#### **Front-End Development**



Responsive Web Framework





- Bootstrap is a framework, designed to create responsive feature-rich websites much easier. To take advantage of its features framework, we have to write codes the way Bootstrap wants.
- Bootstrap features: fluid & fixed grid system, carousels, modals, drop-down menu, pop-ups, responsive sites, mobile friendly.
- More informations: *https://getbootstrap.com*



## Insert CDN link (Works Online) http://getbootstrap.com/docs/4.1/gettingstarted/introduction/

## **Setup** #1 Online

#### **CSS**

Copy-paste the stylesheet link> into your <head> before all other stylesheets to load our CSS.

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integrity="sha"
</pre>

#### JS

Many of our components require the use of JavaScript to function. Specifically, they require jQuery, Popper.js, and our own JavaScript plugins. Place the following <script>s near the end of your pages, right before the closing </body> tag, to enable them. jQuery must come first, then Popper.js, and then our JavaScript plugins.

We use jQuery's slim build, but the full version is also supported.

copy
cscript src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO@rT7abK41JStQIAqVgRVzpbz"
cscript src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js" integrity="sha384-ZMP7rVo3mIy
cscript src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js" integrity="sha384-ChfqqxuZUCnJSK

■ jQuery & Popper.js are included!



## Insert CDN link (Works Online) http://getbootstrap.com/docs/4.1/gettingstarted/introduction/

## **Setup** #1 Online

```
<!DOCTYPE html> <html> <head>
```

```
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkF0JwJ8ERdknLPM0"
crossorigin="anonymous">
```

```
<title>Document</title>
</head>
<body>
    <h1>Halo Dunia!</h1>
```

```
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"
integrity="sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIPm49"
crossorigin="anonymous"></script>

<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"
integrity="sha384-ChfqqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy"
crossorigin="anonymous"></script>
```





Download locally (Works Offline). First, download Bootstrap then extract it. Insert its folders (css & js) to your project dir & link it to your HTML file.

## **Setup** #2 Offline

■ jQuery & Popper.js are not included yet!

```
<html>
<head>
  <link rel="stylesheet" type="text/css"</pre>
  href="css/bootstrap.min.css">
  <title>Tes Bootstrap 4</title>
</head>
<body>
  <h1>Halo Dunia!</h1>
  <script type="text/javascript"</pre>
  src="js/bootstrap.min.js"></script>
</body>
</html>
```

#### **Your 1st Bootstrap Code**

```
<html>
<head>
  <link rel="stylesheet" type="text/css"</pre>
  href="css/bootstrap.min.css">
  <title>Tes Bootstrap 4</title>
</head>
<body>
  <h1>Halo Dunia!</h1>
  <script type="text/javascript"</pre>
  src="js/bootstrap.min.js"></script>
</body>
</html>
```

← → ♂ file:///D:/zzz%20coding/bootstrap4/0\_withboot4local.html

### **Halo Dunia!**





#### **Containers**

- Containers surround the whole section of rows & columns. Rows represent a horizontal line of elements, and columns represent the horizontal space that element take up in a row.
- Fixed Container: has a fixed width, which changes at certain breakpoints & has built-in padding of 15px all the way around.
- Fluid Container: has a fluid width, which stretches to 100% of it's parent element & has built-in padding of 15px all the way around.



```
<head>
                                      Container
  <style>
    .container{
                                It's a better way to insert
      background: yellow;
                                     your elements to a
      height: 100px;
                                            container.
    .container-fluid{
      background: red;
      height: 100px;
                          Ini Fixed
  </style>
</head>
<body>
  <div class="container">Ini Fixed</div>
  <div class="container-fluid">Ini Fluid</div>
</body>
```



#### **Spacing Notation**

```
m - set margin
p - set padding
t - set margin-top or padding-top
b - set margin-bottom or padding-bottom
1 - set margin-left or padding-left
r - set margin-right or padding-right
x - set both *-left and *-right
y - set both *-top and *-bottom
blank - set a margin/padding on all 4 sides of the element
O - eliminate the margin or padding by setting it to O
1 - set the margin or padding to $spacer * .25
2 - set the margin or padding to $spacer * .5
3 - set the margin or padding to $spacer
4 - set the margin or padding to $spacer * 1.5
5 - set the margin or padding to $spacer * 3
auto - for classes that set the margin to auto
```

<div class="pt-5 mb-5">Halo</div>

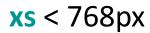


#### **Grid System**

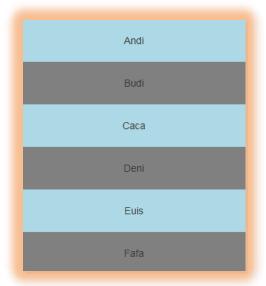
■ Bootstrap comes with a 12 columns grid system. We can add our content into its 'rows' & 'columns' using Bootstrap's CSS classes.

