

Front-End Development



Materialize

Responsive Web Framework based on Material Design



Materialize

- Materialize is a modern responsive web framework based on Google's Material Design, created by 4 students of Carnegie Mellon University, Australia, started in 2014.
- Material Design is a design language that combines the classic principles of successful design along with innovation and technology.
- More information visit: materializecss.com



Insert CDN link (*Works Online*)
<https://materializecss.com/getting-started.html>

Setup
#1 Online

Insert this CSS link to <head> tag:

```
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/materialize
/1.0.0-rc.2/css/materialize.min.css">
```

Insert this JS link to the lower part of <body> tag:

```
<script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize
/1.0.0-rc.2/js/materialize.min.js"></script>
```



Download locally (*Works Offline*).

*First, download Materialize then extract it. Insert its folders (**css** & **js**) to your project dir & link it to your HTML file.*

Setup #2 Offline

Insert this CSS link to <head> tag:

```
<link rel="stylesheet" type="text/css"
href="css/materialize.min.css">
```

Insert this JS link to the lower part of <body> tag:

```
<script type="text/javascript"
src="js/materialize.min.js"></script>
```

Your 1st Materialize Code

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



Container

```
<div class="container">  
  <h1>Halo Dunia!</h1>  
</div>
```



Colors

```
<h1 class="yellow lighten-5">  
  Halo Dunia!  
</h1>  
<h1 class="red darken-5">Halo Dunia!</h1>  
<h1 class="green-text">Halo Dunia!</h1>  
<h1 class="blue-text text-darken-5">  
  Halo Dunia!  
</h1>
```

Halo Dunia!

Halo Dunia!

Halo Dunia!

Halo Dunia!

Alignment

```
<h1 class="left-align">HaLo Dunia!</h1>  
<h1 class="center-align">HaLo Dunia!</h1>  
<h1 class="right-align">HaLo Dunia!</h1>  
  
<div class="valign-wrapper pink lighten-2"  
  style="height:200px">  
  <h1>HaLo Dunia!</h1>  
</div>
```

Halo Dunia!

Halo Dunia!

Halo Dunia!

Halo Dunia!

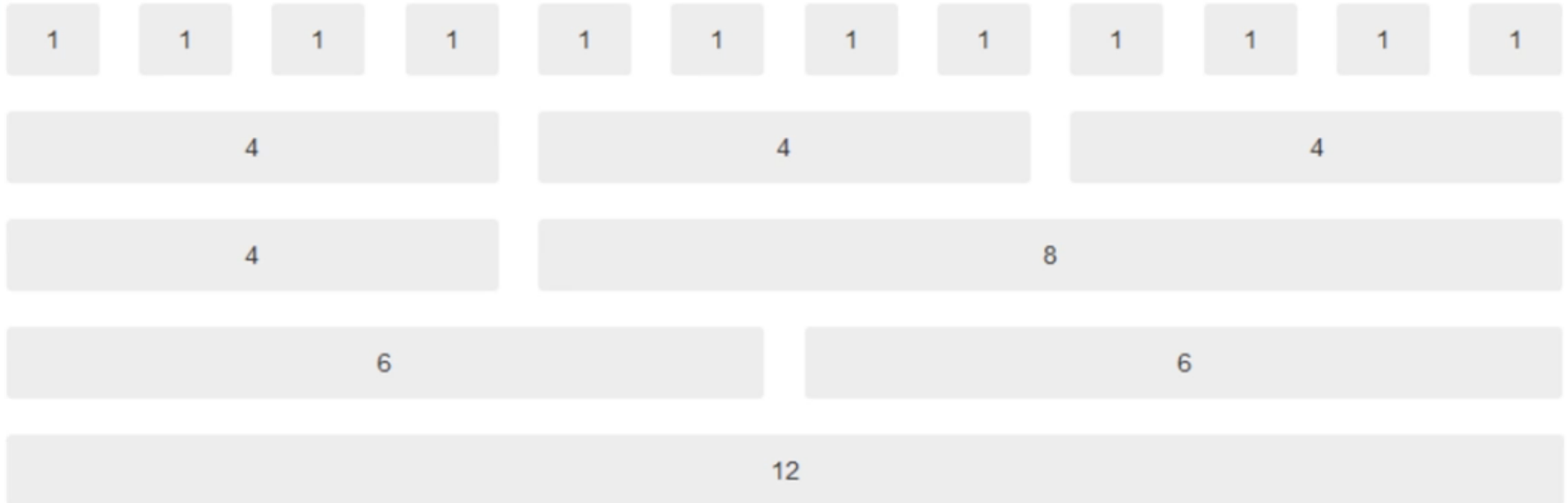
Add one of these classes to set visibility of your elements:

hide-on-small-only
hide-on-small-and-down
hide-on-med-and-down
hide-on-med-and-up
hide-on-med-only
hide-on-large-only
show-on-large
show-on-medium
show-on-small
show-on-medium-and-up
show-on-medium-and-down

