

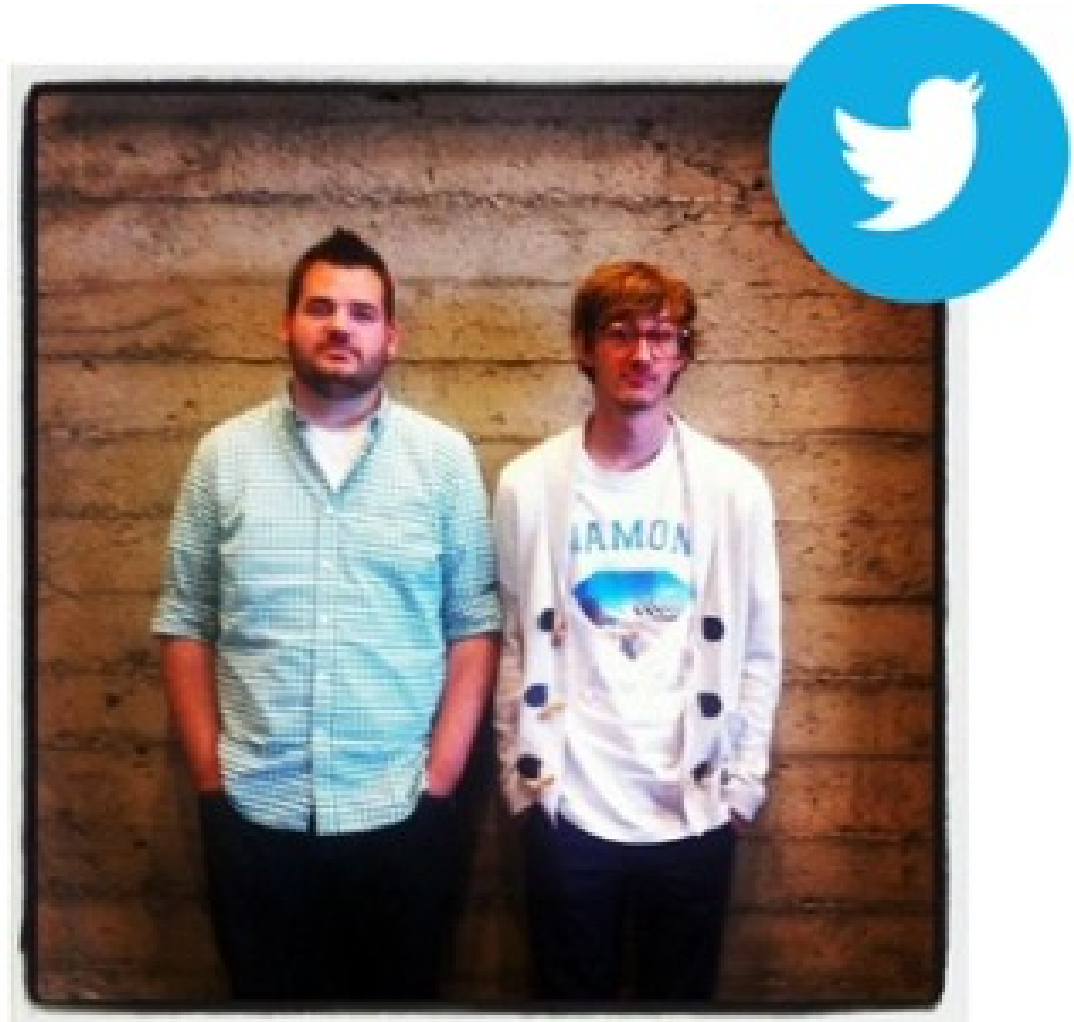


# Bootstrap

A Front-End Library

Created in 2010 by twitter developers Mark Otto and Jacob Thornton.

They thought on creating premade cc style so you can simply include into your project in order to use their pre built component and styling.



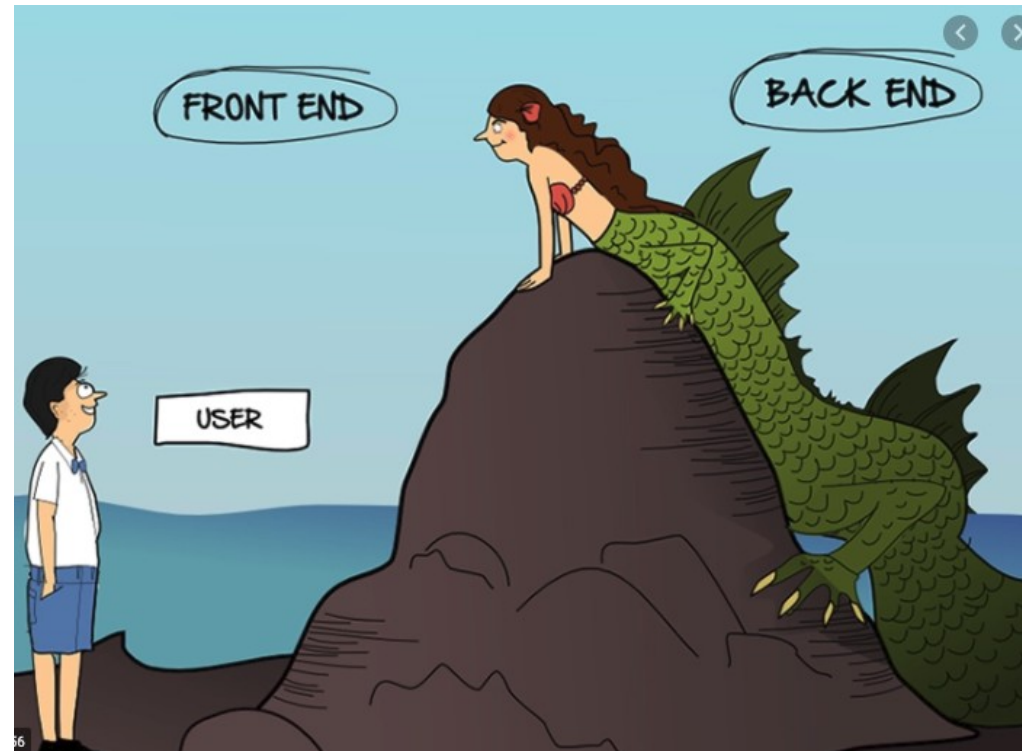
# What is BootStrap?

- It is a front-end framework.

The front end is basically what the user sees. It is the face of your website.

Back end tends to reside on the server and is basically behind the scenes sort of business logic of how your website or how your app is going to work, so things that it has to do.