1 1 1	1 1 1	1 1 1 1
4	4	4
4		8
6		6
	12	

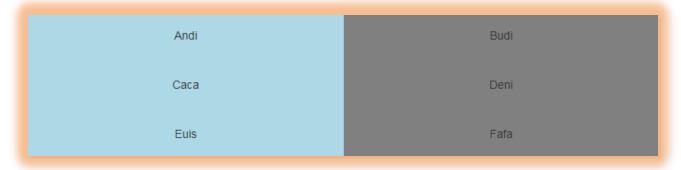




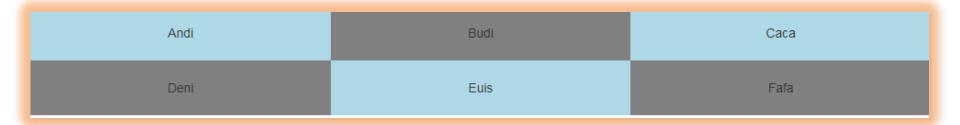
#### **Rows & Columns**



**sm** < 992px



**md** < 1200px



Andi Budi	Caca De	eni Euis	Fafa
-----------	---------	----------	------

```
<head>
<style>
   .gaya{text-align:center; background:lightblue; padding:20px}
   .gaya:nth-last-child(odd){background: grey}
   .container-fluid{height: 200px}
</style>
</head>
                                     Rows & Columns
<body>
<div class="container-fluid">
<div class="row">
<div class="col-xs-12 col-sm-6 col-md-4 col-lg-2 gaya">
Andi</div>
<div class="col-xs-12 col-sm-6 col-md-4 col-lg-2 gaya">
Budi</div>
<div class="col-xs-12 col-sm-6 col-md-4 col-lg-2 gaya">
Caca</div>
<div class="col-xs-12 col-sm-6 col-md-4 col-lg-2 gaya">
Deni</div>
<div class="col-xs-12 col-sm-6 col-md-4 col-lg-2 gaya">
Euis</div>
<div class="col-xs-12 col-sm-6 col-md-4 col-lg-2 gaya">
Fafa</div>
</div>
</div>
</body>
```

#### Heading

```
<div class="container">
 <h1>Heading 1</h1>
 <h2>Heading 2</h2>
 <h3>Heading 3</h3>
 Heading 4
 Heading 5
 Heading 6
</div>
```

# Heading 1 Heading 3 Heading 4 Heading 5

Heading 6



#### **Secondary Heading**

```
<h3>
    Purwadhika
    <small class="text-muted">
        Startup & Coding School
    </small>
</h3>
```

#### Purwadhika Startup & Coding School



#### **Display Heading**

```
<h1>Heading 1</h1>
<h1 class="display-1">
 Display 1</h1>
<h1 class="display-2">
 Display 2</h1>
<h1 class="display-3">
 Display 3</h1>
<h1 class="display-4">
 Display 4</h1>
```

Heading 1 Display 1 Display 2 Display 3 Display 4



#### **Lead Paragraph**

```
Lorem ipsum dolor amet...

Lorem ipsum dolor amet...
```

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Ad a, quo magni ipsum accusamus, fugiat amet eius unde laborum recusandae sed omnis quaerat corrupti dolor minima explicabo. Molestiae, accusamus magnam!

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Reprehenderit nihil odit doloribus earum inventore deserunt reiciendis vitae repudiandae nisi? Tempora ducimus hic, pariatur ex expedita saepe eos nam sint impedit.



#### **Text Align**

```
Teks di kiri
Teks di tengah
Teks di kanan
Lorem ipsum...
```

Teks di kiri

Teks di tengah

Teks di kanan

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Repellat saepe blanditiis amet magni eos ipsa, dolorum accusamus sit fugit modi, dicta accusantium doloremque, odit assumenda? Vitae porro recusandae ratione? Cupiditate.



