



Bootstrap framework

Môn học: Web Design [*Buổi 6*]

GV: Nguyễn Mai Huy



Introduce to **Bootstrap**



mai Huy - nmaihuy@boduia.com

History

- Bootstrap was developed by **Mark Otto** and **Jacob Thornton** at Twitter, and released as an open source product in August 2011 on GitHub.
- **In June 2014 Bootstrap was the No.1 project on GitHub!**

Mark Otto



Jacob Thornton



Nguyễn Mai Huy - nmaihuy@bodua.com

What is **Bootstrap**?

- Bootstrap is a free **front-end framework** for faster and easier web development
- Bootstrap **includes HTML and CSS based** design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- Bootstrap also gives you the ability to easily create **responsive designs**

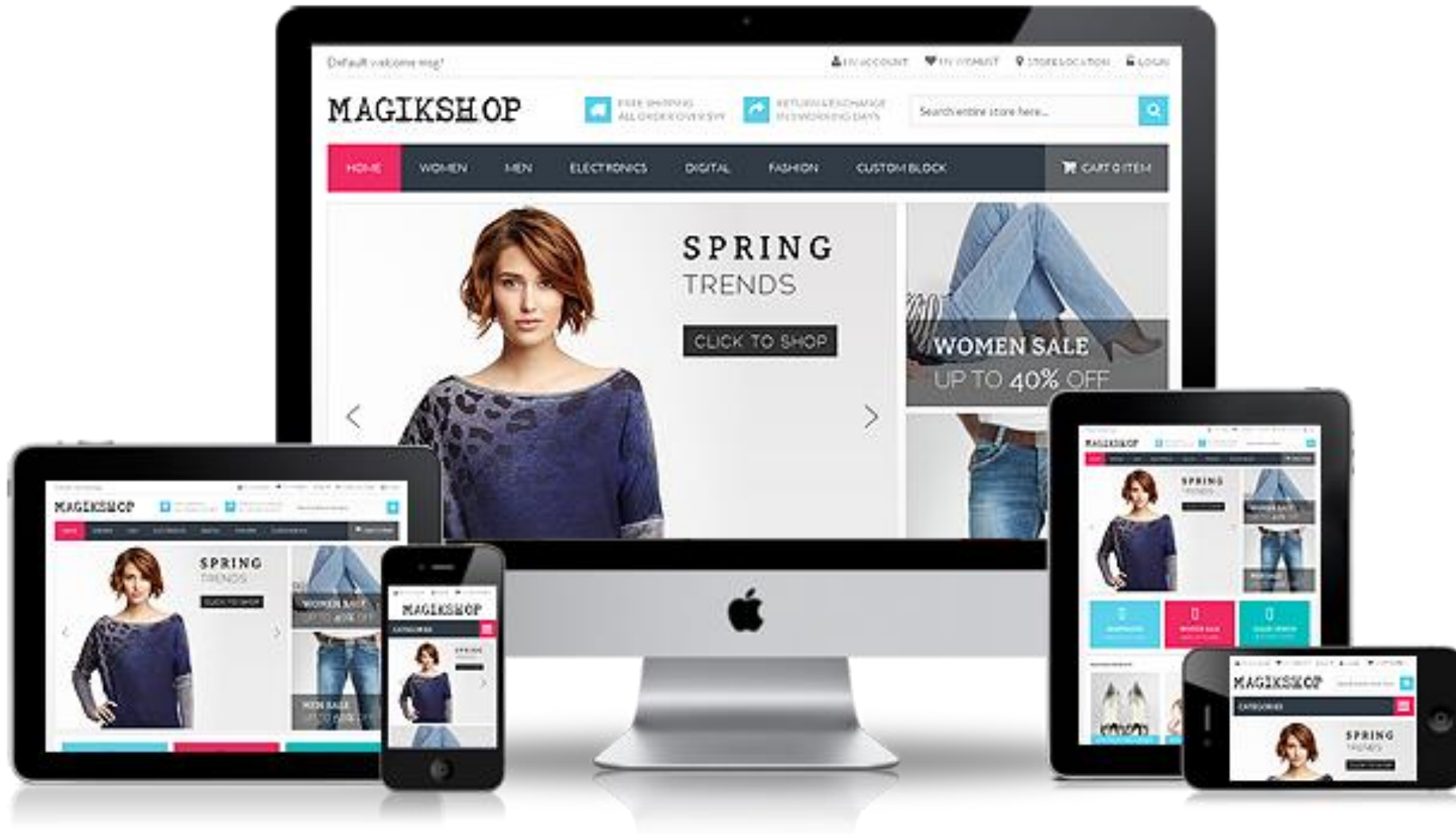
What is **Responsive** Web Design?

Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.



Nguyễn Mai Huy - nmai.huy@boduca.com

Responsive Web Design



Nguyễn Mai Huy - nmaihuy@boduca.com

Advantages of **Bootstrap**

- ✓ **Easy to use:** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- ✓ **Responsive features:** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- ✓ **Mobile-first approach:** In Bootstrap 3, mobile-first styles are part of the core framework
- ✓ **Browser compatibility:** Bootstrap is compatible with all modern browsers (*Chrome, Firefox, Internet Explorer, Edge, Safari, and Opera*)

Where to Get **Bootstrap**?

There are two ways to start using Bootstrap on your own web site.

