CS213: Software Systems Laboratory
Autumn 2023-24

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Recap

o Cascading Style Sheets
- Background Image
- Button Styling
- Reusability of Rulesets
- Multiple Class Names in HTML Elements

o Bootstrap Framework
- Flexbox properties
- Flex Container

- flex-direction
- flex-wrap
- flex-flow
- justify-content
- align-items
- align-content

Box Properties	Background Properties	Text Properties
• Height	• background-image	• color
• Width	• background-size	• font-size
• Margin	• background-color	• font-family
• Padding		• font-weight
• Boarder		• font-style
o border-radius		• text-decoration
o border-width		• text-align

Outline

o CSS Bootstrap: Forms

- Form controls
- Checks
- Range
- Floating labels
- Validation

o CSS Bootstrap: Components

- Alerts
- Dropdown
- Badge
- Collapse   https://getbootstrap.com/docs/5.3/getting-started/introduction/
- List group

CSS Bootstrap Forms
Overview

- Bootstrap's form controls expand on *Rebooted form styles* with classes.
- Use these classes to opt into their customized displays for a more consistent rendering across browsers and device

- Form controls
- Checks
- Range
- Floating labels
- Validation

<fieldset>

<legend>

<label>

<input>

<select>

<textarea>

<button>

CSS Bootstrap Forms
Form Controls

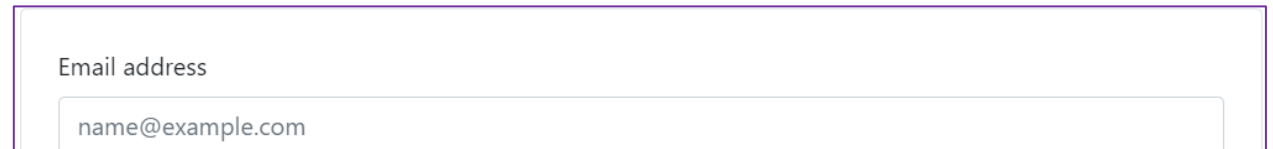- Give textual form controls like ***<input>***s and ***<textarea>***s an upgrade with custom styles, sizing, focus states, and more.

{property}{sides}-{size}

{property}{sides}-{breakpoint}-{size}

Where *property* is one of:
- m - for classes that set margin
- p - for classes that set padding

Where *sides* is one of:
- t - for classes that set margin-top or padding-top
- b - for classes that set margin-bottom or padding-bottom
- l - for classes that set margin-left or padding-left
- r - for classes that set margin-right or padding-right

```
<div class="mb-3">
<label for="exampleFormControlInput1" class="form-label">Email address</label>
<input type="email" class="form-control" id="exampleFormControlInput1"
placeholder="name@example.com">
 </div>
```
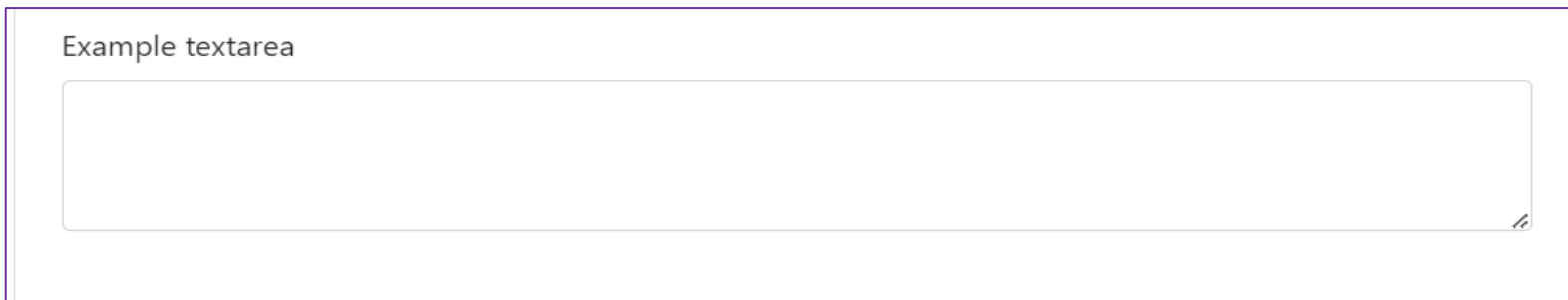
Email address

name@example.com

CSS Bootstrap Forms
Form Controls

- Give textual form controls **<textarea>**s an upgrade with custom styles, sizing, focus states, and more.

```
<div class="mb-3">
<label for="exampleFormControlTextarea1" class="form-label">Example textarea
</label>
<textarea class="form-control" id="exampleFormControlTextarea1" rows="3">
</textarea>
</div>
```

