



Information Technology Program  
Faculty of Engineering  
Udayana University

# Web Programming: Bootstrap

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# What Bootstrap is



# Client Side



# Server Side



# Web with **Bootstrap**



The image is a collage of various Bootstrap-based web application screenshots. It includes a dashboard with multiple charts and graphs, a landing page for a summer collection featuring a woman in a bikini, a mobile application interface for a robo-advisor, and several other dashboard and landing page examples. Three red circles with white outlines are overlaid on the image, each pointing to a specific feature: one points to the top right corner of the dashboard screenshot, another points to the middle right of the landing page screenshot, and a third points to the bottom right of the dashboard screenshot.

Simplify basic design coding

Responsive grid system

Powerful JavaScript plugins

# Web with Bootstrap (2)



Company name

Features Enterprise Support Pricing [Sign up](#)

## Pricing

Quickly build an effective pricing table for your potential customers with this Bootstrap example. It's built with default Bootstrap components and utilities with little customization.

<p><b>Free</b></p> <p><b>\$0 / mo</b></p> <p>10 users included 2 GB of storage Email support Help center access</p> <p><a href="#">Sign up for free</a></p>	<p><b>Pro</b></p> <p><b>\$15 / mo</b></p> <p>20 users included 10 GB of storage Priority email support Help center access</p> <p><a href="#">Get started</a></p>	<p><b>Enterprise</b></p> <p><b>\$29 / mo</b></p> <p>30 users included 15 GB of storage Phone and email support Help center access</p> <p><a href="#">Contact us</a></p>
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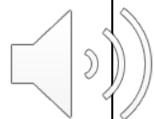
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**Features**  
Cool stuff  
Random feature  
Team feature  
Stuff for developers  
Another one  
Last time

**Resources**  
Resource  
Resource name  
Another resource  
Final resource

**About**  
Team  
Locations  
Privacy  
Terms



# Web with Bootstrap (3)

Company name

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Sign out

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- [Customers](#)
- [Reports](#)
- [Integrations](#)

SAVED REPORTS (+)

- [Current month](#)
- [Last quarter](#)
- [Social engagement](#)
- [Year-end sale](#)

A line chart showing sales volume by day of the week. The Y-axis represents sales volume from 12,000 to 26,000. The X-axis represents the days of the week: Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday. The data shows a general upward trend from Sunday to Friday, followed by a sharp decline on Saturday.

#	Header	Header	Header	Header
1,001	Lorem	ipsum	dolor	sit
1,002	amet	consectetur	adipiscing	elit
1,003	Integer	nec	odio	Praesent
1,003	libero	Sed	cursus	ante



# What is Bootstrap?

“free and open-source  
**CSS framework** directed  
at responsive, mobile-first  
front-end web  
development”

