



Why Sass?

- Fully CSS-compatible
- Language extensions such as variables, nesting, and mixins
- Many useful functions for manipulating colors and other values
- Advanced features like control directives for libraries
- Well-formatted, customizable output





```
body {
      font-family: $fontStd;
      background-color: $backgroundColor;
      backr
    // Styling
                            der
     header {
11
      dis
      position: fixed;
12
13
      top: 0;
14
      left: 0;
15
      z-index: 100;
17
      width: 100%;
      height: 65px;
      background-color: $navbarbackground;
19
      color: $textColor;
20
21
22
      border-top: 4px solid SmainRed;
      border-bottom: 4px solid $mainBlue;
23
24
      box-shadow: 0px 3px 9px 0px $shadowColor;
25
26
      ol {
27
        display: block;
        float: right;
29
        height: 100%;
30
        margin: 0;
31
32
      img {
        height: 45px;
        margin: 3px 25px 10px 25px;
      }
37
38
      li {
        display: flex;
40
        float: left;
        height: inherit;
41
42
        align-items: center;
43
        padding: 20px;
         font-weight: 100;
        &:before {
47
          margin-right: 15px;
          height: 25px;
```

3	body
4	font-family: \$fontStd
5	background-color: \$backgroundColor
6	backgrown/ima ippedBa ng)
7	
8	
9	// Styling e He
10	header
11	displ
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17	width: 100%
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19	background-color: Snavbarbackground
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42	font-weight: 100
43	6 hafara
44	&: before
45	margin-right: 15px
46	height: 25px
47	f Hamadan all hafara
48	&#createpoll:before</th></tr></tbody></table>

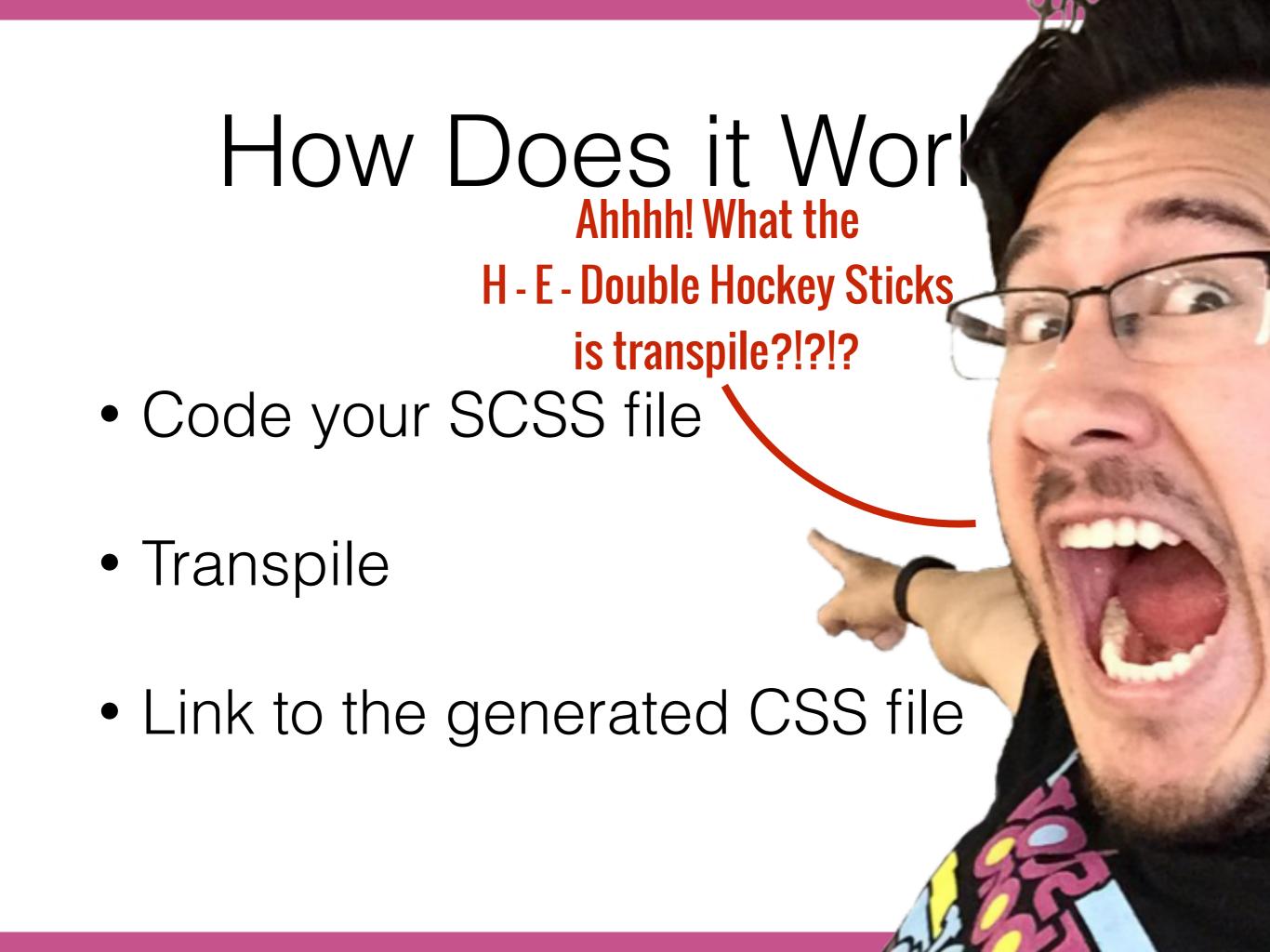
How Does it Work?

