CS390
WEB APPLICATION DEVELOPMENT

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Bootstrap

A CSS Framework with custom classes to help you make cleaner and more responsive websites.

What does responsive mean?

If your site can be viewed easily on any device, your site is responsive!

Why a framework?

- **Makes life easier**

  - **Would you enjoy rewriting your 100 lines of CSS for every project?**

  - **Writing responsive websites is much easier**

Getting Started

What do we need?

- **Link tag**

- **Meta tag**

```
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
```

Buttons

Primary Secondary Success Danger Warning Info Light Dark Link

```html
<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-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-link">Link</button>
```

Outline Buttons

Outline buttons

In need of a button, but not the hefty background colors they bring? Replace the default modifier classes with the `.btn-outline-*` ones to remove all background images and colors on any button.

| Primary | Secondary | Success | Danger | Warning | Info | Light | Dark |

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

Button Sizes

- **.btn-sm**
- **.btn-lg**

Small button

Large button

Layout

Container

Takes about 75% width of the screen.

```html
<div class="container">
    <div class="row">
        ROW
    </div>
</div>
```

Fluid Container

Takes full width of the screen.

```html
<div class="container-fluid">
    <div class="row">
        ROW
    </div>
</div>
```

Responsive breakpoints

- **Bootstrap allows you to target specific screen-sizes**
    - **xs,sm,md,lg,xl**
- **How?**
    - **Using media queries**
    - **Allow you to target specific screen widths**

```css
// Extra small devices (portrait phones, less than 576px)
// No media query for `xs` since this is the default in Bootstrap

// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```

Responsive Grid System

- Allows you to split your page up into columns

- Required:

  - .container

    - .row

      - .col-x

```html
<div class="container-fluid">
    <div class="row">
        <div class="col-sm-6">
            COL-SM-6
        </div>
        <div class="col-sm-6">
            COL-SM-6
        </div>
    </div>
</div>
```

Can I target more than one screen size?

- **YES!**

- **You can tag on as many as you want**

- **If you don't specify a size, then it assumes for all screen sizes**

```html
<div class="row">
  <div class="col col-12 col-md-6 col-lg-4">
    1 of 3
  </div>
  <div class="col col-12 col-md-6 col-lg-4">
    2 of 3
  </div>
  <div class="col col-12 col-md-6 col-lg-4">
    3 of 3
  </div>
</div>
```

Resources

- **Bootstrap Docs**

  - **https://getbootstrap.com**

- **W3Schools**

  - **https://www.w3schools.com/html/
html_responsive.asp**

- **Today's Fiddle**

  - **https://jsfiddle.net/nisargkolhe/nt1L3zp0/21/**