

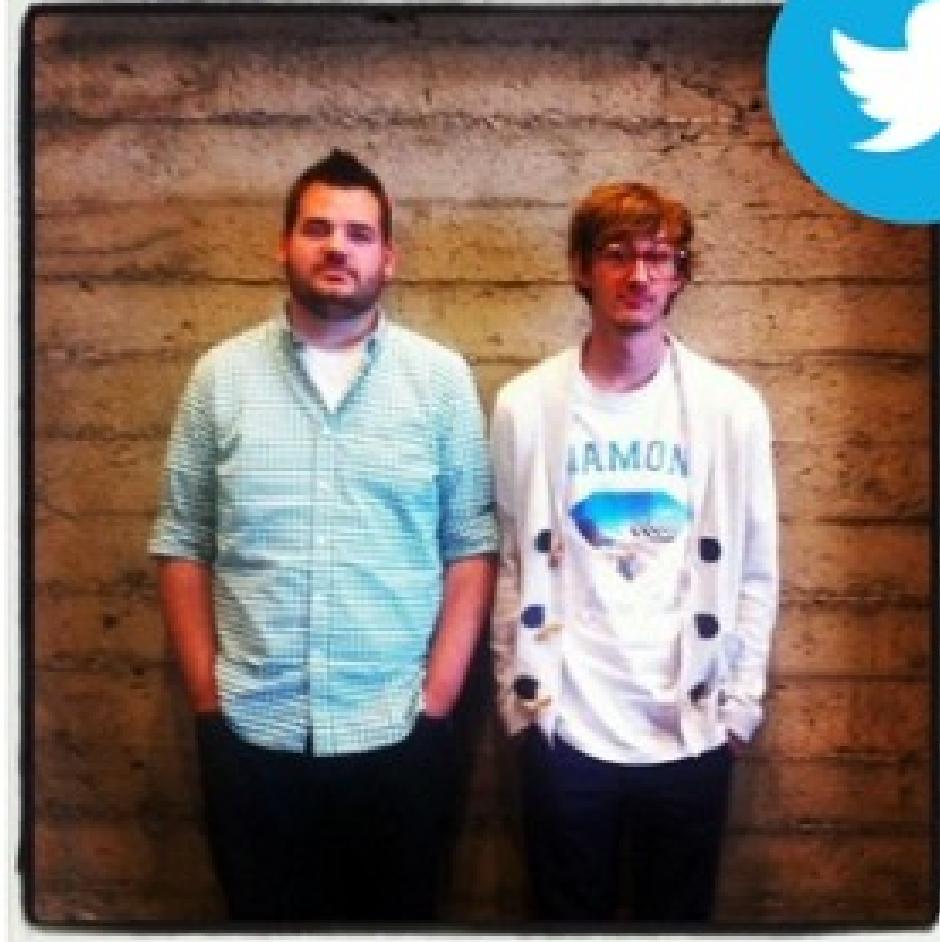


Bootstrap

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.



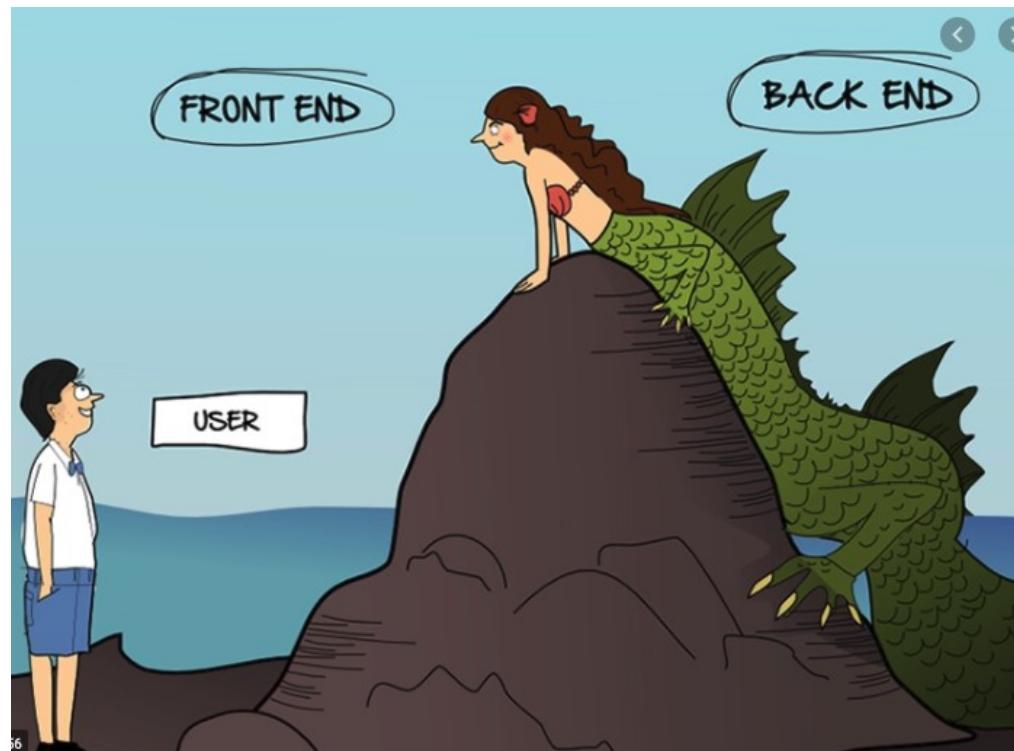
What is BootStrap?

- 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.