- Sizing
- Disabled
- Readonly
- Readonly plain text
- File input
- Color
- Datalists

Example textarea

CSS Bootstrap Forms
Checks

- Create consistent cross-browser and cross-device checkboxes and radios with our completely rewritten checks component

```
<div class="form-check">
  <input class="form-check-input" type="checkbox" value="" id="flexCheckDefault">
  <label class="form-check-label" for="flexCheckDefault">
Default checkbox
  </label>
</div>
<div class="form-check">
  <input class="form-check-input" type="checkbox" value="" id="flexCheckChecked" checked>
  <label class="form-check-label" for="flexCheckChecked">
Checked checkbox
  </label>
</div>
```
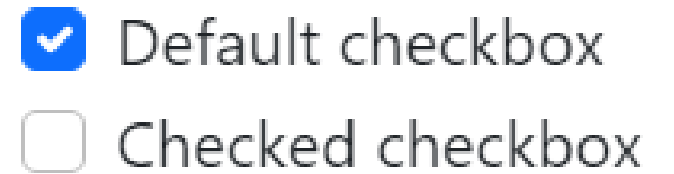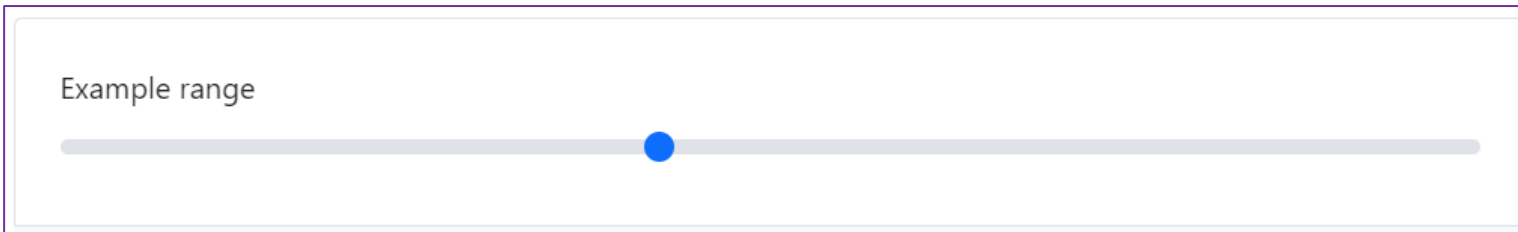
- ✓ Default checkbox
- ☐ Checked checkbox

- Indeterminate
- Disabled
- Radios
- Disabled
- Switches

CSS Bootstrap Forms
Range

- custom range inputs for consistent cross-browser styling and built-in customization.

```
<label for="customRange1" class="form-label">Example range</label>
<input type="range" class="form-range" id="customRange1">
```

