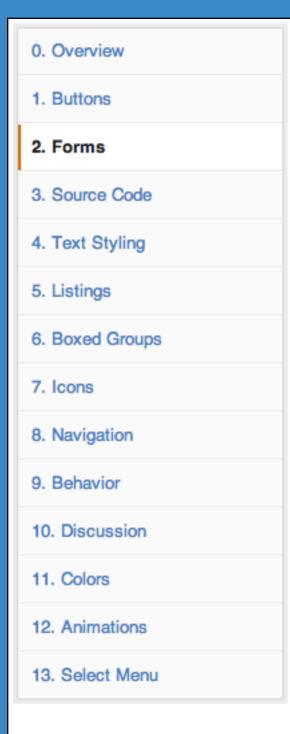


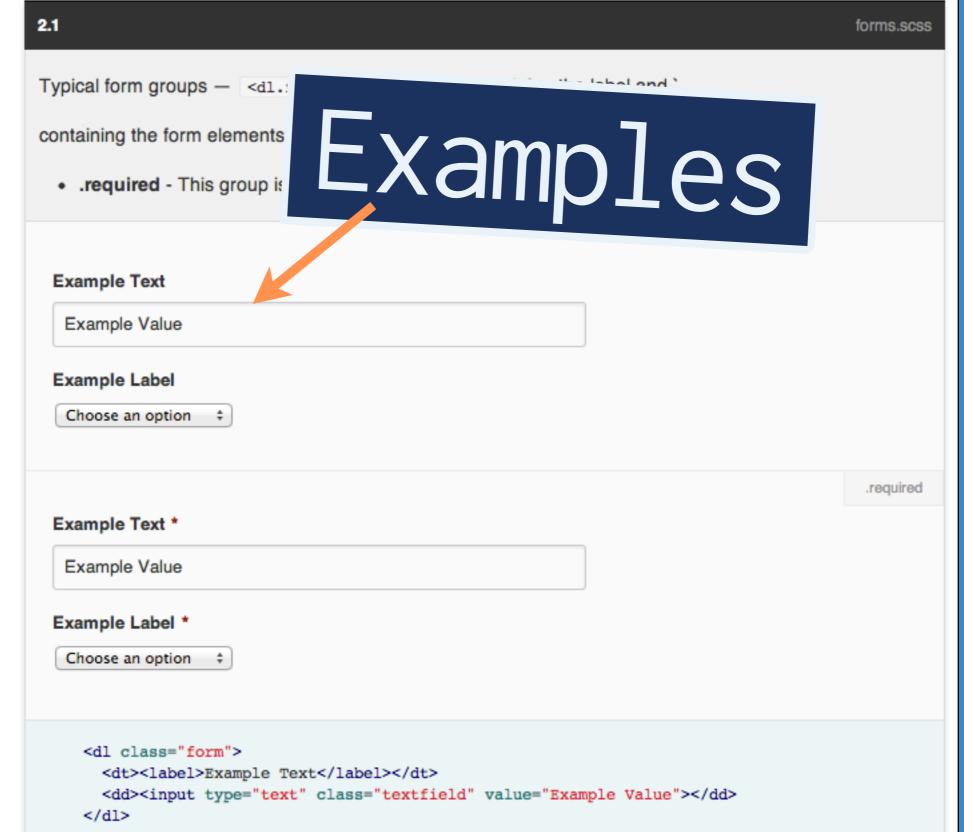
</dl>

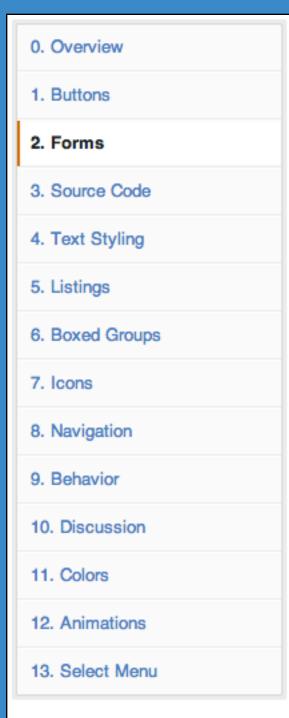


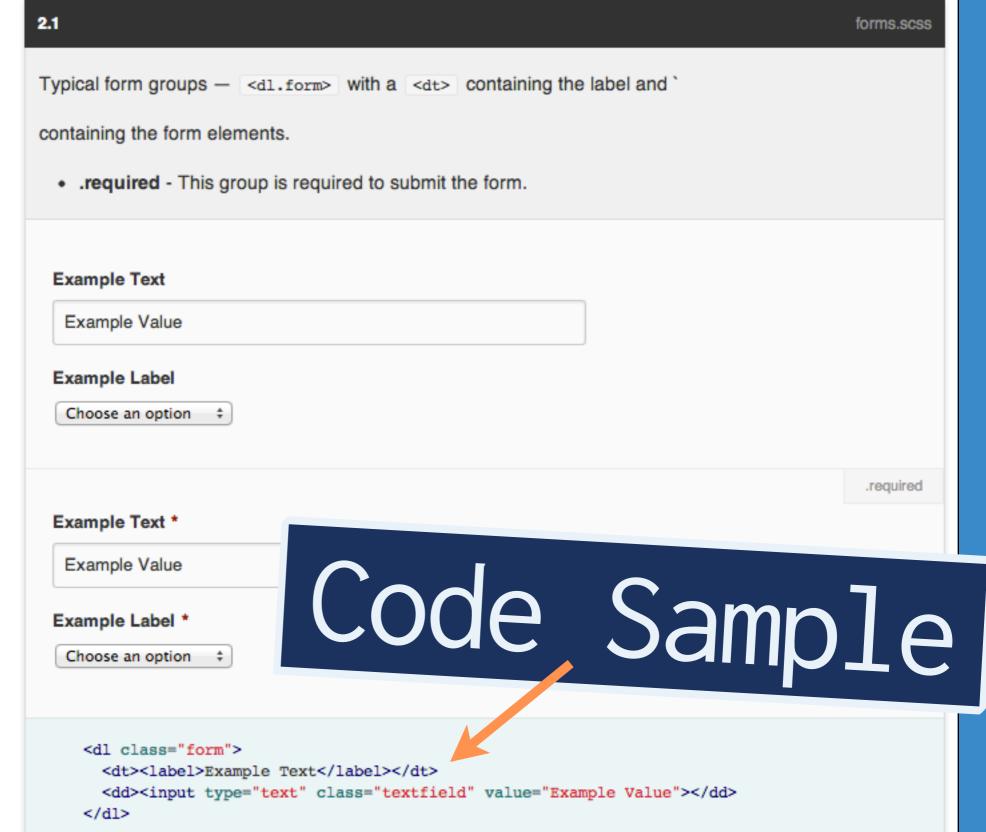












December 5, 2011

#### **Knyle Style Sheets**

So I've been writing CSS for somewhere around 13 years now. Some might think I've learned the right way to write CSS in that time — but if you ask me all I've learned is the most efficient way to drive someone insane.

CSS is complicated. It's not object oriented. It's not hierarchical. It's a specificity based cascade applied to a dynamic hierarchical data structure that few people truly comprehend. Trying to impart this knowledge on someone is a very difficult task with extremely minimal rewards. I used to think that imparting this knowledge was the path toward writing maintainable CSS within a team.

#### Maintainability comes from shared understanding

It's hard to define maintainability. In my eyes it has to do with creating an *shared* understanding. Anyone who has owned an aircooled Volkswagen knows how to adjust valves on any other aircooled Volkswagen. This is because of one of the best technical books ever written: How to Keep Your Volkswagen Alive.

Everyone I know who owned a Bug, Bus, Ghia or Thing owns a copy of this book and

```
// A button suitable for giving stars to someone.
// :hover
                      - Subtle hover highlight.