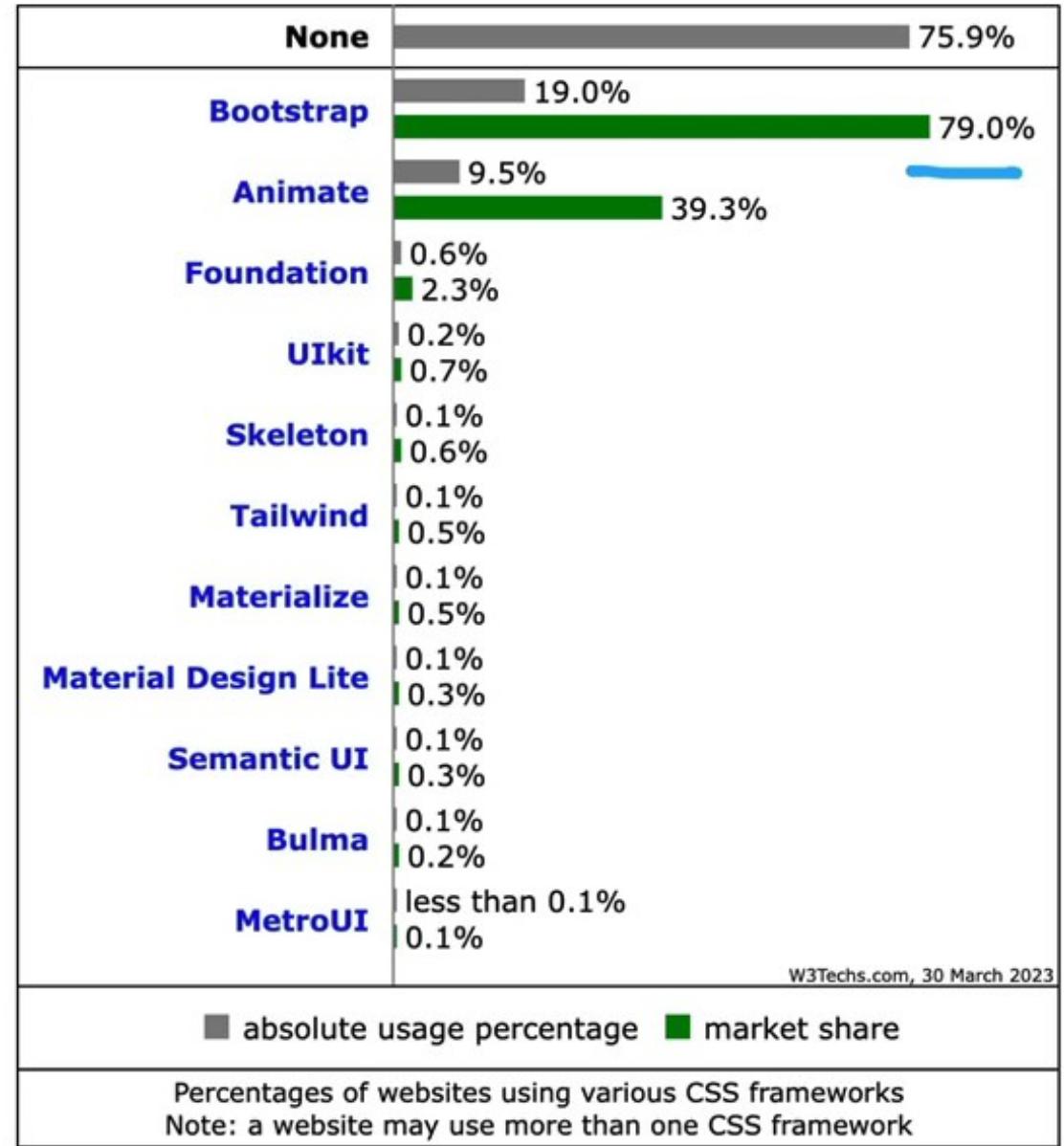
This is where you code a lot of functionality of the website or the app.



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.



Basically whatever the user sees is the front end.



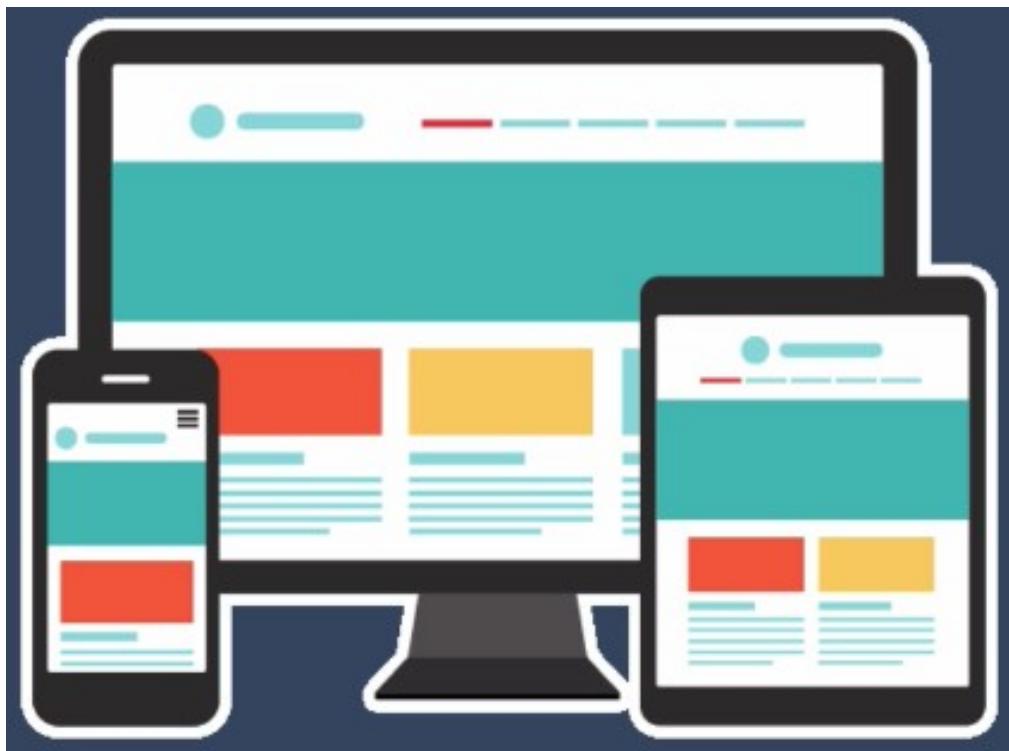
In the back end, you have your server, databases, less exciting , less pretty but nonetheless it's really important part of any website or app, because it's going to determine how everything is going to work.

