

# LessCSS

Myles Braithwaite

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The background is a soft-focus photograph of a natural scene. It appears to be a body of water, possibly a lake or a wide river, with a line of trees on the opposite shore. The trees have some autumnal colors, with hints of yellow and orange. The sky is a pale, hazy blue. The overall mood is serene and contemplative.

Behind every beautiful thing,  
there's some kind of pain.

— Bob Dylan

# What is LessCSS?

Why?

Ask anyone  
CSS Sucks!

Not Really  
But it's hard.

```
<h1 style="font-family:Helvetica;font-size:2em;font-weight:normal;">  
  <span style="font-weight:bold;">Myles</span>  
  <span style="display:none;">Alden</span>  
  <span>Braithwaite</span>  
</h1>
```

How?



# Variables

```
@black: #141414;
```

```
p {  
    color: @black;  
}
```

# Tangent

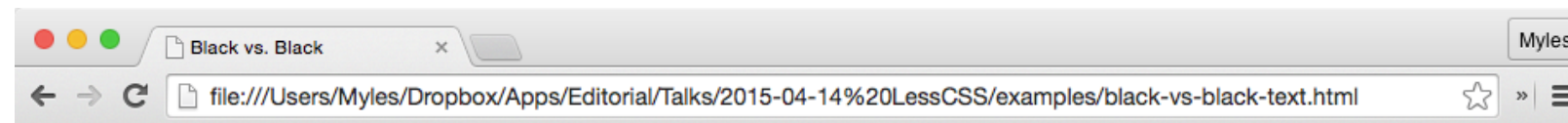
Design Tip: Never Use Black  
by *Ian Storm Taylor*.





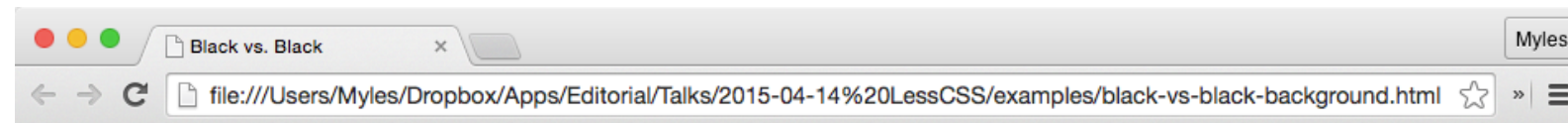






**Hello, World!      Hello, World!**

<http://myles.github.io/2015-04-14-lesscss/black-vs-black-web-site-text.html>



<http://myles.github.io/2015-04-14-lesscss/black-vs-black-web-site-background.html>

# Built in Functions

```
@blue: rgb(0, 161, 226);
@dark-blue: darken(@blue, 10%);
@light-blue: lighten(@blue, 10%);

a {
  color: @blue;
  text-decoration: none;
  border-bottom: 1px solid @dark-blue;
  &:hover {
    color: @dark-blue;
    border-bottom-color: @blue;
  }
  &:active {
    color: @light-blue;
    border-bottom-color: @dark-blue;
  }
}
```

# Fuctions

- **Miscellaneous:** color, image-size, image-width, image-height, convert, data-uri, default, unit, get-unit, and svg-gradient.
- **String:** escape, e, % format, and replace.
- **List:** length and extract.
- **Type:** isnumber, isstring, iscolor, iskeyword, isurl, ispixel, isem, ispercentage, isunix, and isruleset.



## Functions *Math*

- **Math:** `ceil`, `floor`, `percentage`, `round`, `sqrt`, `abs`, `sin`, `asin`, `cos`, `acos`, `tan`, `atan`, `pi`, `pow`, `mod`, `min`, and `max`.

## **Fuctions *Colour***

- **Colour Definition:** `rgb`, `rgba`, `argb`, `hsl`, `hsla`, `hsv`, and `hsva`.
- **Colour Channel:** `hue`, `saturation`, `lightness`, `hsvhue`, `hsvsaturation`, `hsvvaule`, `red`, `green`, `blue`, `alpha`, `luma`, and `luminance`.

## **Fuctions *Colour* (continuted)**

- **Color Operation:** saturate, desaturate, lighten, darken, fadein, Colour, fade, spin, mix, greyscale, and contrast.
- **Colour Blending:** multiply, screen, overlay, softlight, hardlight, difference, exclusion, average, and negation.