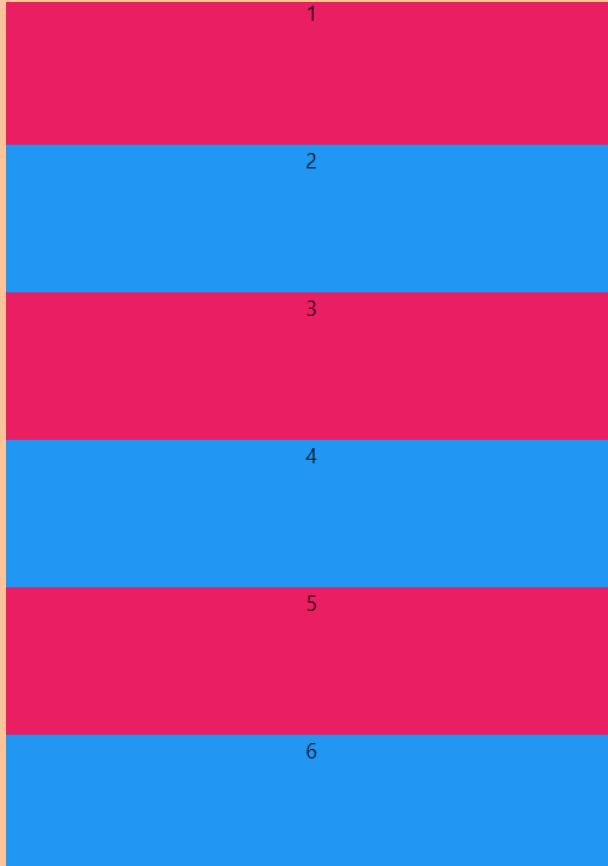


Grid System

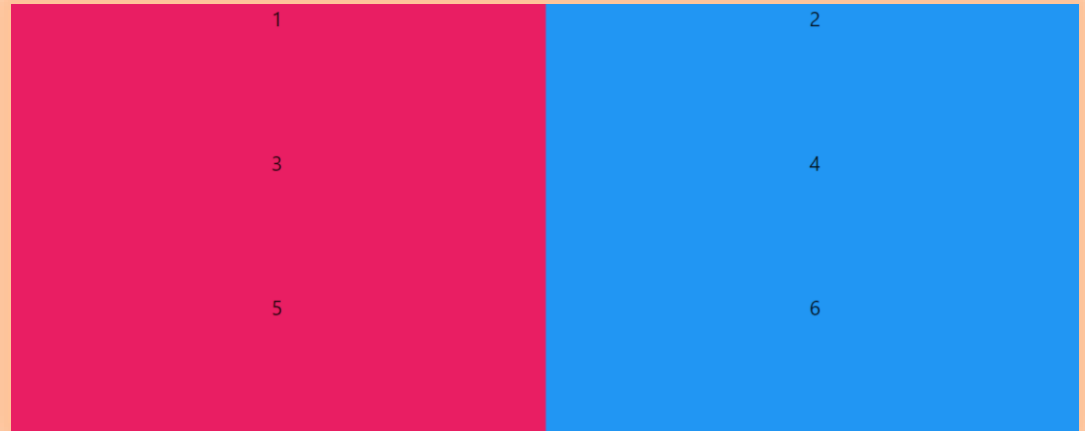
- Materialize comes with a 12 columns grid system. We can add our content into its 'rows' & 'columns' using Materialize's CSS classes.



