Implementing a CSS Preprocessor

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Agenda

- Review CSS preprocessors
- View capabilities
- Test our site
- See examples
- Convert “Bethany’s Pie Shop” site

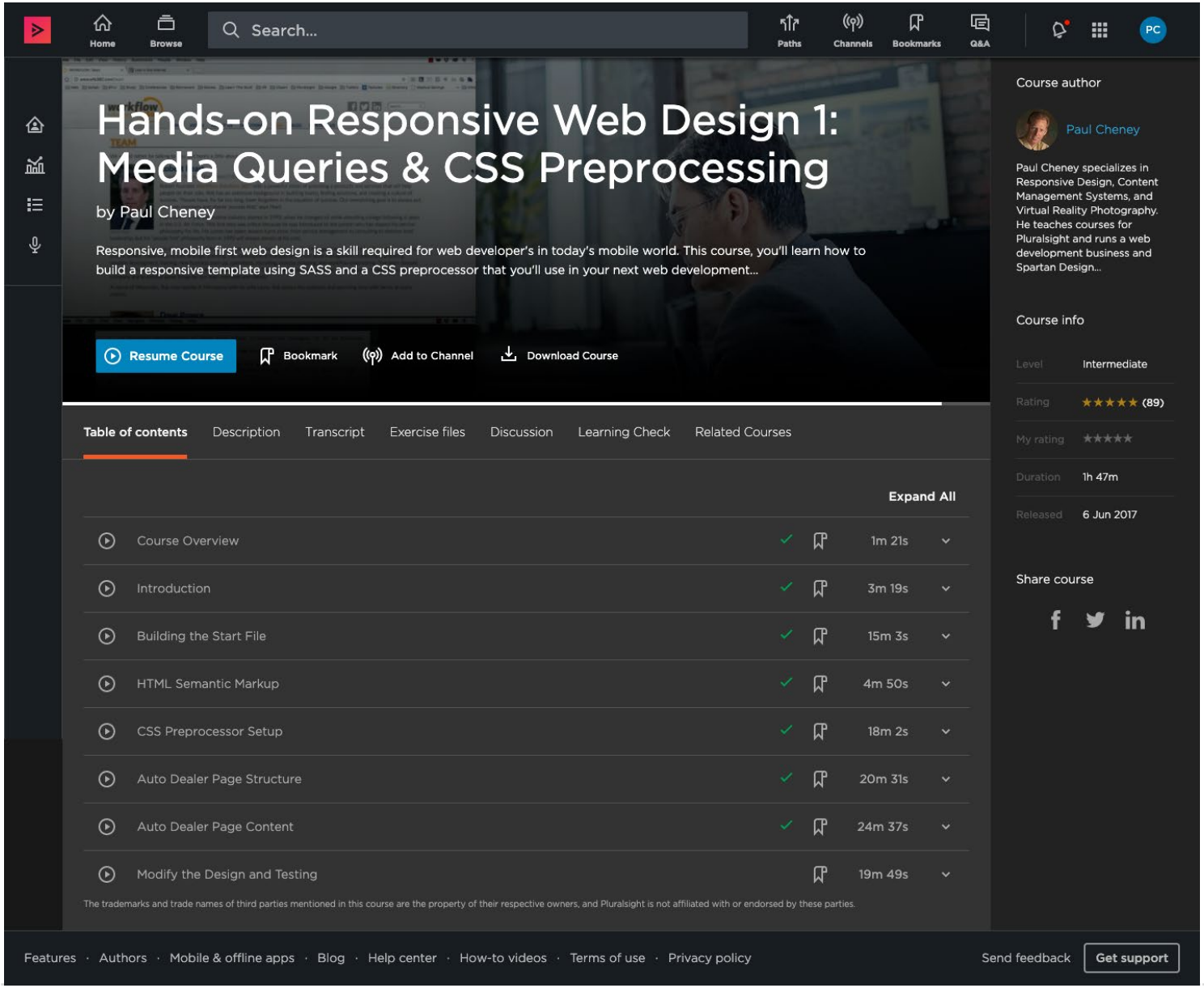
What Is a CSS Preprocessor

Scripting Language

CSS

SASS Basics

- Preprocessing
- Modules
- Variables
- Mixins
- Nesting
- Extend
- Partials
- Operators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Paths
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Q&A
PC
Hands-on Responsive Web Design 1: Media Queries & CSS Preprocessing
by Paul Cheney
Responsive, mobile first web design is a skill required for web developer's in today's mobile world. This course, you'll learn how to build a responsive template using SASS and a CSS preprocessor that you'll use in your next web development...
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Auto Dealer Page Content 24m 37s
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Paul Cheney specializes in Responsive Design, Content Management Systems, and Virtual Reality Photography. He teaches courses for Pluralsight and runs a web development business and Spartan Design...
Course info
Level Intermediate