Code your SCSS file

Transpile

Link to the generated CSS file





Transpiling is a specific term for taking source code written in one language and transforming into another language that has a similar level of abstraction.



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And you can make this happen automagically. Command line sass comes with a folder watcher that will process any sass/scss files on save. Many IDE have file watchers that will transpile on save.

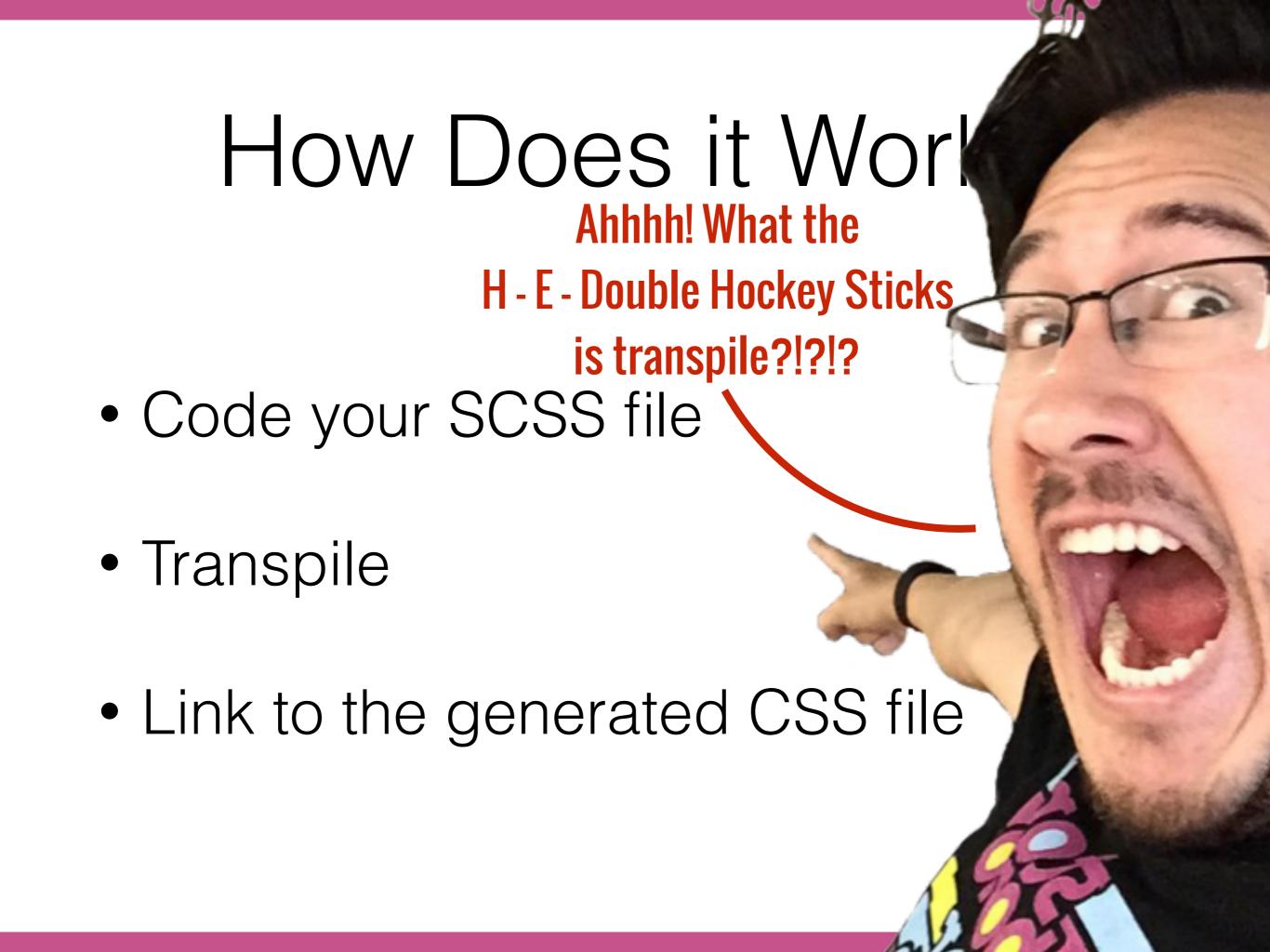


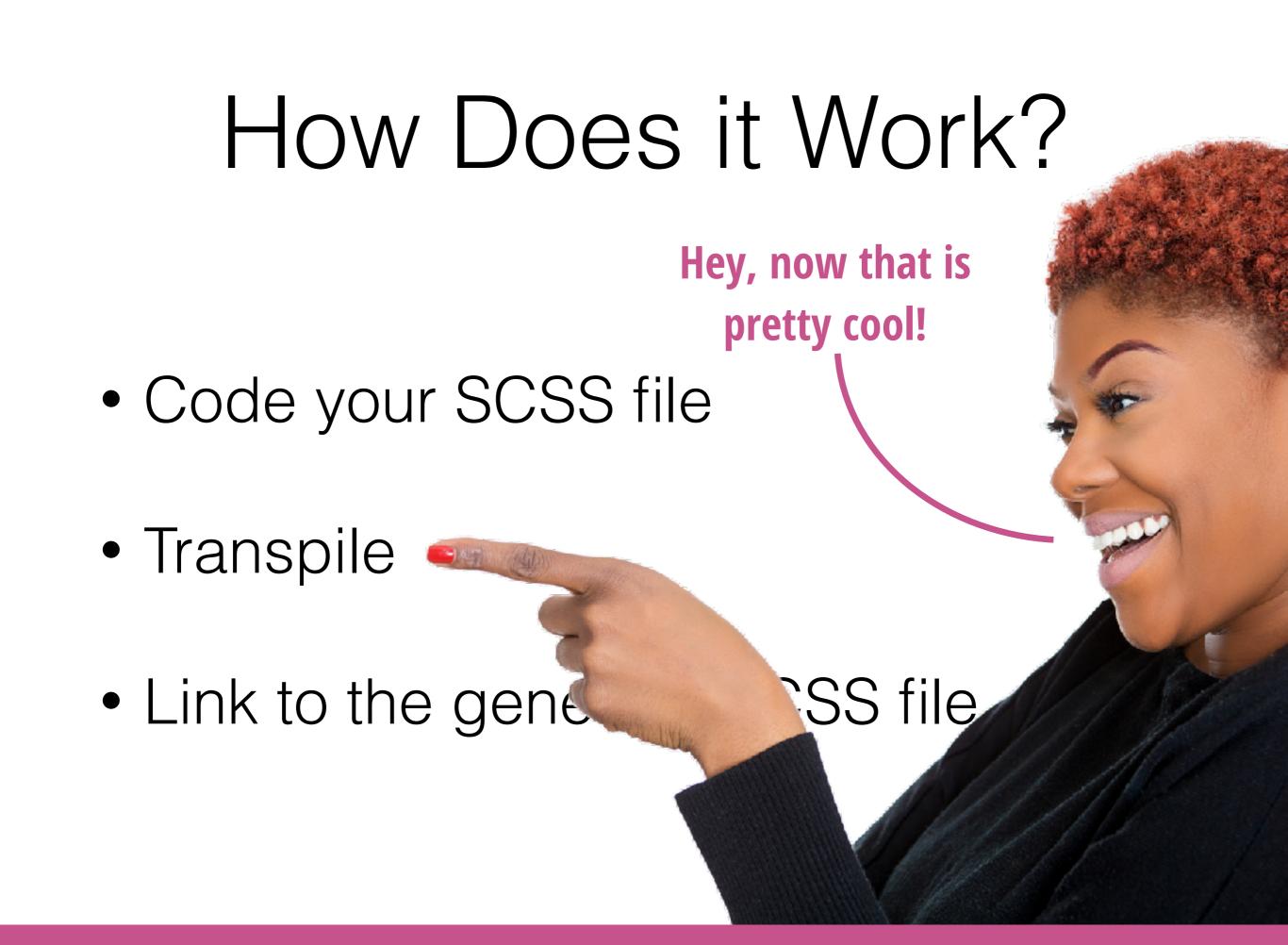
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         font-weight: 100;
        &:before {
47
          margin-right: 15px;
          height: 25px;
```

16	body {
17	font-family: "Open Sans", sans-serif;
18	background-color: #F0F0F0;
19	background: url(Str: rour
20	
21	header {
22	display: block
23	position: fixed
24	top: 0;
25	left: 0;
26	z-index: 100;
27	width: 100%;
28	height: 65px;
29	background-color: #FFF;
30	color: #333333;
31	border-top: 4px solid #BA3D37;
32	border-bottom: 4px solid #1C3D78;
33	box-shadow: @px 3px 9px @px #999999; }
34	header ol {
35	display: block;
36	float: right;
37	height: 100%;
38	margin: 0; }
39	header img {
40	height: 45px;
41	margin: 3px 25px 10px 25px; }
42	header li {
43	display: flex;
44	float: left;
45	height: inherit;
46	align-items: center;
47	padding: 20px;
48	font-weight: 100; }
49	header li:before {
50	margin-right: 15px;
51	height: 25px; }
52	header li#createpoll:before {
53	<pre>content: url(/images/election_icon_k.png);</pre>
54	margin-top: -10px; }
55	header li.selected#createpoll:before {
56	<pre>content: url(/images/election_icon_w.png);</pre>
57	margin-top: -10px; }
58	header li#mypolls:before {
59	<pre>content: url(/images/vote_icon_k.png);</pre>
60	margin-top: -5px; }
61	header li selected#mypolls:hefore {





Referencing parent selector (&)

Nesting properties

Variables

Math

Imports

Extend Classes

Mixins



Referencing parent selector (&)

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Extend Classes

Mixins