- ❖ Download Bootstrap from **getbootstrap.com**
- ❖ Include Bootstrap from a CDN (*Content Delivery Network*)

Bootstrap **CDN**

If you don't want to download and host Bootstrap yourself, you can include it from a CDN (*Content Delivery Network*). MaxCDN provides CDN support for Bootstrap's CSS and JavaScript. You must also include jQuery:

MaxCDN:

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">

<!-- jQuery library -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>

<!-- Latest compiled JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
```

Nguyễn Mai Huy - nmai.huy@bodu.edu.vn

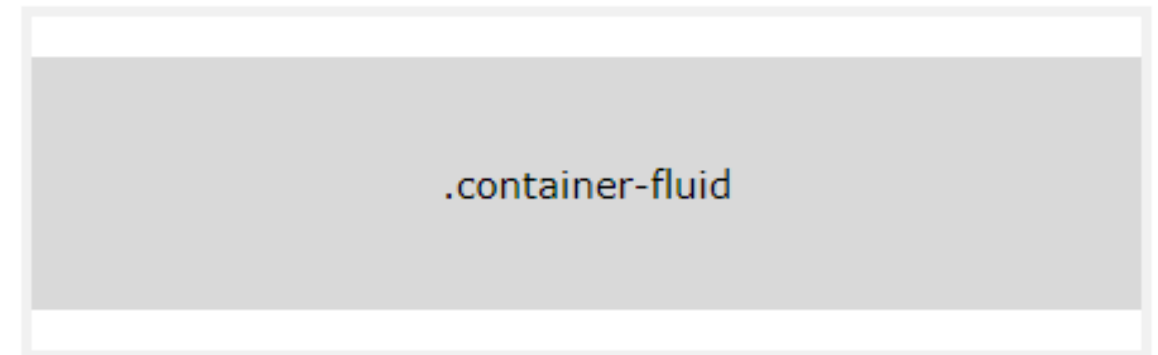
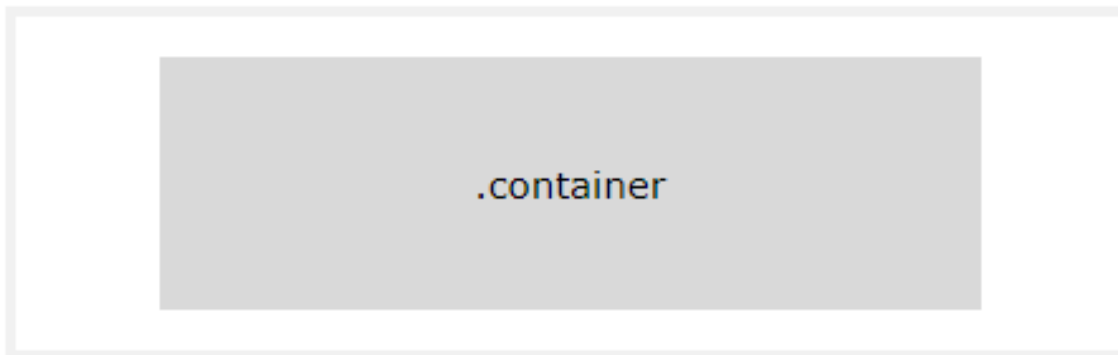
Advantage of using the **Bootstrap CDN**

- Many users already have downloaded Bootstrap from MaxCDN when visiting another site. As a result, it will be loaded from cache when they visit your site, which leads to faster loading time. Also, most CDN's will make sure that once a user requests a file from it, it will be served from the server closest to them, which also leads to faster loading time.

Create First Web Page With Bootstrap

1. Add the HTML5 doctype
2. Bootstrap is mobile-first
3. Containers

1. The `.container` class provides a responsive **fixed width container**
2. The `.container-fluid` class provides a **full width container**, spanning the entire width of the viewport



Nguyễn Mai Huy - nmaihuy@bodu.com

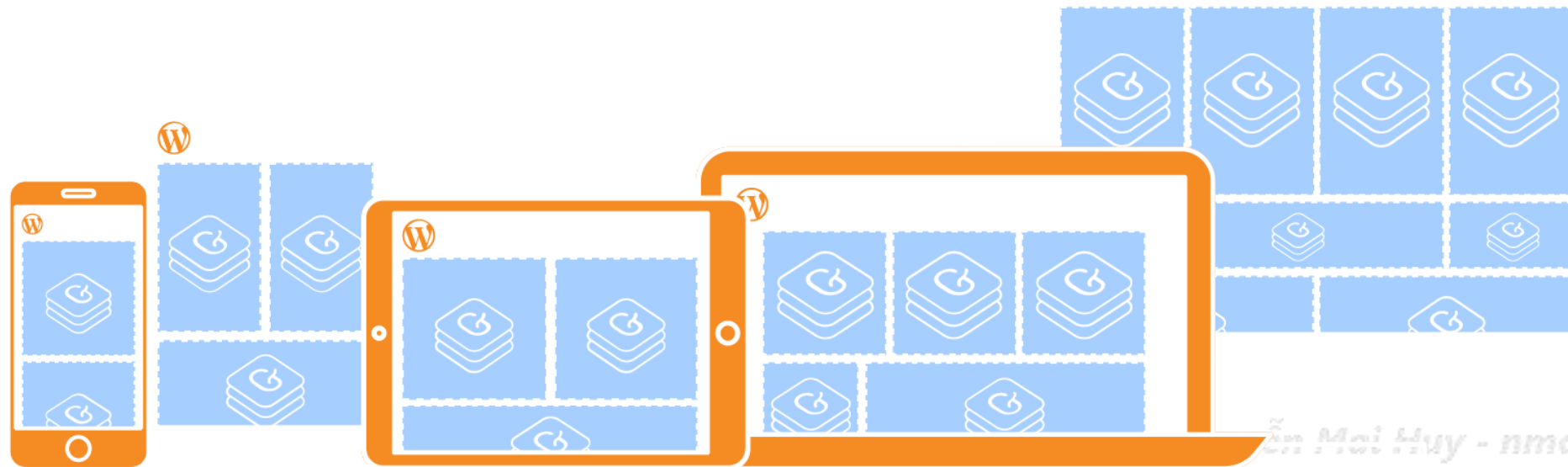
Simple page using **Bootstrap**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Bootstrap Example</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
  </head>
  <body>
    <div class="container">
      <h1>My First Bootstrap Page</h1>
      <p>This is some text.</p>
    </div>
  </body>
</html>
```