Rating (89)
My rating
Duration 1h 47m
Released 6 Jun 2017
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Testing Your Site

HTML Checker

Mobile Friendly

CSS Checker

Speed Test

HTML Checker

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for https://sandbox.spartandesignweb.com/start/

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by address

https://sandbox.spartandesignweb.com/start/

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

1. Warning **Section lacks heading. Consider using `h2`-`h6` elements to add identifying headings to all sections.**

   From line 42, column 13; to line 42, column 45

   ```
   <section class="column small-12">↵
   ```

Document checking completed.

Used the HTML parser.

Total execution time 413 milliseconds.

CSS Validation

The W3C CSS Validation Service

W3C CSS Validator results for https://sandbox.spartandesignweb.com/start/ (CSS level 3 + SVG)

Jump to: Warnings (22) Validated CSS

W3C CSS Validator results for https://sandbox.spartandesignweb.com/start/ (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as CSS level 3 + SVG !

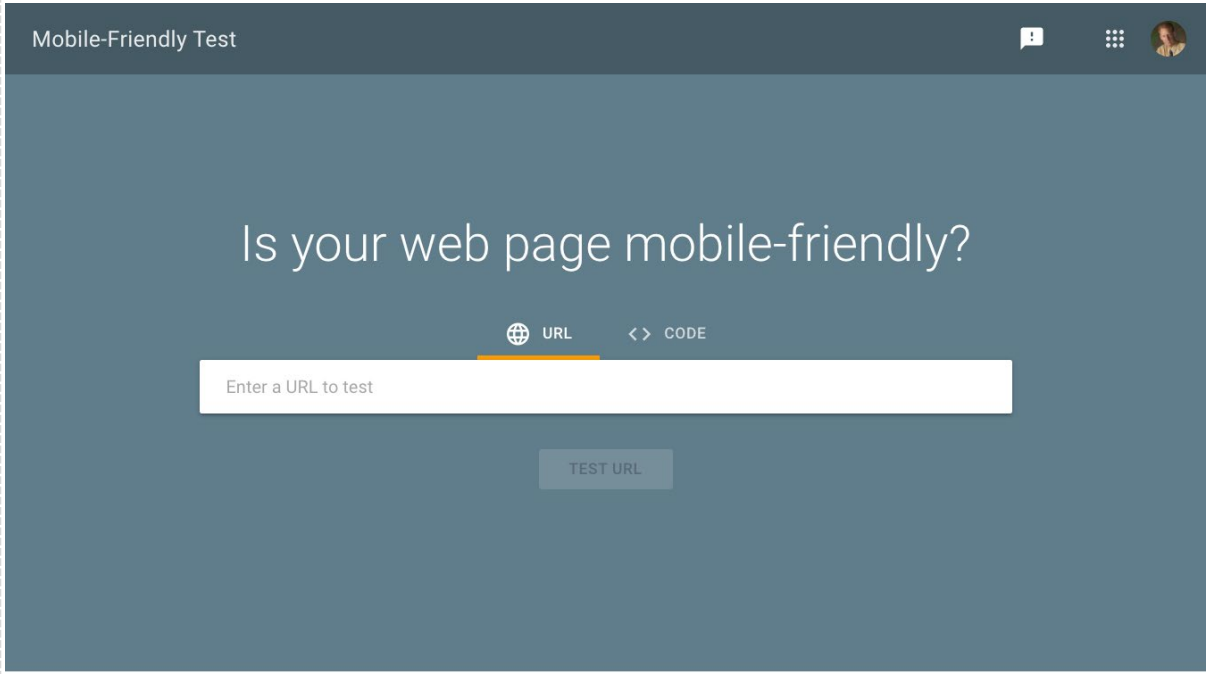
To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