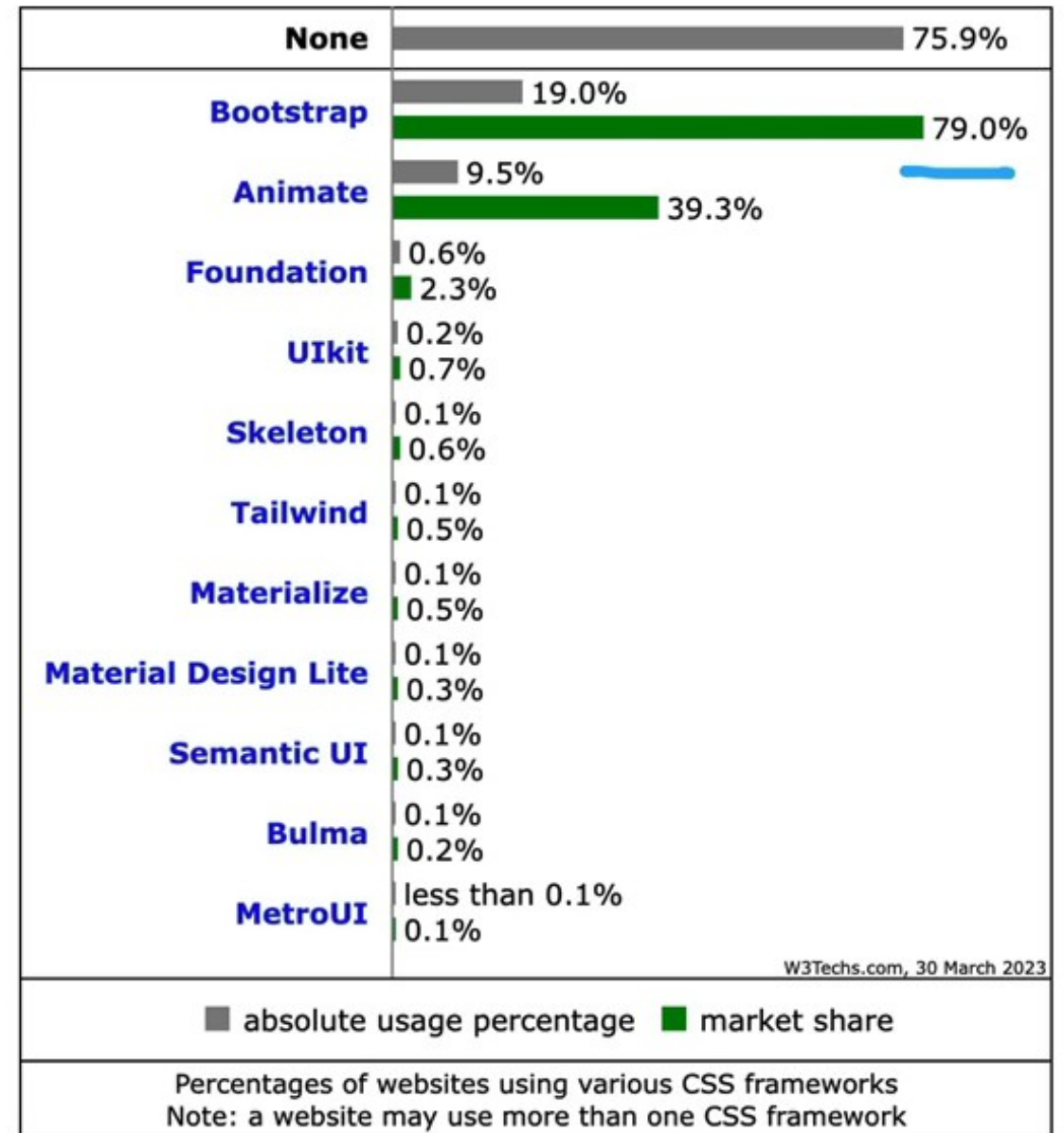
This is where you code a lot of functionality of the website or the app.



# CSS Frameworks and usage percentage.

- Bootstrap
- Foundation
- MUI
- Tailwind

They allow us to add prebuild component and develop websites quickly and efficiently.



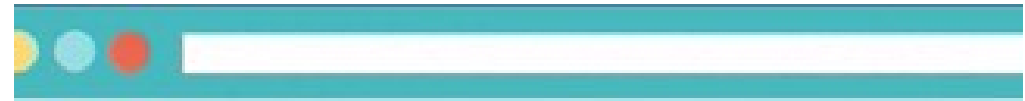
•Bootstrap is very firmly on the front end. It's a bunch of code that was written to be reusable that you can drop into your site and it will make designing the website much much easier for you.

•Bootstrap was originally developed by Twitter in order to try and get more consistence across websites. But they made it free and open source, so that means you can see all of the source code on Github.

•Bootstrap github:

<https://github.com/twbs/bootstrap>

•It is the second starred repository on all of Github, so that just shows you how popular it is.



This is definitely the most popular front end library that you will ever come across.

In the front end, you have your website or your app.

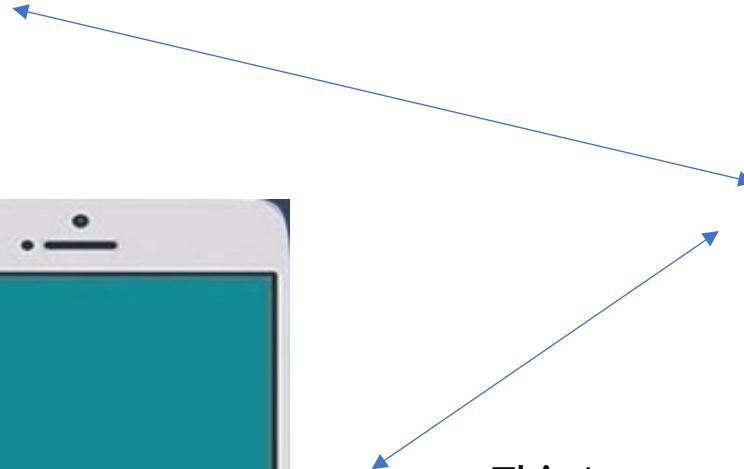


In the back end, you have your server, databases, less exciting , less pretty but nonetheless it's really important part of any website or app, because it's going to determine how everything is going to work.

Basically whatever the user sees is the front end.