```
#main p {
  color: #00ff00;
  width: 97%;

  .redbox {
    background-color: #ff0000;
    color: #000000;
}
```

```
#main p {
  color: #00ff00;
  width: 97%; }
  #main p .redbox {
    background-color: #ff0000;
    color: #000000; }
```

Referencing parent selector (&)

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```
a {
  font-weight: bold;
  text-decoration: none;
  &:hover { text-decoration: underline; }
  body.firefox & { font-weight: normal; }
}
```

```
a {
  font-weight: bold;
  text-decoration: none; }
  a:hover {
    text-decoration: underline; }
  body.firefox a {
    font-weight: normal; }
```

Referencing parent selector (&)

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```
.funky {
  font: {
    family: fantasy;
    size: 30em;
    weight: bold;
  }
}
```

```
.funky {
  font-family: fantasy;
  font-size: 30em;
  font-weight: bold; }
```

Referencing parent selector (&)

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Mixins

```
#main {
    $width: 5em !global;
    width: $width;
}

#sidebar {
    width: $width;
}
```

```
#main {
  width: 5em;
}

#sidebar {
  width: 5em;
}
```

Referencing parent selector (&)

Nesting properties

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Mixins

```
p {
  font: 10px/3px;
  width: 500px;
  height: 250px;
  margin-left: 9px; }
```

Referencing parent selector (&)

Nesting properties

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Mixins

For example, if example.scss contains

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

then