## Navbar With

Link 1

Link 2

This example adds a dropdown menu in the navbar.

```
<html>
  <head>
    <script src="jquery-3.2.1.min.js"></script>
    <script src="bootstrap-4.5.3-dist/js/bootstrap.min.js">
    </script>
    <link href="bootstrap-4.5.3-dist/css/bootstrap.min.css"
          rel="stylesheet" type="text/css">
  </head>
  <body>
    <nav class="navbar navbar-expand-sm bg-info navbar-
dark">
      <!-- Brand -->
      <a class="navbar-brand" href="#">Logo</a>

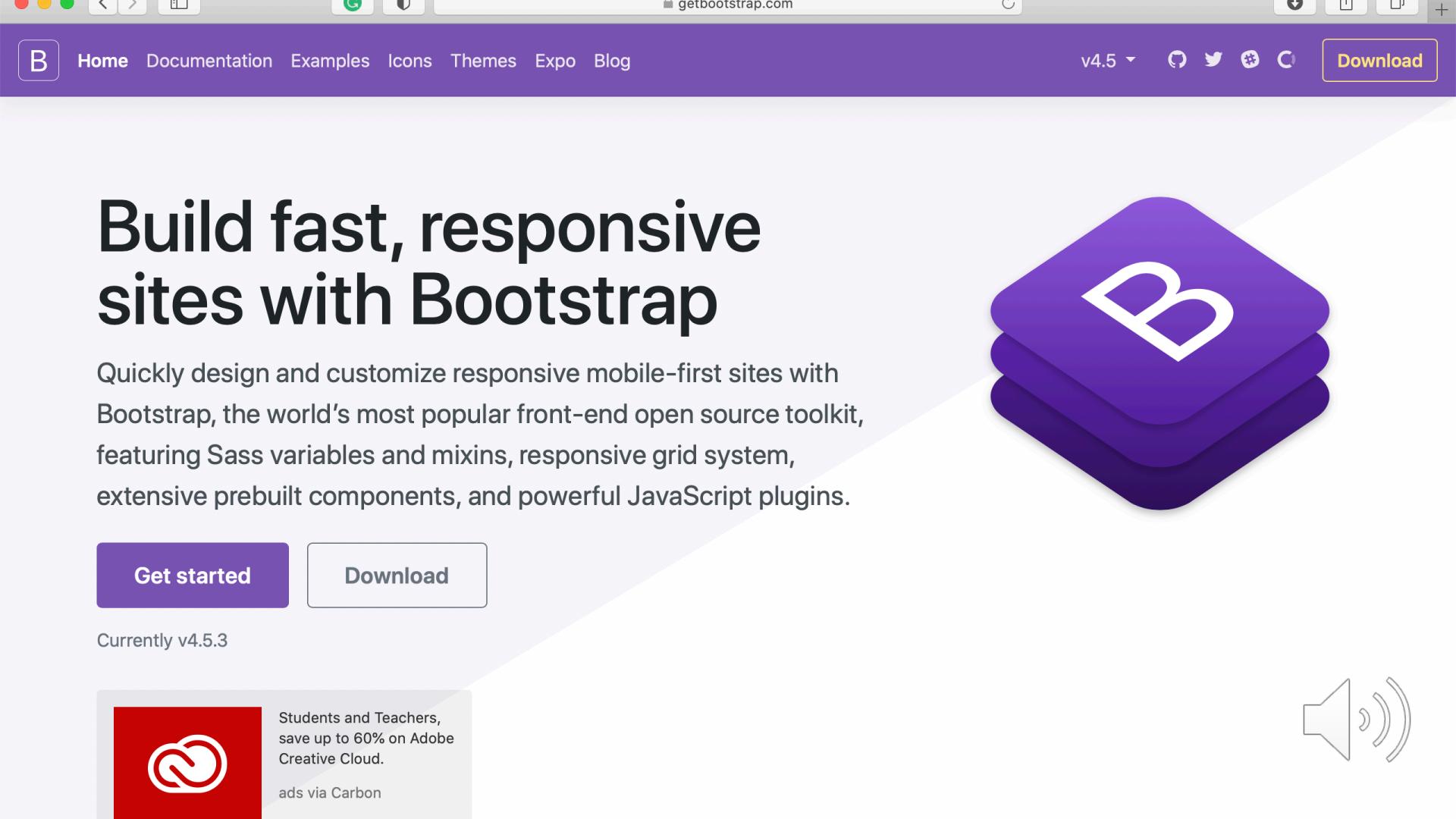
      <!-- Links -->
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="#">Link 1</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Link 2</a>
        </li>
```





# How to Use Bootstrap





B

[Home](#) [Documentation](#) [Examples](#) [Icons](#) [Themes](#) [Expo](#) [Blog](#)

v4.5



[Download](#)

# Build fast, responsive sites with Bootstrap

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.