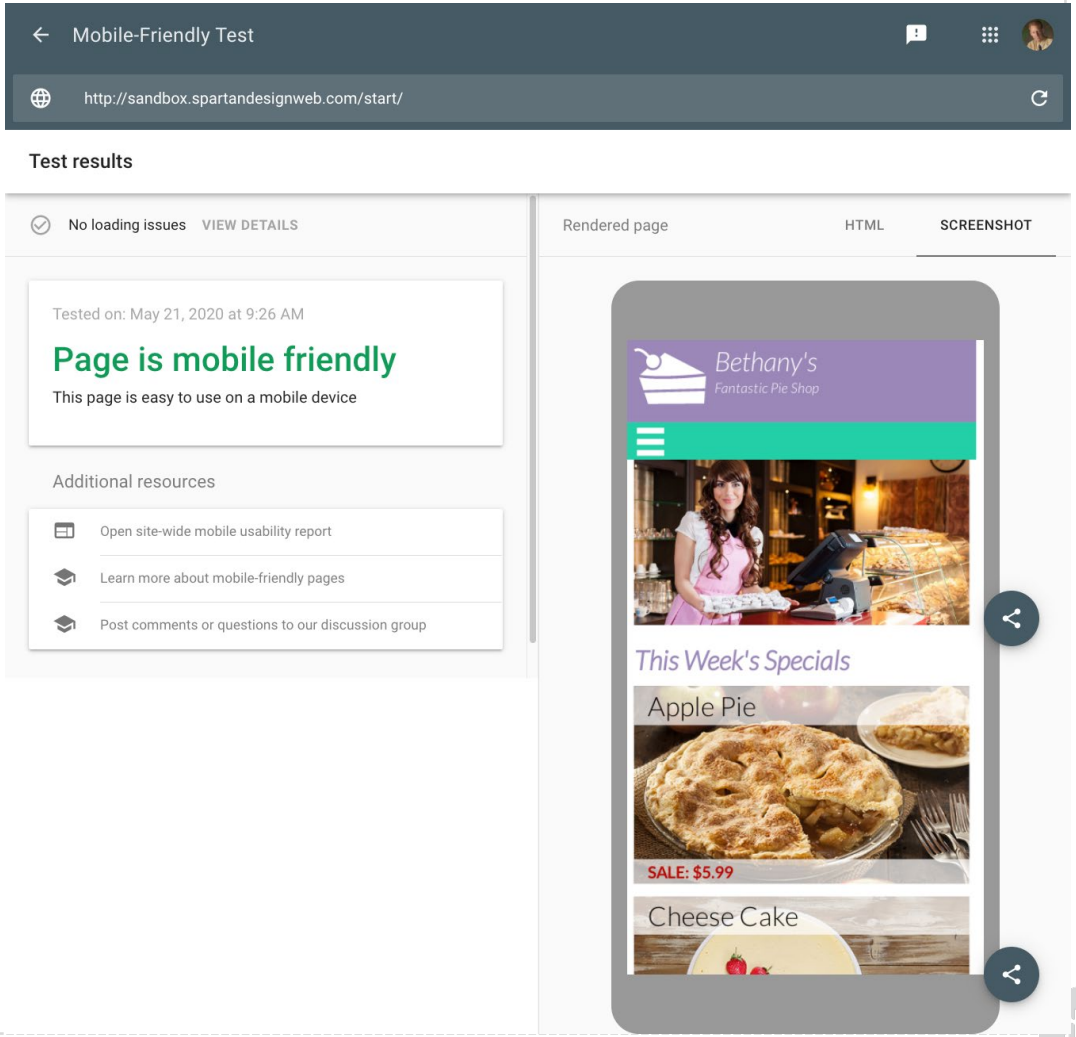
```
<p>
    <a href="https://jigsaw.w3.org/css-validator/check/referer">
        <img style="border:0;width:88px;height:31px"
            src="https://jigsaw.w3.org/css-validator/images/vcss"
            alt="Valid CSS!" />
    </a>
</p>
```

```
<p>
    <a href="https://jigsaw.w3.org/css-validator/check/referer">
        <img style="border:0;width:88px;height:31px"
            src="https://jigsaw.w3.org/css-validator/images/vcss-blue"
            alt="Valid CSS!" />
    </a>
</p>
```

