11.3 Lesson Summary - Bootstrap

Modern websites will be viewed on different size devices. This necessitates the development of responsive websites that adjust to accommodate the device they are being view on. CSS Media queries and Bootstrap allow for the development of responsive websites.

Concept: **Media queries** allow you to apply CSS styles to your HTML based on the screen size of the device viewing the webpage. This enables you to create responsive websites that will look good on devices of different sizes including phones, tablets, and computers. If you wanted to change the background color of all elements with the class *color-when-small* when your webpage is viewed on screens smaller than 600 pixels wide you could use the following code:

*@media (max-width: 600px) {*

*.color-when-small {*

*background: purple;*

*}*

*}*

* Activity: 03-Ins\_MediaQueries, 04-Stu\_MediaQueries

Concept: To quickly generate an attractive responsive website **Bootstrap** allows you to apply styles and behaviors to your HTML code by assigning Bootstrap classes. You can create specific Bootstrap objects by assigning Bootstrap classes like *button*, *navbar*, or *jumbotron*. You can also specify the sizing of an element by assigning Bootstrap Grid classes. For example if you wanted a *div* element to take up 1/3 of the screen you could use the following code:

*<div class="container">*

*<!-- Our columns function in rows. -->*

*<div class="row">*

*<!-- Columns have 12 areas of width to work with. -->*

*<!-- One third of screen (4/12) -->*

*<div class="col-md-4">*

*<!-- This is column 1 of 3 -->*

*</div>*

*</div>*

*</div>*

* Activity: 05-Ins\_BootstrapDemo, 06-Stu\_LoremGrid, 07-Stu\_BootstrapComponents

Concept: Bootstrap lets you create **responsive** elements by applying size specific column classes. To have a *div* that goes half wide when on a small screen and full on an extra small screen you could use the following code:

*<div class="col-sm-6 col-md-3">*

* Activity: 08-Ins\_ResponsiveCols