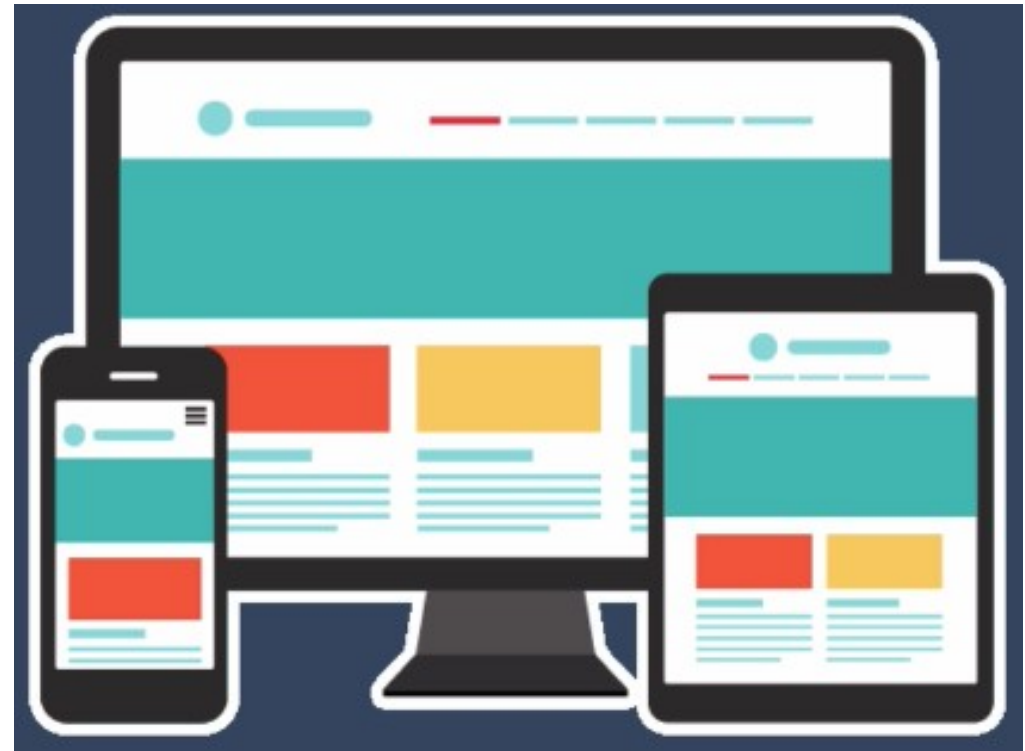


This two part will need to talk to each other in order for data to be delivered.



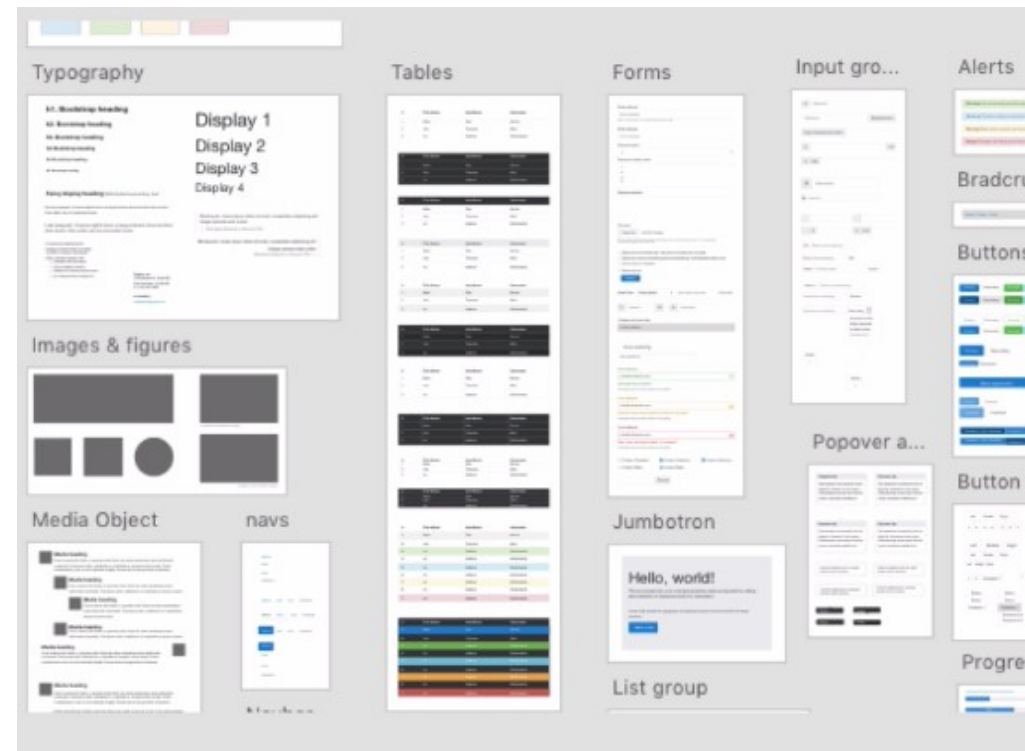
# Responsive

- One of the most important things is that, as the number of users are moving away from desktop towards mobile, a lot of websites need to be responsive. Responsive means that it responds to the viewport. Your website changes its design depending on where it is being displayed. And bootstrap make this super easy.



