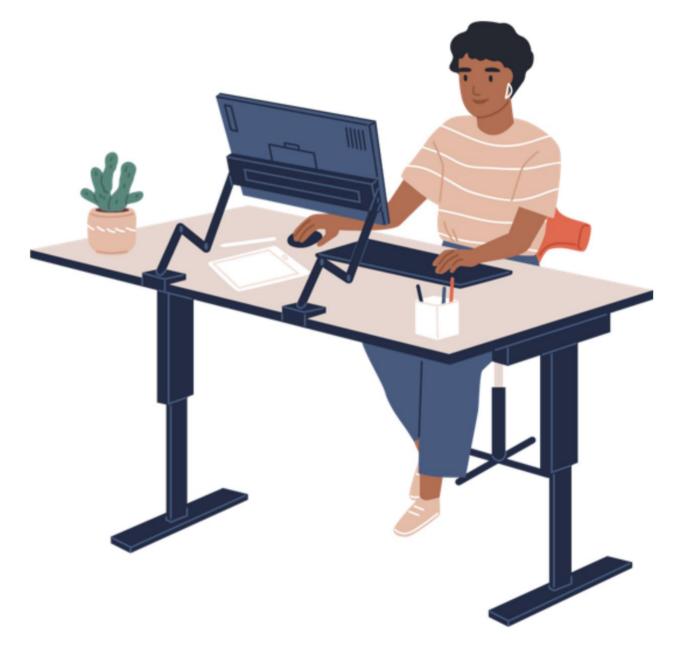
Learning Consolidation Develop a Responsive Web Page Using Bootstrap







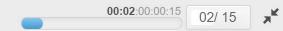


Menu



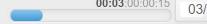
In this sprint, you learned to:

- Describe Bootstrap framework
- Develop responsive web pages using mobilefirst approach
- Apply Bootstrap's mobile-first flexbox grid to build layouts
- Create responsive images, tables and forms using Bootstrap
- Utilize various Bootstrap components
- Apply Bootstrap utilities



What Is Bootstrap?

- Bootstrap is an open-source framework used for faster and easier web development.
- It is the world's most popular CSS framework created for building responsive, mobile-first websites
 and applications.
- It includes HTML and CSS-based design templates for typography, forms, buttons, tables, navbars, modals, image carousels, optional JavaScript plugins, etc.
- Bootstrap supports the latest, stable releases for all major browsers and platforms.
- It also gives you the ability to easily create responsive designs.



