



Leaner Style Sheets

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What is Less?

- CSS Preprocessor- lets you generate CSS from the preprocessor's syntax
 - adds features make the CSS structure more readable and easier to maintain
 - superset of CSS
- written in JavaScript

Using Less

Server-Side / Command Line Usage

```
$ npm install less  
$ lessc styles.less styles.css
```

Client-Side / Browser Usage

```
<link rel="stylesheet/less" type="text/css" href="styles.less"/>  
<script src="https://cdnjs.cloudflare.com/ajax/libs/less.js/3.9.0/  
less.min.js"> </script>
```

Variables

```
@width: 10px;  
@height: @width + 10px;  
@bg: #ffffff;
```

```
#header {  
    width: @width;  
    height: @height;  
    background: @bg;  
}
```

```
#header {  
    width: 10px;  
    height: 20px;  
    background: #ffffff;  
}
```

Mixins

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

```
#menu a {  
    color: #111;  
    .bordered();  
}
```

```
.post a {  
    color: red;  
    .bordered();  
}
```

```
#menu a {  
    color: #111;  
    border-top: dotted 1px  
        black;  
    border-bottom: solid 2px  
        black;  
}
```

```
.post a {  
    color: red;  
    border-top: dotted 1px  
        black;  
    border-bottom: solid 2px  
        black;  
}
```

Nesting

```
#header {  
  color: black;  
  .navigation {  
    font-size: 12px;  
  }  
  .logo {  
    width: 300px;  
  }  
  &:hover {  
    color: #ffffff;  
  }  
}
```

```
#header {  
  color: black;  
}  
#header .navigation {  
  font-size: 12px;  
}  
#header .logo {  
  width: 300px;  
}  
#header:hover {  
  color: #ffffff;  
}
```

If and Booleans

```
@some: foo;  
@condition: ();
```

```
div {  
    margin: if((2 > 1), 0,  
    3px);  
    color: if(iscolor(@some),  
    darken(@some, 10%), black);  
}
```

```
div {  
    margin: 0;  
    color: black;  
}
```

Functions

```
@conversion-1: 5cm + 10mm;  
@conversion-2: 2 - 3cm - 5mm;
```

```
@incompatible-units: 2 + 5px -  
3cm;
```

```
@base: 5%;  
@filler: @base * 2;  
@other: @base + @filler;
```

```
@base: 2cm * 3mm;
```

```
@color: #ff0000 / 2;  
background-color: #ee4466 +  
#111;
```

```
@conversion-1: 6cm;  
@conversion-2: -1.5cm;
```

```
@incompatible-units: 4px;
```

```
@base: 5%;  
@filler: 10%;  
@other: 15%;
```

```
@width: 6cm;
```

```
@color: #800000;  
background-color: #ff5577;
```


Resources

<http://lesscss.org>

<http://lesscss.org/functions/>

<http://winless.org/online-less-compiler>

<https://github.com/rachel-ng/use-less>