#### **Text Transform**

ini lowercase

INI UPPERCASE

Ini Capitalize

ini primary

ini secondary

ini success

ini danger

ini warning

ini info

```
INI LOWERCASE
```

```
ini primary
```



#### **Table**

No.	Nama	Usia	Kota
1.	Andi	20 th	Jakarta
2.	Budi	21 th	Bandung

#### 

<b>1.</b>
<b>Andi</b>
<b>20</b> <i>th</i>
<b>Jakarta</b>

No.	Nama	Usia	Kota
1.	Andi	20 th	Jakarta
2.	Budi	21 th	Bandung



#### <thead class="thead-light">

#### **Table Head**

```
        No.
        No.
        Nama
        Usia
        Vth>
        Vth>
        Vth>
        Vth>
        Vth>
        Vth>
        Vth>

        Vth>
```

No.	Nama	Usia	Kota
1.	Andi	20 th	Jakarta
2.	Budi	21 th	Bandung

#### <thead class="thead-dark">

```
    No.
    No.
    Nama
    Usia
    Kota

    Kota

    thead>
```

No.	Nama	Usia	Kota
1.	Andi	20 th	Jakarta
2.	Budi	21 th	Bandung

```
<div class="container-fluid">
                                                Image
<div class="row">
<div class="gaya col-xs-4 col-md-4 col-xl-4 col-sm-4">
<img src="img/1.png" class="rounded img-fluid">
</div>
<div class="gaya col-xs-4 col-md-4 col-xl-4 col-sm-4">
<img src="img/2.png" class="rounded-circle img-fluid">
</div>
<div class="gaya col-xs-4 col-md-4 col-xl-4 col-sm-4">
<img src="img/3.png" class="img-thumbnail img-fluid">
</div>
```

</div></div>



#### **Alert**

```
<div class="alert alert-primary"</pre>
role="alert">
  Ini alert primary!
</div>
<div class="alert alert-info"</pre>
role="alert">
  Ini alert secondary!
</div>
<div class="alert alert-success"</pre>
role="alert">
  Ini alert success!
</div>
```

```
Ini alert primary!
```

Ini alert secondary!

Ini alert success!

Ini alert danger!

Ini alert warning!

Ini alert info!

Ini alert light!



#### **Button**

```
Primary
       Secondary
                Success
                        Danger
                               Warning
                                        Info
                                             Light
                                                   Dark
 <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 Outline**

```
Secondary
                  Success
                          Danger
                                  Warning
                                           Info
                                                 Light
                                                       Dark
Primary
 <button type="button"</pre>
 class="btn btn-outline-primary">
     Primary
 </button>
 <button type="button"</pre>
 class="btn btn-outline-secondary">
     Secondary
 </button>
 <button type="button"</pre>
 class="btn btn-outline-dark">
     Dark
 </button>
```

#### **Button Size**

Large button

Large button

Small button

Small button

```
<button type="button"</pre>
class="btn btn-primary btn-lg">
   Large button
</button>
<button type="button"</pre>
class="btn btn-secondary btn-lg">
   Large button
</button>
<button type="button"</pre>
class="btn btn-primary btn-sm">
   Small button
</button>
```



## **Group Button**

```
<< 1 2 3 4 >>
```

```
<div class="btn-group">
  <button type="button" class="btn btn-info">
  << </button>
  <button type="button" class="btn btn-info">
  1 </button>
  <button type="button" class="btn btn-info">
  2 </button>
  <button type="button" class="btn btn-info">
  3 </button>
  <button type="button" class="btn btn-info">
  >> </button>
```





#### Badge

```
Primary Secondary Success Danger Warning Info Light Dark
   <span class="badge badge-primary">
      Primary
   </span>
   <span class="badge badge-secondary">
      Secondary
   </span>
   <span class="badge badge-success">
      Success
   </span>
```

#### **Notification Badge**

Kotak Masuk 4

```
<button type="button"
class="btn btn-info">
    Kotak Masuk
    <span class="badge badge-light">
    4
    </span>
</button>
```



#### Dropdown

```
<button type="button"
class="dropdown-toggle"
data-toggle="dropdown">
    Kategori
</button>
```

## Kategori Makanan Minuman

Cemilan



#### **Split Dropdown**

</div>

```
Katalog 🔻
```

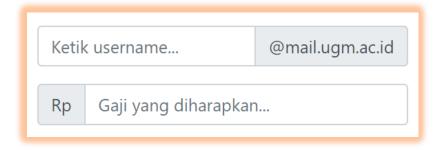
```
<div class="btn-group">
  <button type="button"</pre>
                                               Outfit Pria
  class="btn btn-primary"> Katalog
                                               Outfit Wanita
  </button>
                                               Outfit Anak
  <button type="button"</pre>
  class="btn btn-primary
  dropdown-toggle dropdown-toggle-split"
                                               Selengkapnya...
  data-toggle="dropdown">
  </button>
  <div class="dropdown-menu">
      <a class="dropdown-item"> Outfit Pria </a>
      <a class="dropdown-item"> Outfit Wanita </a>
      <a class="dropdown-item"> Outfit Anak </a>
      <div class="dropdown-divider"></div>
      <a class="dropdown-item"> Selengkapnya... </a>
  </div>
```

#### **Forms**

