**SASS**

**(Syntactically Awesome Stylesheet)**

SASS is a CSS pre-processor which helps to reduce repetition with CSS and saves time.

**Why Sass?**

* + It provides some features which are used for creating stylesheets that allows writing code more efficiently and easy to maintain.
  + It contains all the features of CSS and is an open source pre-processor, coded in **Ruby**.
  + It provides document style in good structure format than flat CSS.
  + It uses re-usable methods
  + It helps in writing CSS quicker.

**Sass allows two different syntaxes:**

* **Sass**, *indented syntax*
* **SCSS**, a CSS-like syntax

**Sass, Indented syntax:**

Initially sass was part of another preprocessor called Haml, so Sass stylesheets using a Ruby syntax with no braces, no semi-colons and a strict indentation

**Variable declaration:**

*!text-color= red*

**Mixin declaration:**

*=border-radius(!radius)*

*-webkit-border-radius=!radius*

*-moz-border-radius=!radius*

*border-radius=!radius*

**Usages of variables and mixin:**

*.container*

*Color= !text-color*

*+border-radius(5px)*

**SCSS, The css syntax:**

The scss syntax called sassy css, this syntax aimed at closing the gap between sass and css by bringing a css friendly syntax.

**Variable declaration:**

*$text-color: red;*

**Mixin declaration:**

*@mixin border-radius($radius){*

*-webkit-border-radius: $radius;*

*-moz-border-radius:$radius;*

*Border-radius:$radius;*

*}*

**Usages of variables and mixin :**

*.container{*

*Color:$text-color;*

*@include border-radius(5px); }*

**Nesting:**

*div{*

*ul{*

*margin:0;*

*padding:0;*

*li{*

*font-size:16px;*

*a{*

*color:$text-color;*

*&:hover{ color: $hover-color; }*

*}*

*}*

*}*

*}*

**Import:**

***@import*** *'reset'*

**Extend:**

*.class-name1{*

*………….;*

*…………..;*

*}*

*.class-name2{*

*@extend .class-name1; }*

**SASS Workflow**

**(Without frameworks compass, codekit etc.)**

1. Open Command Prompt
2. Check the status of Ruby and sass

*ruby –v*

*sass -v*

1. Install Ruby
2. Install sass

**Command:** *gem install sass*

1. Navigate to the exact sass or css folder

Css

main.scss

Sass

\_variables.scss

\_font.scss

\_color.scss

1. The file name starts with underscores are called partials and import the partial sheet into main sass file

*@import ‘sass/variables’*

*@import ‘sass/font’*

*@import ‘sass/color’*

1. Compile the main sass file

**Command:** *sass main.scss main.css*

1. It’s compile and generate the css file and map (source map) file
2. Recompile & watch the sass file when changes occurred in every time

**Command:** *Sass –watch main.scss:main.css*

1. Watch changes in whole directory/folder containing many sass files

**Command:** *sass –watch <input directory>:<output directory>*

**(Or)**

**Command:** *sass --watch <input directory>/filename.scss:<output directory>/filename.css*

**Enable source map:**

In Firefox it’s enabled by default.

Go to Firefox default dev tool and make changes.

In Chrome:

Go to chrome dev tool settings 🡪 select “Enable CSS source maps” and “Auto-reload generated CSS”

**For Additional commands help:**

**Command:** *sass –h*

**Command**: *sass –help*