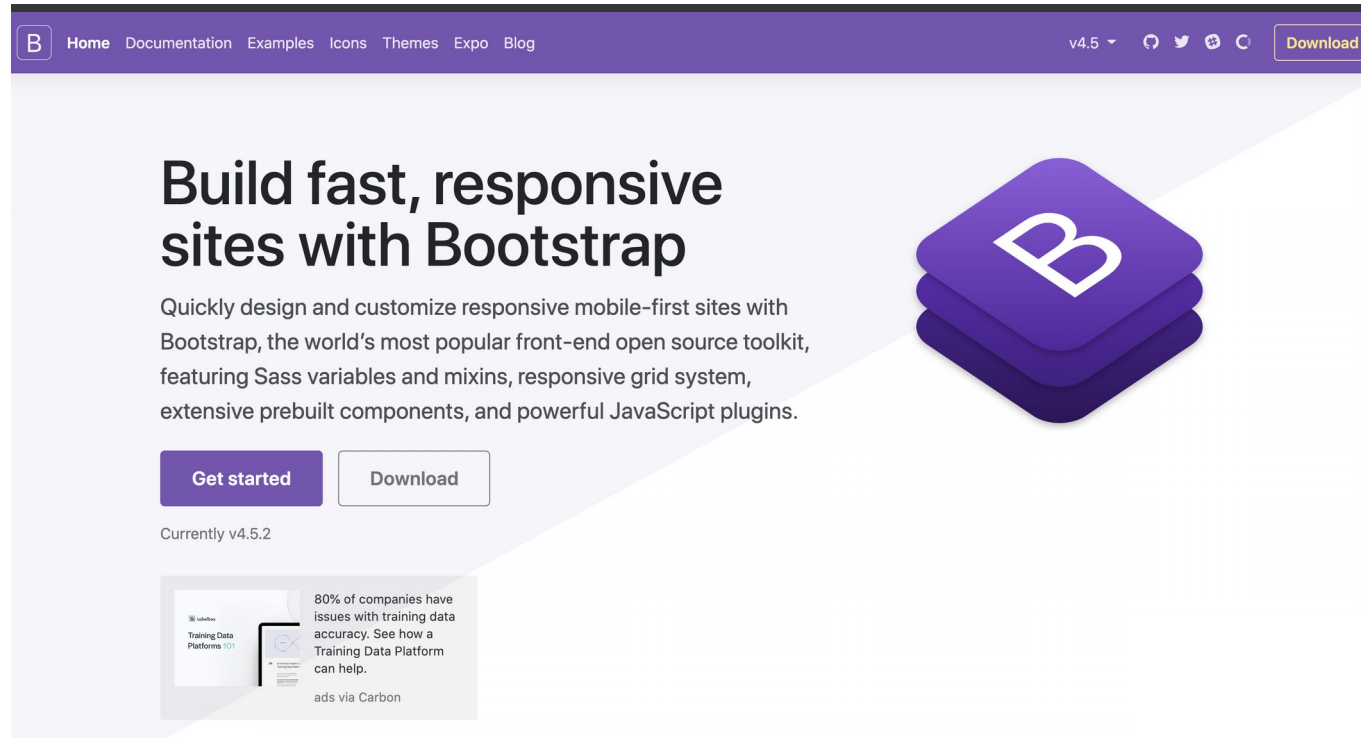
# Pre-Styled Elements

- You will get access to a whole bunch of pre-styled elements that you can simply just drop into your code with very minimal effort.





# How does bootstrap work?



Click download button.  
Open the folder using VSC.

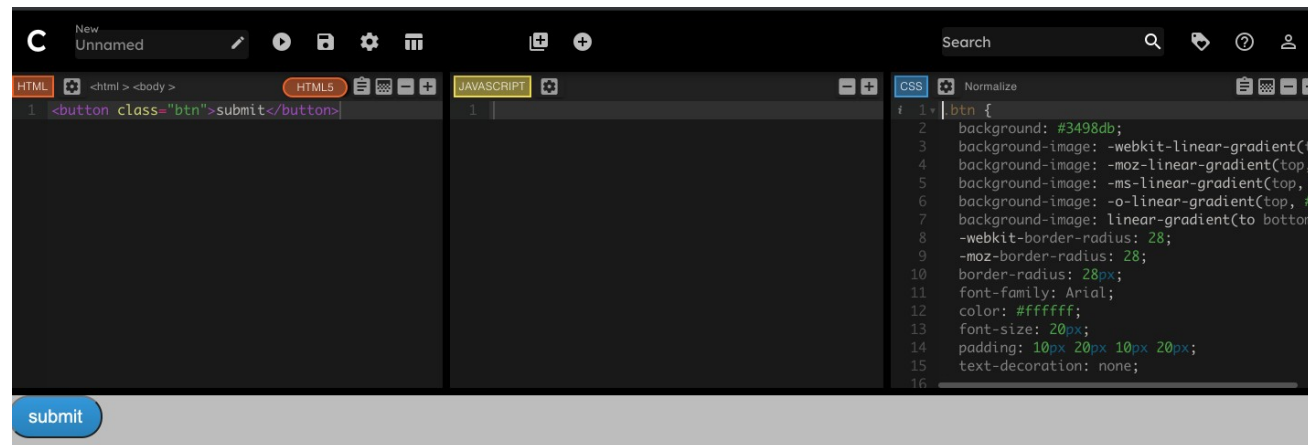
# codeply

<https://www.codeply.com/>

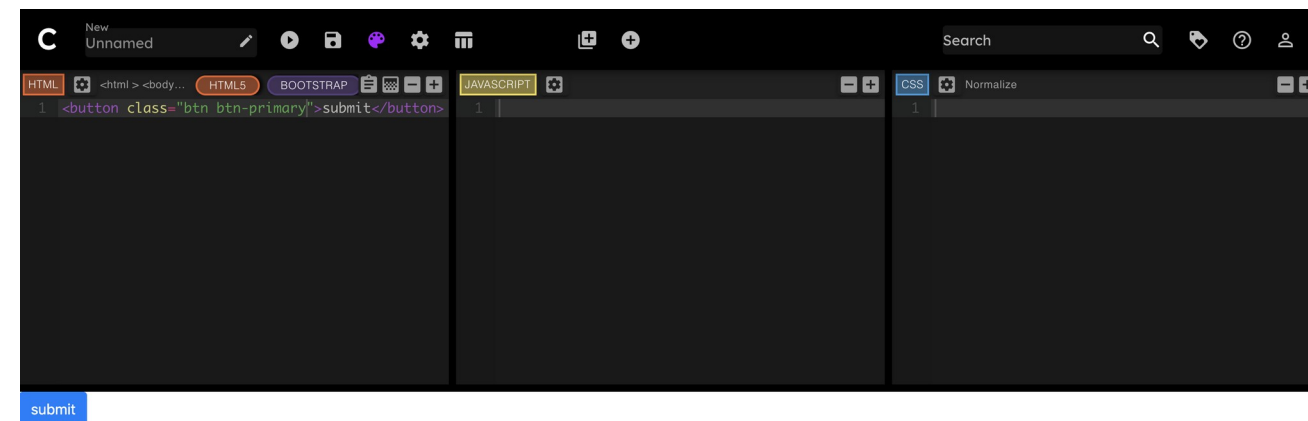
I selected bootstrap in the settings. I added another class called btn-primary. You will see that Bootstrap has generated this button for me with no CSS code on my part. I just added three words to activate the style.

It looks really nice with minimal effort. Because it is preloaded.

There are a lot of type of buttons.



The screenshot shows the Codeply editor interface. The HTML tab is active, displaying the code: `<button class="btn">submit</button>`. The CSS tab is also open, showing the default Bootstrap styles for the `.btn` class, including background color, border-radius, font-family, color, font-size, padding, and text-decoration. The preview at the bottom shows a blue button with the text "submit".



The screenshot shows the Codeply editor interface. The HTML tab is active, displaying the code: `<button class="btn btn-primary">submit</button>`. The CSS tab is also open, showing the default Bootstrap styles for the `.btn` class. The preview at the bottom shows a blue button with the text "submit".

# Example:

Button generator:

<https://css3buttongenerator.com/>



```
.btn {  
  background: #3498db;  
  background-image: -webkit-linear-gradient(top, #3498db, #2980b9);  
  background-image: -moz-linear-gradient(top, #3498db, #2980b9);  
  background-image: -ms-linear-gradient(top, #3498db, #2980b9);  
  background-image: -o-linear-gradient(top, #3498db, #2980b9);  
  background-image: linear-gradient(to bottom, #3498db, #2980b9);  
  -webkit-border-radius: 28px;  
  -moz-border-radius: 28px;  
  border-radius: 28px;  
  font-family: Arial;  
  color: #ffffff;  
  font-size: 20px;  
  padding: 10px 20px 10px 20px;  
  text-decoration: none;  
}  
  
.btn:hover {  
  background: #3cb0fd;  
  background-image: -webkit-linear-gradient(top, #3cb0fd, #3498db);  
  background-image: -moz-linear-gradient(top, #3cb0fd, #3498db);  
  background-image: -ms-linear-gradient(top, #3cb0fd, #3498db);  
  background-image: -o-linear-gradient(top, #3cb0fd, #3498db);  
  background-image: linear-gradient(to bottom, #3cb0fd, #3498db);  
  text-decoration: none;  
}
```

# Button class

Please go to [www.getbootstrap.com](https://www.getbootstrap.com)

1. Click in Documentation.
2. Click on Components.
3. Click on buttons.

## Examples

Bootstrap includes several predefined button styles, each serving its own semantic purpose, with a few extras thrown in for more control.

