FRONTEND DEVELOPMENT

Part 3: Bootstrap 5















WHAT IS BOOTSTRAP?

- Bootstrap is a free front-end framework for faster and easier web development
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- Bootstrap also gives you the ability to easily create responsive designs















WHY USE BOOTSTRAP?

- Easy to use: Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- Responsive features: Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- Mobile-first approach: In Bootstrap, mobile-first styles are part of the core framework
- Browser compatibility: Bootstrap 5 is compatible with all modern browsers (Chrome, Firefox, Edge, Safari, and Opera).















WHERE TO GET BOOTSTRAP 5?

There are two ways to start using Bootstrap 5 on your own web site.

You can:

- Include Bootstrap 5 from a CDN
- Download Bootstrap 5 from getbootstrap.com















BOOTSTRAP 5 CDN

```
<!-- Latest compiled and minified CSS -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/b
ootstrap.min.css" rel="stylesheet">

<!-- Latest compiled JavaScript -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/b
ootstrap.bundle.min.js"></script>
```















DOWNLOADING BOOTSTRAP 5

 If you want to download and host Bootstrap 5 yourself, go to https://getbootstrap.com/, and follow the instructions there.















BOOTSTRAP 5 CONTAINERS

Fixed Container

Use the .container class to create a responsive, fixed-width container.

Fluid Container

Use the .container-fluid class to create a full width container, that will always span the entire width of the screen (width is always 100%)















FORMAT CONTAINER

https://www.w3schools.com/bootstrap5/bootstrap_containers.php















BOOTSTRAP 5 GRID SYSTEM

- Bootstrap's grid system is built with flexbox and allows up to 12 columns across the page.
- If you do not want to use all 12 columns individually, you can group the columns together to create wider columns
- The grid system is responsive, and the columns will re-arrange automatically depending on the screen size.
- Make sure that the sum adds up to 12 or fewer (it is not required that you use all 12 available columns).















| span
1 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| span 4 | | | | span 4 | | | | span 4 | | | |
| | spa | n 4 | | span 8 | | | | | | | |
| span 6 | | | | | | span 6 | | | | | |
| span 12 | | | | | | | | | | | |















MORE ABOUT GRID

https://www.w3schools.com/bootstrap_5/bootstrap_grid_basic.php

Examples

https://www.w3schools.com/bootstrap5/bootstrap_grid_examples.php















BOOTSTRAP 5 FLEX

https://www.w3schools.com/bootstrap5/bootstrap_flex.php















BOOTSTRAP 5 TEXT/TYPOGRAPHY

Bootstrap 5 Default Settings

- Bootstrap 5 uses a default font-size of Irem (16px by default), and its line-height is 1.5.
- In addition, all elements have margin-top: 0 and margin-bottom: I rem (16px by default).

https://www.w3schools.com/bootstrap5/bootstrap_typography.php















BOOTSTRAP 5 COLORS

Text Colors

Bootstrap 5 has some contextual classes that can be used to provide "meaning through colors".

The classes for text colors are: .text-muted, .text-primary, .text-success, .text-info, .text-warning, .text-danger, .text-secondary, .text-white, .text-dark, .text-body (default body color/often black) and .text-light















BACKGROUND COLORS

The classes for background colors are: .bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark and .bg-light.















BOOTSTRAP 5 TABLES

A basic Bootstrap 5 table has a light padding and horizontal dividers.

The .table class adds basic styling to a table

https://www.w3schools.com/bootstrap5/bootstrap_tables.php















BOOTSTRAP 5 IMAGES

https://www.w3schools.com/bootstrap5/bootstrap_images.php















BOOTSTRAP 5 JUMBOTRON

• A jumbotron was introduced in Bootstrap 3 as a big padded box for calling extra attention to some special content or information.