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



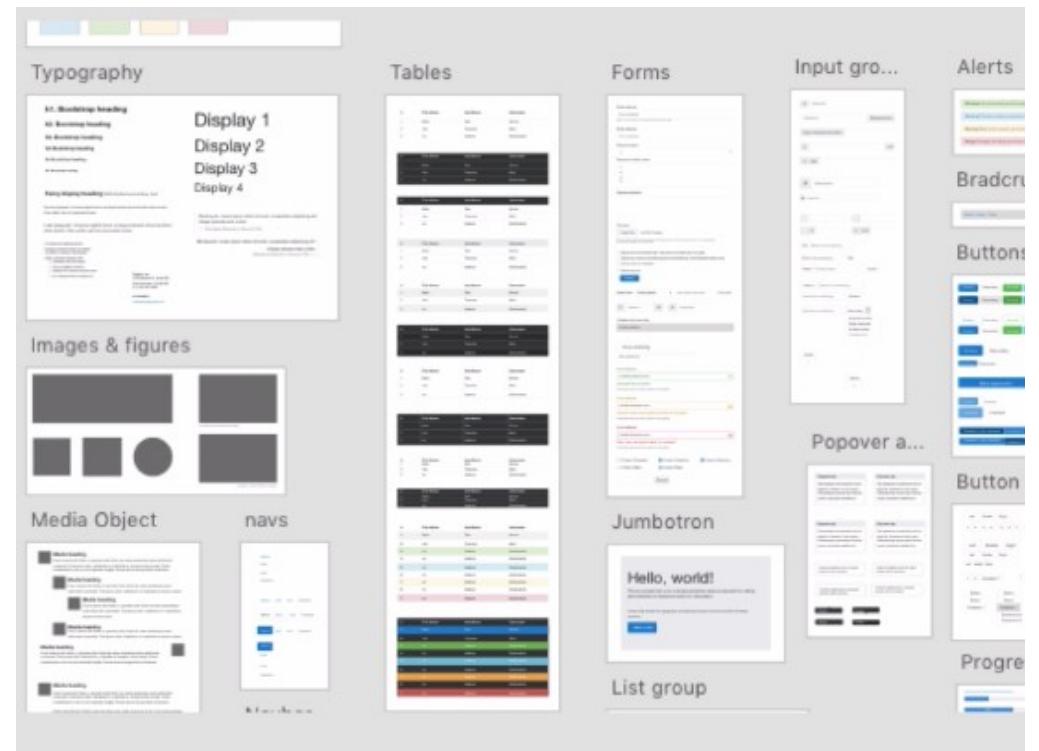
Responsive

- 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.

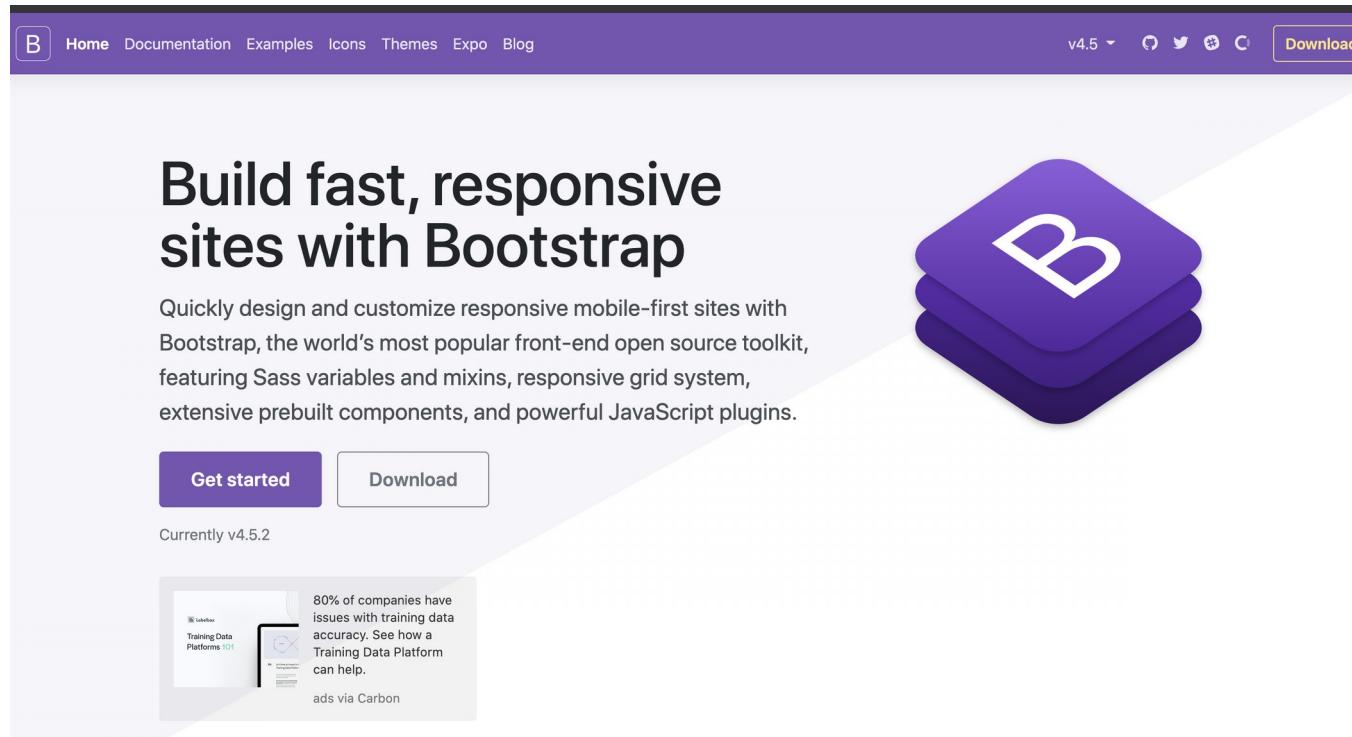


Pre-Styled Elements

- 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.