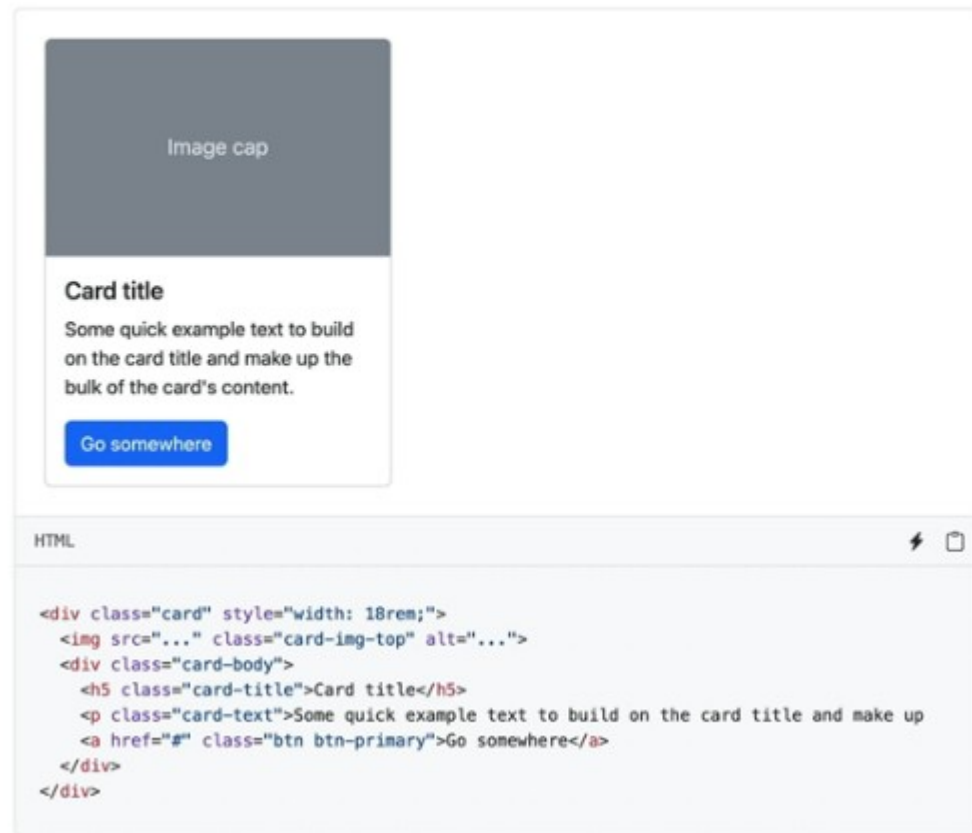
Primary Secondary Success Danger Warning Info Light Dark Link

```
<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>
```