Example range

- Min and Max
- Step

```
<label for="customRange1" class="form-label">Example range</label>
<input type="range" class="form-range" id="disabledRange" disabled>
```

```
<input type="range" class="form-range" min="0" max="5" id="customRange2">
```
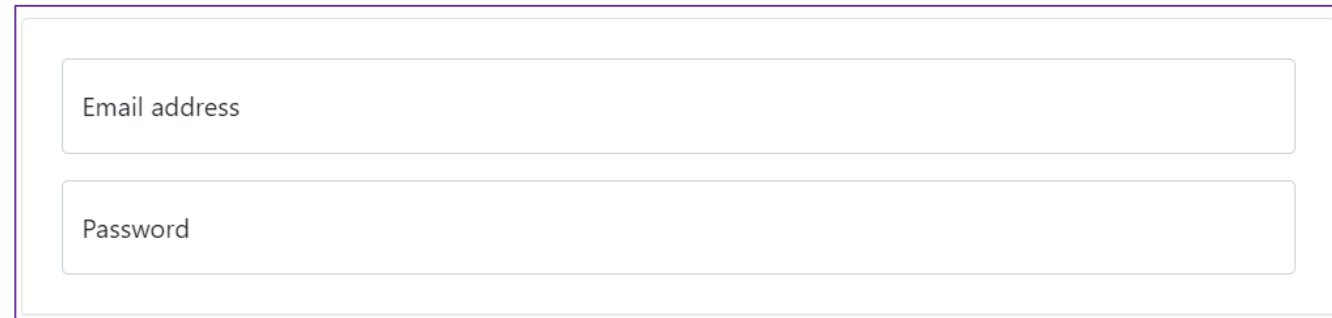
```
<input type="range" class="form-range" min="0" max="5" step="0.5" id="customRange3">
```

CSS Bootstrap Forms
Floating Labels

- Create beautifully simple form labels that float over your input fields

```html
<div class="form-floating mb-3">
 <input type="email" class="form-control" id="floatingInput" placeholder="name@example.com">
 <label for="floatingInput">Email address</label>
</div>
<div class="form-floating">
 <input type="password" class="form-control" id="floatingPassword" placeholder="Password">
 <label for="floatingPassword">Password</label>
</div>
```
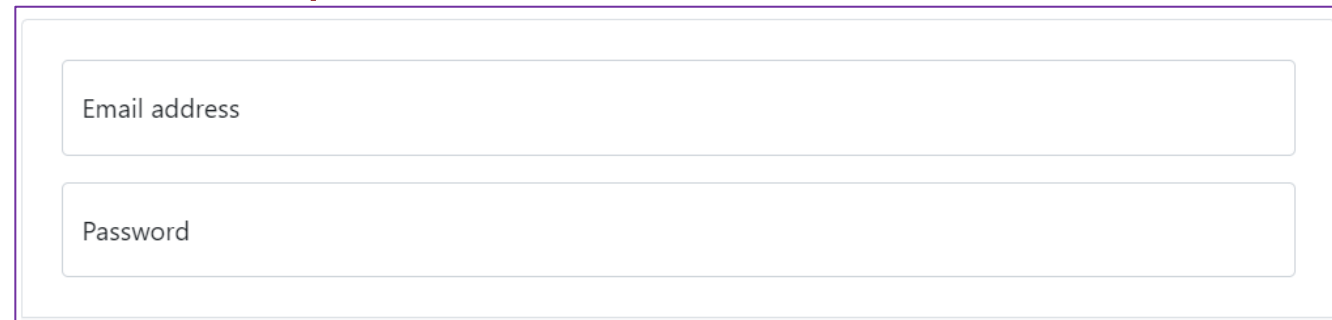
- Textareas
- Selects
- Layouts

Email address

Password

CSS Bootstrap Forms
Floating Labels

- Create beautifully simple form labels that float over your input fields

```
<div class="form-floating mb-3">
  <input type="email" class="form-control"
id="floatingInput" placeholder="name@example.com">
  <label for="floatingInput">Email address</label>
</div>
<div class="form-floating">
  <input type="password" class="form-control"
id="floatingPassword" placeholder="Password">
  <label for="floatingPassword">Password</label>
</div>
```

- Textareas
- Selects
- Layouts

Email address

Password

CSS Bootstrap Forms
Floating Labels

- Create beautifully simple form labels that float over your input fields

```
<div class="form-floating">
  <select class="form-select" id="floatingSelect"
aria-label="Floating label select example">
    <option selected>Open this select menu</option>
    <option value="1">One</option>
    <option value="2">Two</option>
    <option value="3">Three</option>
  </select>
  <label for="floatingSelect">Works with
selects</label>
</div>
```

- Textareas
- Selects
- Layouts

```
<div class="row g-2">
  <div class="col-md">
  </div>
  <div class="col-md">
  </div>
</div>
```

