LEARNING

materializecss

#materialize

css

Table of Contents

About

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Chapter 1: Getting started with materializecss

Remarks

MaterializeCSS is a CSS and Javascript based front-end responsive framework, derived from Google's Material Design. It is based entirely on Google's Material Design guidelines and serves as a boilerplate in order to use material design in a better and fast way. It has some predefined plugins such as Scrollspy, Scrollfire, lightbox, parallax and much more.

Versions

Version	Release Date
0.93.0	2014-12-19
0.94.0	2015-12-30
0.95.0	2015-01-17
0.96.0	2015-04-01
0.97.0	2015-07-02
0.97.7	2016-07-23
0.97.8	2016-10-30
0.98.0	2017-01-25
0.98.1	2017-03-21

Examples

Download

There are two ways to use MaterializeCSS, either you can download the files on your system or use the files from CDN (Content Delivery Network).

Download files

- Download the Materialize Package.
- Download the Materialize SASS Package.
- Install via NPM: `npm install materialize-css`
- Install via Bower: `bower install materialize`

Include From CDN

- Include minifed CSS in the **head** section:

```html
<!-- Compiled and minified CSS -->
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.97.7/css/materialize.min.css">
```

- Include Javascript file in the **Body** section, just before the closing body tag.

```html
<!-- Compiled and minified JavaScript -->
<script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.97.7/js/materialize.min.js"></script>
```

Setup

Once you've downloaded the files, extract your them into your designated directory.

You'll notice that there are two sets of the files. The `min` means that the file is "compressed" to reduce load times. These minified files are usually used in production while it is better to use the unminified files during development.

After extracting, your directory's file structure should look like:

```
MyWebsite/
|--css/
|  |--materialize.css
|
|--fonts/
|  |--roboto/
|
|--js/
|  |--materialize.js
|
|--index.html
```

Example MaterializeCSS HTML page:

```html
<!DOCTYPE html>
<html>
 <head>
  <!--Import Google Icon Font-->
  <link href="http://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
  <!--Import materialize.css-->
  <link type="text/css" rel="stylesheet" href="css/materialize.min.css"
media="screen,projection"/>

  <!--Let browser know website is optimized for mobile-->
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
 </head>
```
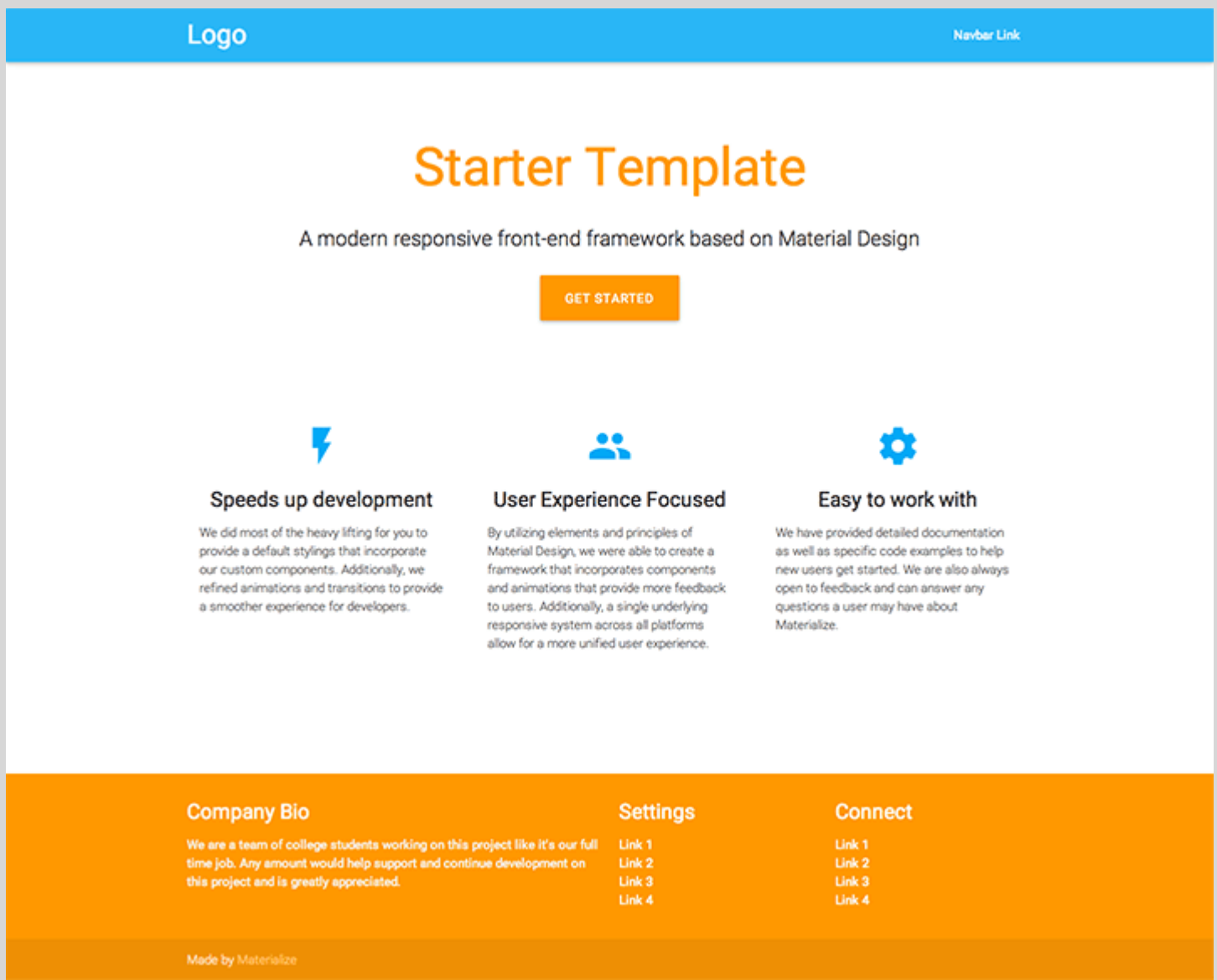
```
<body>
  <!--Import jQuery before materialize.js-->
  <script type="text/javascript" src="https://code.jquery.com/jquery-2.1.1.min.js"></script>
  <script type="text/javascript" src="js/materialize.min.js"></script>
</body>
</html>
```

