**Tutorial 6 Learning Bootstrap**

**3. Alerts**

* Bootstrap 5 provides an easy way to create predefined alert messages
* 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

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| *<!DOCTYPE html>*  *<html lang="en">*  *<head>*  *<title>Bootstrap Example</title>*  *<meta charset="utf-8">*  *<meta name="viewport" content="width=device-width, initial-scale=1">*  *<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css" rel="stylesheet">*  *<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></script>*  *</head>*  *<body>*  *<div class="container mt-3">*  *<h2>Alerts</h2>*  *<p>Alerts are created with the .alert class, followed by a contextual color classes:</p>*  *<div class="alert alert-success">*  *<strong>Success!</strong> This alert box could indicate a successful or positive action.*  *</div>*  *<div class="alert alert-info">*  *<strong>Info!</strong> This alert box could indicate a neutral informative change or action.*  *</div>*  *<div class="alert alert-warning">*  *<strong>Warning!</strong> This alert box could indicate a warning that might need attention.*  *</div>*  *<div class="alert alert-danger">*  *<strong>Danger!</strong> This alert box could indicate a dangerous or potentially negative action.*  *</div>*  *<div class="alert alert-primary">*  *<strong>Primary!</strong> Indicates an important action.*  *</div>*  *<div class="alert alert-secondary">*  *<strong>Secondary!</strong> Indicates a slightly less important action.*  *</div>*  *<div class="alert alert-dark">*  *<strong>Dark!</strong> Dark grey alert.*  *</div>*  *<div class="alert alert-light">*  *<strong>Light!</strong> Light grey alert.*  *</div>*  *</div>*  *</body>*  *</html>* |

**3.1 Closing Alerts**

* To close the alert message, add a .alert-dismissible class to the alert container. Then add class="btn-close" and data-bs-dismiss="alert" to a link or a button element (when you click on this the alert box will disappear).

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| *<div class="container mt-3">*  *<h2>Alerts</h2>*  *<p>The button with class="btn-close" and data-bs-dismiss="alert" is used to close the alert box.</p>*  *<p>The alert-dismissible class aligns the button to the right.</p>*  *<div class="alert alert-success alert-dismissible">*  *<button type="button" class="btn-close" data-bs-dismiss="alert"></button>*  *<strong>Success!</strong> This alert box could indicate a successful or positive action.*  *</div>*  *<div class="alert alert-info alert-dismissible">*  *<button type="button" class="btn-close" data-bs-dismiss="alert"></button>*  *<strong>Info!</strong> This alert box could indicate a neutral informative change or action.*  *</div>* |

**4. Button Styles**

Bootstrap5 provides different styles of buttons

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| <div class="container mt-3">  <h2>Button Styles</h2>  <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-link">Link</button>  </div> |
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**4.1 Block Level Buttons**

To create a block level button that spans the entire width of the parent element, use the .d-grid "helper" class on the parent element.

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| <div class="container mt-3">  <h2>Block Level Buttons</h2>  <p>To create a block level button that spans the entire width of the parent element, use the .d-grid "helper" class on the parent element:</p>  <div class="d-grid">  <button type="button" class="btn btn-primary btn-block">Full-Width Button</button>  </div>  </div> |
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**4.2 Active/Disabled Buttons**

A button can be set to an active (appear pressed) or a disabled (unclickable) state.

The class .active makes a button appear pressed, and the disabled attribute makes a button unclickable. Note that <a> elements do not support the disabled attribute and must therefore use the .disabled class to make it visually appear disabled

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| <div class="container mt-3">  <h2>Button States</h2>  <button type="button" class="btn btn-primary">Primary Button</button>  <button type="button" class="btn btn-primary active">Active Primary</button>  <button type="button" class="btn btn-primary" disabled>Disabled Primary</button>  <a href="#" class="btn btn-primary disabled">Disabled Link</a>  </div> |
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**4.3 Spinner Buttons**

You can also add "spinners" to a button

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| <div class="container mt-3">  <h2>Spinner Buttons</h2>  <p>Add spinners to buttons:</p>    <button class="btn btn-primary">  <span class="spinner-border spinner-border-sm"></span>  </button>  <button class="btn btn-primary">  <span class="spinner-border spinner-border-sm"></span>  Loading..  </button>    <button class="btn btn-primary" disabled>  <span class="spinner-border spinner-border-sm"></span>  Loading..  </button>    <button class="btn btn-primary" disabled>  <span class="spinner-grow spinner-grow-sm"></span>  Loading..  </button>  </div> |
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**4.4 Button Groups**

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

Use a <div> element with class .btn-group to create a button group

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| <div class="container mt-3">  <h2>Button Group</h2>  <p>The .btn-group class creates a button group:</p>  <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>  </div> |
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**5. Spinners**

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

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| <div class="container mt-3">  <h2>Colored Spinners</h2>  <p>Use any <strong>text color utilites</strong> to add a color to the spinner:</p>    <div class="spinner-border text-muted"></div>  <div class="spinner-border text-primary"></div>  <div class="spinner-border text-success"></div>  <div class="spinner-border text-info"></div>  <div class="spinner-border text-warning"></div>  <div class="spinner-border text-danger"></div>  <div class="spinner-border text-secondary"></div>  <div class="spinner-border text-dark"></div>  <div class="spinner-border text-light"></div>  </div> |
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**5.1 Growing Spinners**

Use the .spinner-grow class if you want the spinner/loader to grow instead of "spin"