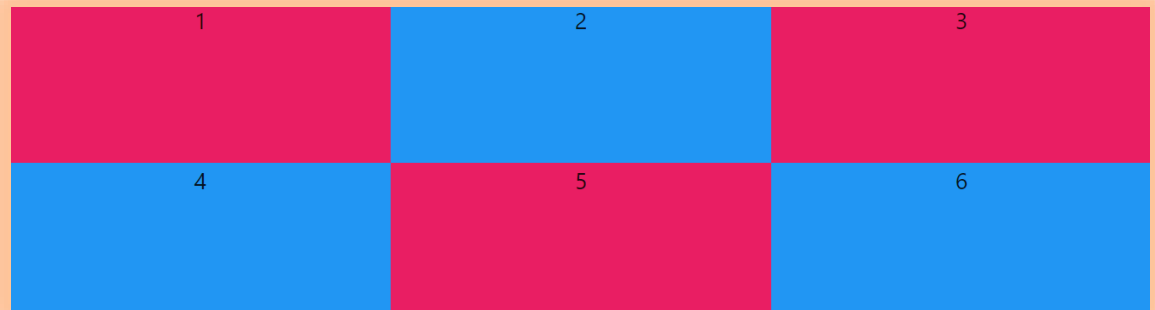
s < 600px



m > 600px



l > 992px



xl >= 1200px



Grid

```
<head>
  <style>
    .tengah{
      text-align: center; height: 100px;
    }
  </style>
</head>

<body>
  <div class="container">
    <div class="row">
      <div class="col s12 m6 l4 x12 pink tengah">1</div>
      <div class="col s12 m6 l4 x12 blue tengah">2</div>
      <div class="col s12 m6 l4 x12 pink tengah">3</div>
      <div class="col s12 m6 l4 x12 blue tengah">4</div>
      <div class="col s12 m6 l4 x12 pink tengah">5</div>
      <div class="col s12 m6 l4 x12 blue tengah">6</div>
    </div>
  </div>
</body>
```

Table

```
<table class="striped">
  <thead>
    <tr>
      <th>No.</th><th>Nama</th><th>Usia</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>1.</td><td>Andi</td><td>20</td>
    </tr>
  </tbody>
</table>
```

class: striped, highlight,
centered, responsive-table

No.	Nama	Usia
1.	Andi	20
2.	Budi	21

Image

```
<div class="container">  
    
    
</div>
```



Shadow

```
<div class="container">  
    
    
</div>
```



Insert line below into <head> tag:

```
<link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
```

List of icons: <https://material.io/tools/icons>



language



launch



line_style



line_weight



list



lock



lock_open



loyalty



markunread_ma...



maximize



minimize



motorcycle



note_add



offline_bolt



offline_pin



opacity



open_in_brows...



open_in_new



open_with



pageview



pan_tool



payment



perm_camera_m...



perm_contact_...



perm_data_set...



perm_device_i...



perm_identity



perm_media



perm_phone_ms...



perm_scan_wif...



pets



picture_in_pi...



picture_in_pi...



play_for_work



polymer



power_setting...

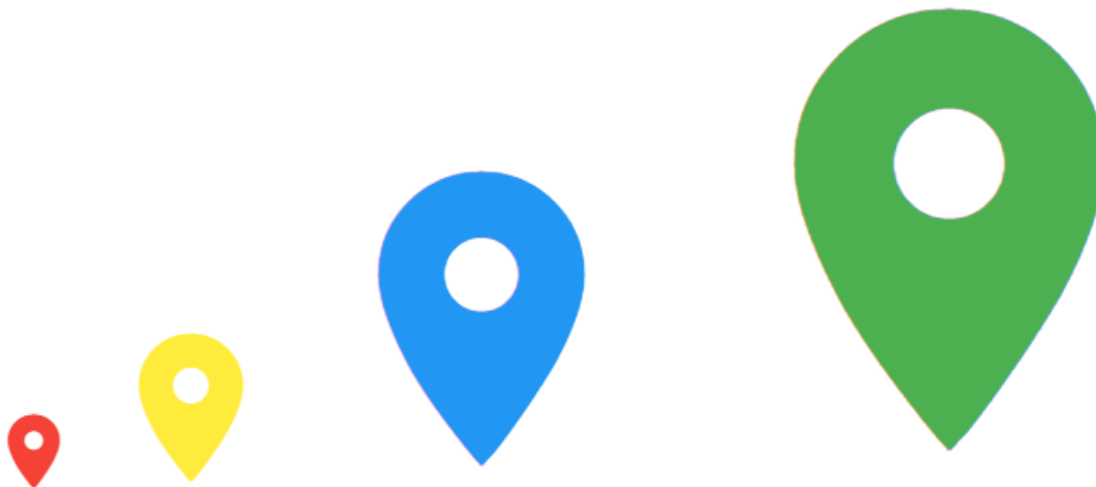
Icon

```
<i class="material-icons tiny red-text">  
room</i>
```

```
<i class="material-icons small yellow-text">  
room</i>
```

```
<i class="material-icons medium blue-text">  
room</i>
```

```
<i class="material-icons large green-text">  
room</i>
```