Templates

These are the simplest starter pages with a Header, Call-to-Action, and Icon Features.

Starter Template

Demo or Download

Web Page Using Materializecss

Here is an example of a basic page using the Materialize CSS framework which incorporates the grid system and `materialboxed`.

```
<!DOCTYPE html>
<html>
<head>
<title>Materializecss Example webpage</title>
  <!--Import Google Icon Font-->
  <link href="http://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
  <!--Import materialize.css-->
  <link type="text/css" rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.97.7/css/materialize.min.css"
media="screen,projection"/>

  <!--Let browser know website is optimized for mobile-->
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
</head>


<body>
  <div class="container">
    <div class="row">
      <div class="col s12"><h3>MATERIALIZECSS EXAMPLE</h3><h4>A simple website just to show
how an element is used.</h4></div>
      <div class="col s12 m6 l3">
        <img class="materialboxed" width="100%" height="220"
src="https://upload.wikimedia.org/wikipedia/commons/7/76/Katun_nature_reserve.jpg">
        <h4>Katun Nature Reserve</h4>
        <p><i>Lovely Place</i></p>
      </div>
      <div class="col s12 m6 l3">
        <img class="materialboxed" width="100%" height="220"
src="https://upload.wikimedia.org/wikipedia/commons/4/4b/Computer_art_4.png">
        <h4>Art</h4>
        <p><i>Simple & Attractive</i></p>
      </div>
      <div class="col s12 m6 l3">
        <img class="materialboxed" width="100%" height="220"
src="https://c1.staticflickr.com/9/8715/16947318656_4c6cbc3091_b.jpg">
        <h4>Food</h4>
        <p><i>For any occasion</i></p>
       </div>
      <div class="col s12 m6 l3">
        <img class="materialboxed" width="100%" height="220"
src="https://c1.staticflickr.com/7/6179/6217102314_350be5e843.jpg">
        <h4>Steve Jobs</h4>
        <p><i>Inspiration</i></p>
      </div>
    <div class="col s12"><h5>Comment your suggestion</h5></div>
    </div>
  </div>
  <!--Import jQuery before materialize.js-->
  <script type="text/javascript" src="https://code.jquery.com/jquery-2.1.1.min.js"></script>
  <script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.97.7/js/materialize.min.js"></script>

<script>
$(document).ready(function(){
  $('.materialboxed').materialbox();
});
</script>
</body>
```

How can I compile my Sass

This section is only relevant if you work with the Sass version of Materialize.