[Get started](#)

[Download](#)

Currently v4.5.3



Students and Teachers,  
save up to 60% on Adobe  
Creative Cloud.

ads via Carbon



# Attach Bootstrap to Your HTML Documents



Option  
#1

Use  
online  
resources

```
1 ▼ <html>
2 ▼   <head>
3     <!-- CSS -->
4     <link rel="stylesheet"
5       href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
6       integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
7       crossorigin="anonymous">
8
9     <!-- jQuery and JS bundle w/ Popper.js -->
10    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfxdzhtPH0lsSSs5nCTpuj/zy4C+0gpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
11      crossorigin="anonymous"></script>
12
13    <script
14      src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.bundle.min.js"
15      integrity="sha384-ho+j7jyWK8fNQe+A12Hb8AhRq26LrZ/JpcUGGOn+Y7RsweNrtN/tE3MoK7ZeDyx"
16      crossorigin="anonymous"></script>
17
18    <link href="contoh.css" rel="stylesheet" type="text/css">
19
20  </head>
21
22  <body>
```

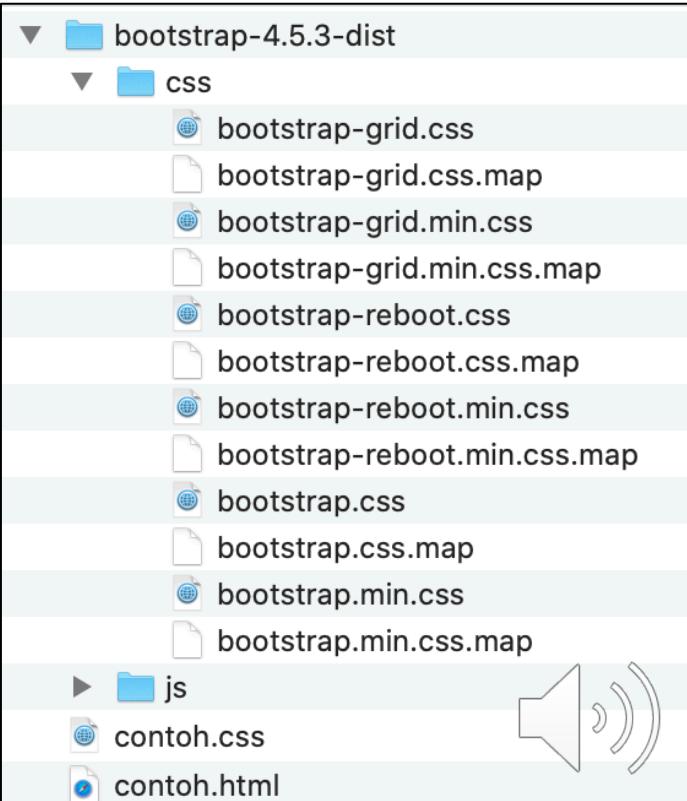


# Attach Bootstrap to Your HTML Documents

## Option #2

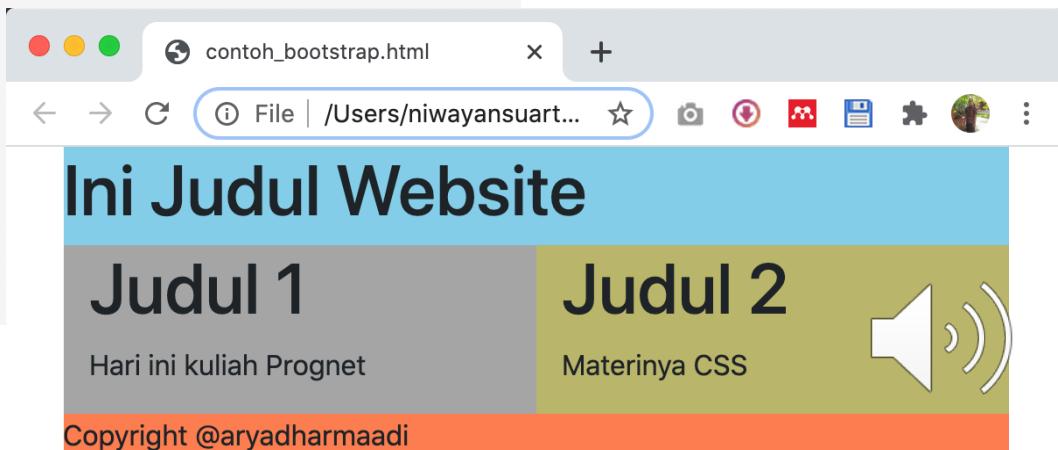
Download bootstrap resources

```
1 ▼ <html>
2 ▼   <head>
3     <link href="bootstrap-4.5.3-
dist/css/bootstrap.min.css"
rel="stylesheet" type="text/css">
4
5     <link href="contoh.css"
rel="stylesheet" type="text/css">
6   </head>
7   <body>
```