```
<form>
  <div class="form-group">
    <input type="email"</pre>
                                          Ketik email...
    class="form-control"
    placeholder="Ketik email...">
                                          Ketik password...
    <input type="password"</pre>
                                         Ingat saya di browser
    class="form-control"
    placeholder="Ketik sandi...">
                                          Daftar
  </div>
  <div class="form-group form-check">
    <input type="checkbox" class="form-check-input">
    <label class="form-check-label">
      Ingat saya di browser</label>
  </div>
  <button type="submit" class="btn btn-primary">
    Daftar</button>
</form>
```



#### **Input Group**



```
<div class="input-group mb-3">
  <input type="text" class="form-control"</pre>
  placeholder="Ketik username...">
  <div class="input-group-append">
    <span class="input-group-text">
   @mail.ugm.ac.id</span>
  </div>
</div>
<div class="input-group mb-3">
  <div class="input-group-prepend">
    <span class="input-group-text">Rp</span>
  </div>
  <input type="text" class="form-control"</pre>
  placeholder="Gaji yang diharapkan...">
</div>
```



#### **Tooltip**

#### **Hover Sini!**

ini tooltip!

```
type="button"
class="btn btn-primary"
data-toggle="tooltip"
data-placement="bottom"
title="ini tooltip!">
```

Hover Sini!

</button>



#### Hover sini!

#### ini tooltip, kak!

#### **Tooltip**

#### Insert a jQuery function:

```
<script>
    $(function() {
        $('[data-toggle="tooltip"]').tooltip()
    })
</script>
<body>
```



#### **Jumbotron**

#### Hello Netizens!

Welcome to the internet world! Feel the awesomeness!

```
<div class="jumbotron">
     <div class="container">
          <h1 class="display-4">
          Hello Netizens!</h1>

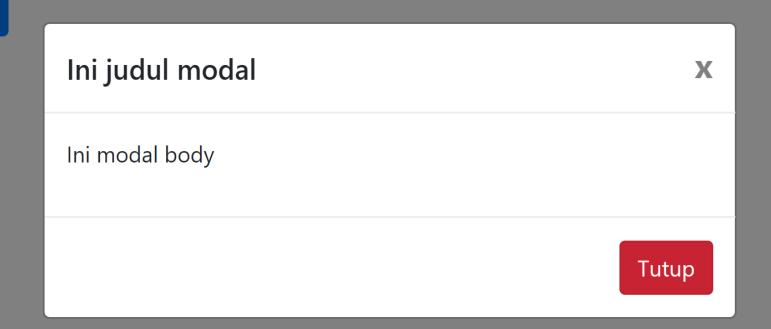
          Welcome to the internet world!

          </div>
</div>
```



#### Modal

Buka modal





## Modal

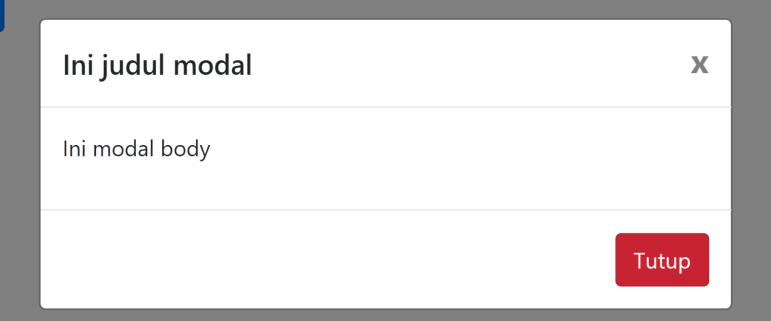
```
<button type="button" class="btn btn-primary"</pre>
data-toggle="modal" data-target="#lin">
 Buka modal.
</button>
<div class="modal fade" id="lin" tabindex="-1" role="dialog">
 <div class="modal-dialog" role="document">
  <div class="modal-content">
   <div class="modal-header">
    <h5 class="modal-title">Ini judul modal</h5>
    <button type="button" class="close" data-dismiss="modal">
     <span>x</span>
    </button>
   </div>
   <div class="modal-body">
    Ini modal body
   </div>
   <div class="modal-footer">
    <button type="button" class="btn btn-danger"</pre>
    data-dismiss="modal">
     Tutup</button>
   </div>
  </div>
 </div>
</div>
```

Modal

## **Insert a jQuery function:**

```
<script>
  $('#myModal').on('shown.bs.modal', function(){
    $('#myInput').trigger('focus')
  })
</script>
```

Buka modal



## **Basic Card**

```
<div class="card"</pre>
style="max-width: 300px;">
 <div class="card-header</pre>
  text-white bg-primary">
  Sekilas Info</div>
 <div class="card-body">
   <h5 class="card-title">
   Hari Ini Rupiah Menguat</h5>
   Lorem ipsum
 </div>
</div>
```

#### Sekilas Info

### Hari Ini Rupiah Menguat

Lorem ipsum dolor sit amet consectetur adipisicing elit. Debitis, tenetur recusandae ipsum consequatur ullam quo iusto.