https://www.w3schools.com/bootstrap/bootstrap_get_started.asp

Nguyễn Mai Huy - nmaihuy@boduac.com

Bootstrap Grids



Trần Mai Huy - nmai.huy@bodu.edu.vn

Bootstrap Grid System

Bootstrap's grid system allows up to 12 columns across the page. If you do not want to use all 12 columns individually, you can group the columns together to create wider columns

Bootstrap's grid system is responsive, and the columns will re-arrange automatically depending on the screen size.

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

Grid Classes

The Bootstrap grid system has four classes:

- ❖ **xs** (*for phones - screens less than 768px wide*)
- ❖ **sm** (*for tablets - screens equal to or greater than 768px wide*)
- ❖ **md** (*for small laptops - screens equal to or greater than 992px wide*)
- ❖ **lg** (*for laptops and desktops - screens equal to or greater than 1200px wide*)

The classes above can be combined to create more dynamic and flexible layouts.

Basic Structure of a Bootstrap Grid

```
<div class="row">
  <div class="col-*-*"></div>
  <div class="col-*-*"></div>
</div>
<div class="row">
  <div class="col-*-*"></div>
  <div class="col-*-*"></div>
  <div class="col-*-*"></div>
</div>
<div class="row">
  ...
</div>
```

First; create a row (**<div class="row">**). Then, add the desired number of columns (*tags with appropriate **.col-*-*** classes*). Note that numbers in **.col-*-*** should always add up to 12 for each row

Three Equal Columns

The following example shows how to get a three equal-width columns starting at tablets and scaling to large desktops. On mobile phones or screens that are less than 768px wide, the columns will automatically stack:

```
<div class="row">  
  <div class="col-sm-4">.col-sm-4</div>  
  <div class="col-sm-4">.col-sm-4</div>  
  <div class="col-sm-4">.col-sm-4</div>  
</div>
```

.col-sm-4

.col-sm-4

.col-sm-4

Two Unequal Columns

The following example shows how to get two various-width columns starting at tablets and scaling to large desktops:

```
<div class="row">  
  <div class="col-sm-4">.col-sm-4</div>  
  <div class="col-sm-8">.col-sm-8</div>  
</div>
```

.col-sm-4

.col-sm-8

Bootstrap Glyphicons



290+ Glyphicons and Social Icons

Readable includes 290+ resizable icons from Glyphicons and Social icons.

Nguyễn Mai Huy - nmaihuy@bodu.com

Bootstrap provides 260 glyphs from the [Glyphicons](#) Halflings set. Glyphicons can be used in text, buttons, toolbars, navigation, forms, etc.

Here are some examples of glyphs:

Envelope glyph: 

Print glyph: 

Search glyph: 

Download glyph: 

Glyphicons



How to use Glyphicons

Glyphicon Examples

Envelope icon: ✉

Envelope icon as a link: ✉

Search icon: 🔍

Search icon on a button: 🔍 Search

Search icon on a styled button: 🔍 Search

Print icon: 🖨

Print icon on a styled link button: 🖨 Print

</p>

Nguyễn Mai Huy - nmai.huy@bodu.com

HTML Elements in Bootstrap



Nguyễn Mai Huy - nmaihuy@boduca.com

Bootstrap **Text/Typography**

■ Bootstrap's Default Settings

- Bootstrap's global **default font-size** is **14px**, with a **line-height** of **1.428**.
- This is applied to the `<body>` element and all paragraphs (`<p>`).
- In addition, all `<p>` elements have a bottom margin that equals half their computed line-height (*10px by default*).

■ Bootstrap will style the HTML headings (`<h1>` to `<h6>`) in the following way:

h1 Bootstrap heading (36px)

h2 Bootstrap heading (30px)

h3 Bootstrap heading (24px)

h4 Bootstrap heading (18px)

h5 Bootstrap heading (14px)

h6 Bootstrap heading (12px)

https://www.w3schools.com/bootstrap/bootstrap_typography.asp

Nguyen Mai Huy - nmaihuy@bodu.com

Bootstrap **Typography** Classes

Class	Description
<code>.text-capitalize</code>	Indicates capitalized text
<code>.initialism</code>	Displays the text inside an <code><abbr></code> element in a slightly smaller font size
<code>.list-unstyled</code>	Removes the default list-style and left margin on list items (works on both <code></code> and <code></code>). This class only applies to immediate children list items (to remove the default list-style from any nested lists, apply this class to any nested lists as well)
<code>.list-inline</code>	Places all list items on a single line
<code>.dl-horizontal</code>	Lines up the terms (<code><dt></code>) and descriptions (<code><dd></code>) in <code><dl></code> elements side-by-side. Starts off like default <code><dl></code> s, but when the browser window expands, it will line up side-by-side
<code>.pre-scrollable</code>	Makes a <code><pre></code> element scrollable

Bootstrap **Images**

■ Class for image shapes

Rounded Corners:



.img-rounded

Circle:



