CS314 Software Engineering Technology

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Graded Assignments

• GH readme
  – some look better than others, use markdown

• TW quest
  – approvers? fewer mistakes
  – missing/wrong name, loss of markdown
  – team directory

• GT test (brews)
  – approvers?
  – errors, uncorrected near the deadline
Next assignments

- **GH redux**
  - sort the breweries by name above first "davematt" entry

- **SP1 resume**
  - reminder (no style or CSS)
  - codepens (HTML, HTML/ReactJS)
  - github (HTML, HTML/ReactJS)
  - http://www.cs.colostate.edu/~eID (optional)

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GitHub

- create an issue
- create a pull request
- resolve merge conflicts
- wait for approvals
- merge/confirm

Git

- clone/pull
- make/use a new branch
- make source changes
- add changes
- check for merge conflicts
- commit
- push
Technology

• Bootstrap 4 (HTML)
  – no CSS or style yet
• React JS (JavaScript)
• ~eID/public_html
  – CS student web sites
  – http://www.cs.colostate.edu/~eID

What is responsive?

• Mobile-first flexbox grid to build layouts
  – twelve columns
  – five responsive tiers (xs, sm, md, lg, xl)
  – SASS variables and mixins
  – predefined classes
• Components/classes for layout alignment (fixed or fluid)
  – Container
  – Row
  – Column
ReactJS

- Component based system
  - render() takes input data and returns what to display
  - stateful, when state changes render is invoked

CodePens

https://codepen.io/davematt
Deployment to HTML

Shows the deployment of a CodePen containing only Bootstrap 4 to a single HTML file. See the instructions under Starter Template in the Bootstrap 4 Introduction to create the HTML file. Note that codepen will not render this file for you so open it in a new tab.

You can deploy the finished page in the public_html directory of your CS Linux account, such as this.

Pen Settings

HTML CSS JavaScript Behavior Screenshot

Add Class(es) to <html>

Vendor Prefixing

Add External Stylesheets/Pens

Any URLs added here will be added as <link> tags in order and before the CSS in the editor. If you link to another Pen, it will include the CSS from that Pen. If the preprocessor matches, it will attempt to combine them before processing.

Pen Settings

JavaScript Preprocessor

Add script as a module

Add External Scripts/Pens

Any URLs added here will be added as <script> tags in order, and run before the JavaScript in the editor. You can use the URL of any other Pen and it will include the JavaScript from that Pen.

Pen Settings

Quick-add: ---
<!doctype html>
<html lang="en" >
<head>

<!-- from codepen HTML add classes settings -->

<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

<!-- from codepen CSS settings -->
<link rel="stylesheet"
    href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
<title>CodePen to HTML</title>
</head>

<body>

<!-- from codepen HTML view -->
<div class="jumbotron">...</div>

<!-- from codepen settings external scripts -->
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
</body>
</html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
  <title>CodePen to HTML</title>
</head>
<body>
  <div id="root"></div>

  <!-- from codepen settings external scripts -->
  <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>

  <!-- React, ReactDOM, Babel to handle our JavaScript components -->
  <script src="https://cdnjs.cloudflare.com/ajax/libs/react/15.6.1/react.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/react/15.6.1/react-dom.min.js"></script>

  <!-- And lastly, our ReactJS code. -->
  <script src="/app.js" type="text/babel"></script>
</body>
</html>