

## **Week 9: Bootstrap Research**

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### **Prompts**

1. Name 5 different Bootstrap components and describe how they work.

#### **Answer:**

**Accordion** - The accordion component is typically used for FAQs, where a list of questions is represented in an interactive div such that when each item, or question, is selected, a dropdown showcases additional information related to that selected div. How you go about setting one up is to first wrap the entire accordion in a div with a class of "accordion", which applies the styling of the component, and an id that will correspond to each accordion item. You then create another div with a class of "accordion-item", and within that a div with a class of "accordion-header" and an id that is later referenced in terms of accessibility on the collapsible div housing the additional information for that item. From there, you create the button that holds the text of the item's question, you assign that a class of "accordion-button", and type of "button" and some additional data attributes that contain the div purpose and id that you'll target to showcase the additional item information. After you input your question text within that button, you then close that tag and create another div beneath it with a class of "accordion-collapse collapse show", this applies more Bootstrap styling and shows the first item's, or question's, additional information or answer. You also assign this same div an id that corresponds to the data attribute target within the button made just earlier. From there, you assign more accessibility labels and one more data attribute that references the parent accordion container. Within this div, you create another div with a class of

"accordion-body", here you input your answer to your first item. Once done, you close the div tags back to the accordion-item div, and repeat this process for your next accordion item or question.

**Alert** - To create a Bootstrap alert, you simply create a div with a class of "alert" and an additional class specific to the type of alert styling you want to apply that that item (ie. "alert-success" applies a green styling to your alert component). Within that div you house your text that will be wrapped in the alert style.

**Badge** - Badges are often used as a label or small count notification, not unlike the red numbers seen in social media apps that alert a user to how many new notifications they have. These components inherit the sizing relative to the heading they are contained within. To create a badge, you create a header tag and within that tag a span element with a class of "badge", any additional classes applied to the badge component would be specific to your end goal. However, text within that badge is sufficient to deploy the component in Bootstrap.

**Close Button** - A close button is often represented by the familiar X that we seek when we want to close alerts or modals that pop up as users. To use this component, you create a button and assign it a class of "btn-close".

**Lists** - To create a list group in Bootstrap, you create a ul element with a class of "list-group", and each list item, or li element, you apply a class of "list-group-item".

## 2. How does the Bootstrap grid system work?

**Answer:** The Bootstrap grid system works by building off of flexbox and centering mobile design. Primarily, it can be thought of in terms of 6 concepts;

- it is responsive to 6 predefined breakpoints (eliminating most media queries),

- utilizes the Bootstrap container class (center and horizontally pad),
- applies row styling for each column set (more pad styling and organizational structure),
- imagines columns in terms of 12 potential templates (relative to sizing each item within a row),
- implements the gutter concept (essentially margin and padding spacing above, below, and between grid items),
- and permits extensive custom styling through Sass.

With these concepts in mind, it can make styling your layouts much faster compared to having to achieve these same results with only CSS.

3. What is your favorite thing you learned this week?

**Answer:** My favorite thing about this week was learning how to take a project I had previously made and restyling the entire layout with Bootstrap. It was enlightening to see how quickly and painlessly I was able to create a much more modern aesthetic with mostly default Bootstrap styling.

**Sources:**

<https://getbootstrap.com/>