First, you need to install Sass in your working directory:

```
gem install sass
```

When you have Sass installed on your project and you want to update your output .css file, you need to use the following command:

```
sass sass/materialize.scss public/style.css
```

NOTE: the second parameter sass/materialize.scss is the path to your .scss file, and the last parameter sass/style.css is the path to your output folder when the file .css file is located.

If you want to avoid this command every time when you do a change, you can run a watch command:

```
sass --watch sass/sass:public/stylesheets
```

NOTE: this command watches all Sass files in the scss directory for changes and then update the style file into our public directory.

Using MaterializeCSS with Angular

There are many ways to use MaterializeCSS framework.

Few things to keep in mind before going to installation

- It is not a CSS only framwork, though it has CSS name in it. We can use its SCSS too
- It is not built for Angular
- It is a component framework too built on jquery. Though we are not supposed to use jquery (not suggested) in angular, still we import .

You can use **any** of the following methods:

- CDN
- Assets
- Include in Angular (NPM)
- Include in Angular (source with SCSS)

Each has its own advantages and disadvantages.

CDN

Just add this to `index.html` and you are good to go .

```
<!-- Compiled and minified CSS -->
<link rel="stylesheet"
```

```
href="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.98.2/css/materialize.min.css">

 <!-- We need jquery first -->
  <script src="https://code.jquery.com/jquery-3.2.1.min.js"></script>

 <!-- Compiled and minified JavaScript -->
   <script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.98.2/js/materialize.min.js"></script>
```

Assets

Add it as an asset in your project. This helps in not depending on internet when building and running locally.

Download jQuery

Download CSS version

- Extract them

- Copy `materialize.min.css`, `jquery-3.2.1.min.js` and `materialize.min.js` in your assets folder

- add them to index.html

```
<link rel="stylesheet" href="./assets/materialize.min.css" >
<script src="./assets/jquery-3.2.1.min.js"></script>
<script src="./assets/materialize.min.js"></script>
```

Include in angular (NPM)

In this method we directly include the files to our angular build. I am assuming the angular project is built with `@angular/cli` for simplicity.

Do

```
npm install materialize-css --save
npm install jquery --save
```

This is same as downloading CSS files, but we dont need to add them in our repository.

Add the following to `.angular-cli.json`:

```
"styles": [
    "../node_modules/materialize-css/dist/css/materialize.css",
    "styles.scss"
]

...

"scripts":[
```

```
    "../node_modules/jquery/dist/jquery.js",
    "../node_modules/materialize-css/dist/js/materialize.js"
]
```

Include in angular (SCSS)

Download source with SCSS version

Do this if you want to take advantage of `scss` to change default behavior of the library. Otherwise you can still use previous method and use SCSS along side.

Add them to a folder outside `src` . May be create a folder `materialize-src` as sibling to `src` and paste the contents there. We are doing this because npm install of materialize-css doesn't give us scss version. (*Correct me if I am wrong*)

Install jquery

```
npm install jquery --save
```

Add them to your `.angular-cli.json`

```
"styles": [
    "../materialize-src/sass/materialize.scss",
    "styles.scss"
],
"scripts": [
    "../node_modules/jquery/dist/jquery.min.js",
    "../materialize-src/js/bin/materialize.min.js"
],
```

Integration with Angular:

The above all installation methods provide full functionality with materialize and **no need to further install anything to work in angular**. Take any example and just use the appropriate HTML structure inside the component part of angular and you are good to go.

In some instances you might need to tinker with javascript and for that we need to use jQuery. Instead of that we can use the angular wrapper developer at angular2-materialize. I developed a full functional site using angular and materialize and never felt a need for that.