• Jumbotrons are no longer supported in Bootstrap 5. However, you can use a <div> element and add special helper classes together with a color class to achieve the same effect:















EXAMPLE

```
<div class="mt-4 p-5 bg-primary text-white rounded">
    <h1>Jumbotron Example</h1>
    Lorem ipsum...
</div>
```















BOOTSTRAP 5 ALERTS

Alerts are created with the .alert class, followed by one of the contextual classes .alert-success, .alert-info, .alert-warning, .alert-danger, .alert-primary, .alert-secondary, .alert-light or .alert-dark

```
<div class="alert alert-success">
     <strong>Success!</strong> Indicates a successful or positive
action.
</div>
```















BOOTSTRAP 5 BUTTONS

```
<button type="button" class="btn">Basic</button>
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-dark">Dark</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-link">Light</button>
<button type="button" class="btn btn-link">Link</button></button></button>
```

https://www.w3schools.com/bootstrap5/bootstrap_buttons.php















BOOTSTRAP 5 BUTTON GROUPS

 Bootstrap 5 allows you to group a series of buttons together (on a single line) in a button group

```
<div class="btn-group">
  <button type="button" class="btn btn-primary">Apple</button>
  <button type="button" class="btn btn-primary">Samsung</button>
  <button type="button" class="btn btn-primary">Sony</button>
  </div>
```















BOOTSTRAP 5 BADGES

Badges are used to add additional information to any content

```
<h1>Example heading <span class="badge bg-
secondary">New</span></h1>
<span class="badge bg-primary">Primary</span>
<span class="badge rounded-pill bg-primary">Primary</span>
<button type="button" class="btn btn-primary">
    Messages <span class="badge bg-danger">4</span>
</button>
```















BOOTSTRAP 5 PROGRESS BARS

A progress bar can be used to show how far a user is in a process.

```
<div class="progress">
     <div class="progress-bar" style="width:70%"></div>
</div>
```

https://www.w3schools.com/bootstrap5/bootstrap_progressbars.php















BOOTSTRAP 5 SPINNERS

• To create a spinner/loader, use the .spinner-border class.

<div class="spinner-border"></div>

https://www.w3schools.com/bootstrap5/bootstrap_spinners.php















BOOTSTRAP 5 PAGINATION

If you have a web site with lots of pages, you may wish to add some sort of pagination to each page.

https://www.w3schools.com/bootstrap5/bootstrap_pagination.php















BOOTSTRAP 5 LIST GROUPS

The most basic list group is an unordered list with list items

To create a basic list group, use an element with class .list-group, and elements
with class .list-group-item















EXAMPLE

```
    First item
    Second item
    Third item
```

https://www.w3schools.com/bootstrap5/bootstrap_list_groups.php















BOOTSTRAP 5 CARDS

A basic card is created with the .card class, and content inside the card has a .card-body class.

```
<div class="card">
    <div class="card-body">Basic card</div>
    </div>
```

https://www.w3schools.com/bootstrap5/bootstrap_cards.php















BOOTSTRAP 5 DROPDOWNS

A dropdown menu is a toggleable menu that allows the user to choose one value from a predefined list.

https://www.w3schools.com/bootstrap5/bootstrap_dropdowns.php















BOOTSTRAP 5 COLLAPSE

Collapsibles are useful when you want to hide and show large amount of content

```
<button data-bs-toggle="collapse" data-bs-
target="#demo">Collapsible</button>

<div id="demo" class="collapse">
Lorem ipsum dolor text....
</div>
```

https://www.w3schools.com/bootstrap5/bootstrap_collapse.php















BOOTSTRAP 5 NAVS

If you want to create a simple horizontal menu, add the .nav class to a element, followed by .nav-item for each and add the .nav-link class to their links.

https://www.w3schools.com/bootstrap5/bootstrap_navs.php















BOOTSTRAP 5 NAVBARS

A navigation bar is a navigation header that is placed at the top of the page.















EXAMPLE

```
<!-- A grey horizontal navbar that becomes vertical on small screens -->
<nav class="navbar navbar-expand-sm bg-light">
 <div class="container-fluid">
  <!-- Links -->
  <a class="nav-link" href="#">Link 1</a>
    <a class="nav-link" href="#">Link 2</a>
    <a class="nav-link" href="#">Link 3</a>
    </div>
</nav>
```

https://www.w3schools.com/bootstrap5/bootstrap_navbar.php















BOOTSTRAP 5 CAROUSEL

The Carousel is a slideshow for cycling through elements.

https://www.w3schools.com/bootstrap5/bootstrap_carousel.php















BOOTSTRAP 5 MODAL

The Modal component is a dialog box/popup window that is displayed on top of the current page.

https://www.w3schools.com/bootstrap5/bootstrap_modal.php















BOOTSTRAP 5 FORMS

https://www.w3schools.com/bootstrap5/bootstrap_forms.php





