.img-circle

Thumbnail:



.img-thumbnail

Example

```

```

Nguyễn Mai Huy - nmai.huy@bodu.edu.vn

Bootstrap **List Groups**

The most basic list group is an unordered list with list items:

First item
Second item
Third item

To create a basic list group, use an **** element with class **.list-group**, and **** elements with class **.list-group-item**:

```
<ul class="list-group">
  <li class="list-group-item">First item</li>
  <li class="list-group-item">Second item</li>
  <li class="list-group-item">Third item</li>
</ul>
```

https://www.w3schools.com/bootstrap/bootstrap_list_groups.asp

Nguyễn Mai Huy - nmaihuy@boduac.com

Bootstrap **Dropdowns**

- A dropdown menu is a toggleable menu that allows the user to choose one value from a predefined list:
- The **.dropdown** class indicates a dropdown menu. To open the dropdown menu, use a button or a link with a class of **.dropdown-toggle** and the **data-toggle="dropdown"** attribute. The **.caret** class creates a caret arrow icon (⌵), which indicates that the button is a dropdown. Add the **.dropdown-menu** class to a **** element to actually build the dropdown menu.

https://www.w3schools.com/bootstrap/bootstrap_dropdowns.asp



Nguyễn Mai Huy - nmaihuy@boduac.com

Bootstrap **Dropdowns** example

```
<div class="dropdown">
  <button class="btn btn-primary dropdown-toggle" type="button" data-toggle="dropdown">
    Dropdown Example <span class="caret"></span></button>
  <ul class="dropdown-menu">
    <li><a href="#">HTML</a></li>
    <li><a href="#">CSS</a></li>
    <li><a href="#">JavaScript</a></li>
    <li class="divider"></li>
    <li><a href="#">About Us</a></li>
  </ul>
</div>
```

Dropdown Example ▾

HTML

CSS

JavaScript

About Us

Nguyễn Mai Huy - nmaihuy@bodua.com

Bootstrap **Tables**

A basic Bootstrap table has a light padding and only horizontal dividers.
The **.table** class adds basic styling to a table:

Example

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com

.table-striped **.table-bordered** **.table-hover**

https://www.w3schools.com/bootstrap/bootstrap_tables.asp

Nguyễn Mai Huy - nmai.huy@bodu.com

Bootstrap **Tables**

Contextual classes can be used to color table rows (`<tr>`) or table cells (`<td>`):

Class	Description
<code>.active</code>	Applies the hover color to the table row or table cell
<code>.success</code>	Indicates a successful or positive action
<code>.info</code>	Indicates a neutral informative change or action
<code>.warning</code>	Indicates a warning that might need attention
<code>.danger</code>	Indicates a dangerous or potentially negative action

https://www.w3schools.com/bootstrap/bootstrap_tables.asp

Nguyễn Mai Huy - nmai.huy@bodu.edu.vn

Bootstrap **Responsive Tables**

The **.table-responsive** class creates a responsive table. The table will then scroll horizontally on small devices (*under 768px*). When viewing on anything larger than 768px wide, there is no difference:

Example

```
<div class="table-responsive">
  <table class="table">
    ...
  </table>
</div>
```

https://www.w3schools.com/bootstrap/bootstrap_tables.asp

Nguyễn Mai Huy - nmaihuy@boduia.com

Bootstrap **Forms**

Form controls automatically receive some global styling with Bootstrap:

All textual **<input>**, **<textarea>**, and **<select>** elements with class **.form-control** have a width of 100%.

Bootstrap provides three types of form layouts:

- ✓ Vertical form (*this is default*)
- ✓ Horizontal form
- ✓ Inline form

Standard rules for all three form layouts:

- ✓ Wrap labels and form controls in **<div class="form-group">**
(*needed for optimum spacing*)
- ✓ Add class **.form-control** to all textual **<input>**, **<textarea>**, and **<select>** elements

https://www.w3schools.com/bootstrap/bootstrap_forms.asp

Nguyễn Mai Huy - nmaihuy@boduca.com

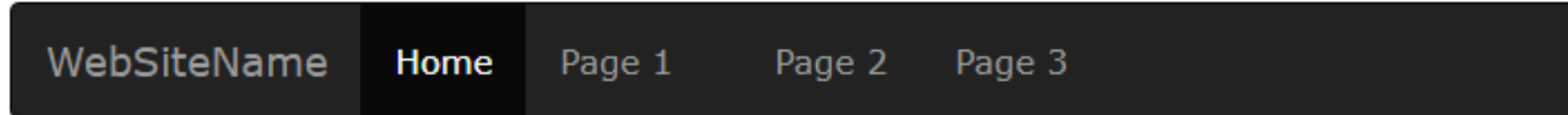
Bootstrap **Forms**

```
<form action="/action_page.php">
  <div class="form-group">
    <label for="email">Email address:</label>
    <input type="email" class="form-control" id="email">
  </div>
  <div class="form-group">
    <label for="pwd">Password:</label>
    <input type="password" class="form-control" id="pwd">
  </div>
  <div class="checkbox">
    <label><input type="checkbox"> Remember me</label>
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
```


☐ Remember me

Bootstrap Navigation Bar

A navigation bar is a navigation header that is placed at the top of the page:



With Bootstrap, a navigation bar can extend or collapse, depending on the screen size. A standard navigation bar is created with `<nav class="navbar navbar-default">`. The following example shows how to add a navigation bar to the top of the page:

```
<nav class="navbar navbar-default">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">WebSiteName</a>
    </div>
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Home</a></li>
      <li><a href="#">Page 1</a></li>
      <li><a href="#">Page 2</a></li>
      <li><a href="#">Page 3</a></li>
    </ul>
  </div>
</nav>
...
```

https://www.w3schools.com/bootstrap/bootstrap_navbar.asp

Nguyễn Mai Huy - nmai.huy@bodu.com

Bootstrap **Carousel Plugin**

The Carousel plugin is a component for cycling through elements, like a carousel (slideshow).