If you still believe you need it . You can install as follows :

- Install materialize with any of the above mentioned ways

- Install angular2-materialize

  ```
  npm install angular2-materilize --save
  ```

Add in angular `app.module.ts`

```
import { MaterializeModule } from "angular2-materialize";

@NgModule({
  imports: [
    //...
    MaterializeModule,
  ],
  //...
})
```

Read Getting started with materializecss online:
https://riptutorial.com/materializecss/topic/5132/getting-started-with-materializecss

Chapter 2: Cards

Introduction

Cards are a vital part of the Materialize CSS framework, they provide a semantic and beautiful approach to showing content in an understandable way.

Syntax

- A basic card
- Creating a horizontal card
- Adding a halfway floating action button
- Card reveal
- Tabs in cards
- Different card sizes
- Card Panel

Examples

Basic Card

```
<div class="container">
  <div class="row">
    <div class="col s6">
      <div class="card">

        <div class="card-image"> <!-- Card Image -->
          <img src="image.png" alt="Image">
        </div>

        <div class="card-content"> <!-- Card Content -->
          <h3>This is a card</h3>
          <p class="flow-text">Cards are really cool for conveying information in a beautiful
way.</p>
        </div>

        <div class="card-action"> <!-- Card Action -->
          <a href="#" class="btn orange">Read More</a>
        </div>

      </div>
    </div>
  </div>
</div>
```
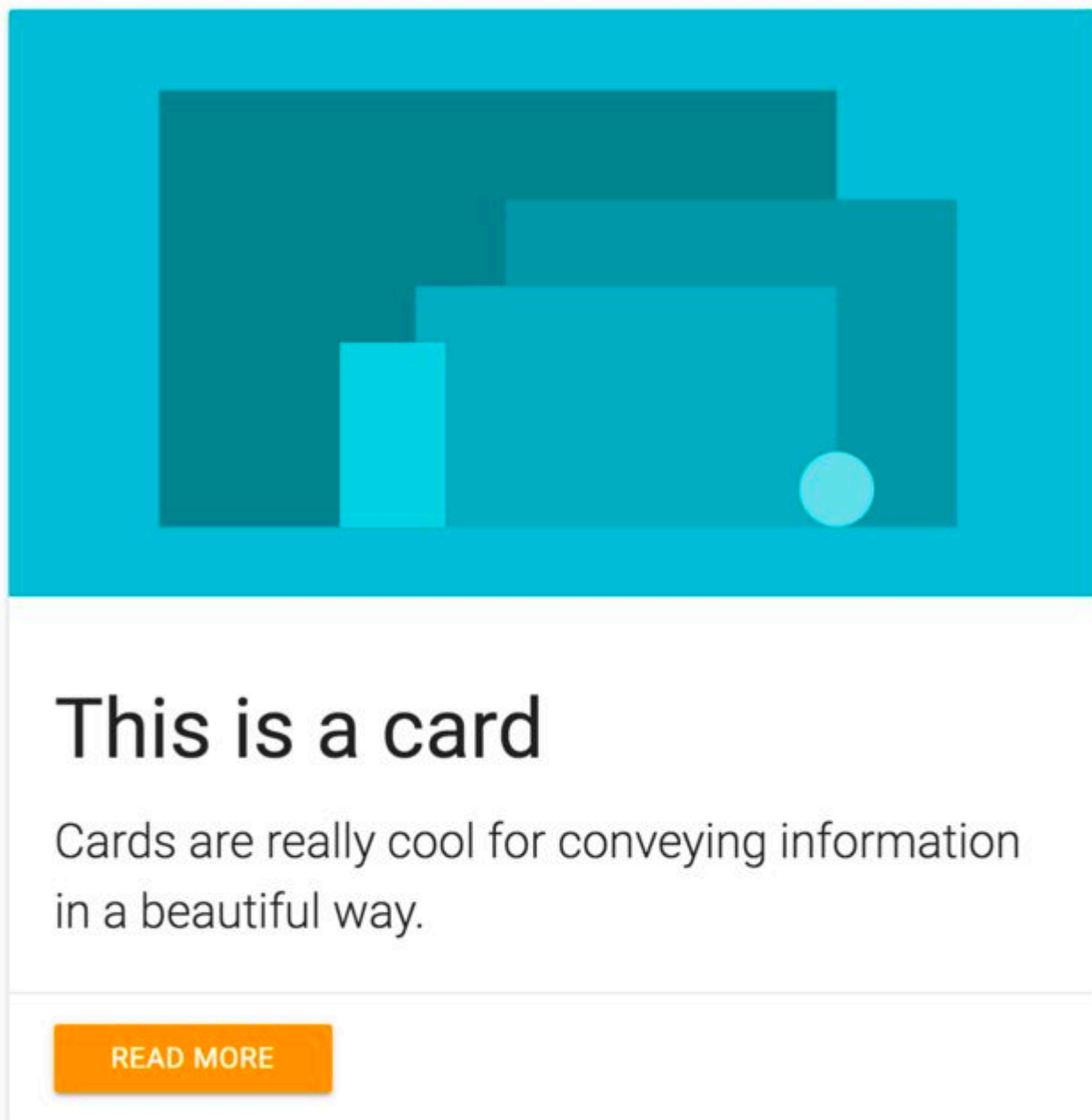
Important:

- Use `.card` as the main surrounding element.
- Surround images with `.card-image`

- Surround content with `.card-content`
- Surround action buttons with `.card-action`

Here's what it looks like:

Horizontal Card

```
<div class="container">
  <div class="row">
    <div class="col s12">
      <div class="card horizontal">
        <div class="card-image"><img src="image.png"></div>
        <div class="card-stacked">
          <div class="card-content">
            <h3>This is a card</h3>
            <p class="flow-text">Cards are really cool for conveying information in a
beautiful way.</p>
          </div>
          <div class="card-action"><a href="#" class="btn orange">Read More</a></div>
```
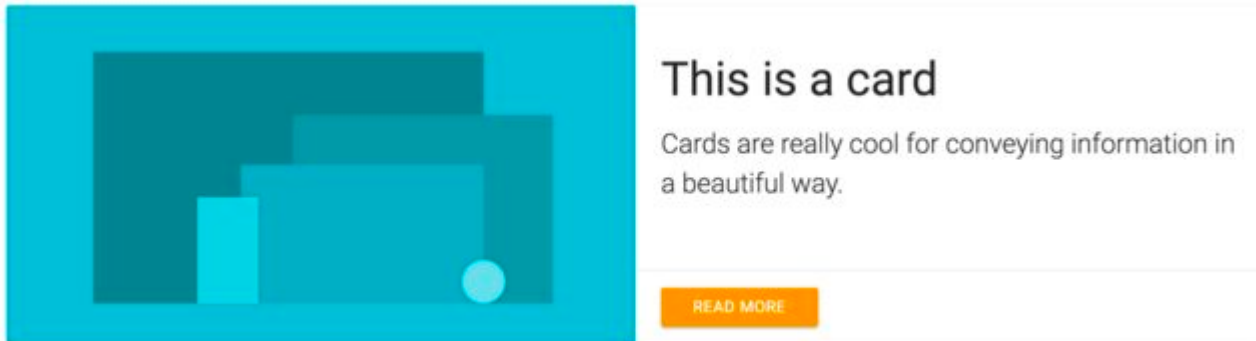
```
            </div>
          </div>
        </div>
      </div>
</div>
```

Important:

- Add `.horizontal` to the card element
- Surround `.card-content` and `.card-action` with a div with `.card-stacked`

Here's what it looks like:

Card With A Floating Action Button (FAB)

```
<div class="container">
    <div class="row">
        <div class="col s5">
            <div class="card">
                <div class="card-image">
                  <img src="image.png">
                  <a href="#" class="btn-floating halfway-fab orange btn-large"><i
class="material-icons">add</i></a>
                </div>
                <div class="card-content">
                    <h3>This is a card</h3>
                    <p class="flow-text">Cards are really cool for conveying information in a
beautiful way.</p>
                </div>
            </div>
        </div>
    </div>
</div>
```

Important:

- Put an `a.btn-floating.halfway-fab` inside of the `.card-image` container.