Mobile Friendly Test

https://search.google.com/test/mobile-friendly





About this tool

Test how easily a visitor can use your page on a mobile device. Just enter a page URL to see how your page scores.

MORE USAGE TIPS →

Why mobile?

The web is being accessed more and more on mobile devices. Designing your websites to be mobile friendly ensures that your pages perform well on all devices.

LEARN MORE →

About Search Console

Search Console alerts you about critical site errors such as detection of hacked content, and helps you manage how your content appears in search results.

GO TO SEARCH CONSOLE →

Website Speed Test

solarwinds pingdom

Product Pricing Resources Support **Tools**

Pingdom Website Speed Test

Enter a URL to test the page load time, analyze it, and find bottlenecks.

URL: www.example.com

Test from: North America - USA - San Francisco

START TEST

Nobody Likes a Slow Website

We built this Website Speed Test to help you analyze your website load speed.

The test is designed to help make your site faster by identifying what about a webpage is fast, slow, too big, and so on.

We have tried to make it useful both for experts and novices alike. In short, we wanted it to be an easy-to-use tool built to help webmasters and web developers everywhere optimize their website performance.

About Pingdom

Pingdom offers cost-effective and reliable uptime and performance monitoring for your website.

We use more than 70 global polling locations to test and verify our customers' websites 24/7, all year long.

With Pingdom you can monitor your websites' uptime, performance, and interactions for a better end-user-experience.

Your customers will thank you.

State Colors

The following colors are used in the chart bars to indicate the different stages of a request.

DNS	Web browser is looking up DNS information
SSL	Web browser is performing an SSL handshake
Connect	Web browser is connecting to the server
Send	Web browser is sending data to the server
Wait	Web browser is waiting for data from the server
Receive	Web browser is receiving data from the server
Blocked	Web browser is not ready to send

Content Types

The following icons are used to indicate different content types.

HTML	HTML Document
JavaScript	JavaScript file
CSS	CSS file
Image	Image file
Text/Plain	Plain text document
Other	Any other unknown content type
Warning	The request got a 4XX, 5XX response or couldn't be loaded
Redirect	The request got a 3XX response and was redirected

Server Response Codes

To make it easy for you to differentiate between the HTTP response codes in the chart, we've added color-coded dots beside each URL

solarwinds pingdom

Product Pricing Resources Support **Tools**

Pingdom Website Speed Test

Enter a URL to test the page load time, analyze it, and find bottlenecks.

URL: http://sandbox.spartandesignweb.com/start/

Test from: North America - USA - San Francisco

START TEST

Your Results:

DOWNLOAD HAR SHARE RESULT

Performance grade	Page size
B 84	634.8 KB

Load time	Requests
328 ms	16

Improve page performance

GRADE	SUGGESTION
B 88	Make fewer HTTP requests
A 100	Avoid empty src or href
A 100	Put JavaScript at bottom
A 100	Reduce the number of DOM elements
A 100	Make favicon small and cacheable
A 100	Avoid HTTP 404 (Not Found) error