- ❖ The outermost <div>
- ❖ The "Indicators" part
- ❖ The "Wrapper for slides" part
- ❖ The "Left and right controls" part

CSS Class:

.carousel .slide .carousel-indicators
.carousel-inner .active .item



https://www.w3schools.com/bootstrap/bootstrap_carousel.asp

Nguyễn Mai Huy - nmai.huy@bodu.edu.vn

Bootstrap Carousel Plugin

```
<!-- Left and right controls -->
<a class="left carousel-control" href="#myCarousel" data-slide="prev">
  <span class="glyphicon glyphicon-chevron-left"></span>
  <span class="sr-only">Previous</span>
</a>
<a class="right carousel-control" href="#myCarousel" data-slide="next">
  <span class="glyphicon glyphicon-chevron-right"></span>
  <span class="sr-only">Next</span>
</a>
</div>

<div class="carousel-caption">
  <h3>New York</h3>
  <p>We love the Big Apple!</p>
</div>
</div>
</div>
```



https://www.w3schools.com/bootstrap/bootstrap_carousel.asp

Nguyễn Mai Huy - nmai.huy@bodu.com

Bootstrap **Buttons** Plugin

Bootstrap provides different styles of buttons:



To achieve the button styles above, Bootstrap has the following classes:

- .btn**
- .btn-default**
- .btn-primary**
- .btn-success**
- .btn-info**
- .btn-warning**
- .btn-danger**
- .btn-link**

```
<button type="button" class="btn">Basic</button>  
<button type="button" class="btn btn-default">Default</button>  
<button type="button" class="btn btn-primary">Primary</button>  
<button type="button" class="btn btn-success">Success</button>  
<button type="button" class="btn btn-info">Info</button>  
<button type="button" class="btn btn-warning">Warning</button>  
<button type="button" class="btn btn-danger">Danger</button>  
<button type="button" class="btn btn-link">Link</button>
```

https://www.w3schools.com/bootstrap/bootstrap_buttons.asp

Nguyen Tat Thanh - nttatthanh@bodu.com

Bootstrap Templates



mai huy - nmaihuy@boduia.com

Blog:

3 col

9 col

Footer

Try it Yourself »

Nguyễn Mai Huy - nmaihuy@bodua.com

Portfolio:

Navbar

Jumbotron

3 col

3 col

3 col

3 col

3 col

3 col

3 col

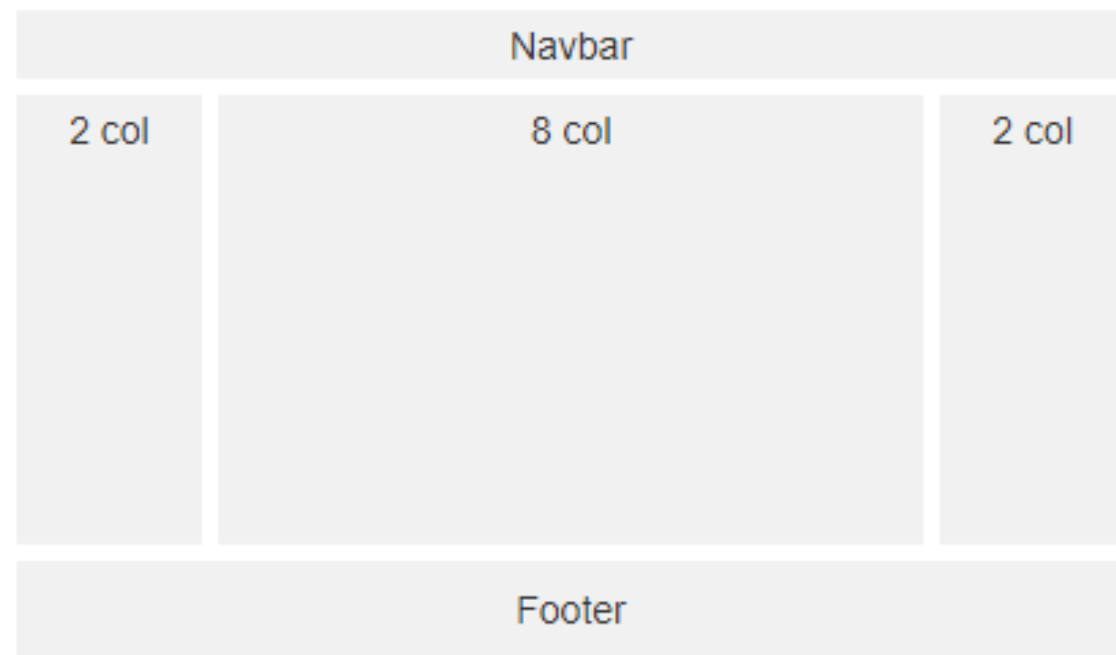
3 col

Footer

Try it Yourself »

Nguyễn Mai Huy - nmaihuy@bodua.com

Webpage:



Try it Yourself »

