

Skill Training

Frontend Foundation

Narasimha

Sr. Corporate Trainer, Mentor

Week3 - Schedule

Day11 : Bootstrap

Day12 : Bootstrap

Day13 : SASS

Day14 : LESS

Day15 : Practice Day / Doubts Clarifications

Day-14

LESS

(Leaner Style Sheets)



Narasimha
Sr. IT Trainer/Consultant

{less}

It's CSS, with just a little more.



Index – Day14

1. LESS

- a. LESS Introduction
- b. variables, selectors
- c. extends, merge
- d. mixins, imports

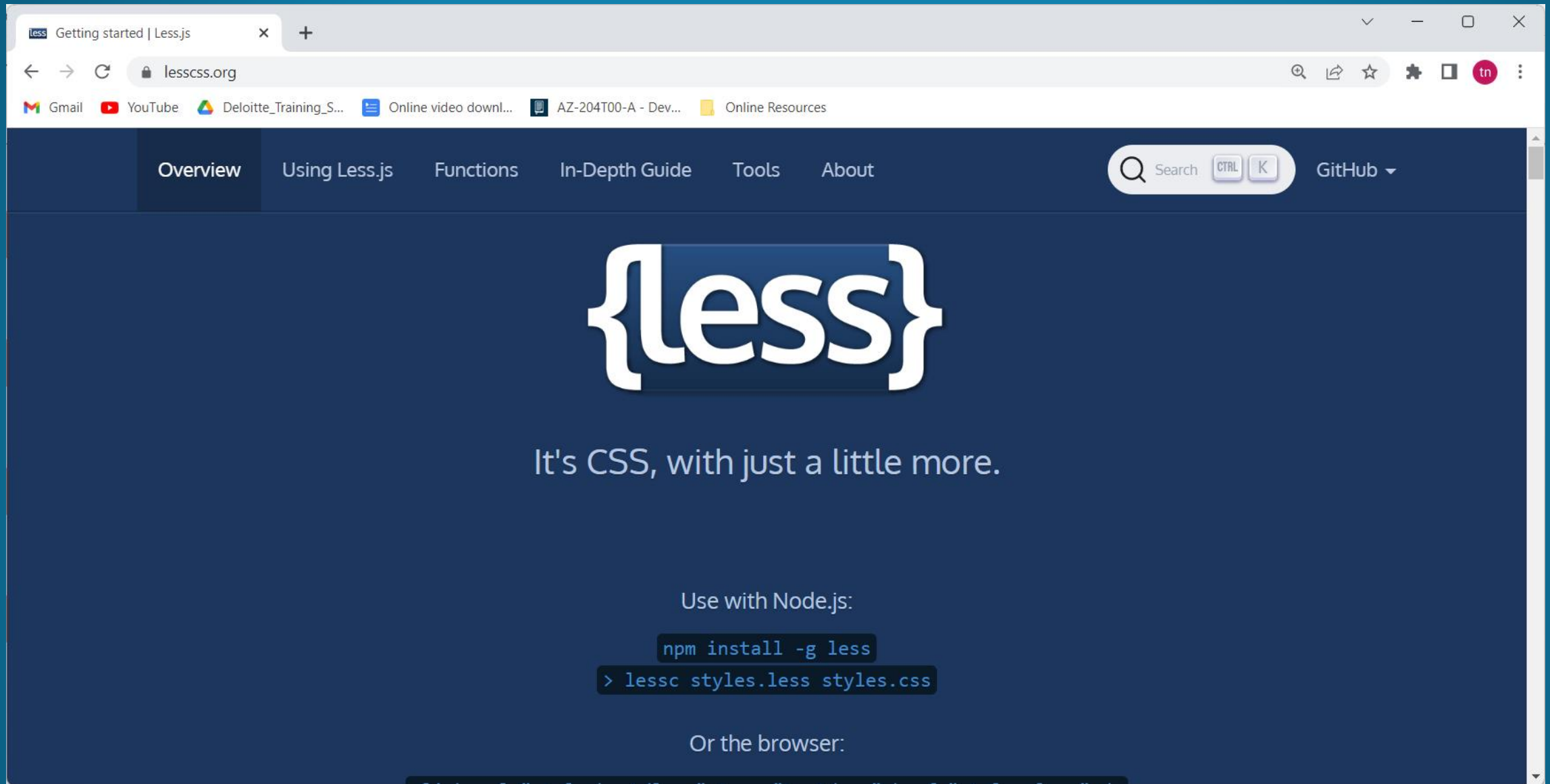
LESS Overview

What is LESS?