                      - A highlight indicating you've already
// .stars-given
                        given a star.
// .stars-given:hover - Subtle hover highlight on top of stars-
                        given styling.
// .disabled
                      - Dims the button to indicate it cannot
                        be used.
// Styleguide 1.1.
a.button.star{
 &.star-given{
 &.disabled{
```

```
// A button suitable for giving stars to someone.
// :hover
// .stars-given
// .disabled
// Styleguide 1.1.
a.button.star{
  &.star-given{
  &.disabled{
```

- Subtle hover highlight.

- A highlight indicating you've already given a star.

// .stars-given:hover - Subtle hover highlight on top of starsgiven styling.

> - Dims the button to indicate it cannot be used.

### Structure

```
// A button suitable for giving stars to someone.
// :hover
// .stars-given
// .stars-given:hover
// .disabled
// Styleguide 1.1.
a.button.star{
  &.star-given{
  &.disabled{
```

- Subtle hover highlight.

- A highlight indicating you've already given a star.

Subtle hover highlight on top of starsgiven styling.

- Dims the button to indicate it cannot be used.

## Description

```
// A button suitable for giving stars to someone.
// :hover
// .stars-given
// .disabled
// Styleguide 1.1.
a.button.star{
 &.star-given{
  &.disabled{
```

- Subtle hover highlight.