Response codes

RESPONSE CODE	RESPONSES
200 OK	15
404 Not Found	1

HTTP Requests

GRADE	SUGGESTION
B 88	Make fewer HTTP requests

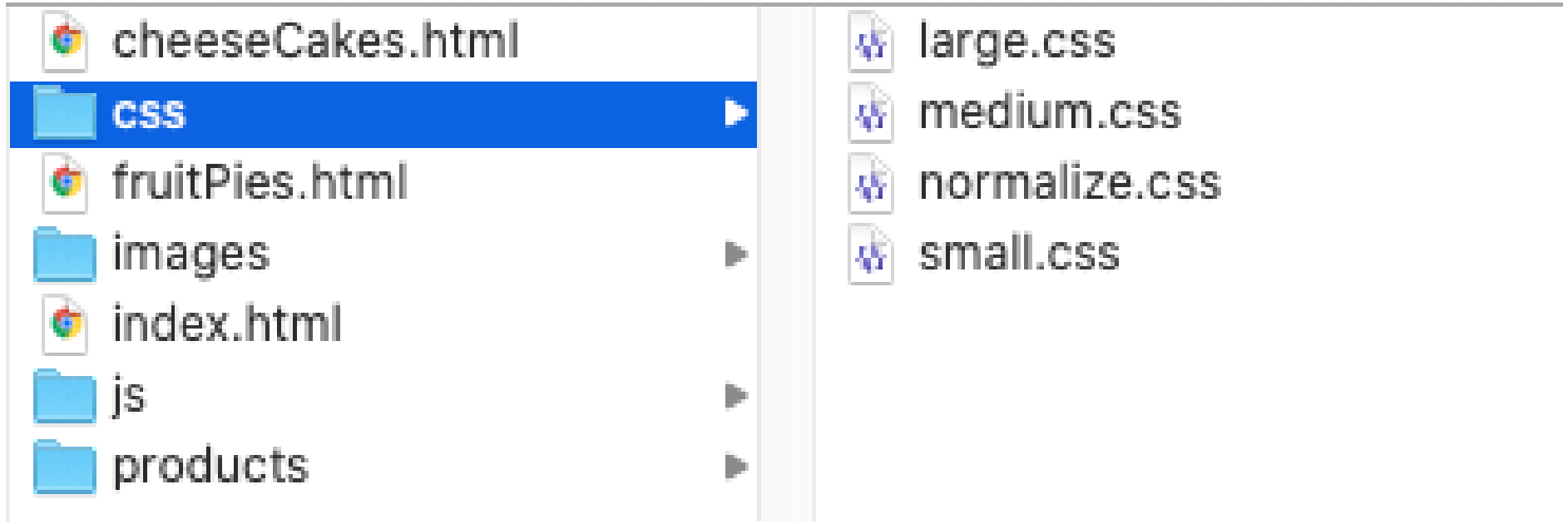
Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.

```
    <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1">

    <link href="https://fonts.googleapis.com/css2?family=Lato:ital,wght@0,300;0,700;1,300&

    <link href="css/normalize.css" rel="stylesheet">
    <link href="css/small.css" rel="stylesheet">
    <link href="css/medium.css" rel="stylesheet">
    <link href="css/large.css" rel="stylesheet">

<title>Home | Bethany's Pie Shop</title>
```

SASS

- Preprocessing
- Modules
- Variables
- Mixins
- Nesting
- Extend
- Partials
- Operators

Modularize


cheeseCakes.html
css
fruitPies.html
images
index.html
js
products
large.css
medium.css
normalize.css
small.css

Partials

normalize.css

small.css

medium.css

large.css

_normalize.scss

_small.scss

_medium.scss

_large.scss

_variables.scss

Variables

```scss
$primaryColor: #123456;
```

```scss
h1{
    color: $primaryColor;
}
```