Works with selects
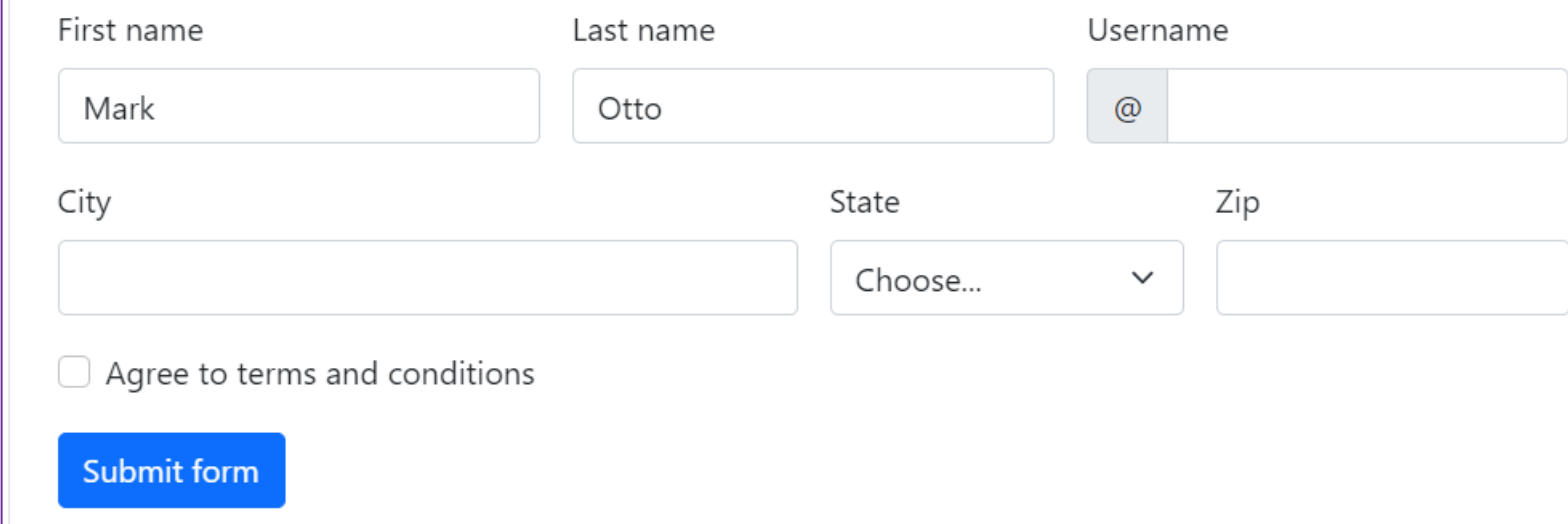Open this select menu
Open this select menu
One
Two
Three

CSS Bootstrap Forms
Validation

- Create beautifully simple form labels that float over your input fields
  - The Bootstrap grid system has four classes: **xs (phones), sm (tablets), md (desktops), and lg (larger desktops).** The classes can be combined to create more dynamic and flexible layouts.

```
<form class="row g-3 needs-validation" novalidate>
  <div class="col-md-4">
    <label for="validationCustom01" class="form-label">First name</label>
    <input type="text" class="form-control" id="validationCustom01" value="Mark"
required>
    <div class="valid-feedback">
      Looks good!
    </div>
  </div>
</form>
```

First name	Last name	Username
Mark	Otto	@

City	State	Zip
	Choose... ⌄	

☐ Agree to terms and conditions

Submit form

Check the provided examples code

CSS Bootstrap Components
Alerts

- Provides contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

```
<div class="alert alert-primary" role="alert">
    A simple primary alert—check it out!
</div>
```

A simple primary alert—check it out!

```
<div class="alert alert-secondary" role="alert">
    A simple primary alert—check it out!
</div>
```

A simple secondary alert—check it out!

```
<div class="alert alert-success" role="alert">
    A simple primary alert—check it out!
</div>
```

A simple success alert—check it out!