Copy

# Cards



# Navs

Navbar Home Features Pricing Disabled

HTML

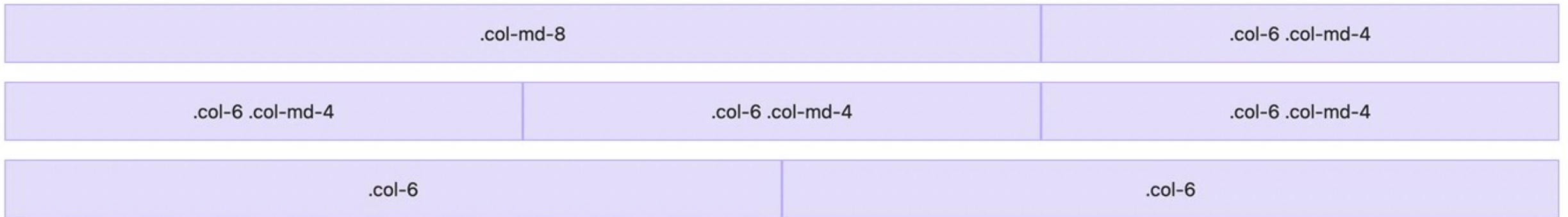


```
<nav class="navbar navbar-expand-lg bg-body-tertiary">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav"
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" href="#">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Features</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Pricing</a>
        </li>
        <li class="nav-item">
          <a class="nav-link disabled">Disabled</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

# Grid System

The grid system was one of the biggest reasons why bootstrap took off.

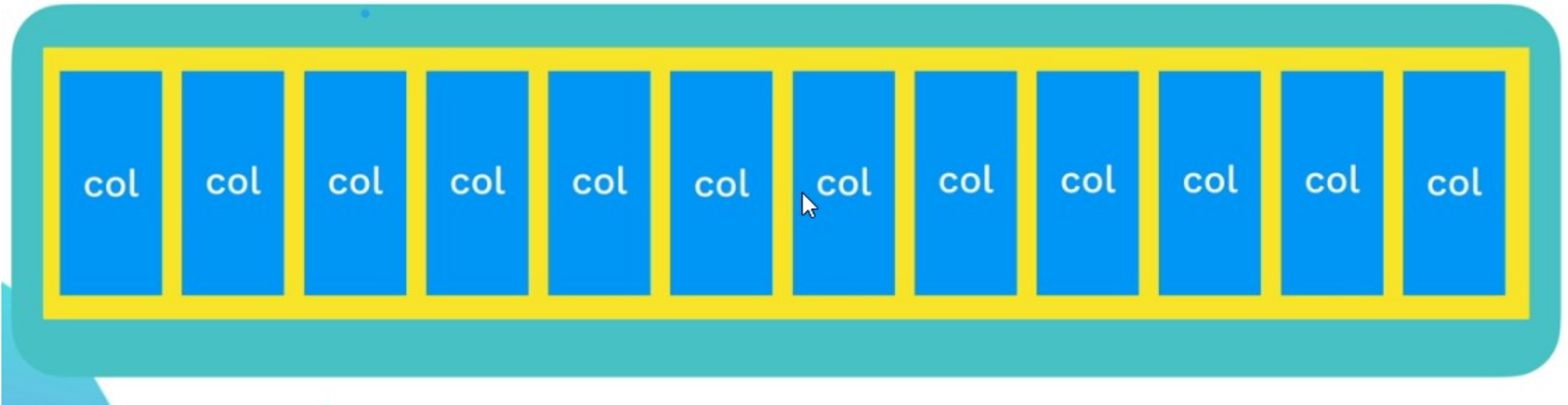
Its 12 column layout system build on top of flexbox.



# 12 column System

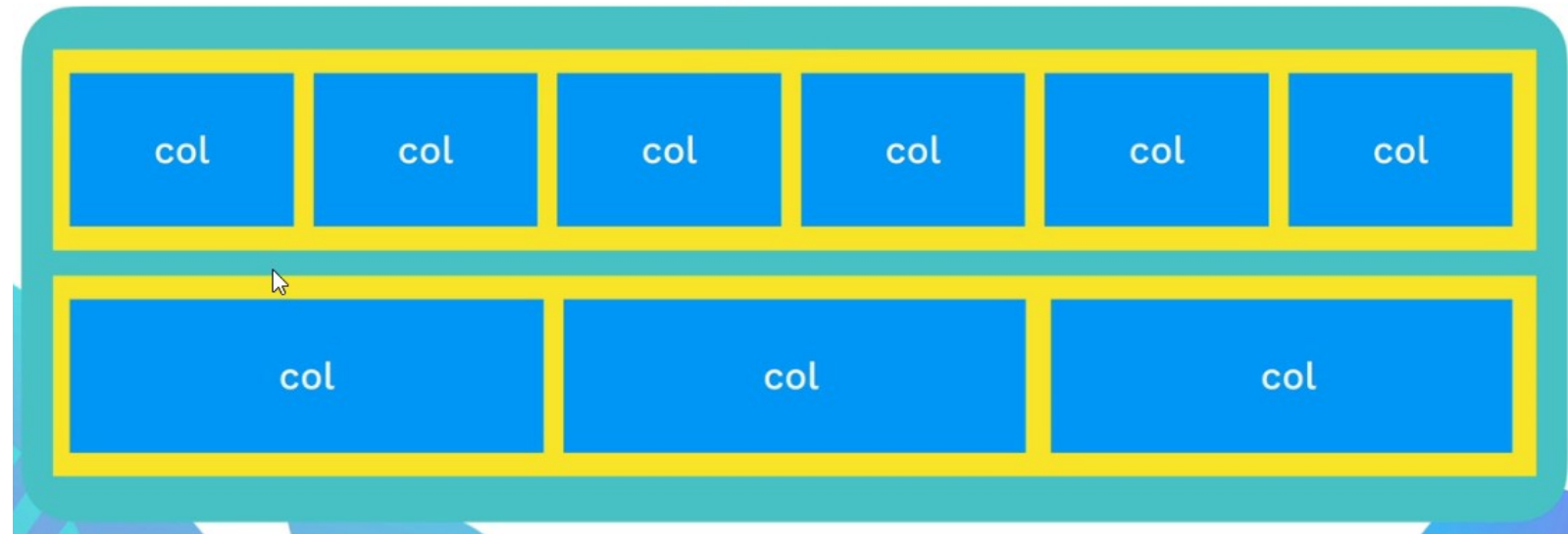
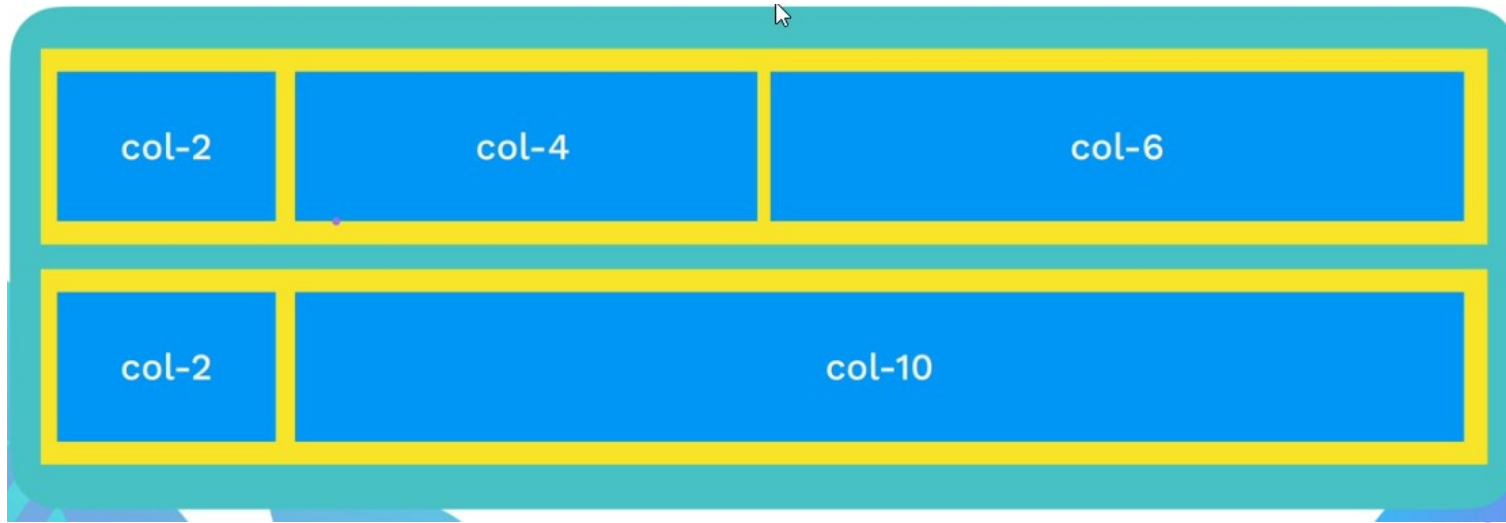
You have three components. You have a div with a class container to wrap all components. Another div with a class row and the column components - col class.

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





# Sized columns



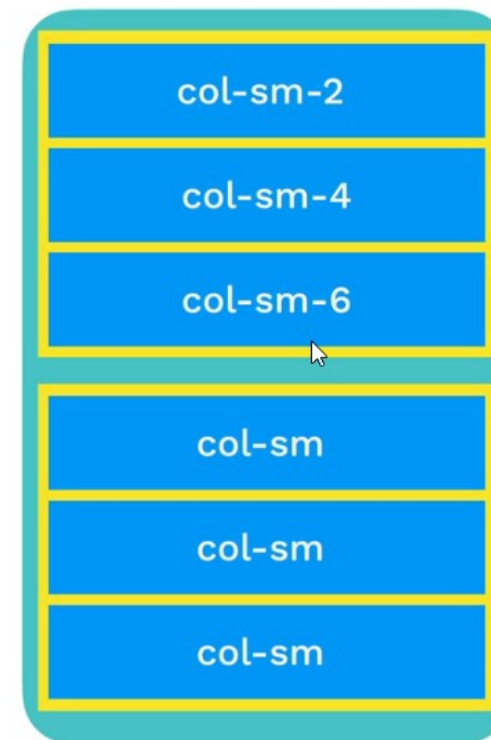
# Bootstrap Breakpoints

## Available breakpoints

Bootstrap includes six default breakpoints, sometimes referred to as *grid tiers*, for building responsively. These breakpoints can be customized if you're using our source Sass files.

Breakpoint	Class infix	Dimensions
Extra small	None	<576px
Small	sm	≥576px
Medium	md	≥768px
Large	lg	≥992px
Extra large	xl	≥1200px
Extra extra large	xxl	≥1400px

mobile  
iPad  
laptop  
desktop  
TV



# Jumbotron

Components

Click on Jumbotron

## Hello, world!

This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.

---

It uses utility classes for typography and spacing to space content out within the larger container.

[Learn more](#)