- LESS is a CSS pre-processor that enables customizable, manageable and reusable style sheet.
- Dynamic style sheet language that extends the capability of CSS.
- Cross browser friendly.
- Designed by **Alexis Sellier** in 2009.
- Initially LESS was written in Ruby; later it replaced by JavaScript.

Advantages

- LESS easily generates CSS that works across the browsers.
- LESS enables you to write better and well-organized code by using *nesting*.
- Maintenance can be achieved faster by the use of *variables*.
- LESS enables you to reuse the whole classes easily by referencing them in your rule sets.
- LESS provides the use of *operations* that makes coding faster and saves time.



Environment Setup

VS Code extension for LESS Compiler

The screenshot shows the Visual Studio Code interface with the 'Easy LESS' extension installed. The left sidebar displays the 'EXTENSIONS' view with a search bar and a list of installed and recommended extensions. The main editor area shows the 'Easy LESS' extension details page, including its logo, version (v1.7.4), author (mrcrowl), and a description: 'Auto-compile LESS to CSS on save'. The 'Details' tab is selected, showing an 'Overview' section with the text: 'Easily work with LESS files in Visual Studio Code.' and '"Compile-on-save" for LESS stylesheets without using a build task.' The 'Features' section lists: 'Generates a .css file each time you save a .less file.' The right sidebar shows 'Categories' (Other), 'Extension Resources' (Marketplace, Repository, License, mrcrowl), and a 'Port : 5500' indicator at the bottom right.

Visual Studio Code interface showing the 'Easy LESS' extension installed and its details page.

EXTENSIONS

Search Extensions in Marketplace

INSTALLED (4)

- Easy LESS** (mrcrowl) 179ms
Auto-compile LESS to CSS on save
- Live Sass Compiler** (Glenn M...) Update to 5.5.1
Compile Sass or Scss to CSS ...
- Live Server** (Ritwick Dey) 13ms
Launch a development local ...
- Sass** (Glenn M...) 179ms
Indented Sass syntax Highlig...

RECOMMENDED (2)

- Microsoft Edg...** (Microsoft) 1M ★ 4.5
Use the Microsoft Edge Tool...
- Notepad++ k...** (Microsoft) 960K ★ 4.5
Popular Notepad++ keybind...

Easy LESS v1.7.4
mrcrowl | 727,918 | ★★★★★ (35)
Auto-compile LESS to CSS on save
Disable | Uninstall | ⚙️
This extension is enabled globally.

Details | Feature Contributions | Changelog | Runtime Status

Overview

Easily work with LESS files in Visual Studio Code.

"Compile-on-save" for LESS stylesheets without using a build task.

Features

- Generates a .css file each time you save a .less file.

