

Introduction to Bootstrap

Bootstrap is a popular CSS based front-end framework for building responsive and mobile-first websites. It provides a set of pre-built CSS styles and JavaScript components that can be easily customized and integrated into your website.

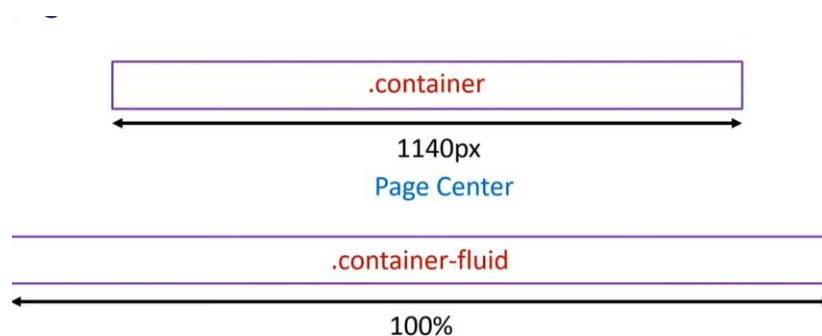
Getting Started:

Bootstrap official Website: <https://getbootstrap.com/>

1. Use CDN Or
 2. Download
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How to make Website Layout with Bootstrap?

Bootstrap Container, container-fluid, row and col classes.



Container Class with different Break points:

Container Width		
Extra Large	$\geq 1200\text{px}$	1140px
Large	$\geq 992\text{px}$	960px
Medium	$\geq 768\text{px}$	720px
Small	$\geq 576\text{px}$	540px
Extra Small	$< 576\text{px}$	Auto

Col class for different Break points:

Extra Large	col-xl
Large	col-lg
Medium	col-md
Small	col-sm
Extra Small	

For equal width Columns:

.row	.col	.col	.col
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Bootstrap Grid Col Class:

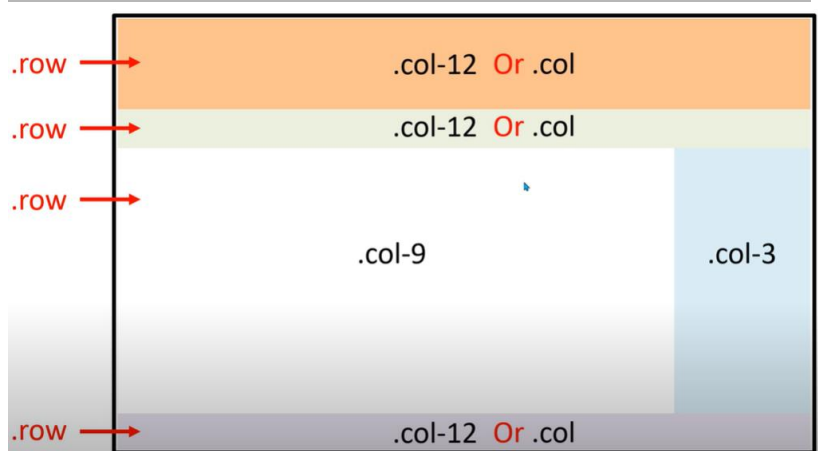
Bootstrap Grid System:

Bootstrap's grid system is based on a 12-column layout and provides classes such as col-sm-4, col-md-6, and col-lg-8 to control the width of elements at different screen sizes.

.row											
1	2	3	4	5	6	7	8	9	10	11	12
Col-1	Col-2	Col-3	Col-4	Col-5	Col-6	Col-7	Col-8	Col-9	Col-10	Col-11	Col-12

.row	6 + 6 = 12
.col-6	.col-6
.col-8	.col-4

		.row
.col-3	.col-5	
.col-6		3 + 5 + 6 = 14



Grid Col class for different Break points:

Extra Large	col-xl-*
Large	col-lg-*
Medium	col-md-*
Small	col-sm-*
Extra Small	

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Grid breakpoints are based on minimum width media queries, meaning they apply to that one breakpoint and all those above it (e.g. `.col-sm-6`) applies to small, medium, large, and extra-large devices, but not the xs breakpoint).

Bootstrap Typography Classes:

Bootstrap provides a set of typography classes that you can use to style text on your web pages. Here are some of the commonly used Bootstrap typography classes:

h1 to h6: These classes are used to define headings of different sizes. For example, h1 is used for the largest heading, while h6 is used for the smallest heading.

lead: This class is used to make text stand out and give it more emphasis. It increases the font size and adds some margin and line-height to the text.

display-1 to display-4: These classes are used to create large display headings that are meant to grab attention. The higher the number, the smaller the font size.

font-weight-bold: This class is used to make text bold.

font-italic: This class is used to make text italic.

text-muted: This class is used to make text appear lighter, giving it a muted or subdued look.

text-primary: This class is used to give text a primary color, which is usually blue.

text-success: This class is used to give text a success color, which is usually green.

text-danger: This class is used to give text a danger color, which is usually red.

text-warning: This class is used to give text a warning color, which is usually yellow or orange.

text-info: This class is used to give text an info color, which is usually light blue.

text-left, text-right, text-center, text-justify: These classes are used to align text to the left, right, center, or justify it to both sides of the container.

