

LAB 09

Web Design

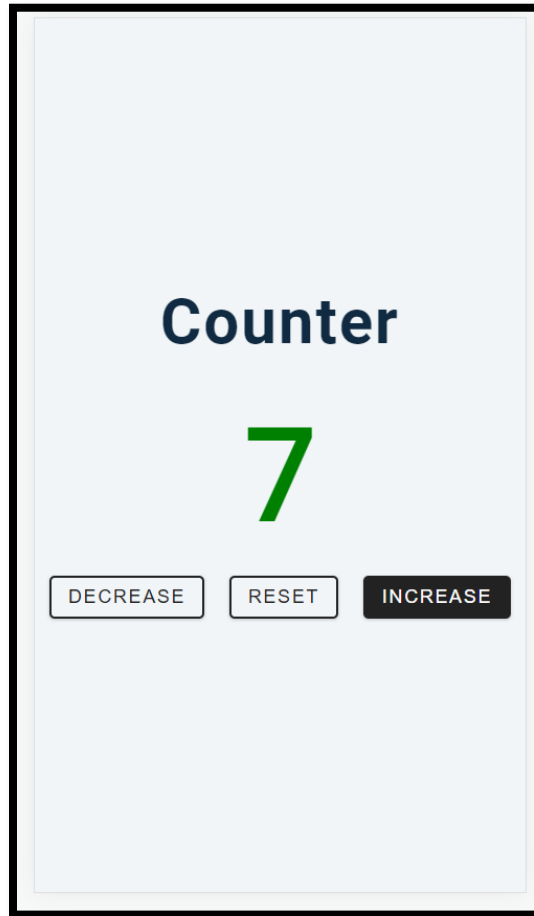


Layout Design with CSS, HTML, and JS

LAB09 Exercises

LAB09.4: Counter

Build a number counter app with Class/Object concept



```
class Counter {  
    number = 0  
    constructor() {  
        // to do  
    }  
  
    decrease() {  
        // to do  
    }  
  
    increase() {  
        // to do  
    }  
  
    reset() {  
        // to do  
    }  
}
```