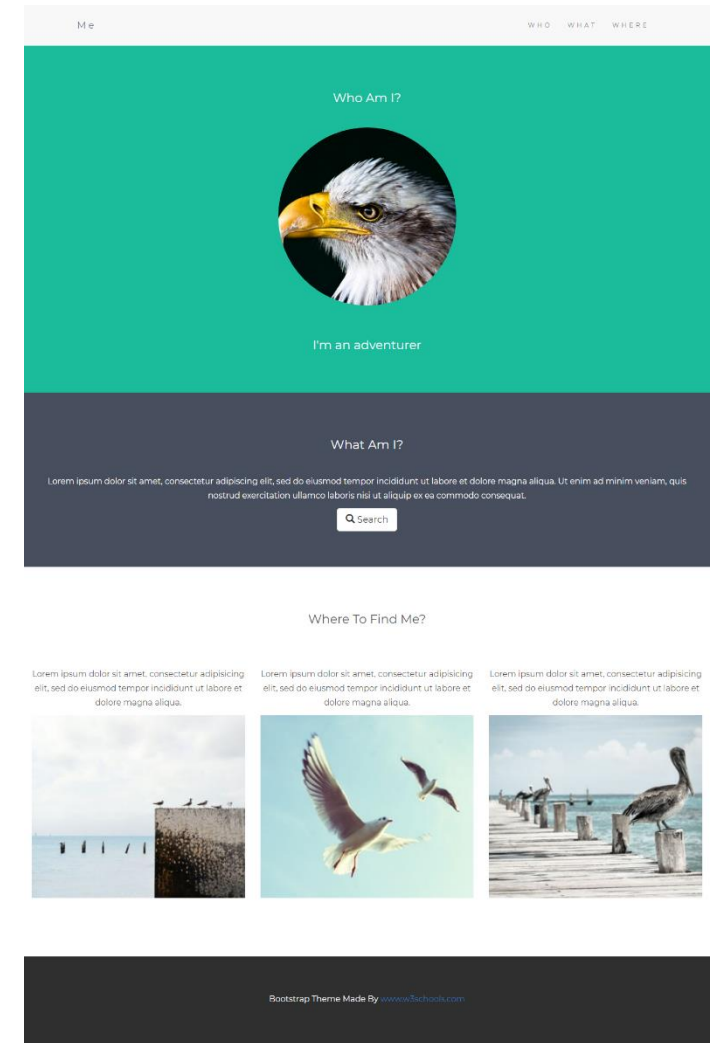
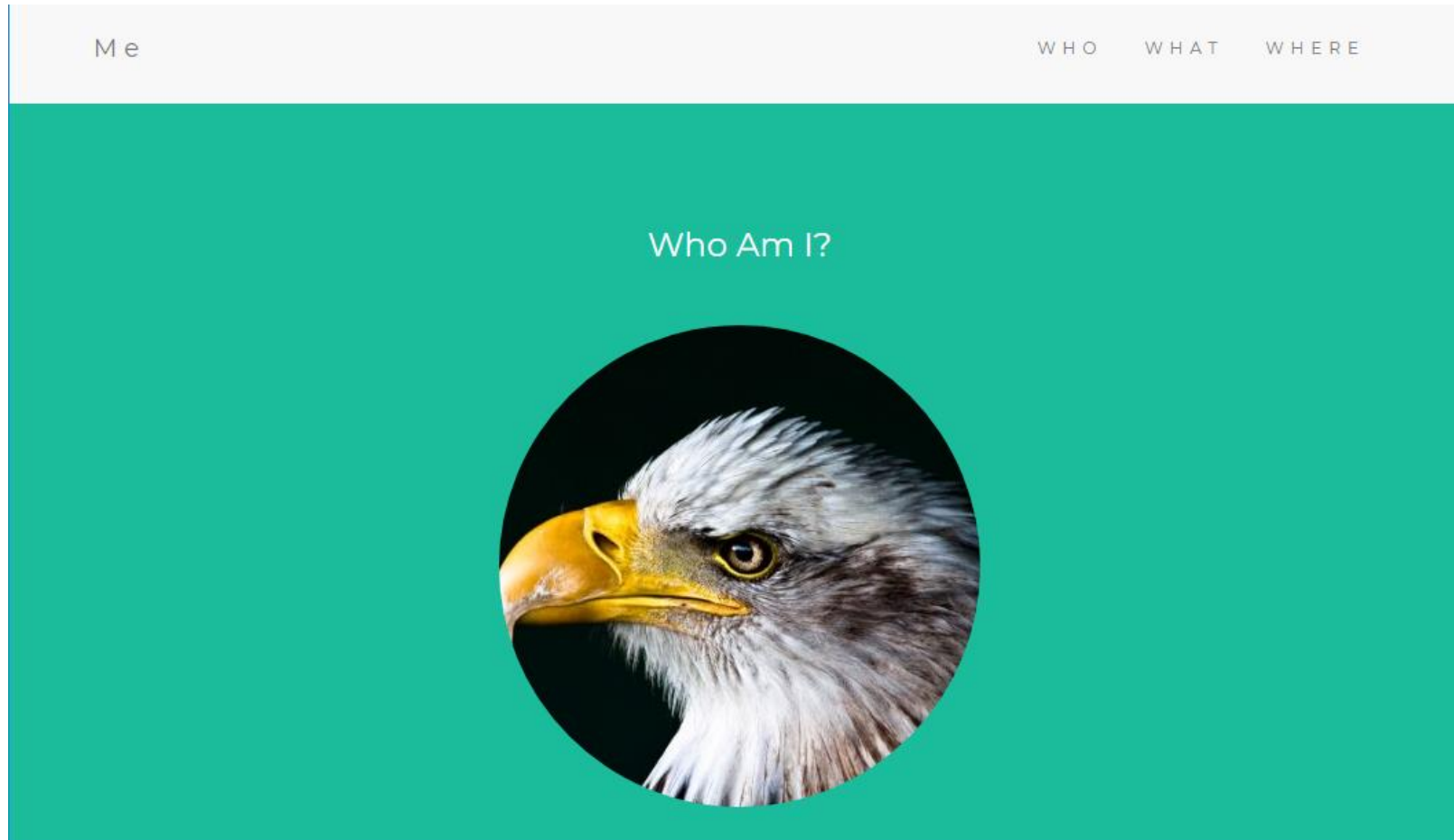
Nguyễn Mai Huy - nmaihuy@bodua.com

