

SRP & CSS

single responsibility principle

@safareli

About me:

co-founder@uniHack

Technology agnostic software developer

Passionate about sharing experience

Driver of some local developer communities

@safareli - github.com/safareli/resume

Old school way of CSS

```
#footer_container { ... }
#footer_container .footer { ... }
#footer_container .footer .left { ... }
#footer_container .footer .left ul { ... }
#footer_container .footer .left ul li { ... }
#footer_container .footer .left ul li a { ... }
#timer { ... }
#contact, #quizzz { ... }
#contact img, #quizzz img { ... }
#subscribe { ... }
#appForm { ... }
```

Problems

- high specificity
- **coupled**
- scale
- reuse
- maintenance
- add to the bottom of css

Music is the space between the notes.

— Claude Debussy

... {
CSS
}

CSS {

...

}

DO NOT USE #ID

Specificity 'hacks'

```
[ id="someid" ] { ... }  
.btn.btn.btn { ... }
```

Data should live
somewhere...

but where?

what about **HTML**?

There should never be more than one reason
for a class to change.

— single responsibility principle

Every class should have responsibility over a single part of the functionality.

— single responsibility principle

```
<div class="header">
```

```
...
```

```
</div>
```



```
.header{  
  padding: 20px;  
  background: #E6E6E6;  
}
```

```
.header{  
  padding: $space-m;  
  background: $c-brand-light;  
}
```

```
.header{  
  padding: $space-m;  
  background: $c-brand-light;  
}
```

```
.footer{  
  padding: $space-m;  
  background: $c-brand-light;  
}
```

```
.u-bg-brandLight{  
  background: $c-brand-light;  
}
```

```
.u-padding-m{  
  padding: $space-m;  
}
```

```
<div class="u-bg-brandLight  
          u-padding-m">  
    ...  
</div>
```

Bootstrap grid

responsive & mobile-first

```
<span class="textRed textBlue"> ... </span>
```

```
.textRed {  
  color: red;  
}
```

```
@media (min-width: 768px) {  
  .textBlue {  
    color: blue;  
  }  
}
```

```
<div class="row">
  <div class="col-xs-6 col-md-4">
    ...
  </div>
  <div class="col-xs-6 col-md-8">
    ...
  </div>
</div>
```



```
<div class="col-xs-6 col-md-4"> ... </div>
```

```
.col-xs-6 {  
  width: 50%;  
}
```

```
@media (min-width: 768px) {  
  .col-md-4 {  
    width: 25%;  
  }  
}
```

```
$brake:
```

```
sm: 300px
```

```
md: 500px
```

```
lg: 800px
```

```
=generate-grid($namespace: '')
```

```
.col-#{ $namespace }1{ width:50% }
```

```
.col-#{ $namespace }2{ width:100% }
```

```
+generate-grid()
```

```
@for $name, $width in $brake
```

```
@media (min-width: $width)
```

```
+generate-grid($name-)
```

```
.col-1 { . . . }  
.col-2 { . . . }  
@media ( . . . )  
    .col-sm-1 { . . . }  
    .col-sm-2 { . . . }  
@media ( . . . )  
    .col-md-1 { . . . }  
    .col-md-2 { . . . }  
@media ( . . . )  
    .col-lg-1 { . . . }  
    .col-lg-2 { . . . }
```

What if we could write this?

```
<div class="u-mls  
          u-md-mlm  
          u-lg-ml1"> ... </div>
```

```
=responsiver( $name )  
  #{block}  
  @for $brake-name, $width in $brake  
    @media (min-width: $width)  
      .u-#{ $brake-name }-#{ $name }  
        #{block}
```

```
+responsiver(m1s)  
  margin-left:5px
```

```
+responsiver(m1m)  
  margin-left:10px
```

```
+responsiver(m1l)  
  margin-left:20px
```

```
$space:
```

```
  a: auto
```

```
  s: 5px
```

```
  m: 10px
```

```
  l: 20px
```

```
=utilitizer($name, $props, $space)
```

```
  @for $space-name, $space-val in $space
```

```
    +responsiver($name#{ $space-name})
```

```
      @for $prop in $props
```

```
        #{ $prop}: $space-val
```

```
+utilitizer(ml, (margin-left), $space)
```

```
+utilitizer(mr, (margin-right), $space)
```

```
+utilitizer(mt, (margin-top), $space)
```

```
+utilitizer(mb, (margin-bottom), $space)
```

```
+utilitizer(mh, (margin-left, margin-right), $space)
```

```
+utilitizer(mv, (margin-bottom, margin-top), $space)
```

```
=utilitizest($props,$values)  
  @for $class-name,$property, $props  
    +utilitizer($class-name,$property, $space)
```

```
$margins:
```

```
  ml: (margin-left)  
  mr: (margin-right)  
  mt: (margin-top)  
  mb: (margin-bottom)  
  mh: (margin-left, margin-right)  
  mv: (margin-bottom, margin-top)
```

```
+utilitizest($margins,$space)
```

```
$color-values:  
  error: $c-error,  
  success: $c-success,  
  warning: $c-warning
```

```
$color-classes:  
  tc: (color)  
  bgc: (background-color)
```

```
+utilitizest($color-classes,$color-values)
```


▼ utils

- _align.scss
- _border.scss
- _color.scss
- _display.scss
- _helpers.scss
- _layout.scss
- _list.scss
- _margin.scss
- _padding.scss
- _position.scss
- _size.scss
- _text.scss

in css

.u-* 300

.u-sm-* 200

.u-lg-* 200

.u-md-* 200

in one big page
~2000 classes

“ისე გამისწორდა შენ ნამუშევარზე ბეჭის
კეთება რო არ იცო, რაღაცეების შეცვლა
მომიწია და ყველაფერი კლასი არის
სიტკბო”

– Backend developer

Questions?

10x

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