# Loops

```
.make-columns(4);  
  
.make-columns(@n, @i: 1) when (@i =< @n) {  
  .column-@{i} {  
    width: (@i * 100% / @n);  
  }  
  .generate-columns(@n, (@i + 1));  
}
```

## Outputs

```
.column-1 { width: 25%; }  
.column-2 { width: 50%; }  
.column-3 { width: 75%; }  
.column-4 { width: 100%; }
```

# Mixins

```
.min-resolution(@size) {  
    -webkit-min-device-pixel-ratio: @size;  
    -moz-device-pixel-ratio: @size;  
    min-resolution: @size;  
}  
  
.2x(@path, @w: auto, @h: auto) {  
    background-image: url(@path);  
    @2x_path: ~`@{path}.replace(/\.\w+$/, function(match) { return "@2x" + match; })`;   
    @media (.min-resolution(1.5px)) {  
        background-image: url("@{2x_path}");  
        background-size: @w @h;  
    }  
}
```

# Extend

```
article.pretty {  
  header {  
    h1 {  
      font-family: 'Sanchez', @serif-family;  
    }  
  }  
  section, footer {  
    font-family: 'Questrial', @sans-serif-family;  
  }  
  section {  
    color: @dark-gray;  
  }  
  footer {  
    color: @gray;  
  }  
}
```



Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.

[Download Bootstrap](#)

Currently v3.3.4



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Unlimited disk space  
and transfer for one low  
price.

ads via Carbon

# Extend Your Website With BootstrapCSS

- Font-end Framework for web sites.
- <http://getbootstrap.com/>

# Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed at ex faucibus est placerat gravida et ut erat. Nunc et metus vitae dolor ornare suscipit in eu lorem. Aliquam fermentum auctor tempor. Proin nunc dui, mattis vel lorem vel, ornare tempus augue. Nullam mollis augue risus, et sollicitudin sem convallis sed. Aliquam erat volutpat. Donec vel ullamcorper ipsum. Phasellus blandit, odio vel convallis molestie, turpis leo blandit nisi, a tincidunt lacus metus eu est. Donec eros leo, mattis eu dapibus non, facilisis bibendum risus. Morbi vitae velit ligula. Aliquam erat volutpat. Etiam accumsan justo urna, eu ultricies urna varius eu. Lorem ipsum dolor sit amet, consectetur adipiscing elit. In ante nulla, pellentesque vitae pretium ut, faucibus scelerisque neque. Maecenas id tortor faucibus, placerat dui vel, consequat purus.

## Section Two

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## Section Three

Aliquam vitae tristique leo. Integer a auctor lorem. Mauris sodales elementum justo vel pellentesque. Vestibulum scelerisque diam feugiat purus vulputate ornare. Pellentesque malesuada lacinia massa at vestibulum. Fusce id nisi a augue laoreet fringilla. Phasellus at mauris tincidunt, lacinia turpis sed, lacinia nisi. Nunc iaculis ornare quam ac cursus. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus condimentum velit ac orci vehicula pharetra. Cras tempus dapibus odio, sit amet iaculis ligula ultricies id. Quisque gravida risus dapibus ipsum congue bibendum. Vestibulum placerat turpis bibendum erat sagittis mollis. Aliquam lectus elit, feugiat fermentum mi quis, porta congue ipsum. Ut nulla orci, gravida eget viverra et, faucibus lacinia enim. Integer porttitor ex leo, at rutrum mauris interdum ut.

Mauris tristique ex velit, vitae lobortis odio pretium eu. Nunc ut maximus tellus. In aliquam pharetra sem ut ultricies. Sed sit amet justo ac ex elementum luctus. Vestibulum mollis arcu id elit molestie, at efficitur sem luctus. Suspendisse pretium nisl ex, ac porttitor orci volutpat vel. Suspendisse congue nisl ac lectus tincidunt, vel imperdiet augue vestibulum. Nullam sem neque, tempor sed pretium ut, luctus quis eros. Duis porta commodo pulvinar. Integer posuere laoreet sollicitudin.

## Section Four

Nulla sit amet massa id leo eleifend varius vel eu neque. Donec eleifend metus a eros interdum, non dictum nibh faucibus. Suspendisse vitae leo nec lectus feugiat volutpat. Donec bibendum quis massa vel faucibus. Nam a tempus leo, eu varius est. Vestibulum facilisis id quam id tincidunt. Cras consectetur nec mi sit amet dictum.