```
<div class="jumbotron">
  <h1 class="display-4">Hello, world!</h1>
  <p class="lead">This is a simple hero unit, a simple jumbotron-style component for calling extra at
  <hr class="my-4">
  <p>It uses utility classes for typography and spacing to space content out within the larger contai
  <a class="btn btn-primary btn-lg" href="#" role="button">Learn more</a>
</div>
```

Copy

# examples

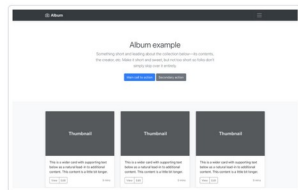
More extensive components using bootstrap.

Go to example.



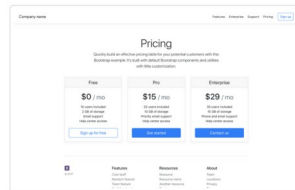
## Custom components

Brand new components and templates to help folks quickly get started with Bootstrap and demonstrate best practices for adding onto the framework.



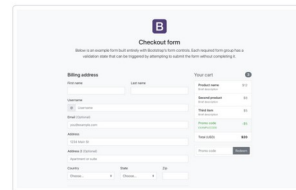
### Album

Simple one-page template for photo galleries, portfolios, and more.



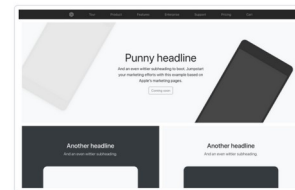
### Pricing

Example pricing page built with Cards and featuring a custom header and footer.



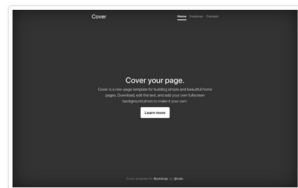
### Checkout

Custom checkout form showing our form components and their validation features.

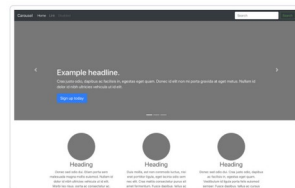


### Product

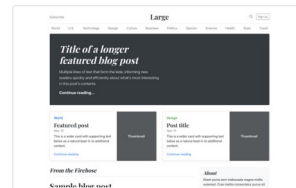
Lean product-focused marketing page with extensive grid and image work.



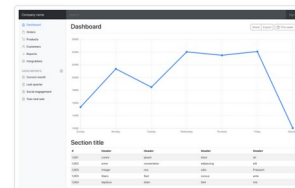
### Cover



### Carousel



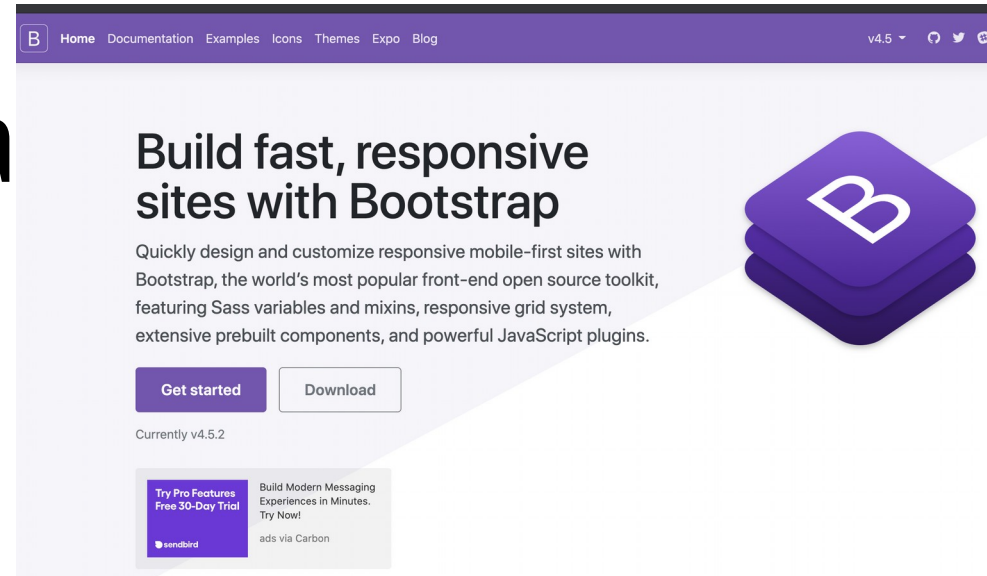
### Blog



### Dashboard

# Installing Bootstrap

Go to <https://getbootstrap.com/>



## Include via CDN

When you only need to include Bootstrap's compiled CSS or JS, you can use [jsDelivr](#). See it in action with our simple [quick start](#), or [browse the examples](#) to jumpstart your next project. You can also choose to include Popper and our JS [separately](#).

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha" 
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha" 
```

