IST 363

# Lab 03

## This Lab Covers

* Reset Stylesheet
* SASS Preprocessing, Variables, Partials and Importing, Nesting, Mixins and Extend

## Lab Corrections

1. If you didn’t get a perfect score on the animated page (name animation) in lab 2, make corrections and turn in your url for this part. You don’t need to correct the other animations.

## warmup

You may not use artificial intelligence to answer the questions below.

1. 1. Why would a developer choose SASS over plain CSS?
      1. If there are certain aesthetics that a developer wants to repeatedly use within their developments, SASS allows a developer to group together certain code to then be more efficiently used over and over
   2. Using the syr.edu home page, give an example where syr.edu could use a SASS variable. Give me the SASS code and a brief statement of how a variable would be helpful.
      1. $background\_color: #ffffff; background-color: $background\_color;
      2. Given that several sections, such as nav and various parts of the body, have white backgrounds, this could be an easy way to continuously add the same color into the background
   3. Using the syr.edu home page, find an example of where you could use nesting to replace a descendant selector (you may have to view the source code for this). Give me the SASS code and a brief statement of how a variable would be helpful.
      1. \*the pause button on the home page video in top right\*
      2. button a {color: #ffffff; } 🡪 button {

{ a color: #ffffff }

}

* + 1. Breaking up this code is helpful to specify that the white is being applied to whatever the a link is connected to, helpful with hierarchy
  1. Using the syr.edu home page, find an example of where you could use a mixin. Give me the SASS code and a brief statement of how a variable would be helpful.
     1. The border and color of many buttons on the page are the same, so could change to:

@mixin button {

border-width: 5px;

background-color: #161050; }

There are many buttons with the same look, so using mixin for border width and background color (and more) is a helpful tool

* 1. Using the syr.edu home page, find an example of where you could use an extend. Give me the SASS code and a brief statement of how a variable would be helpful.
     1. The syr.edu page has several buttons linking helpful secondary pages, such as “Visit” and “Request Info.” They are all styled the same in many ways throughout the page, but some have different font and background colors on the page.

%button-base

{ font-size: 16px;

font-weight: bold;

border-radius: 5px;   
}

.GoInside-button { @extend %button-base;

color: white;

background-color: #000080; }

.Exploreathletics-button { @extend %button-base;

color: #000080;

background-color: #FFFFFF; }

## SASS Page

* 1. SASS File Structure  
     SASS projects have a common file structure adopted as a best practice by web developers. There’s an example below but the idea is you keep all the snippets of SASS in a partials folder, the webpage and stylesheet can go in the main folder and of course as usual, have an images folder. Below is an example of a well-organized SASS folder structure. For this part, set up your files in this way.  
       
     A screenshot of a computer screen

     Description automatically generated
  2. SASS Page  
     You will be creating a food Blog. I’ve pasted the desktop and mobile view images below. The scales are different on my screenshots, but when you code this, you will see that the images are larger at mobile size. You don’t have to make this look good at tablet size unless you want to. There’s a .zip file of the processed images up in Blackboard. Here are my colors:  
       
     lime - #e4fdc3

mint - #8ae2c8

orange - #e89b6a

melon - #e2625c

* 1. Nav Animation  
     Add a transition to the nav to show when an item is moused over.
  2. What I’m expecting from your SASS coding:
     1. a reset stylesheet included using SASS
     2. at least one example of SASS nesting
     3. reused styles with a variables.scss include – for example colors or fonts
     4. reused CSS blocks of properties with mixin or extend – for example all the boxes for the recipes  
        You must use at least one mixin and one extend to get full points.

|  |  |
| --- | --- |
| A person and person cooking in a kitchen  Description automatically generated |  |

## What to hand in

Note that if any URL doesn’t work for me, you will get a zero on this part. Ensure github.io is part of the URL in the address bar. If it’s not, you haven’t given me the correct link.

1. For the corrections hand in the URL of the corrected page.
2. For the review questions, paste your answers into the template provided in Blackboard.
3. For the SASS page, hand in the URL

Use the answer template!