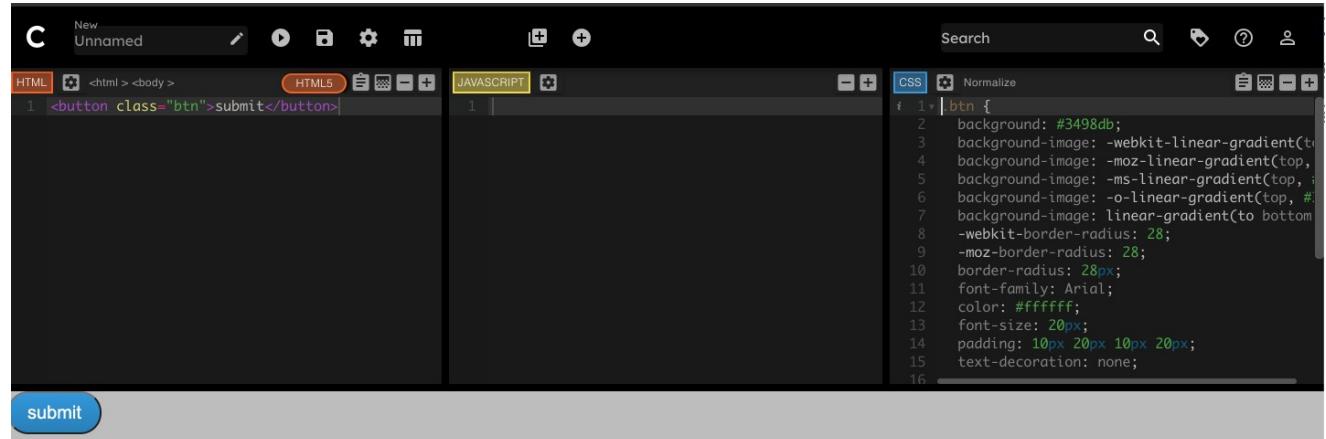
codeply

<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.

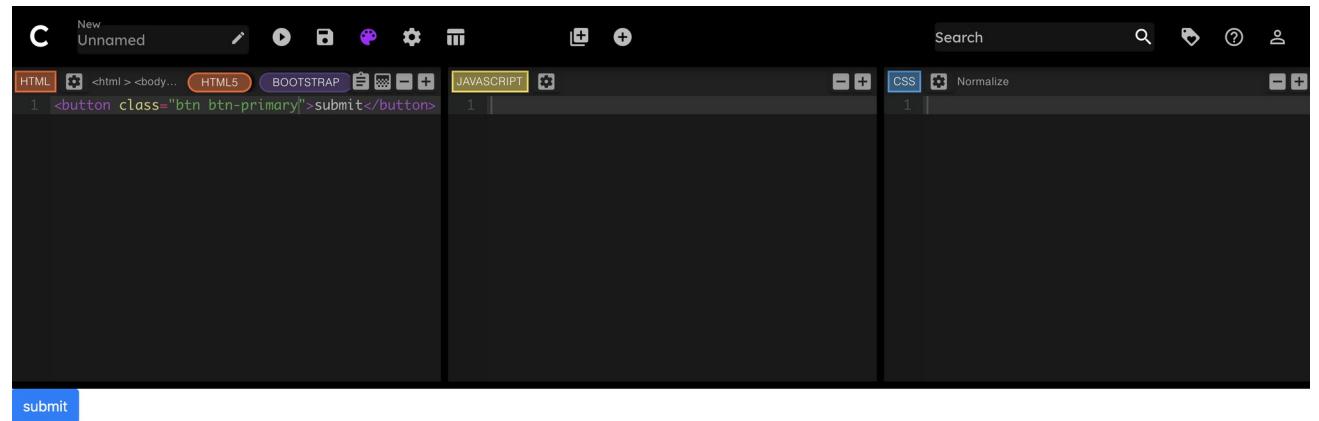
There are a lot of type of buttons.



The screenshot shows the Codeply IDE interface. The top navigation bar includes tabs for 'HTML', 'JAVASCRIPT', and 'CSS'. The 'HTML' tab displays the code: <button class="btn">submit</button>. The 'CSS' tab shows a single rule for the 'btn' class:

```
i 1 | .btn {  
2 |   background: #3498db;  
3 |   background-image: -webkit-linear-gradient(left, #3498db, #27ae60);  
4 |   background-image: -moz-linear-gradient(left, #3498db, #27ae60);  
5 |   background-image: -ms-linear-gradient(left, #3498db, #27ae60);  
6 |   background-image: -o-linear-gradient(left, #3498db, #27ae60);  
7 |   background-image: linear-gradient(to right, #3498db, #27ae60);  
8 |   -webkit-border-radius: 28px;  
9 |   -moz-border-radius: 28px;  
10 |  border-radius: 28px;  
11 |  font-family: Arial;  
12 |  color: #ffffff;  
13 |  font-size: 20px;  
14 |  padding: 10px 20px 10px 20px;  
15 |  text-decoration: none;  
16 | }  
1 | }
```

A blue 'submit' button is visible at the bottom of the preview area.



The screenshot shows the Codeply IDE interface again. The 'HTML' tab now includes the 'BOOTSTRAP' tab, indicating the selected theme. The 'HTML' code remains the same: <button class="btn btn-primary">submit</button>. The 'CSS' tab still shows the same 'btn' class rule, but the preview area now displays a larger, more prominent blue 'submit' button with a white font, demonstrating the effect of the 'btn-primary' class.

