### Write LESS CSS

By Nathan Strutz

or

#### How to fall in love with CSS

for programmers

#### Now Talking About Myself...



### Who Are We?

## Why Does CSS Hate Us?



I really hate CSS. No really, I think it's essentially broken, but we all have no choice but to use it.

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### **CSS Means More**

## 'CSS Explosion'

### The CSS Reinvention Rule

### CSS Is Not Zen

### CSS is Not DRY

## CSS is Anti-Programmer

# Knowing When to Use a Framework or Tool

### CSS is Low-Level

## Introducing LESS CSS

Leaner CSS

## LESS is not...

# LESS is not the Less Framework

"The adaptive CSS grid system" <a href="http://lessframework.com/">http://lessframework.com/</a>

## LESS is not a CSS Framework at All

# LESS is not the Solution to Browser Incompatibilities

#### LESS is not SASS

"Syntactically Awesome Style Sheets" <a href="http://sass-lang.com/">http://sass-lang.com/</a>

# LESS is Not These Other CSS Preprocessors Either

### Other CSS Preprocessors

- }{CSS: Cool logo, otherwise uninteresting
- Turbine: Python-style nesting syntax
- CSS Cacheer: Java meets LESS, without features
- CSS Preprocessor: Good start, very similar to LESS, no nesting
- CSSPP: Defunct PHP project
- SmartCSS: PHP and featureful, untouched since 2009
- Mechanical CSS: PHP, good start, untouched since 2009
- DtCSS: PHP, good concepts
- Switch CSS: Python/Apache based, no documentation, untouched since 2006
- CSS DRY: Drupal PHP, nesting and variables
- Dynamic CSS: Drupal PHP, put PHP in your CSS, adds some CSS3 helpers (like LESS Mix-Ins)

### Where Did LESS Come From?

LESS History

## LESS is...

## LESS is a Language

### LESS is CSS

### CSS is Lesser LESS

## LESS is Less

## LESS is a Compiler

### LESS is Ruby

gem install less lessc style.css -w

## LESS is Javascript

### LESS is .NET

www.dotlesscss.org

### LESS is PHP

leafo.net/lessphp

## LESS is Java

## LESS is Constantly Changing!

## LESS is for Programmers

# Writing LESS CSS

#### Controlled

Laboratory
Practical, but Not Real Examples

## Nested CSS

#### Nested CSS

```
LESS
.header {
  background: blue;
  color: white;
  a {
     color: #FF0;
     &:hover {
       color:#FF6;
```

#### **CSS Output**

```
.header {
 background: blue;
 color: white;
.header a {
 color: #FF0;
.header a:hover {
 color: #FF6;
```

#### Less Comments

// How many times have you wanted this?

### LESS Variables

Any CSS Value

#### LESS Variables Example

```
@blue: #00B2EE;
@imagePath: "/path/to/images/";
@contentBorder: 2px solid @blue;
.veryprofessionallooking {
   color: @blue;
   background:url("@{imagePath}superattractive.png");
   border: @contentBorder;
```

#### LESS Variables CSS output

```
.veryprofessionallooking {
    color: #00b2ee;
    background: url("/path/to/images/superattractive.png");
    border: 2px solid #00b2ee;
}
```

# LESS Operators

**Numbers and Colors** 

#### Less Operators Example

size: 100px + 10%; size: 110px;

color: #F00 - 25%; color: #e60000;

width: 100% / 4; width: 25%;

color: #F00 + #060; color: #ff6600;

margin: 2px + 4px; margin: 6px;

font-size: 3em \* 0.25; font-size: 0.75em;

### **Basic LESS Mixins**

### LESS Mixins Example

```
.header, .footer {
     .veryprofessionallooking;
}
```

#### LESS Mixins CSS Output

```
.header, .footer {
     color: #00b2ee;
     background: url("/path/to/images/superattractive.png");
     border: 2px solid #00b2ee;
}
```

#### Advanced LESS Mix-Ins

Think: Functions

#### LESS Mixin Function Input

```
.rounded-corners (@radius: 5px) {
   border-radius: @radius;
  -webkit-border-radius: @radius;
  -moz-border-radius: @radius;
.element1 {
  .rounded-corners();
.element2 {
   .rounded-corners(10px);
```

### LESS Mixin Function Output

```
.element1 {
 border-radius: 5px;
 -webkit-border-radius: 5px;
 -moz-border-radius: 5px;
.element2 {
 border-radius: 10px;
 -webkit-border-radius: 10px;
 -moz-border-radius: 10px;
```

### LESS Mixin Function Input

```
.foo() {
  color:#0F0;
  background:#00F;
}
```

### LESS Mixin Function Output

```
.foo {
  color:#0F0;
  background:#00F;
}
```

```
.foo() {
  color:#0F0;
  background:#00F;
}
.bar {
  .foo();
}
```

```
#foo() {
  color:#0F0;
  background:#00F;
}
.foo {
  #foo();
}
```

```
#foo() {
  color:#0F0;
  background:#00F;
}
.foo {
  #foo;
}
```

# Mixin @arguments

### Mixin @Arguments

```
.prettybox(@top, @right, @bottom, @left) {
  border-width:@arguments;
}
.uglyBox {
  .prettybox(3px, 2px, 4px, 1px);
}
```

#### **LESS Color Functions**

#### LESS Color Functions

```
lighten(@color, @amount);
darken(@color, @amount);
saturate(@color, @amount);
desaturate(@color, @amount);
fadein(@color, @amount);
fadeout(@color, @amount);
spin(@color, @amount);
```

## LESS Scope

Variable Precedence in Nested Rules and Mixins

### Namespaces

For Bundling Mixins #myNamespace > .myMixIn;

@Import-ing

LESS or Just CSS

## Escaping

~"Don't LESS Me, Bro!";

### Javascript Evaluation

Are you sure this is a good idea?

# That's the Language

### IDE Support

NetBeans, TextMate, LESS.App or, any CSS editor

### LESS in the Real World

# Implementing LESS

# Ruby? Really?

## Node.js? Really?

## Javascript? Really?

## Java? Really?

# .NET or PHP? Really?

#### LESS in ColdFusion

Really.

# Experiments...

## A Simple Suggestion

#### The Better Workflow

## A Simple Switch

if (dev) { pure.less; } else { compiled.css }

## Development: Javascript

#### Test: Build With Ant

# Production: Build and Minify With Ant

## Summary

visit lesscss.org
bookmark dopefly.com
& github.com/NathanStrutz
start writing LESS CSS now!

## Questions?

# Thank you!