```
<div class="card"</pre>
style="width: 300px;">
 <img class="card-img-top"</pre>
  src="img/1.png">
 <div class="card-body">
   <h5 class="card-title">
     Capt. Indonesia</h5>
   lorem ipsum
   <a class="btn btn-info">
     Klik sini!</a>
 </div>
</div>
```

## **Panel Card**



### Captain Indonesia

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Voluptatem iusto molestiae maxime earum nemo et, aliquid, neque optio velit ipsum.

Klik sini!



# **Navigation**

```
class="nav">
 <a class="nav-link active" href="#">
  Beranda
  </a>
 <a class="nav-link" href="#">
  Galeri
  </a>
 <a class="nav-link" href="#">
  Tentang
  </a>
```



```
Nav-Tabs
```

```
<a class="nav-link active" href="#">
  Beranda
  </a>
 <a class="nav-link" href="#">
  Galeri
  </a>
 <a class="nav-link" href="#">
  Tentang
  </a>
 Beranda
                Blog
                    Galeri
                        Tentang
```

```
Nav-Pills
```

```
<a class="nav-link active" href="#">
  Beranda
  </a>
 <a class="nav-link" href="#">
  Galeri
  </a>
 <a class="nav-link" href="#">
  Tentang
  </a>
 Beranda
Galeri
               Blog
                        Tentang
```

## **Nav-Tabs & Nav-Pills**

## Insert a jQuery function:

```
<script>
$(".nav-link").click(function(){
   $(".nav-link").removeClass("active");
   $(this).addClass("active");
});
</script>
```



## Carousel

```
<div class="carousel" data-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      <img class="d-block w-100"</pre>
      src="imq/1.pnq">
    </div>
    <div class="carousel-item">
      <img class="d-block w-100"</pre>
      src="img/2.png">
    </div>
    <div class="carousel-item">
      <img class="d-block w-100"</pre>
      src="img/3.png">
    </div>
  </div>
</div>
```





## **Carousel Slide**

```
<div class="carousel slide" data-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      <img class="d-block w-100"</pre>
      src="imq/1.pnq">
    </div>
    <div class="carousel-item">
      <img class="d-block w-100"</pre>
      src="img/2.png">
    </div>
    <div class="carousel-item">
      <img class="d-block w-100"</pre>
      src="img/3.png">
    </div>
  </div>
</div>
```







## **Carousel Fade**

```
<div class="carousel slide carousel-fade"</pre>
data-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      <img class="d-block w-100"</pre>
      src="imq/1.pnq">
    </div>
    <div class="carousel-item">
      <img class="d-block w-100"</pre>
      src="imq/2.pnq">
    </div>
    <div class="carousel-item">
      <img class="d-block w-100"</pre>
      src="img/3.png">
    </div>
  </div>
</div>
```



fade transition



## **Carousel Control** #1

```
<div id="lintang" class="carousel slide"</pre>
data-ride="carousel">
  <div class="carousel-inner">
    <div class="carousel-item active">
      <img class="d-block w-100"</pre>
      src="img/1.png">
    </div>
    <div class="carousel-item">
      <img class="d-block w-100"</pre>
      src="img/2.png">
    </div>
    <div class="carousel-item">
      <img class="d-block w-100"</pre>
      src="img/3.png">
    </div>
  </div>
```





## **Carousel Control** #2

• • • • •

```
<a class="carousel-control-prev"</pre>
href="#lintang" role="button"
data-slide="prev">
  < span
  class="carousel-control-prev-icon">
  </span>
</a>
<a class="carousel-control-next"</pre>
href="#lintang" role="button"
data-slide="next">
  < span
  class="carousel-control-next-icon">
  </span>
</a>
</div>
```





## **Carousel Indicator**

```
<div id="lintang" class="carousel slide"</pre>
data-ride="carousel">
data-target="#lintang" data-slide-to="0"
 class="active">
 data-slide-to="1">
 data-slide-to="2">
<div class="carousel-inner">
```





### **Front-End Development**



Responsive Web Framework