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: 28;  
-moz-border-radius: 28;  
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;  
}
```

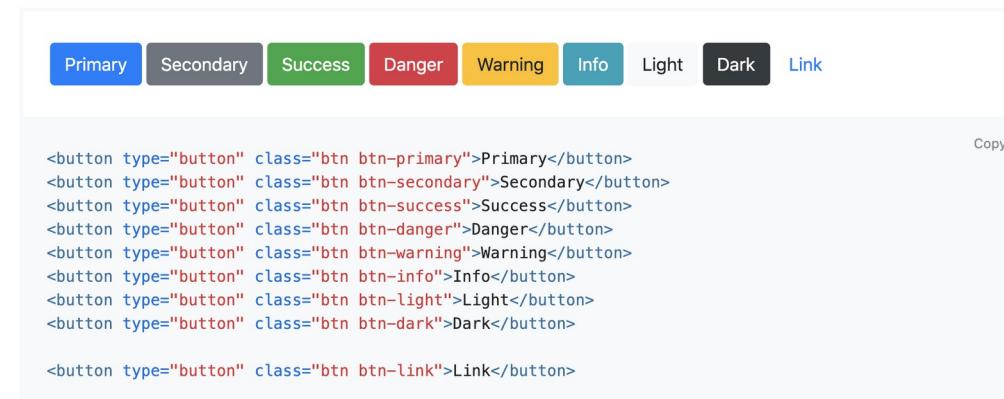
Button class

Please go to www.getbootstrap.com

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.



The screenshot shows a section of the Bootstrap documentation for the Button class. At the top, there is a horizontal row of colored buttons labeled "Primary", "Secondary", "Success", "Danger", "Warning", "Info", "Light", "Dark", and "Link". Below this row, a block of HTML code is displayed, showing the structure for creating each type of 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-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>
```

A "Copy" button is located in the top right corner of the code block.

Cards



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](#)

HTML

```
<div class="card" style="width: 18rem;">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">Some quick example text to build on the card title and make up
      the bulk of the card's content.</p>
    <a href="#" class="btn btn-primary">Go somewhere</a>
  </div>
</div>
```