- **class alert** takes care of height and width of the alert box
- **alert-<name>** takes care of the color
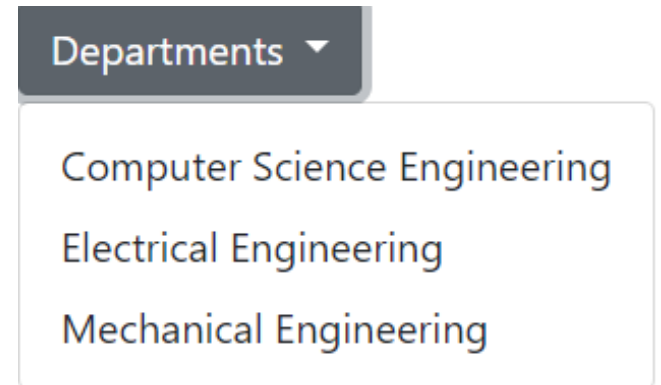
Primary   Secondary   Success   Danger   Warning

btn-primary

CSS Bootstrap Components
Dropdown

- Provides contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

```
<div class="dropdown">
  <button class="btn btn-secondary dropdown-toggle" type="button"
id="dropdownMenuButton1" data-bs-toggle="dropdown" aria-
expanded="false">
    Departments
  </button>
  <ul class="dropdown-menu" aria-labelledby="dropdownMenuButton1">
    <li><a class="dropdown-item">Computer Science Engineering</a></li>
    <li><a class="dropdown-item">Electrical Engineering</a></li>
    <li><a class="dropdown-item">Mechanical Engineering</a></li>
  </ul>
</div>
```

CSS Bootstrap Components
Badge

- Badges can be used as part of links or buttons to provide a counter.

```html
<h1>CS-213 <span class="badge text-bg-secondary"> Midsem</span></h1>
```

CS-213 **Midsem**

```html
<h3>CS-213 <span class="badge text-bg-primary"> Quiz</span></h3>
```

CS-213 **Quiz**

```html
<h5>CS-213 <span class="badge text-bg-success"> New Assignment</span></h5>
```

CS-213 **New Assignment**

<span> inline container used to mark up a part of a text, or a part of a document

CSS Bootstrap Components
Button group

- Group a series of buttons together on a single line or stack them in a vertical column

```
<div class="btn-group" role="group" aria-label="Basic mixed styles example">
   <button type="button" class="btn btn-danger">Left</button>
   <button type="button" class="btn btn-warning">Middle</button>
   <button type="button" class="btn btn-success">Right</button>
</div>
```



```
<div class="btn-toolbar" role="toolbar" aria-label="Toolbar with button groups">
  <div class="btn-group me-2" role="group" aria-label="First group">
     <button type="button" class="btn btn-primary">1</button>
     <button type="button" class="btn btn-primary">2</button>
     <button type="button" class="btn btn-primary">3</button>
     <button type="button" class="btn btn-primary">4</button>
  </div>
</div>
```

CSS Bootstrap Components
Collapse

- Toggle the visibility of content across your project with a few classes

```
<p class="d-inline-flex">
  <a class="btn btn-primary" data-bs-toggle="collapse" href="#collapseExample"
role="button" aria-expanded="false" aria-controls="collapseExample">
    Link with href
  </a>
</p>
<div class="collapse" id="collapseExample">
  <div class="card card-body">
    Some placeholder content for the collapse component. This panel is hidden by
default but revealed when the user activates the relevant trigger.

  </div>
```

CSS Bootstrap Components
List group

- List groups are a flexible and powerful component for displaying a series of content.

```
<ul class="list-group">
  <li class="list-group-item active" aria-current="true">An active
item</li>
  <li class="list-group-item">A second item</li>
  <li class="list-group-item">A third item</li>
  <li class="list-group-item">A fourth item</li>
  <li class="list-group-item">And a fifth one</li>
</ul>

<div class="list-group">
  <button type="button" class="list-group-item list-group-item-action active" aria-
current="true">
    The current button
  </button>
  <button type="button" class="list-group-item list-group-item-action">A second button
item</button>
  <button type="button" class="list-group-item list-group-item-action" disabled>A disabled
button item</button>
</div>
```

thank you!

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