- A highlight indicating you've already given a star.

// .stars-given:hover - Subtle hover highlight on top of starsgiven styling.

> - Dims the button to indicate it cannot be used.

### Variations

1.1 buttons.css Your standard form button. :hover - Highlights when hovering. · :disabled - Dims the button when disabled. · .primary - Indicates button is the primary action. . .smaller - A smaller button **Example Button** :hover **Example Button** :disabled **Example Button** .primary **Example Button** .smaller **Example Button** <button class="\$modifier\_class">Example Button</button>

## Add Code

# Specificity One ID to rule them all

```
<div id="content">
<h1>One does not simply:</h1>
<u1>
 Walk into Mordor
 Override an ID
</div>
```

```
<div id="content">
<h1>One does not simply:</h1>
<u1>
 Walk into Mordor
 Override an ID
</div>
```

```
<div id="content">
<h1>One does not simply:</h1>
<l
 Walk into Mordor
 Override an ID
</div>
```

```
#content ul {
   margin-left: 10px;
}
#content ul li {
   list-style: square;
}
```

```
<div id="content">
<aside id="related">
 <h2>Other overused memes:</h2>
 <u1>
  What if I told you...
  I don't always...
  Keep calm...
 </aside>
```

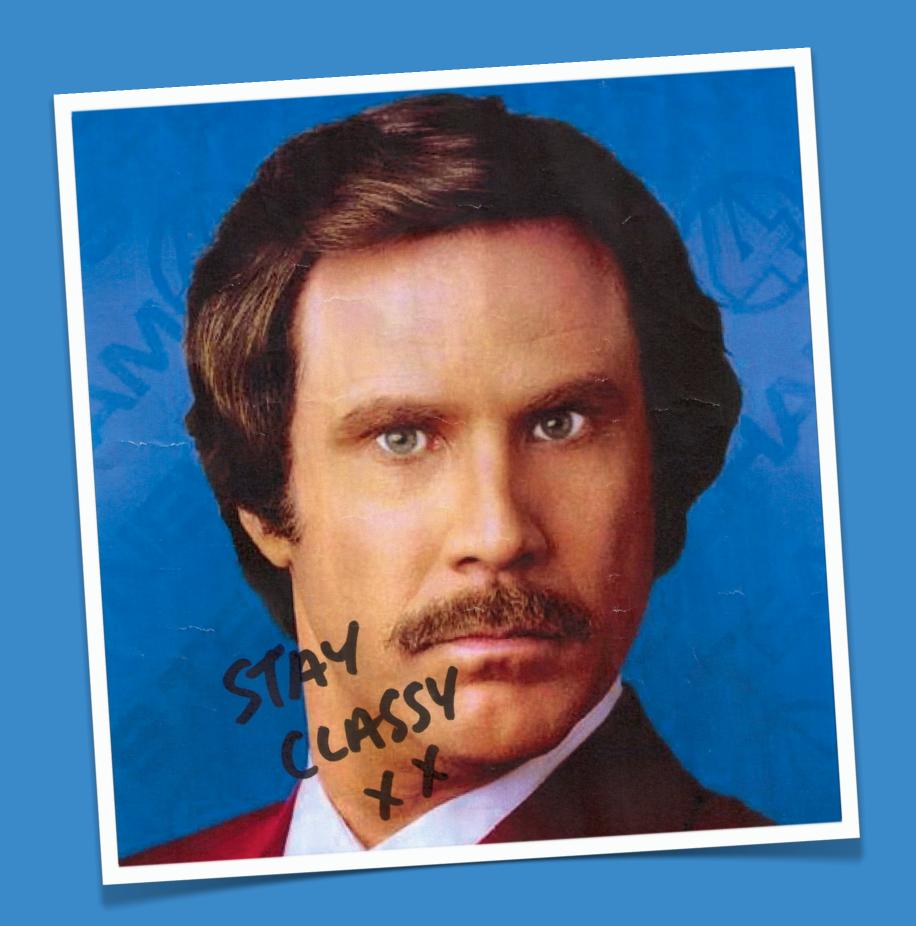
```
#content ul {
  margin-left: 10px;
#content ul li {
  list-style: square;
#content #related ul {
  margin-left: 0;
#content #related ul li {
  list-style: none;
background: url(rage-face.png);
```

```
#content ul {
  margin-left: 10px;
#content ul li {
  list-style: sq
                          Override
#content #related ul
margin-left: 0;
#content #related ul/li {
  list-style: none; background: url(rage-face.png);
```

```
#content ul {
  margin-left: 10px;
#content ul li {
  list-style: sq
                              LDS
#content #related ul
  margin-left: 0;
#content #related ul li {
  list-style: none;
background: url(rage-face.png);
```