Navs

Navbar Home Features Pricing Disabled

HTML

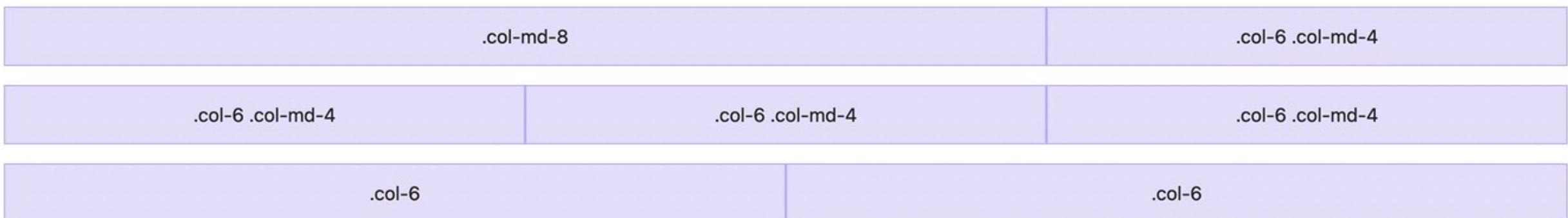


```
<nav class="navbar navbar-expand-lg bg-body-tertiary">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-targ
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse 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.

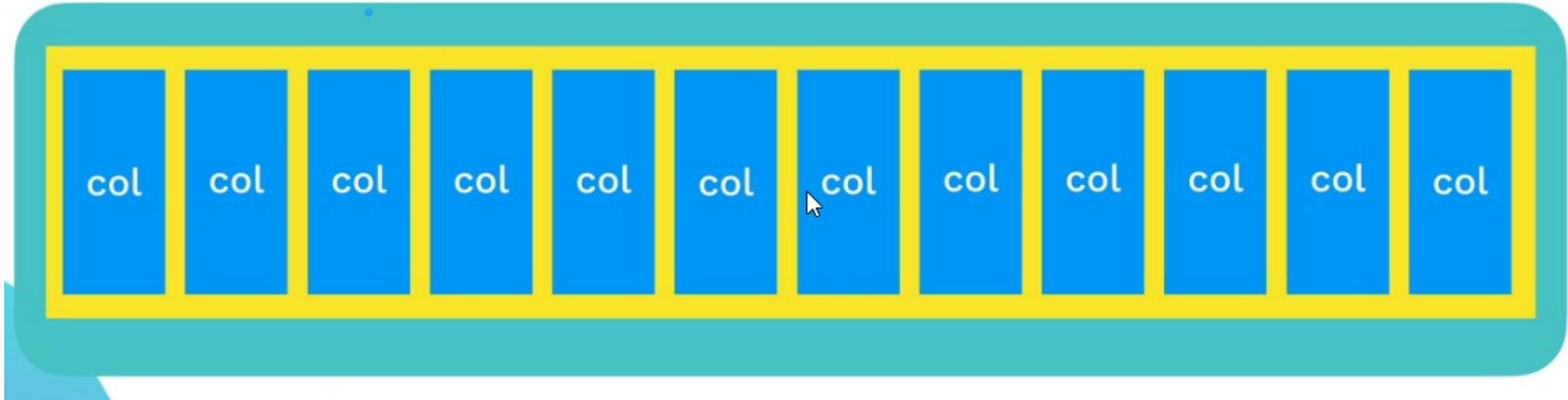
Its 12 column layout system build on top of flexbox.



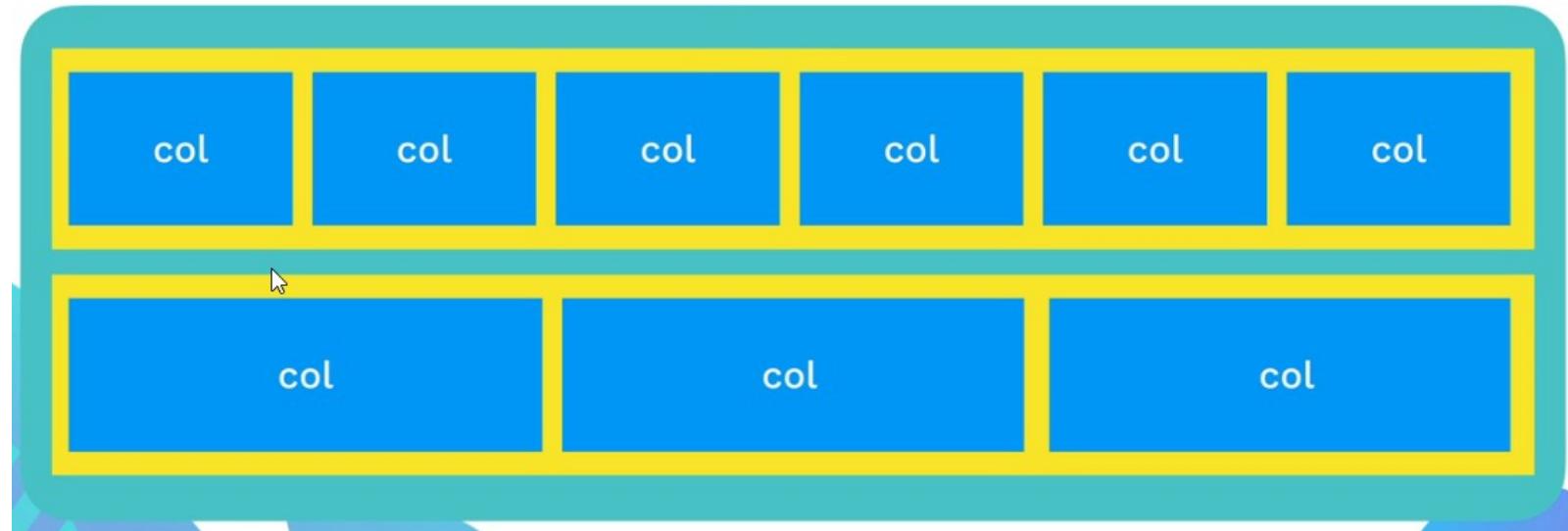
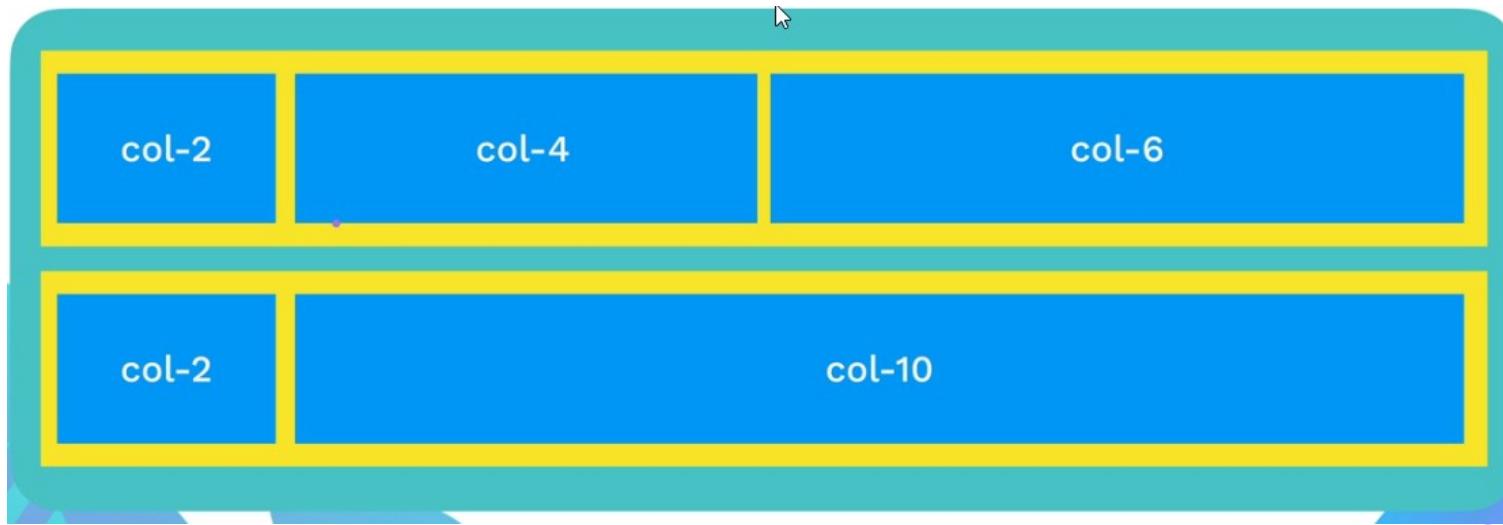
12 column System

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



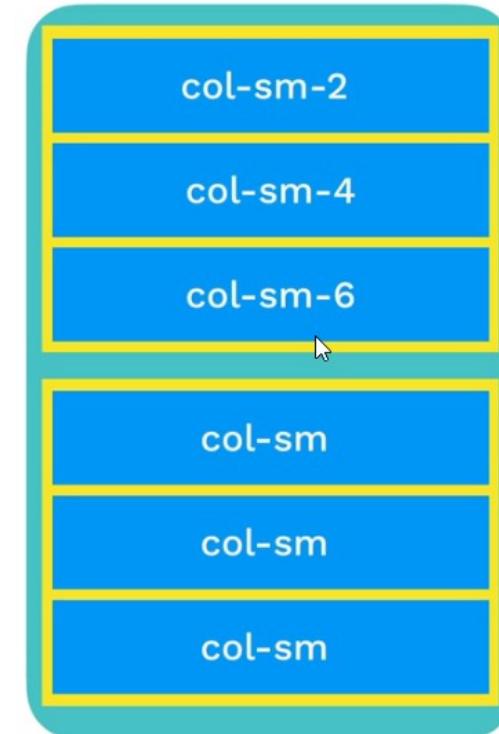
Bootstrap Breakpoints

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

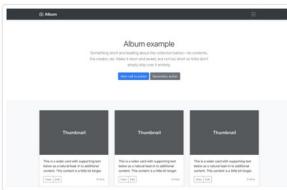
More extensive components using bootstrap.

Go to example.

The screenshot shows the top navigation bar of the Bootstrap Examples website. It includes the Bootstrap logo, a search bar with placeholder text "Search...", and links for Home, Documentation, Examples, Icons, Themes, Expo, and Blog. On the right side of the bar are links for v4.5, social media icons (Facebook, Twitter, GitHub), and a "Download" button. Below the navigation is a large heading "Introduction". To the right of the heading are buttons for "View on GitHub" and "Quick start CSS".

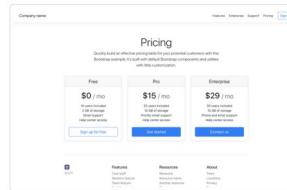
Custom components

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



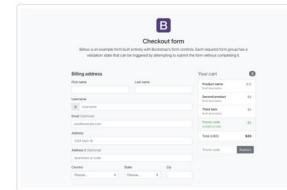
Album

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



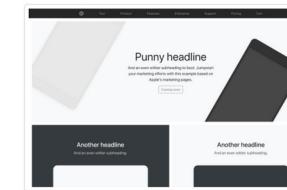
Pricing

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



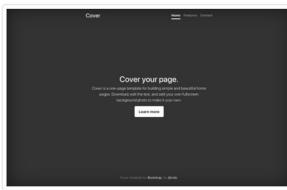
Checkout

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

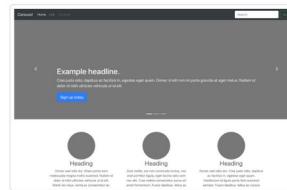


Product

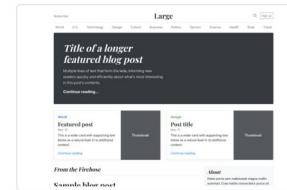
Lean product-focused marketing page with extensive grid and image work.



Cover



Carousel



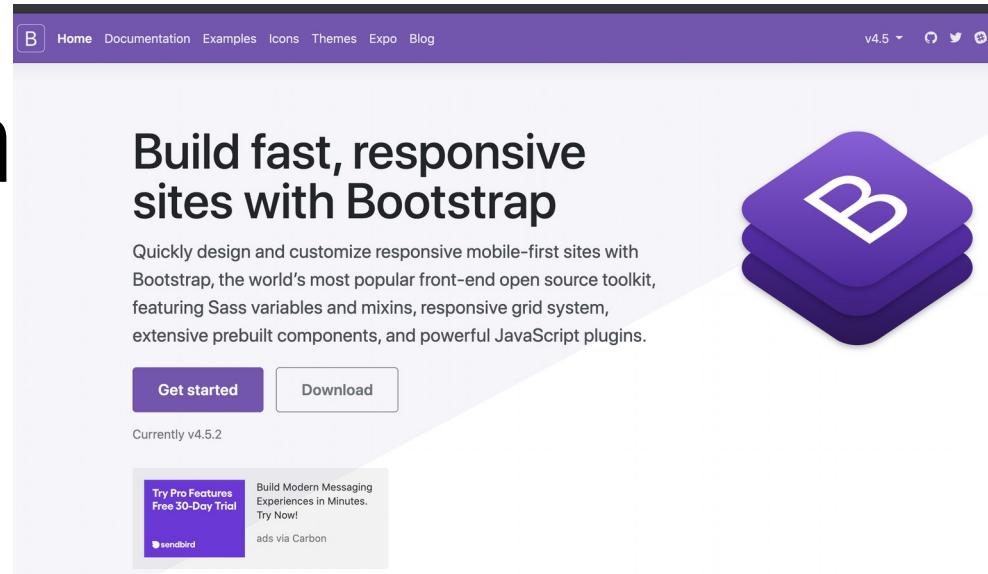
Blog



Dashboard

Installing Bootstrap

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



The screenshot shows the official Bootstrap website. At the top, there's a purple navigation bar with the Bootstrap logo (a stylized 'B') and links for Home, Documentation, Examples, Icons, Themes, Expo, and Blog. On the far right of the bar are icons for GitHub, Twitter, and LinkedIn. Below the bar, the main heading reads "Build fast, responsive sites with Bootstrap". A subtext explains: "Quickly design and customize responsive mobile-first sites with Bootstrap, the world's most popular front-end open source toolkit, featuring Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful JavaScript plugins." Two buttons are present: a purple "Get started" button and a white "Download" button. Below these buttons, it says "Currently v4.5.2". At the bottom of the main content area, there's a small advertisement for "sendbird" with the text "Try Pro Features Free 30-Day Trial" and "Build Modern Messaging Experiences in Minutes. Try Now!". It also mentions "ads via Carbon". To the right of the main content, there's a large, stylized purple icon of the letter 'B'.



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](#).

Click get started and copy the CSS link

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet">
```