```
#main {
  @import "example";
}
```

would compile to

```
#main .example {
  color: red;
}
```

Referencing parent selector (&)

Nesting properties

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Extend Classes

Mixins

```
.error {
  border: 1px #f00;
  background-color: #fdd;
}
.seriousError {
  @extend .error;
  border-width: 3px;
}
```

```
.error, .seriousError {
  border: 1px #f00;
  background-color: #fdd;
}
.seriousError {
  border-width: 3px;
}
```

Referencing parent selector (&)

Nesting properties

Variables

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Imports

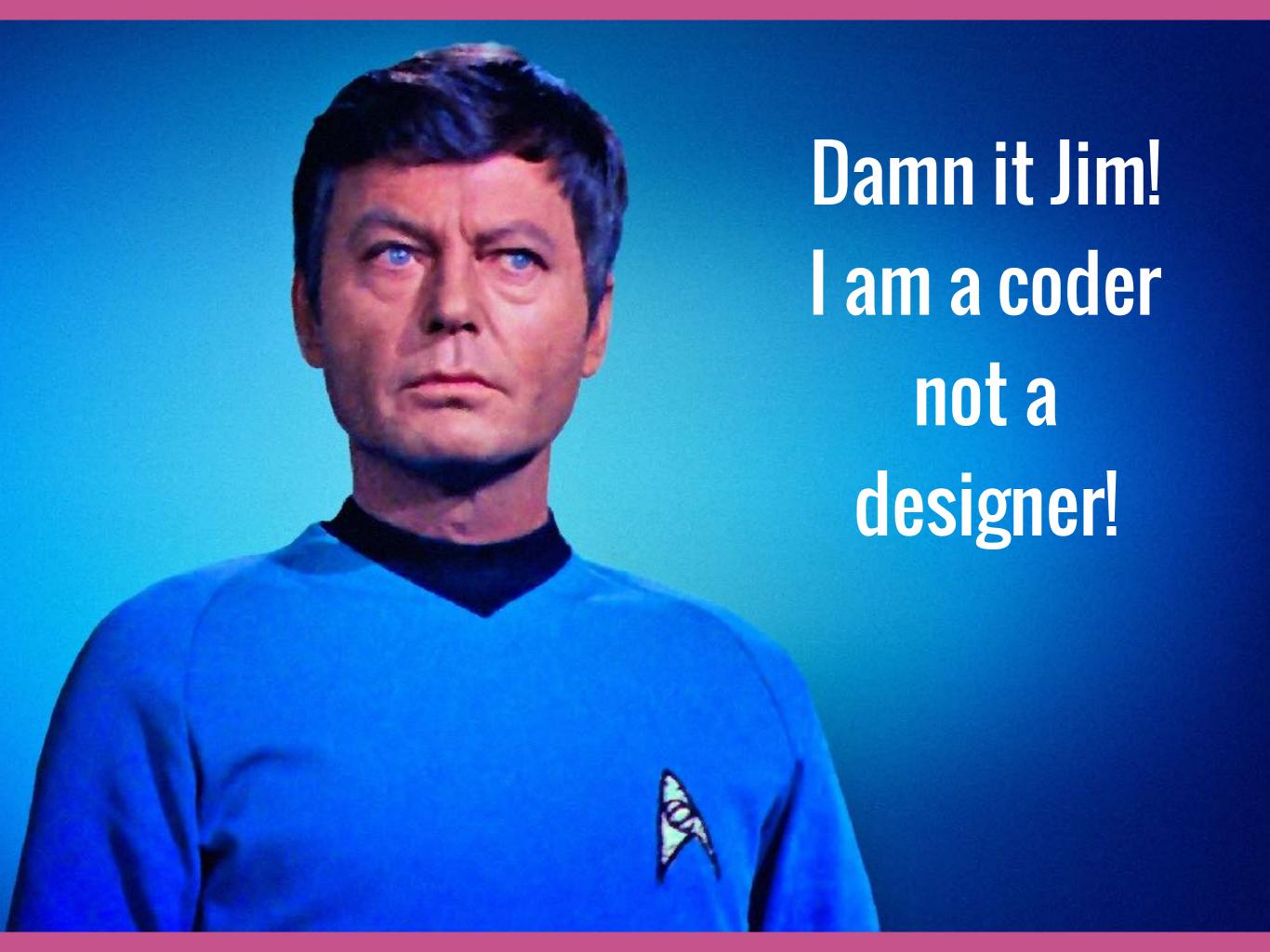
Extend Classes

Mixins