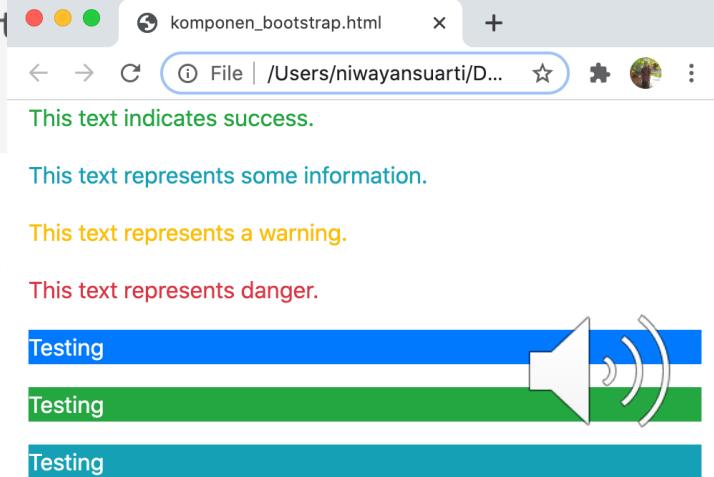
# 1. Bootstrap Layout

```
9 ▼   <body>
10 ▼     <div class="container" style="background-color: coral">
11 ▼       <div class="row" style="background-color: #87ceeb">
12         <h1>Ini Judul Website</h1>
13     </div>
14 ▼     <div class="row" style="background-color: darkcyan">
15       <div class="col" style="background-color: darkgray">
16         <h1>Judul 1</h1>
17         <p>Hari ini kuliah Prognet</p>
18     </div>
19 ▼     <div class="col" style="background-color: darkkhaki">
20       <h1>Judul 2</h1>
21       <p>Materinya CSS</p>
22     </div>
23   </div>
24   <div class="row">
25     Copyright @aryadharmaadi
26   </div>
27 </div>
28 </body>
```



## 2. Bootstrap Text Color

```
9 ▼    <body>
10 ▼      <div class="container">
11        <p class="text-success">This text indicates success.</p>
12        <p class="text-info">This text represents some information.</p>
13        <p class="text-warning">This text represents a warning.</p>
14        <p class="text-danger">This text represents danger.</p>
15        <p class="bg-primary text-white">Testing</p>
16        <p class="bg-success text-white">Testing</p>
17        <p class="bg-info text-white">Testi
18      </div>
19    </body>
```



### 3. Bootstrap Button



```
9 ▼      <body>
10 ▼        <div class="container">
11          <button type="button" class="btn">Basic</button>
12          <button type="button" class="btn btn-primary">Primary</button>
13          <button type="button" class="btn btn-secondary">Secondary</button>
14          <button type="button" class="btn btn-success">Success</button>
15          <button type="button" class="btn btn-info">Info</button>
16          <button type="button" class="btn btn-warning">Warning</button>
17          <button type="button" class="btn btn-danger">Danger</button>
18          <button type="button" class="btn btn-dark">Dark</button>
19          <button type="button" class="btn btn-light">Light</button>
20          <button type="button" class="btn btn-link">Link</button>
21        </div>
22    </body>
```