Categories
Other

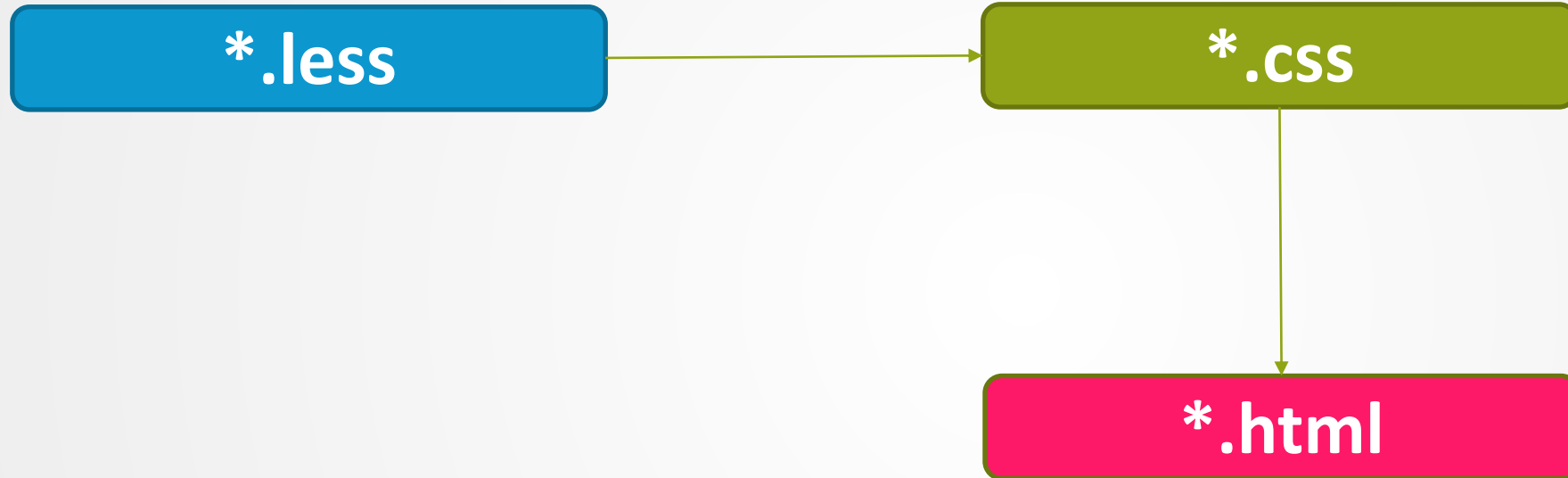
Extension Resources
Marketplace
Repository
License
mrcrowl

Port : 5500

Steps to Implement

1. Create LESS styles file (*.less)
2. Compile the *.less file to generate *.css file
3. Import the *.css file in the web page (*.html)

Steps to Implement



Variables & Selectors

Variables

- LESS allows *variables* to be defined with an @ symbol.
- The *Variable* assignment is done with a **colon(:)**
- Usage:

```
@primary-color : deeppink;  
@big-font : 20px;  
  
.header  
{  
    color : @primary-color;  
    font-size: @big-font;  
}
```

Selectors

```
a {  
    color: Pink;  
    &:hover {  
        color: Blue;  
    }  
}
```

```
a {  
    color: Pink;  
}  
  
a:hover {  
    color: Blue;  
}
```


Selectors

```
.card {  
    & .card-body {  
        color: #D0FA58;  
    }  
  
    &, &_text {  
        color: #A4A4A4;  
    }  
}
```

```
.card .card-body {  
    color: #D0FA58;  
}  
  
.card, .card_text  
{  
    color: #A4A4A4;  
}
```

Extends


Extends

```
.message {  
  border: 1px solid #ccc;  
  padding: 10px;  
  color: black;  
  border-radius: 5px;  
}  
  
.success  
{  
  &:extend(.message);  
  background-color:green;  
}
```

```
.danger  
{  
  &:extend(.message);  
  background-color:red;  
}  
  
.info  
{  
  &:extend(.message);  
  background-color:blue;  
}
```

Merge

Merge



Multiple shadows

box-shadow: 5px 5px blue;

box-shadow: 5px 5px blue, 10px 10px red;

box-shadow: 5px 5px blue, 10px 10px red, 15px 15px green;

Merge

```
.shadowFn() {  
  box-shadow+: 5px 5px blue;  
}
```

```
.fancy-box {  
  . shadowFn();  
  box-shadow+: 10px 10px red;  
  box-shadow+: 10px 10px red;  
}
```

The Less merge feature is used to add property value to the very end. It appends property value with comma.

Mixins & Import

Mixins

```
.theme (@themeColor)
{
    background-color: @themeColor;
    color : yellow;
    box-shadow: 2px 2px 5px yellow;
}
```

```
.primary
{
    .theme("DarkBlue");
}

.success
{
    .theme("DarkGreen");
}
```


Mixins -- Conditional

```
.theme (@mode) when (@mode = "dark") {  
    background-color: darkblue;  
    color : yellow;  
    box-shadow: 2px 2px 5px yellow;  
}
```

```
.darkCard  
{  
    .theme("dark");  
}
```

Import

- It is used to import the contents of the LESS file into another.
- Usage: **@import** 'MyStyles2';

Hands-Ons

Practice Hands-Ons

Q & A