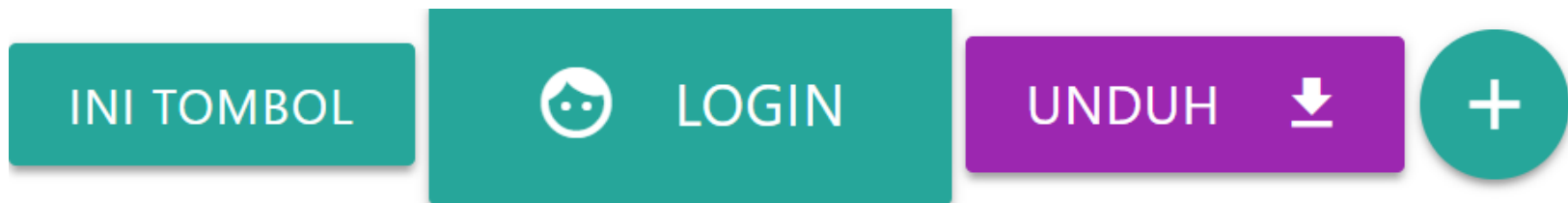
Button

```
<a class="waves-effect waves-light btn btn-small">  
ini tombol</a>
```

```
<a class="waves-effect waves-light btn btn-large">  
<i class="material-icons left">face</i>Login</a>
```

```
<a class="waves-effect waves-light btn purple">  
<i class="material-icons right">get_app</i>unduh</a>
```

```
<a class="waves-effect waves-light btn-floating">  
<i class="material-icons">add</i></a>
```



```
<div class="fixed-action-btn">
  <a class="btn-floating btn-large red">
    <i class="large material-icons">mode_edit</i>
  </a>

  <ul>
    <li><a class="btn-floating red">
      <i class="material-icons">insert_chart</i></a></li>
    <li><a class="btn-floating yellow">
      <i class="material-icons">format_quote</i></a></li>
    <li><a class="btn-floating green">
      <i class="material-icons">publish</i></a></li>
    <li><a class="btn-floating blue">
      <i class="material-icons">attach_file</i></a></li>
  </ul>
</div>
```



FAB

Adding jQuery

```
<script>

$(document).ready(function(){
  $('.fixed-action-btn').floatingActionButton({
    direction: 'left',
    hoverEnabled: true,
  });
});

</script>
```



Collection

```
<div class="collection">  
  <a href="#" class="collection-item">  
    Andi</a>  
  <a href="#" class="collection-item active">  
    Budi</a>  
  <a href="#" class="collection-item">  
    Caca</a>  
  <a href="#" class="collection-item">  
    Deni</a>  
</div>
```

Andi
Budi
Caca
Deni


Badge

```
<div class="collection">  
  <a href="#" class="collection-item">  
    <span class="badge">1</span>  
    Notifikasi  
  </a>  
  <a href="#" class="collection-item active">  
    <span class="new badge red">4</span>  
    Kotak Masuk  
  </a>  
</div>
```

Notifikasi	1
Kotak Masuk	4 new

Text Input

```
<form>
  <div class="input-field">
    <i class="material-icons prefix">account_circle</i>
    <input id="input1" type="text">
    <label for="input1">Nama Lengkap</label>
  </div>
  <div class="input-field">
    <i class="material-icons prefix">phone</i>
    <input id="input2" type="text">
    <label for="input2">No. telephone</label>
  </div>
</form>
```



Nama Lengkap

 Lintang Wisesa

No. telephone

 0987654321

Checkbox

```
<p>
  <label>
    <input type="checkbox" />
    <span>Membaca</span>
  </label>
</p>
```

☐ Membaca

☒ Menyanyi

☒ Sepak Bola

```
<p>
  <label>
    <input type="checkbox" checked="" />
    <span>Menyanyi</span>
  </label>
</p>
```

```
<p>
  <label>
    <input type="checkbox" class="filled-in" />
    <span>Sepak Bola</span>
  </label>
</p>
```


Radio Button

```
<p>
  <label>
    <input name="group1" type="radio"/>
    <span>Pria</span>
  </label>
</p>
```



Pria



Wanita

```
<p>
  <label>
    <input class="with-gap" name="group1"
      type="radio"/>
    <span>Wanita</span>
  </label>
</p>
```