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# article.html

```

<main>
  <article>
    <header>
      <h1>Article Title</h1>
    </header>
    <section>
      <!-- the body of the article -->
    </section>
    <aside>
      <!-- table of contents -->
    </aside>
    <footer>
      <!-- author, published date, copyright -->
    </footer>
  </article>
</main>

```



# \_layout.less

```
/* _layout.less START */
main {
  .container();
}
article {
  .make-row();
}
header, footer {
  .make-xs-column(12);
}

section {
  .make-sm-column(8);
}

aside {
  .make-sm-column(4);
  .hidden-xs();
}
/* _layout.less END */
```

## Lorem Ipsum

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## Section Two

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# Lorem Ipsum

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# \_typography.less

```

/* _typography.less START */
@font-family-base: 'Questrial', @font-family-sans-serif;
@headings-font-family: 'Sanchez', @font-family-serif;

article {
  header {
    .page-header();
  }

  section {
    p {
      &:first-of-type { .lead(); }
    }
  }

  footer {
    padding-top: ((@line-height-computed / 2) - 1);
    margin: (@line-height-computed * 2) 0 @line-height-computed;
    border-top: 1px solid @page-header-border-color;
  }
}
/* _typography.less END */

```



# \_aside.less

```
/* _aside.less START */
article {
  aside {
    position: relative;

    .inner {
      position: fixed;
    }

    ul {
      .nav();
      .nav-pills();
      .nav-stacked();
    }
  }
}
/* _aside.less END */
```

## Lorem Ipsum

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# \_logo.less

```

/* _logo.less START */
aside {
  .logo {
    .text-hide();
    .thumbnail();

    width: 170px;
    height: 170px;

    background-image: url('gtalug.png');
  }
}
/* _logo.less END */

```

# style.less

```
@import "bt/bootstrap.less";
```

```
@import "_layout.less";
```

```
@import "_typography.less";
```

```
@import "_aside.less";
```

```
@import "_logo.less";
```

# style.css

```
/* _layout.less START */
main { margin-right: auto; margin-left: auto; padding-left: 15px; padding-right: 15px; }
@media (min-width: 768px) {
  main { width: 750px; }
}
@media (min-width: 992px) {
  main { width: 970px; }
}
@media (min-width: 1200px) {
  main { width: 1170px; }
}
main > .navbar-header, main > .navbar-collapse { margin-right: -15px; margin-left: -15px; }
@media (min-width: 768px) {
  main > .navbar-header, main > .navbar-collapse { margin-right: 0; margin-left: 0; }
}
article { margin-left: -15px; margin-right: -15px; }
header, footer { position: relative; float: left; width: 100%; min-height: 1px; padding-left: 15px; padding-right: 15px; }
section { position: relative; min-height: 1px; padding-left: 15px; padding-right: 15px; }
@media (min-width: 768px) {
  section { float: left; width: 66.66666667%; }
}
aside { position: relative; min-height: 1px; padding-left: 15px; padding-right: 15px; }
@media (min-width: 768px) {
  aside { float: left; width: 33.33333333%; }
}
@media (max-width: 767px) {
  aside { display: none !important; }
}
/* _layout.less END */
```

# style.css

```
/* _typography.less START */
article header { padding-bottom: 9px; margin: 40px 0 20px; border-bottom: 1px solid #eeeeee; }
article section p:first-of-type { margin-bottom: 20px; font-size: 16px; font-weight: 300; line-height: 1.4; }
@media (min-width: 768px) {
  article section p:first-of-type { font-size: 21px; }
}
article footer { padding-top: 9px; margin: 40px 0 20px; border-top: 1px solid #eeeeee; }
/* _typography.less END */
```