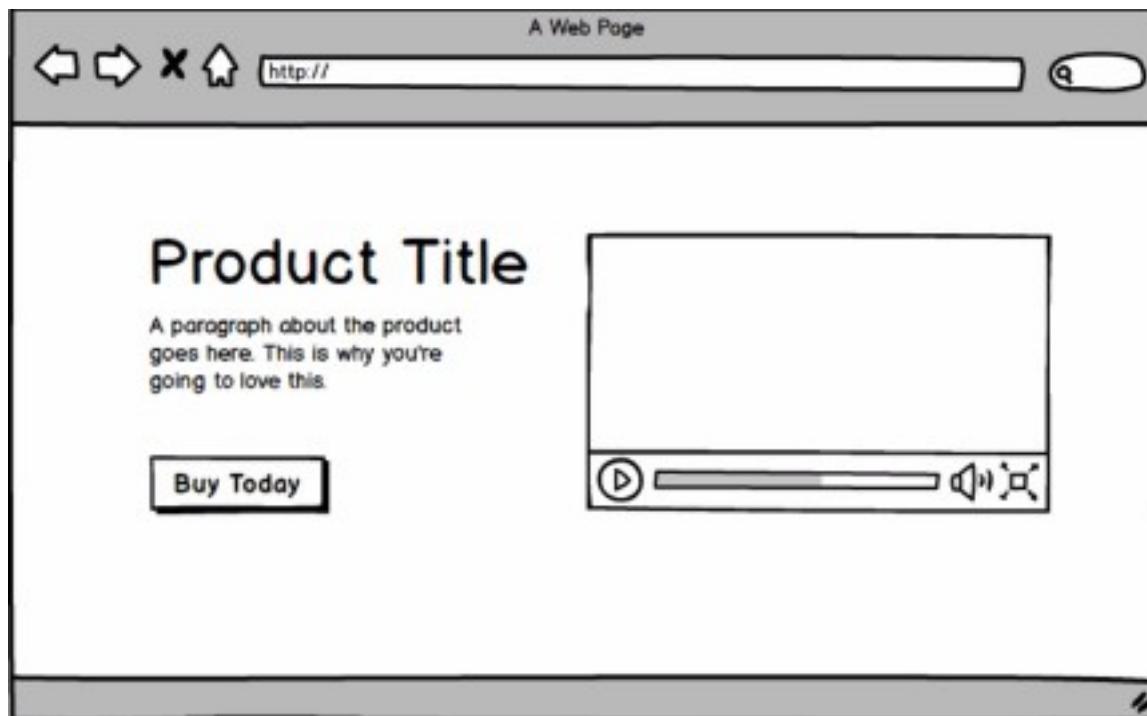
```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-qOBuE+oJLWjzZlXyZlE0Iw0Uj3PjvZ9kqN" crossorigin="anonymous"></script>
```