Click get started and copy the CSS link

# Another way to add bootstrap to your website is copying the starter template.

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Bootstrap demo</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" re
  </head>
  <body>
    <h1>Hello, world!</h1>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.
  </body>
</html>
```

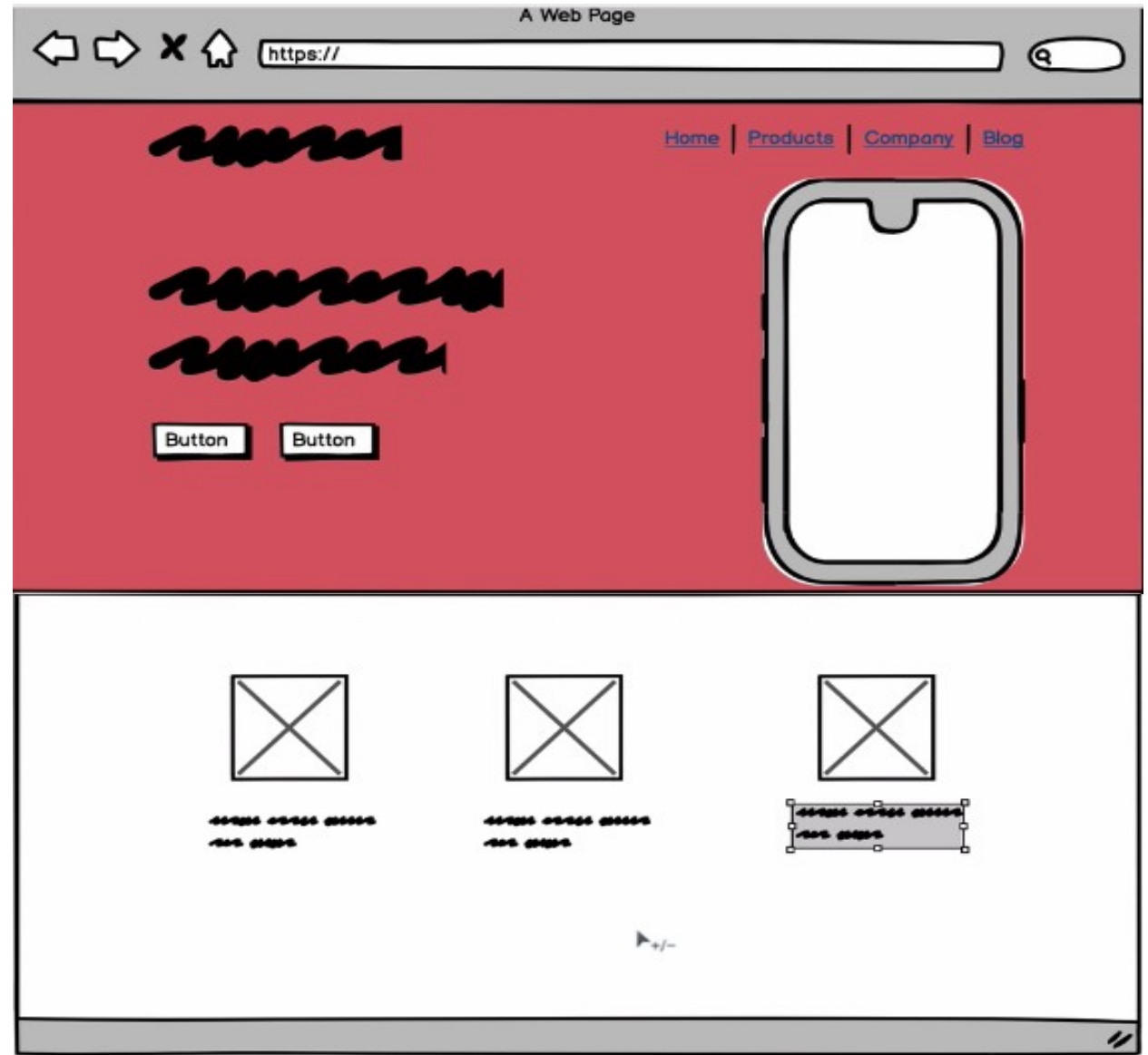
# Wireframing

It is a representation of your design. It is done on pen and paper or a design website. Before you write any code, you should do a wireframe of your website. Setup on a design before you implement it.



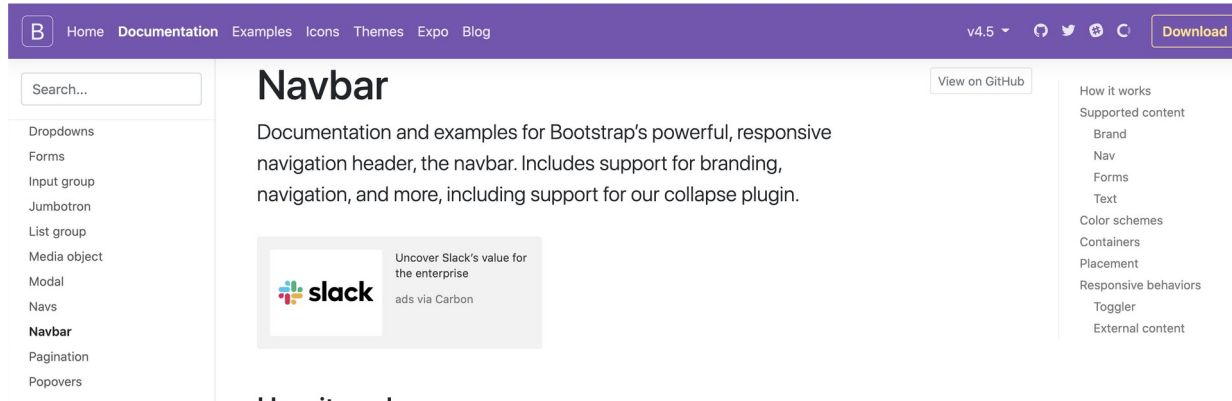
The classic workflow is to start off by looking at other people's websites, which will give you a good idea about the layout and structure.

after you create your wireframe and check out some patterns. You should create a sketched wireframe for planning the layout and see where everything is going to be. The next step is to create a mockup.





# Bootstrap Navigation Bar



```
Navbar Home Link Dropdown ▾ Disabled  
```

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedCc">
    <span class="navbar-toggler-icon"></span>
  </button>

  <div class="collapse navbar-collapse" id="navbarSupportedContent">
    <ul class="navbar-nav mr-auto">
      <li class="nav-item active">
        <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Link</a>
      </li>
      <li class="nav-item dropdown">
        <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown" role="button" data-toggle="c">
          Dropdown
        </a>
        <div class="dropdown-menu" aria-labelledby="navbarDropdown">
          <a class="dropdown-item" href="#">Action</a>
          <a class="dropdown-item" href="#">Another action</a>
          <div class="dropdown-divider"></div>
          <a class="dropdown-item" href="#">Something else here</a>
        </div>
      </li>
      <li class="nav-item">
        <a class="nav-link disabled" href="#" tabindex="-1" aria-disabled="true">Disabled</a>
      </li>
    </ul>

    <form class="form-inline my-2 my-lg-0">
      <input class="form-control mr-sm-2" type="search" placeholder="Search" aria-label="Search">
      <button class="btn btn-outline-success my-2 my-sm-0" type="submit">Search</button>
    </form>
  </div>
</nav>
```

# Example using codeply

```
HTML <html> <body>
1 <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
2   <a class="navbar-brand" href="#">tindog</a>
3   <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
4     <span class="navbar-toggler-icon"></span>
5   </button>
6
7   <div class="collapse navbar-collapse" id="navbarSupportedContent">
8     <ul class="navbar-nav ml-auto">
9       <li class="nav-item">
10        <a class="nav-link" href="#">Contact</a>
11      </li>
12      <li class="nav-item">
13        <a class="nav-link" href="#">Pricing</a>
14      </li>
15      <li class="nav-item">
16        <a class="nav-link" href="#">Download</a>
17      </li>
18    </ul>
19  </div>
20 </nav>
```