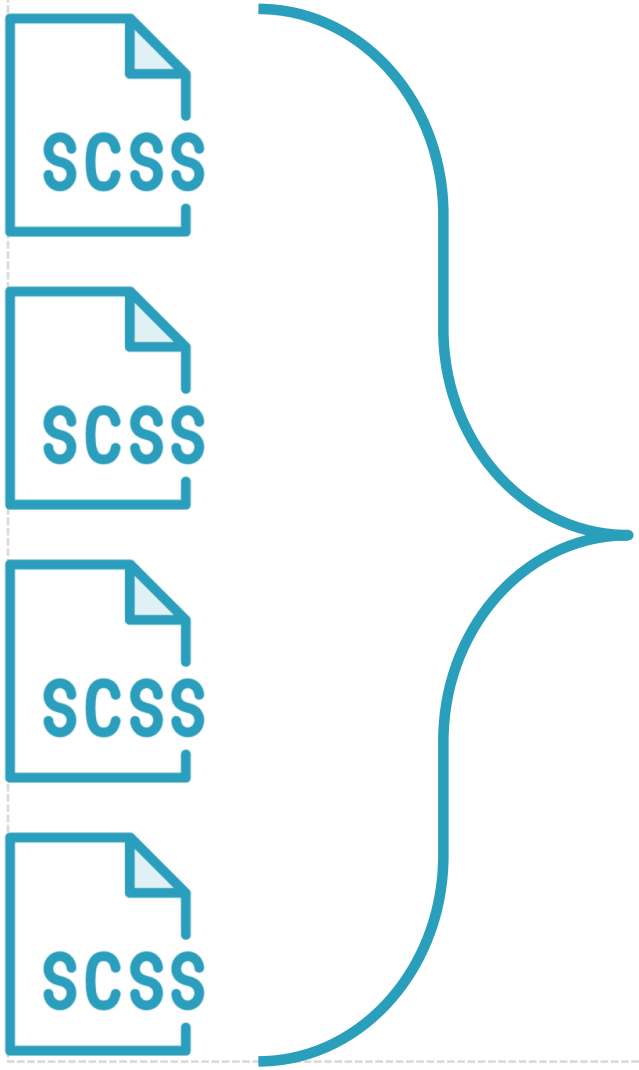
```css
h1{
    color: #123456;
}
```

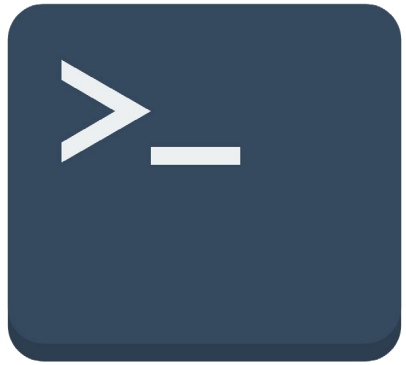
Nesting

```
header {
    background-color: green;
    h1 {color: blue;}
    h2 {color: purple;}
}
```