```
@mixin large-text {
  font: {
    family: Arial;
    size: 20px;
    weight: bold;
  }
  color: #ff0000;
}
```

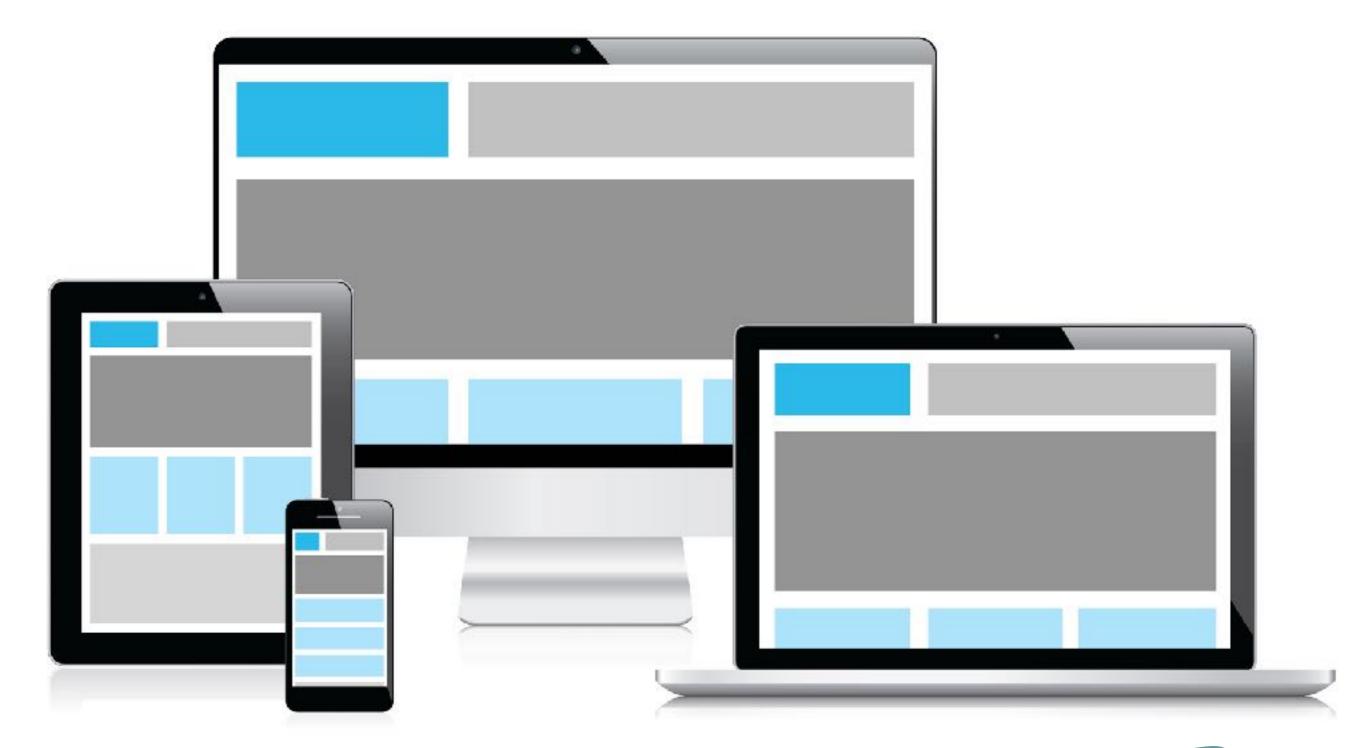
```
.page-title {
  @include large-text;
  padding: 4px;
  margin-top: 10px;
}
```

```
.page-title {
  font-family: Arial;
  font-size: 20px;
  font-weight: bold;
  color: #ff0000;
  padding: 4px;
  margin-ton: 10px; }
```





Responsive Design





Web Resources

- Sass Homepage: http://sass-lang.com/
- CSS-Tricks: https://css-tricks.com/
- W3Schools: http://www.w3schools.com/css/
- The Sass Way: http://thesassway.com/
- Sassmeister: http://www.sassmeister.com/