LAB09 Exercises

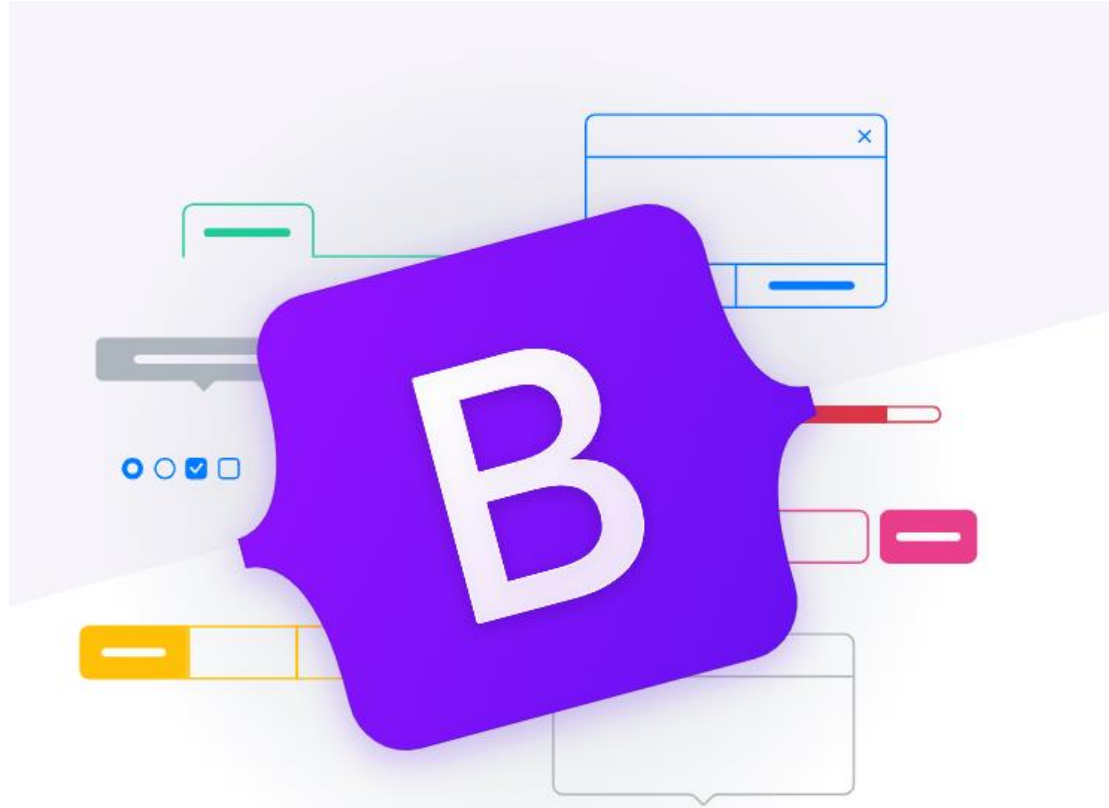
LAB09.5: Random color generator

Build a color generator app with Class/Object concept



```
class Color {  
  colorType = ''  
  records = []  
  
  constructor(type) {  
    this.colorType = type; // HEX  
    // to do  
  }  
  
  generate() {  
    // to do  
  }  
  
  getRandomNumber() {  
    // to do  
  }  
  
  getRecords() {  
    // to do  
  }  
  
  reset() {  
    // to do  
  }  
}
```

Bootstrap v5



Getting started

```
<!doctype html>
<html lang="en">

<head>
  <!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">

  <!-- Bootstrap CSS -->
  <link
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
    rel="stylesheet"
    integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
    crossorigin="anonymous">

  <title>Hello, world!</title>
</head>

<body>
  <h1>Hello, world!</h1>

  <!-- Optional JavaScript; choose one of the two! -->

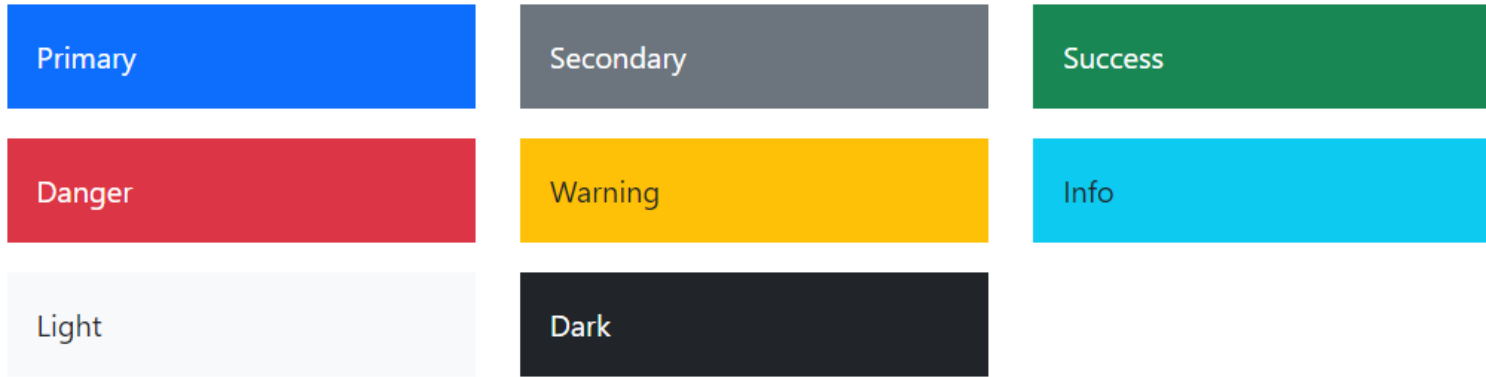
  <!-- Option 1: Bootstrap Bundle with Popper -->
  <script
    src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"
    crossorigin="anonymous">
  </script>

</body>
</html>
```