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| <div class="container mt-3">  <h2>Growing Spinners</h2>  <p>Use the <code>.spinner-grow</code> class if you want the spinner/loader to grow instead of "spin":</p>    <div class="spinner-grow text-muted"></div>  <div class="spinner-grow text-primary"></div>  <div class="spinner-grow text-success"></div>  <div class="spinner-grow text-info"></div>  <div class="spinner-grow text-warning"></div>  <div class="spinner-grow text-danger"></div>  <div class="spinner-grow text-secondary"></div>  <div class="spinner-grow text-dark"></div>  <div class="spinner-grow text-light"></div>  </div> |
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**6. Basic Pagination**

* If you have a web site with lots of pages, you may wish to add some sort of pagination to each page.
* To create a basic pagination, add the .pagination class to an <ul> element. Then add the .page-item to each <li> element and a .page-link class to each link inside <li>

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| <div class="container mt-3">  <h2>Pagination</h2>  <p>To create a basic pagination, add the .pagination class to an ul element. Then add the .page-item to each li element and a .page-link class to each link inside li:</p>  <ul class="pagination">  <li class="page-item"><a class="page-link" href="#">Previous</a></li>  <li class="page-item"><a class="page-link" href="#">1</a></li>  <li class="page-item"><a class="page-link" href="#">2</a></li>  <li class="page-item"><a class="page-link" href="#">3</a></li>  <li class="page-item"><a class="page-link" href="#">Next</a></li>  </ul>  </div> |
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**6.1 Active State**

The .active class is used to "highlight" the current page

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| <div class="container mt-3">  <h2>Pagination - Active State</h2>  <p>Add class .active to let the user know which page he/she is on:</p>  <ul class="pagination">  <li class="page-item"><a class="page-link" href="#">Previous</a></li>  <li class="page-item"><a class="page-link" href="#">1</a></li>  <li class="page-item active"><a class="page-link" href="#">2</a></li>  <li class="page-item"><a class="page-link" href="#">3</a></li>  <li class="page-item"><a class="page-link" href="#">Next</a></li>  </ul>  </div> |
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**7. Cards**

A card in Bootstrap 5 is a bordered box with some padding around its content. It includes options for headers, footers, content, colors, etc.

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| <div class="container mt-3">  <h2>Card Header and Footer</h2>  <div class="card">  <div class="card-header">Header</div>  <div class="card-body">Content</div>  <div class="card-footer">Footer</div>  </div>  </div> |
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**7.1 Contextual Cards**

To add a background color to the card, use contextual classes (.bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark and .bg-light.

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| <div class="container mt-3">  <h2>Cards with Contextual Classes</h2>  <div class="card">  <div class="card-body">Basic card</div>  </div>  <br>  <div class="card bg-primary text-white">  <div class="card-body">Primary card</div>  </div>  <br>  <div class="card bg-success text-white">  <div class="card-body">Success card</div>  </div>  <br>  <div class="card bg-info text-white">  <div class="card-body">Info card</div>  </div>  <br>  <div class="card bg-warning text-white">  <div class="card-body">Warning card</div>  </div>  <br>  <div class="card bg-danger text-white">  <div class="card-body">Danger card</div>  </div>  <br>  <div class="card bg-secondary text-white">  <div class="card-body">Secondary card</div>  </div>  <br>  <div class="card bg-dark text-white">  <div class="card-body">Dark card</div>  </div>  <br>  <div class="card bg-light text-dark">  <div class="card-body">Light card</div>  </div>  </div> |
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**7.2 Card Images**

Add .card-img-top or .card-img-bottom to an <img> to place the image at the top or at the bottom inside the card. Note that we have added the image outside of the .card-body to span the entire width

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| <div class="container mt-3">  <h2>Card Image</h2>  <p>Image at the top (card-img-top):</p>  <div class="card" style="width:400px">  <img class="card-img-top" src="../bootstrap4/img\_avatar1.png" alt="Card image" style="width:100%">  <div class="card-body">  <h4 class="card-title">John Doe</h4>  <p class="card-text">Some example text some example text. John Doe is an architect and engineer</p>  <a href="#" class="btn btn-primary">See Profile</a>  </div>  </div>  <br> |
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**8. Dropdown**

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

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| <div class="container mt-3">  <h2>Dropdowns</h2>  <p>The .dropdown class is used to indicate a dropdown menu.</p>  <p>Use the .dropdown-menu class to actually build the dropdown menu.</p>  <p>To open the dropdown menu, use a button or a link with a class of .dropdown-toggle and data-toggle="dropdown".</p>  <div class="dropdown">  <button type="button" class="btn btn-primary dropdown-toggle" data-bs-toggle="dropdown">  Dropdown button  </button>  <ul class="dropdown-menu">  <li><a class="dropdown-item" href="#">Link 1</a></li>  <li><a class="dropdown-item" href="#">Link 2</a></li>  <li><a class="dropdown-item" href="#">Link 3</a></li>  </ul>  </div>  </div> |
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**8.1 Disable and Active items**

Highlight a specific dropdown item with the .active class (adds a blue background color).

To disable an item in the dropdown menu, use the .disabled class (gets a light-grey text color and a "no-parking-sign" icon on hover)

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| <div class="container mt-3">  <h2>Dropdowns</h2>  <p>The .active class adds a blue background color to the active link.</p>  <p>The .disabled class disables a dropdown item (grey text color and a no-parking-sign on hover).</p>    <div class="dropdown">  <button type="button" class="btn btn-primary dropdown-toggle" data-bs-toggle="dropdown">  Dropdown button  </button>  <ul class="dropdown-menu">  <li><a class="dropdown-item" href="#">Normal</a></li>  <li><a class="dropdown-item active" href="#">Active</a></li>  <li><a class="dropdown-item disabled" href="#">Disabled</a></li>  </ul>  </div>  </div> |
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