Social:

Navbar				
3	7 - 12			2
3	3	7 - 9		2
	3	7 - 9		
3	3	7 - 9		2
	3	7 - 9		
Footer				

Try it Yourself »

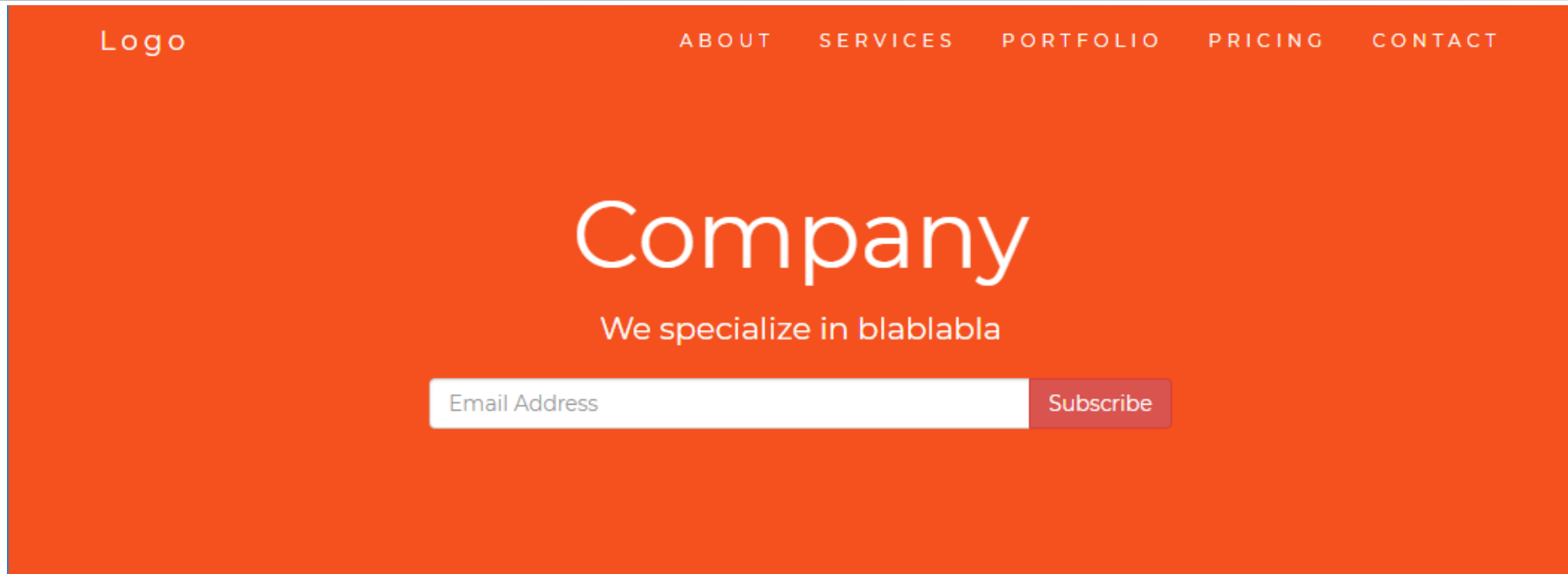
Bootstrap Theme "Simply Me"



https://www.w3schools.com/bootstrap/bootstrap_theme_me.asp

Nguyễn Mai Huy - nmai.huy@bodu.com

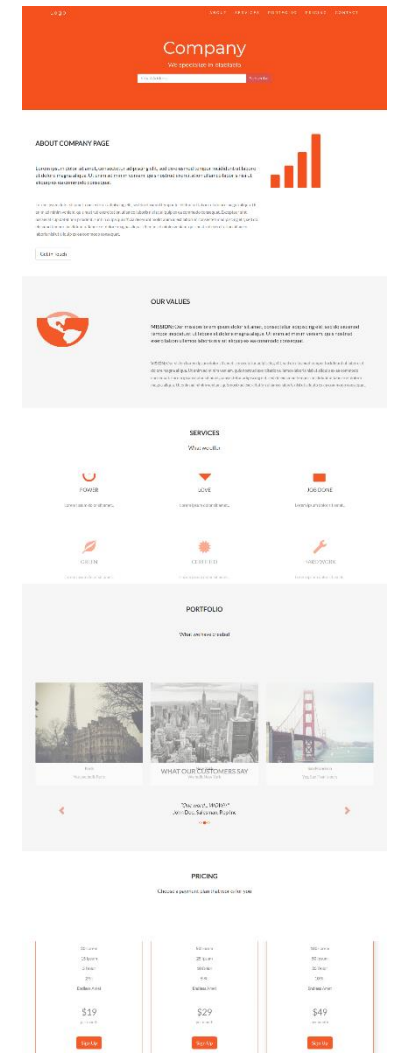
Bootstrap Theme "Company"