Menu

Responsive Web Design Example



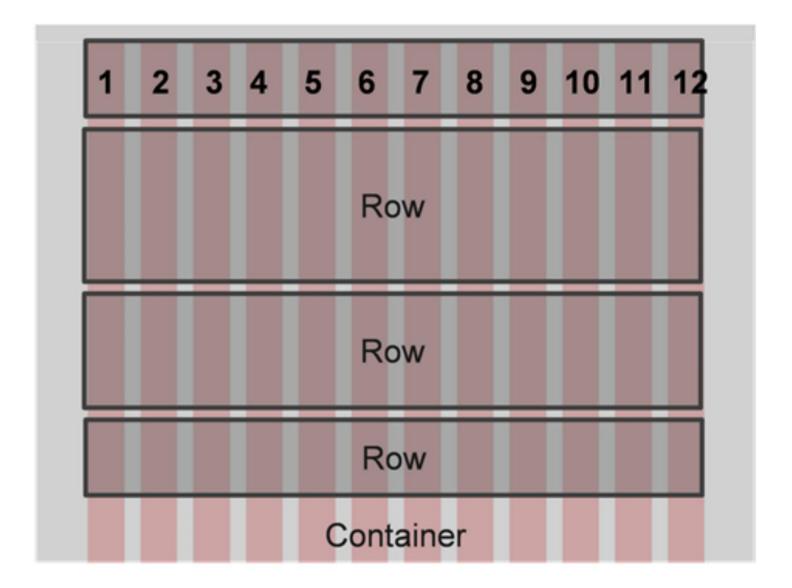




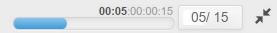


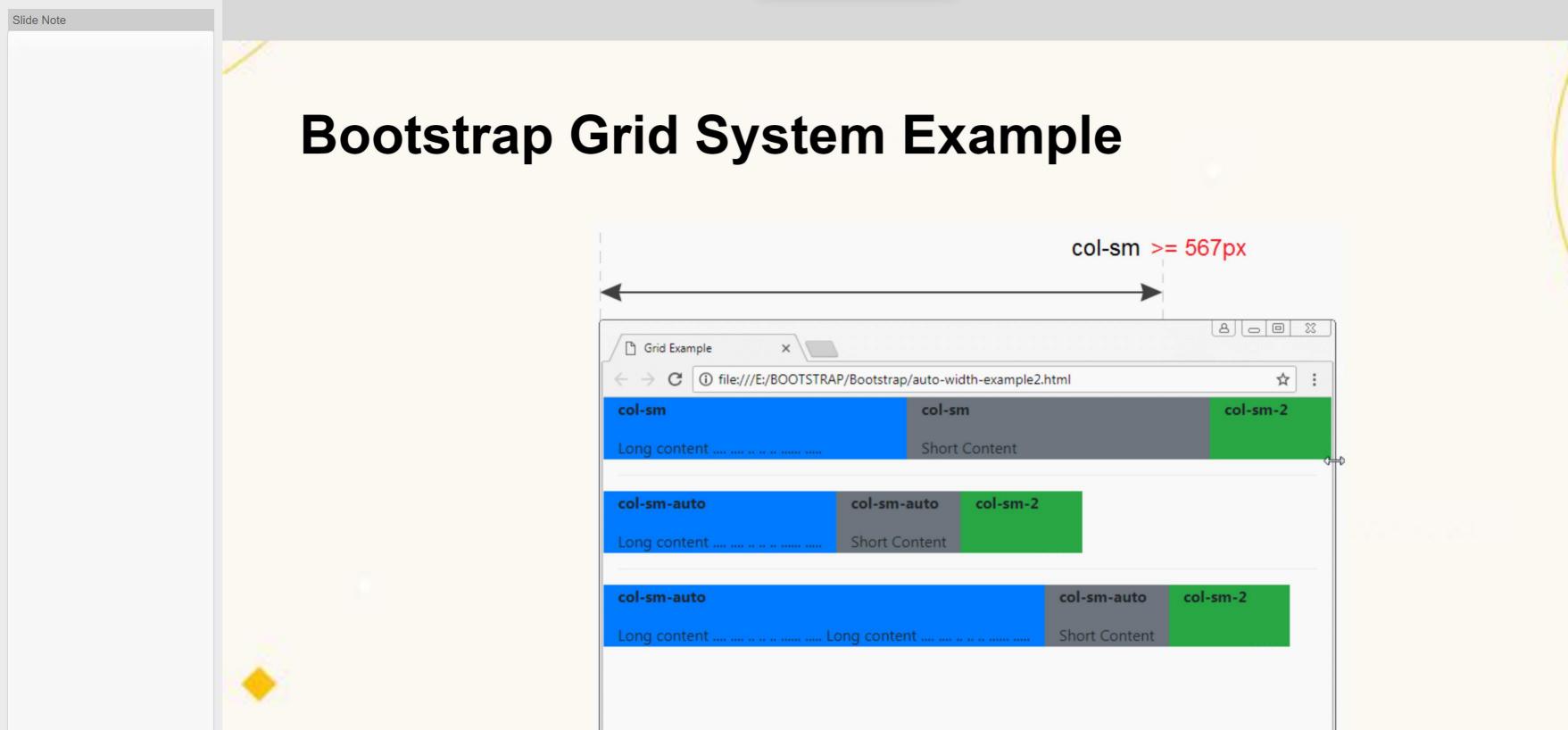
Bootstrap Grid System

- Bootstrap's grid system uses a series of containers, rows, and columns to layout and align content.
- It uses a 12-column system with six responsive tiers.
- It's built with flexbox and is fully responsive. The columns, depending on the screen size, re-arrange automatically.









Source:07Planning





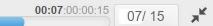
- Medium (md) -Tablets
- Extra-large (xl) Desktop
- Extra extra large (xxl) Large

Grid System Breakpoints

Bootstrap's grid system can adapt across all six default breakpoints and any breakpoint you customize. The six default grid tiers are:

- Extra small (xs): Small Phones
- Small (sm): Medium Phones
- Medium (md): Tablets
- Large (lg): Laptop
- Extra-large (xl): Desktop
- Extra extra large (xxl): Large Desktop





Standard rules for all three form layouts:

· Wrap labels and form controls in (needed for optimum spacing)

and <select> element

In an inline form, all of the elements are inline, left-aligned, and the labels are alongside. This only applies to forms within viewports that are at least

Add class .form-inline to the element

A horizontal form means that the labels are aligned next to the input field (horizontal) on large and medium screens. On small screens (767px and below), it will transform into a vertical form (labels are placed on top of each

Additional rules for a horizontal form:

Add class .form-horizontal to the element

Add class .control-label to all elements

Bootstrap Forms

- The <form> HTML element represents a document section containing interactive controls for submitting information.
- It is used to collect user input which is most often sent to a server for processing.
- Bootstrap supports the following form controls:
 - input
 - textarea
 - checkbox
 - radio
 - select







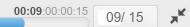


Bootstrap Components

- Bootstrap provides a variety of components that can be customized and reused to provide a good user experience and user interactions.
- Few of them are listed below:
 - **Jumbotron**
 - **Alerts**
 - **Buttons**
 - **Button Group**
 - Badge
 - **Progress Bar**
 - List Group
 - Card
 - Carousel

- Nav
- Navbar
- Breadcrumbs
- **Toast**
- **Tooltip**
- Drop down
- Collapse
- Pagination
- Spinner





Bootstrap Utilities

- Bootstrap provides various helper/utility classes for specifying the following properties:
 - Background
 - **Borders**
 - Colors
 - Display
 - Flex
 - Position
 - Shadows
 - Sizing
 - Spacing
 - **Text**







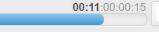
Self-Check

What happens when a Bootstrap CDN is used?

- A. The connection slows down
- B. The loading time gets reduced
- c. Extra http connection is made
- D. None of these







Bootstrap from jsDelivr when visiting from the cache when they visit your site, leading to a faster loading time.

Self-Check: Solution

What happens when a Bootstrap CDN is used?

- The connection slows down
- The loading time gets reduced
- Extra http connection is made
- None of these

Explanation:

Users would have already downloaded Bootstrap from jsDelivr when visiting another site. As a result, it's loaded from the cache, leading to a faster load time.







Menu

Self-Check

Glyphicons are used for ______.

- A. using different icons like badges
- B. using animations
- c. using favicons
- o. using slideshows





Self-Check: Solution

Glyphicons are used for ______.

- A. using different icons like badges
- B. using animations
- c. using favicons
- D. using slideshows

Explanation:

Option B is wrong because Glyphicons are static icons and are not used for animations.

Option C is wrong since favicons are visible alongside the title.

Option D is wrong since the carousel is used for slideshows.