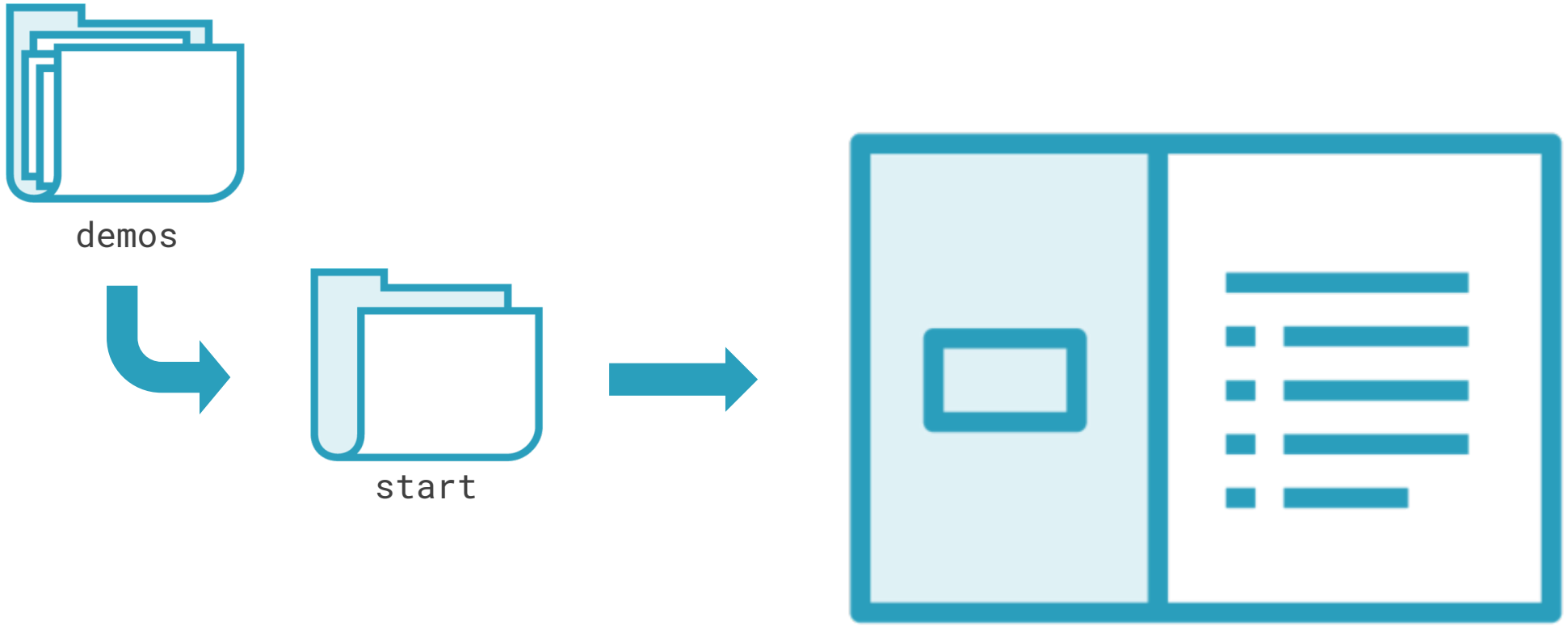
```
header {
    background-color: green;
}
header h1 {
    color: blue;
}
header h2 {
    color: purple;
}
```

Preprocessing

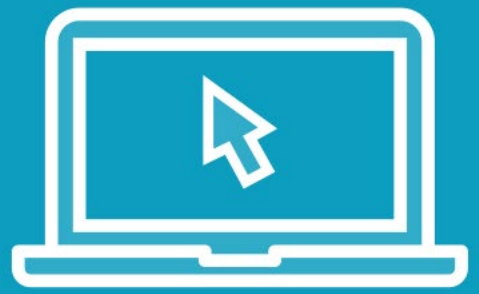




Start File



Demo



Rename folder and files

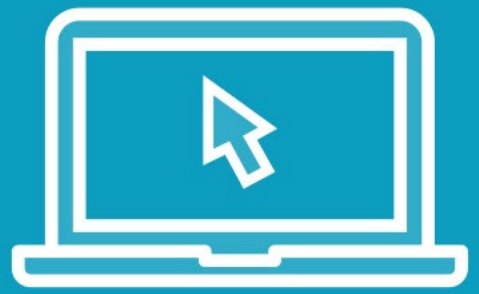
Add a new variables file

Create a master file

Relink style sheet

Preprocessing

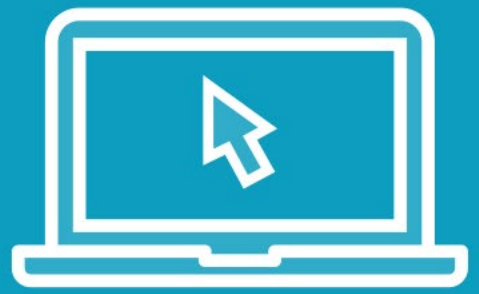
Demo



Implement variables

Minify CSS

Demo



Implement nesting

Summary

- Review CSS preprocessors
- View capabilities
- Test our site
- See examples
- Convert “Bethany’s Pie Shop” site

Introduction

Basic Page with Semantic Tags

Style Sheets and Media Queries

Build the Header and Footer

Build Responsive Navigation

Build the Hero Image

Build this Weeks Specials

Responsive Fruit Pie Gallery

SASS CSS Preprocessor

Introduction to Bootstrap

Wrap Up