

CSCI577b Software Engineering II Tech Talk

Less

http://lesscss.org/

Donglin PU

Presentation available on http://dpu.pw/less 2015/04/01



Content

- What is Less
- Why do we need Less
- Main Features
- Demo
- Less, Sass and Stylus



What is Less

- Pre-processor for CSS with lots of extra features
- Use in Commend Line:

```
$ lessc lessDemo.less > lessDemo.css
```

Use on Client browser (using less.js)

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

 Use at Backend using many supported languages (nodes), Java, .NET, PHP etc).



Why need Less

- Repetition: e.g. color on different places
- Vendor Prefix to work with earlier versions e.g. border-radius, transition, linear-gradient ...



Difficult to read and maintain



Main Features

- Variables: @brand-color, @hover-color, @visited-color ...
- Mixins: group of CSS properties
- Nested properties: structure similar to HTML
- Mixins as functions: have parameters, return variables
- Mixins guards: conditional mixins
- Operations and built-in functions on color, string, math ...
- Other features: loops, import etc.

Demo

http://dpu.pw/lessDemo

Less Code: http://dpu.pw/lessDemoCode







Extension	.less	.scss or .sass	.styl
Syntax	Identical to CSS	optional; and {}	optional {},: and;
Variable	@some-color	\$some-color	some-color
Written Language	Javascript	Ruby	Javascript
Installation	npm install less -g	gem install sass	npm install stylus -g



Use Less?

- Bootstrap has both Less and Sass versions.
- Bootstrap already has a lot cool CSS classes.
- Less is great for making your own CSS.

Reference

Less. http://lesscss.org/. [Accessed on: 2015/04/01]

Sass. http://sass-lang.com/. [Accessed on: 2015/04/01]

Stylus. http://learnboost.github.io/stylus/. [Accessed on: 2015/04/01]