Navigation Menu Classes:

Bootstrap provides several classes for creating navigation menus. Here are some commonly used classes for creating navbars:

navbar: This class is used to create a responsive navbar. It includes a collapsible hamburger menu for small screens.

navbar-expand-{breakpoint}: This class is used to control the responsive behavior of the navbar. Replace {breakpoint} with the name of the breakpoint you want to use (e.g., sm, md, lg, or xl). For example, navbar-expand-md means the navbar will expand and collapse at the md breakpoint.

navbar-dark and navbar-light: These classes set the color scheme of the navbar. navbar-dark uses a dark background color and light text, while navbar-light uses a light background color and dark text.

navbar-brand: This class is used to create a link to the home page of the website.

navbar-nav: This class is used to create a container for the navigation links.

nav-item: This class is used to create a single navigation link.

nav-link: This class is used to style the link and create a hover effect.

Form-group classes:

In Bootstrap, the form-group class is used to group form elements, such as form controls, labels, and help texts, together. This class helps to structure and style the form in a consistent manner.

The label element creates a label for the input field, which is associated with the input using the for attribute.

The input element is the actual form control, and in this case, it is an email input field.

The form-control class is used to style the input field to fit within the form.

The id attribute of the input element matches the for attribute of the label element to associate the two elements together.

The small element provides additional help text for the input field.

The form-text class is used to style the help text to fit within the form.

The text-muted class sets the color of the help text to a muted color.

Overall, the form-group class provides a convenient way to group form elements together in Bootstrap, making it easy to structure and style forms in a consistent manner.

Bootstrap button classes:

Here are some of the commonly used Bootstrap button classes:

btn: This is the base class for all buttons in Bootstrap. It adds basic styles such as padding, background color, border, and font size.

btn-primary: This class is used to create a button with a blue background color. It is often used for primary calls to action on a page.

btn-secondary: This class is used to create a button with a gray background color. It is often used for secondary calls to action or as a non-primary button.

btn-success: This class is used to create a button with a green background color. It is often used to indicate success, such as when a form has been submitted successfully.

btn-danger: This class is used to create a button with a red background color. It is often used to indicate danger or when an action might have negative consequences.

btn-warning: This class is used to create a button with a yellow/orange background color. It is often used to indicate a warning or caution.

btn-info: This class is used to create a button with a light blue background color. It is often used to indicate information or to link to additional resources.

`btn-light`: This class is used to create a button with a light gray background color. It is often used as a neutral or subtle button style.

`btn-dark`: This class is used to create a button with a dark gray background color. It is often used for more bold or prominent button styles.

`btn-outline-primary`: This class is used to create a button with a blue border and white background. It is often used as an alternative to the `btn-primary` class for a more subtle button style.

`btn-outline-secondary`: This class is used to create a button with a gray border and white background. It is often used as an alternative to the `btn-secondary` class for a more subtle button style.

These are just a few of the many button classes available in Bootstrap. The framework also provides classes for button sizing, button groups, button dropdowns, and more.

Bootstrap dropdown class:

In Bootstrap, the dropdown button is a useful component for creating a menu or list of options that can be toggled open or closed by the user.

The button element is the actual button that toggles the dropdown menu. It has the `btn` and `btn-secondary` classes to style it as a Bootstrap button.

The `dropdown-toggle` class is used to apply the necessary styles and JavaScript for the dropdown functionality.

The `data-toggle` attribute and `aria-haspopup` and `aria-expanded` attributes are used to handle the dropdown functionality.

The `dropdown-menu` class is used to style the dropdown menu itself.

The `aria-labelledby` attribute is used to associate the dropdown menu with the dropdown button.

Inside the dropdown-menu container, we have used a `list-group` element to create the options for the dropdown menu. These are styled using the `dropdown-item` class.

Overall, the dropdown button is a versatile component that can be used to create a variety of menus and lists in Bootstrap.

Bootstrap cards classes:

Bootstrap cards are a versatile UI component that can be used to display a wide range of content in a clean and organized manner. Here are some of the Bootstrap card classes that you can use:

`.card`: This is the main class for creating a card in Bootstrap.

`.card-header`: This class is used to add a header section to the card.

`.card-body`: This class is used to add the main content to the card.

`.card-footer`: This class is used to add a footer section to the card.

`.card-title`: This class is used to add a title to the card.

`.card-subtitle`: This class is used to add a subtitle to the card.

`.card-text`: This class is used to add text content to the card.

`.card-img-top`: This class is used to add an image to the top of the card.

`.card-img-bottom`: This class is used to add an image to the bottom of the card.

`.card-img-overlay`: This class is used to add an image overlay to the card.

You can also use other Bootstrap classes to customize the appearance of the card, such as `.bg-primary`, `.text-white`, `.border-0`, etc.