Here's what it looks like:

This is a card

Cards are really cool for conveying information in a beautiful way.

Read Cards online: https://riptutorial.com/materializecss/topic/9762/cards

Chapter 3: Materialize Grid System

Introduction

The Materialize CSS framework has a semantic, 12-column grid system that's incredibly easy to use. The grid helps you layout your page in an ordered, easy fashion.

Examples

A Basic Features Strip

```
<div class="container">
  <div class="row" id="features-strip">
    <div class="col s12 l4">
      <h1>Feature 1</h1>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Doloribus, unde facere
tempore vero? Id nostrum eligendi sapiente, ratione blanditiis atque dolores placeat eveniet
autem ab aut esse, doloribus nam quas.</p>
    </div>
    <div class="col s12 l4">
      <h1>Feature 2</h1>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Doloribus, unde facere
tempore vero? Id nostrum eligendi sapiente, ratione blanditiis atque dolores placeat eveniet
autem ab aut esse, doloribus nam quas.</p>
    </div>
    <div class="col s12 l4">
      <h1>Feature 3</h1>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Doloribus, unde facere
tempore vero? Id nostrum eligendi sapiente, ratione blanditiis atque dolores placeat eveniet
autem ab aut esse, doloribus nam quas.</p>
    </div>
  </div>
</div>
```

Sidebar With Grid System

```
  <link rel="stylesheet"

href="https://cdnjs.cloudflare.com/ajax/libs/materialize/0.98.2/css/materialize.min.css">

<style media="screen">
  .sidebar {
    height: 100vh;
  }
</style>

<div class="row">
  <div class="col s3 sidebar card">
    <div class="container">
      <h4>Sidebar</h4>
      <p>This is some sidebar content.</p>

      <ul>
```

```
        <li>List Item 1</li>
        <li>List Item 2</li>
        <li>List Item 3</li>
        <li>List Item 4</li>
      </ul>
    </div>
  </div>
  <div class="col s9">
    <div class="container">
      <div class="card-panel teal lighten-2 white-text">
        <h1>This is the main website</h1>
        <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud
exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in
reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint
occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est
laborum.</p>
      </div>
      <div class="divider"></div>
      <div class="card-panel">
        <h3>Some more content</h3>
        <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin ante enim,
sollicitudin non tristique ut, iaculis in eros. Donec et purus eget tellus suscipit
sollicitudin. Suspendisse erat turpis, faucibus ut blandit non, bibendum non tortor. Nullam et
neque sed felis facilisis finibus. Nulla dictum elit enim, in finibus dolor ultrices id. Proin
suscipit ipsum imperdiet dui hendrerit tempus. Donec quis aliquam velit. In viverra enim orci,
nec tristique mi mollis id. Etiam a luctus eros. Duis convallis sem arcu, quis posuere tellus
accumsan vel. Nunc augue nunc, tempor vel ornare a, congue ut nibh. Donec viverra arcu dui, eu
rutrum ipsum elementum at. Proin ac quam ac est tincidunt lobortis vitae quis risus. <br><br>
Donec id mollis erat. Proin porttitor tincidunt dui, ut luctus turpis lacinia a. Donec in
maximus ligula, sit amet elementum erat. Curabitur rhoncus eleifend euismod. In a fringilla
tellus, sed placerat felis. Pellentesque dictum risus nibh, vel sollicitudin eros facilisis
nec. Proin sed auctor est. Vestibulum iaculis, eros ac sagittis sagittis, dui magna tempor
arcu, in imperdiet libero neque ut odio.</p>
      </div>
    </div>
  </div>
</div>
```

Notice the use of `.col.s3` for the sidebar and `.col.s9` for the main content.

Here's what it looks like:

Sidebar

This is some sidebar content.

List Item 1

List Item 2

List Item 3

List Item 4

https://riptutorial.com/materializecss/topic/9761/materialize-grid-system

Credits

S. No	Chapters	Contributors
1	Getting started with materializecss	Community, DarkTakua, Hristo Eftimov, Niraj, Ori Marash, Skeptor, techydesigner, Tirth Patel
2	Cards	Ori Marash
3	Materialize Grid System	Ori Marash