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>
```

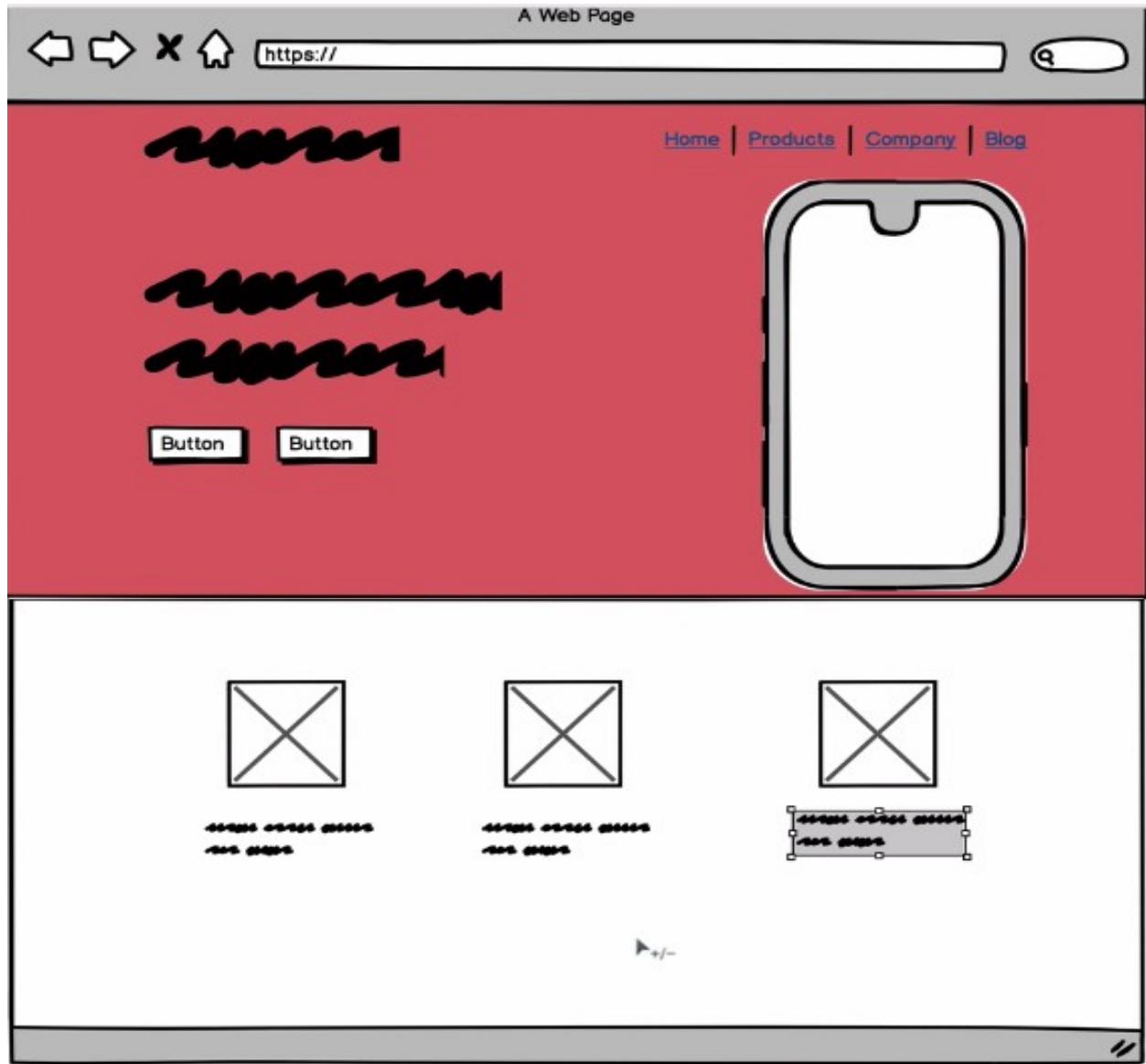
Wireframing

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

The screenshot shows the Bootstrap Documentation website's Navbar page. At the top, there's a purple navigation bar with links for Home, Documentation, Examples, Icons, Themes, Expo, and Blog. A search bar is on the left, and a 'Download' button is on the right. Below the bar, the main content area has a title 'Navbar' and a sub-section 'Documentation and examples for Bootstrap's powerful, responsive navigation header, the navbar. Includes support for branding, navigation, and more, including support for our collapse plugin.' To the right of this text is a 'View on GitHub' button. On the far right, there's a sidebar with links like 'How it works', 'Supported content', 'Brand', 'Nav', 'Forms', 'Text', 'Color schemes', 'Containers', 'Placement', 'Responsive behaviors', 'Toggler', and 'External content'. At the bottom of the content area, there's a small advertisement for Slack.

The screenshot shows the Bootstrap documentation page with the 'Navbar' component selected in the top navigation. The main content area displays the HTML source code for the Navbar. The code includes the navbar structure with a brand, toggler, and collapse functionality, followed by a list of items including a current item ('Home'), a link ('Link'), and a dropdown menu with multiple items ('Action', 'Another action', 'Something else here'). It also includes a disabled link and a search form at the bottom. The code uses Bootstrap's utility classes like 'mr-auto', 'mr-sm-2', and 'my-2'.

```
<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="#navbarSupportedContent">
    <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="dropdown">Dropdown
          <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>
        </a>
        <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>

HTML5  Bootstrap  CSS 

```
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>
```