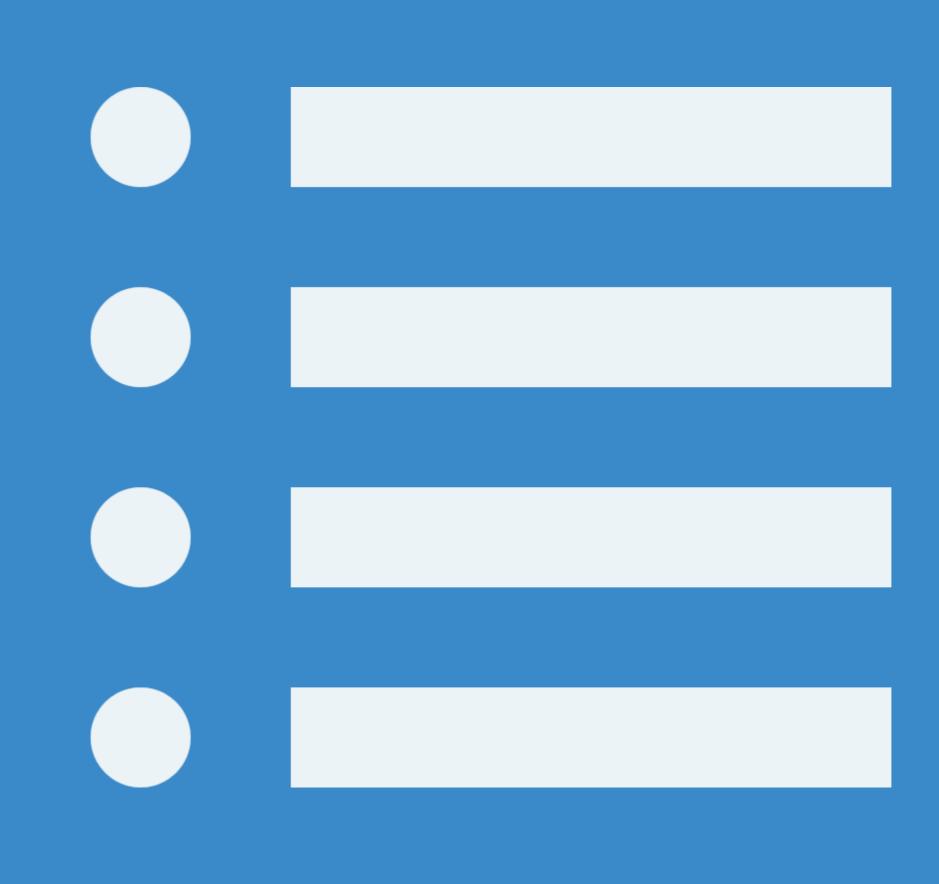
```
<div id="content">
<aside id="related">
 <div class="warning">
  <h2>This post contains:</h2>
  <u1>
   Vulgarity
   Grumpy Cats
  </div>
```

```
#content #related ul {
  margin-left: 0;
#content #related ul li {
  list-style: none;
  background: url(rage-face.png);
#content #related .warning ul {
  margin-left: 10px;
#content #related .warning ul li {
  background: none;
  list-style: disc;
```



```
<div class="content">
<h1>One does not simply:</h1>
...
...
</div>
```

```
<div class="content">
<h1>One does not simply:</h1>
...
 ...
</div>
         what?!
```



```
.content .list {
  margin-left: 10px;
}
.content .list .item {
  list-style: square;
}
```

```
<div class="content">
<aside class="related">
 <h2>Other overused memes:</h2>
 ...
 ...
 ...
 </aside>
```

```
.content .list {...}
.content .list .item {...}
.rage-list .item {
  background: url(rage-face.png);
}
```

```
.content .list {...}
.content .list .item {...}
.rage-list .item {
  background: url(rage-face.png);
}
```

```
Look Ma!
No Overrides
```

```
<div class="content">
<aside class="related">
 <div class="warning">
 <h2>This post contains:</h2>
 ...
  ...
 </div>
```

```
<div class="content">
<aside class="related">
 <div class="warning">
 <h2>This post contains:</h2>
 ...
  ...
 </div>
```

```
.content .list {...}
.content .list .item {...}
.rage-list .item {...}
.warning .list .item {
  list-style: disc;
}
```

```
#content ul {
  margin-left: 10px;
#content ul li {
  list-style: square;
#content #related ul {
  margin-left: 0;
#content #related ul li {
  list-style: none;
  background: url(rage-face.png);
#content #related .warning ul {
  margin-left: 10px;
#content #related .warning ul li {
  background: none;
  list-style: disc;
```

```
.content .list {
 margin-left: 10px;
.content .list .item {
 list-style: square;
.rage-list .item {
 background: url(rage-face.png);
.warning .list .item {
 list-style: disc;
```

```
.content .list {
 margin-left: 10px;
         Shorter Selectors
.content
.rage-list .item {
 background: url(rage-face.png);
.warning .list .item {
 list-style: disc;
```

```
.content .list {
 margin-left: 10px;
.content .list .item
                    Less Code
 list-style: square
.rage-list .item {
 background: url(rage-face.png);
.warning .list .item {
 list-style: disc;
```

```
.content .list {
 margin-left: 10px;
.content .li
            Less Duplication
 list-style
.rage-list .item {
 background: url(rage-face.png);
.warning .list .item {
 list-style: disc;
```

```
.content .list {
 margin-left: 10px;
.content .list
                More Re-use
 list-style: square
.rage-list .item
 background: url(rage-face.png);
.warning .list .item {
 list-style: disc;
```