# style.css

```
/* _aside.less START */
article aside { position: relative; }
article aside .inner { position: fixed; }
article aside ul { margin-bottom: 0; padding-left: 0; list-style: none; }
article aside ul > li { position: relative; display: block; }
article aside ul > li > a { position: relative; display: block; padding: 10px 15px; }
article aside ul > li > a:hover, article aside ul > li > a:focus { text-decoration: none; background-color: #eeeeee; }
article aside ul > li.disabled > a { color: #777777; }
article aside ul > li.disabled > a:hover, article aside ul > li.disabled > a:focus {
    color: #777777; text-decoration: none; background-color: transparent; cursor: not-allowed; }
article aside ul .open > a, article aside ul .open > a:hover, article aside ul .open > a:focus {
    background-color: #eeeeee; border-color: #337ab7; }
article aside ul .nav-divider { height: 1px; margin: 9px 0; overflow: hidden; background-color: #e5e5e5; }
article aside ul > li > a > img { max-width: none; }
article aside ul > li { float: left; }
article aside ul > li > a { border-radius: 4px; }
article aside ul > li + li { margin-left: 2px; }
article aside ul > li.active > a, article aside ul > li.active > a:hover, article aside ul > li.active > a:focus {
    color: #ffffff; background-color: #337ab7; }
article aside ul > li { float: none; }
article aside ul > li + li { margin-top: 2px; margin-left: 0; }
/* _aside.less END */
```



# style.css

```
/* _logo.less START */
aside .logo { font: 0/0 a; color: transparent; text-shadow: none;
    background-color: transparent; border: 0; display: block; padding: 4px;
    margin-bottom: 20px; line-height: 1.42857143; background-color: #ffffff;
    border: 1px solid #dddddd; border-radius: 4px;
    -webkit-transition: border 0.2s ease-in-out;
    -o-transition: border 0.2s ease-in-out;
    transition: border 0.2s ease-in-out; width: 170px;
    height: 170px; background-image: url('gtalug.png'); }
aside .logo > img, aside .logo a > img { margin-left: auto; margin-right: auto; }
aaside .logo:hover, aaside .logo:focus, aaside .logo.active { border-color: #337ab7; }
aside .logo .caption { padding: 9px; color: #333333; }
/* _logo.less END */
```

```
$ wc *.less
```

16	27	218	_aside.less
19	30	219	_layout.less
12	22	191	_logo.less
21	50	470	_typography.less
5	10	126	style.less
73	139	1224	total

```
$ lessc --clean-css style.less | wc
```

0	1496	119568
---	------	--------

```
$ uncss http://127.0.0.1:8000/article.html > style.css
$ wc style.css
    370      606    5426 style.css
$ yuicompressor style.css -o style.min.css
$ wc style.min.css
      0      86    4348 style.min.css
```

# Installation/Usage

## Command Line

- `npm install -g lessc`
- `lessc style.less > style.css`

## Client-side usage

```
<link rel="stylesheet/less" type="text/css" href="styles.less">  
<script src="less.js" type="text/javascript"></script>
```

# Sass

Syntactically Awesome Style Sheets

# Variables

## Sass

```
$color: #141414;  
  
p {  
  color: $color;  
}
```

## Less

```
@color: #141414;  
  
p {  
  color: @color;  
}
```

# Nesting

## Sass and Less

```
a {  
  color: red;  
  &:hover {  
    color: blue;  
  }  
}
```

# Mixins

## Sass

```
@mixin bordered {  
  border-top: dotted 1px black;  
  border-bottom: solid 2px black; }  
  
span { @include bordered; }
```

## Less

```
.bordered {  
  border-top: dotted 1px black;  
  border-bottom: solid 2px black; }  
  
span { .bordered(); }
```



# Selector Inheritance *Sass Only*

```
.bordered { border: 1px solid black; }  
span.one { @extend .bordered; color: blue; }  
span.two { @extend .bordered; color: red; }
```

## Output

```
.bordered, span.one, span.two { border: 1px solid black; }  
span.one { color: blue; }  
span.two { color: red; }
```



**Myles Braithwaite**

@mylesb

SASS has a really cool for each function.

📍 Henry Farm, Toronto



```
$icons: twitter github instagram email;
|
@each $icon in $icons {
  .#{$icon} a {
    background-image: image-url("#{ $icon }.svg");
  }
}
```

2:13 PM - 31 Mar 2015



Reply to @mylesb

## Trends

#housie 📌 Promoted by TD (Canada) #EqualPayDay Percy Sledge #ToTheGirls  
Guitar Hero WWDC Queen's Park #BringBackOurGirls Dennis Quaid #HIMSS15

Sass is pretty cool  
And is worth it's own talk

# Questions

# Contact Me

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# Attributions

— Black Cat photographed by *Simon Law*.