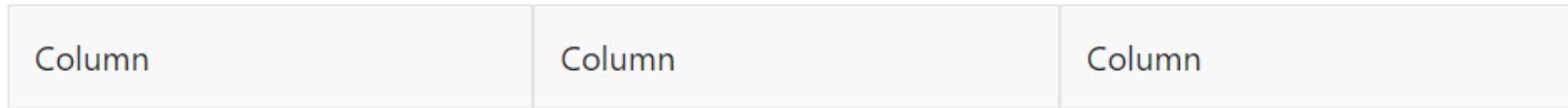
CSS

JS

Theme colors



Layout::Grid system



```
<div class="container">  
  <div class="row">  
    <div class="col">  
      Column  
    </div>  
    <div class="col">  
      Column  
    </div>  
    <div class="col">  
      Column  
    </div>  
  </div>  
</div>
```

Tables

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry the Bird		@twitter

```
<table class="table">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">First</th>
      <th scope="col">Last</th>
      <th scope="col">Handle</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Mark</td>
      <td>Otto</td>
      <td>@mdo</td>
    </tr>
    <tr>
      <th scope="row">2</th>
      <td>Jacob</td>
      <td>Thornton</td>
      <td>@fat</td>
    </tr>
    <tr>
      <th scope="row">3</th>
      <td colspan="2">Larry the Bird</td>
      <td>@twitter</td>
    </tr>
  </tbody>
</table>
```

Forms

First name

Mark

Last name

Otto

Username

@

City

State

Choose...

▼

Zip

☐ Agree to terms and conditions

Submit form

@

Username

Recipient's username

@example.com

Your vanity URL

https://example.com/users/

\$

.00

Username

@

Server

With textarea

Components

A simple primary alert—check it out!

A simple secondary alert—check it out!

A simple success alert—check it out!

Inbox 99+

Primary

Secondary

Success

Danger

Warning

Info

Light

Dark

[Link](#)