### Write to Re-write

### Fix Bugs

LAIESI: 10.17

UPDAIL

CHANGES IN VERSION 10.17: THE CPU NO LONGER OVERHEATS WHEN YOU HOLD DOWN SPACEBAR.

#### COMMENTS:

#### LONGTIME USER4 WRITES:

THIS UPDATE BROKE MY WORKFLOW!
MY CONTROL KEY IS HARD TO REACH,
50 I HOUD SPACEBAR INSTEAD, AND I
CONFIGURED EMACS TO INTERPRET A
RAPID TEMPERATURE RISE AS CONTROL.

#### ADMIN WRITES: THAT'S HORRIFYING.

#### LONGTIMEUSER4 WRITES:

LOOK, MY SETUP WORKS FOR ME. JUST ADD AN OPTION TO REENABLE SPACEBAR HEATING.

EVERY CHANGE BREAKS SOMEONE'S WORKFLOW.

### Fixing Bugs

### Fixing Bugs It's not the fall that kills you

### Fixing Bugs

It's the sudden stop Astibility backwards compatibility

#### Fear of Regression

## Fear of Regression for the first of the firs

## Fear of Regression slows progress

### Fear of Regression stifles innovation

## Fear of Regression is what stops you

### No Fear Version your code

## Don't Push Let teams pull

### But I only have one CSS file!

#### One file per component But I only have one CSS file!

# "Man, I hate this solution... but it works"

"Man, this solution is messed up; what does it even do?"

```
div {
  background/**/: blue;
}
```

```
div {
background/**/: blue;
    Hack or fat-finger?
```

```
div {
  #color: blue;
}
```

```
div {
#color: blue;
Huh?
```

#### CSSDoc

```
div {
  * @workaround IE color bug
  * @affected IE6, IE7, IE8
* @css-for IE6, IE7
 #color: blue;
```

```
* @workaround IE color bug
 * @affected IE6, IE7, IE8
* @css-for IE6, IE7
#color: blue;
```

```
* @workaround IE color bug
 * @affected IE6, IE7, IE8
* @css-for IE6, IE7
#color: blue;
```

```
div {
  * @workaround IE color bug
  * @affected IE6, IE7, IE8
* @css-for IE6, IE7
 #color: blue;
```

```
div {
  * @workaround IE color bug
  * @affected IE6, IE7, IE8
* @css-for IE6, IE7
 #color: blue;
```

```
div {
  * @workaround IE color bug
  * @affected IE6, IE7, IE8
* @css-for IE6, IE7
 #color: blue;
```

```
div {
  color: blue;
 height: 12px; }
p{ color:#339;}
```

```
div {
 color: #0F0;
height: 12px;
 color: #339;
```

## Use Design Patterns

You already know them

#### Leave out the details that don't matter

#### Builda oattern ibrary

#### Don't start an arms race with se lectors

### Version your CSS and ive free e de la contraction de la cont

#### Document YOUr intentions

# Treat style with respect

#### SMACSS OOCSS

#### Credits

Font Awesome by Dave Gandy <a href="http://fortawesome.github.com/Font-Awesome">http://fortawesome.github.com/Font-Awesome</a>

Inconsolata Font <a href="http://www.levien.com/type/myfonts/inconsolata.html">http://www.levien.com/type/myfonts/inconsolata.html</a>

Kudos to Michael P. Gilbert <a href="http://www.mpgilbert.com/">http://www.mpgilbert.com/</a>

# Thanks (a) klamping