A screenshot of a web browser window showing the code and its visual output. The browser title bar reads "komponen\_bootstrap.html". The address bar shows the file path: "/Users/niwayansuarti/Documents/UNUD/\_Pemrograman%20Internet/Ganjil%202020/demonstrasi/komponen\_bootstrap.html". Below the browser window, a series of colored button components are displayed, each labeled with its corresponding Bootstrap class name: Basic (blue), Primary (dark blue), Secondary (grey), Success (green), Info (teal), Warning (yellow), Danger (red), Dark (black), Light (light grey), and Link (light blue). A speaker icon in the bottom right corner indicates that audio narration is available for this slide.

# 4. Bootstrap Form

A screenshot of a web browser window titled "komponen\_bootstrap.html". The page displays a form with the following elements:

- Email:
- Password:
- Remember me
- Submit

```
9 ▼
10 ▼
11 ▼
12 ▼
13
14
15
16
17 ▼
18
19
20
21
22 ▼
23 ▼
24
25
26
27
28
29
30
31
```

```
<body>
  <div class="container">
    <form>
      <div class="form-group">
        <label for="email">Email:</label>
        <input type="email" class="form-control" id="email" placeholder="Enter email" name="email">
      </div>

      <div class="form-group">
        <label for="pwd">Password:</label>
        <input type="password" class="form-control" id="pwd" placeholder="Enter password" name="pswd">
      </div>

      <div class="form-group form-check">
        <label class="form-check-label">
          <input class="form-check-input" type="checkbox" name="remember"> Remember me
        </label>
      </div>

      <button type="submit" class="btn btn-primary">Submit</button>
    </form>
  </div>
</body>
```



# 5. Bootstrap Nav



A screenshot of a web browser window showing a navigation bar example. The browser interface includes standard controls (red, yellow, green buttons), a tab labeled 'komponen\_bootstrap.html#', a back/forward/cancel button, a search/address bar containing the URL 'File | /Users/niwayansuarti/Documents/UNUD/\_Pemrograman%20Internet/Ganjil%202020/demonstrasi/komponen\_bootstrap.ht...', and a toolbar with various icons. Below the browser is a teal navigation bar with the text 'Logo' followed by three links: 'Link 1', 'Link 2', and 'Dropdown link ▾'. The 'Dropdown link' has a dropdown arrow indicating it has a submenu.

## Navbar With Dropdown

This example adds a dropdown menu in the navbar.



```
<nav class="navbar navbar-expand-sm bg-info navbar-dark">
    <!-- Brand -->
    <a class="navbar-brand" href="#">Logo</a>

    <!-- Links -->
    <ul class="navbar-nav">
        <li class="nav-item">
            <a class="nav-link" href="#">Link 1</a>
        </li>
        <li class="nav-item">
            <a class="nav-link" href="#">Link 2</a>
        </li>

        <!-- Dropdown -->
        <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle" href="#" id="navbardrop" data-
                toggle="dropdown">
                Dropdown link
            </a>
            <div class="dropdown-menu">
                <a class="dropdown-item" href="#">Link 1</a>
                <a class="dropdown-item" href="#">Link 2</a>
            </div>
        </li>
    </ul>
</nav>
```



# 6. Bootstrap Icon



```
<div class="container">
  <h1>My Icons <i class="fas fa-heart"></i></h1>
  <p>An icon along with some text: <i class="fas fa-thumbs-up"></i></p>
</div>

<div class="container">
  <p>Others:</p>
  <i class="fas fa-cloud"></i>
  <i class="fas fa-coffee"></i>
  <i class="fas fa-car"></i>
  <i class="fas fa-file"></i>
  <i class="fas fa-bars"></i>
</div>
```

## My Icons ❤

An icon along with some text: 👍

Others:



# Discussion

Any Question?



# REFERENCES



<https://www.w3schools.com/bootstrap4/>

<https://getbootstrap.com>