Left Middle Right

An active item
A second item
A third item
A fourth item
And a fifth one

Image cap

Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Go somewhere

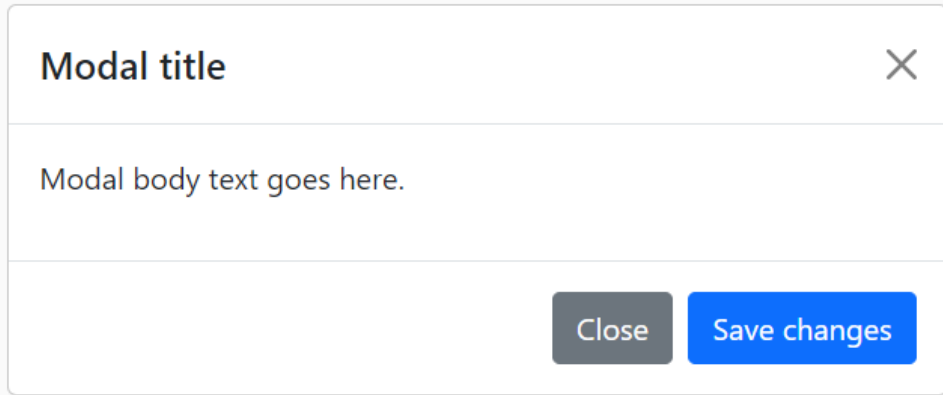
Dropdown button ▾

Action

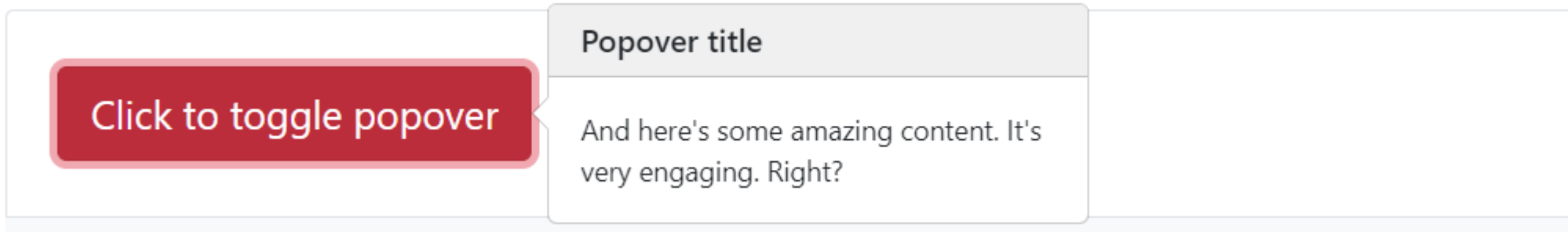
Another action

Something else here

Modals

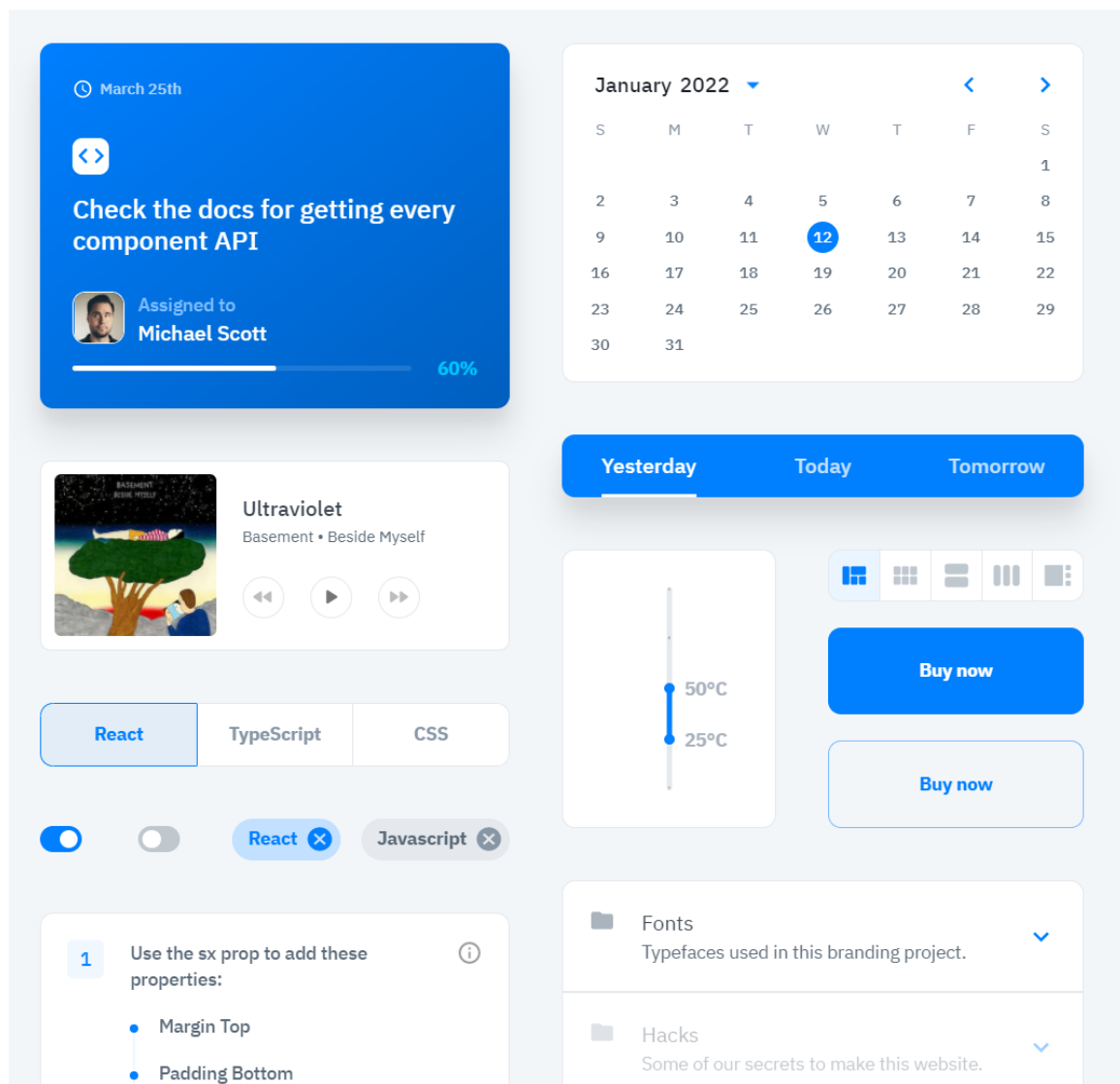


Popover



Etc...

More on Styling materials



Material-UI