ABOUT COMPANY PAGE

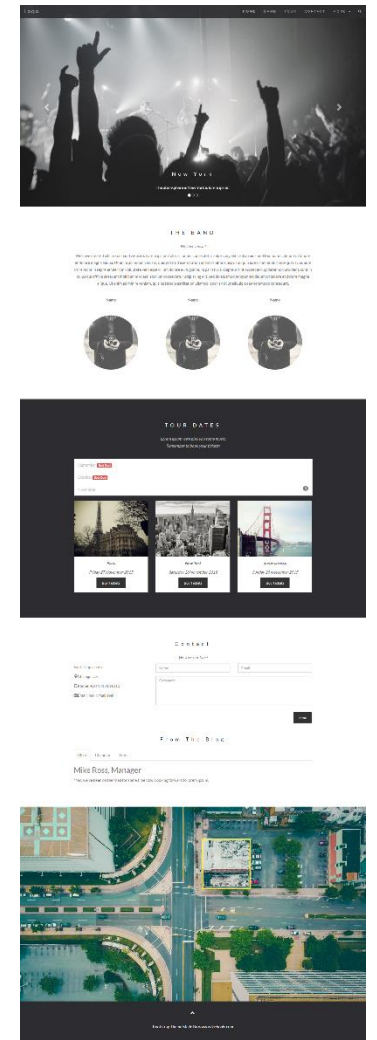
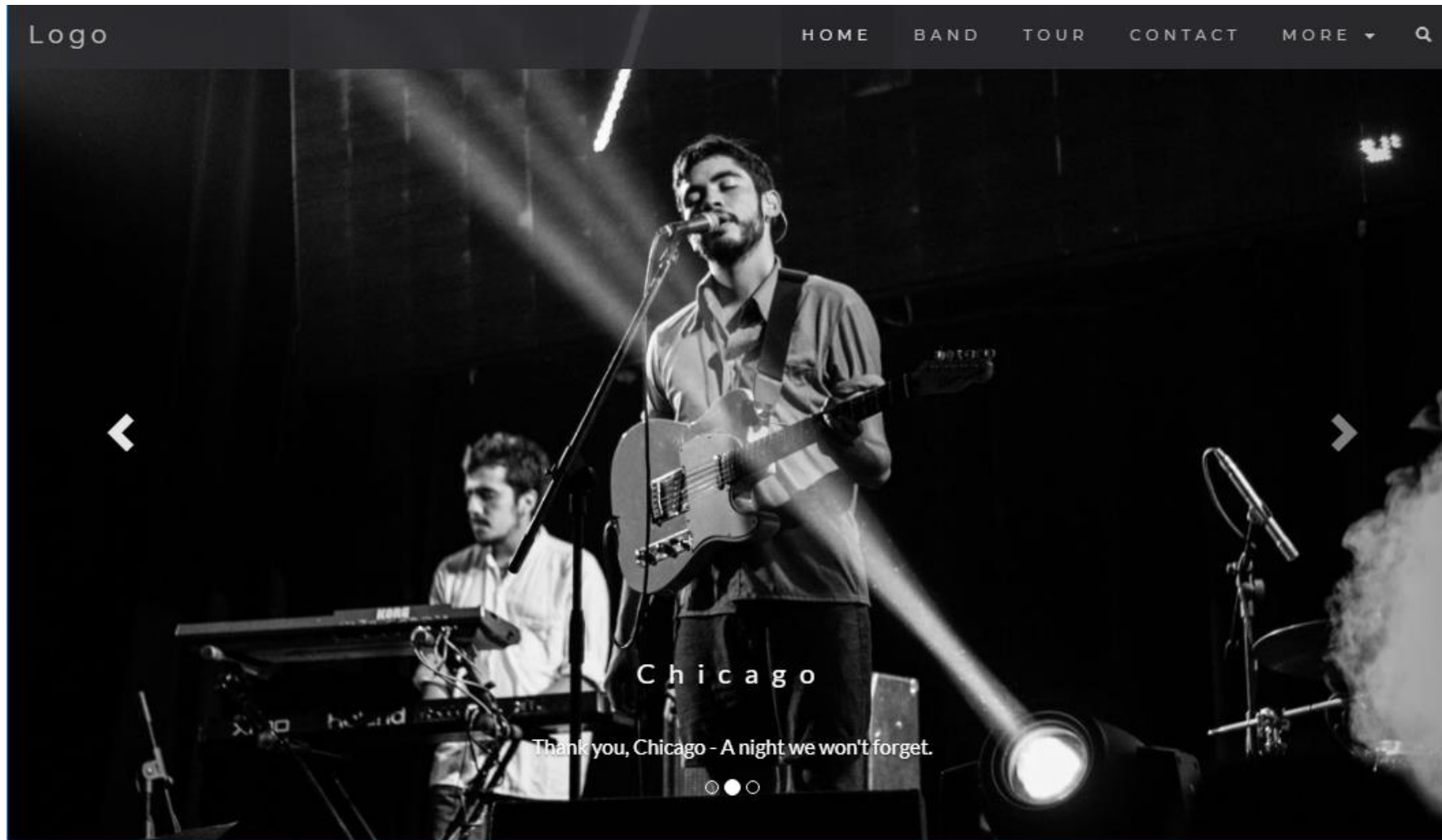
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod

https://www.w3schools.com/bootstrap/bootstrap_theme_company.asp



Nguyễn Mai Huy - nnhuy@vnu.edu.vn

Bootstrap Theme "**The Band**"



https://www.w3schools.com/bootstrap/bootstrap_theme_band.asp

Nguyễn Mai Huy - nmai Huy@bodu a.com



Nhớ gì ?!!!



Nguyễn Mai Huy - nmaihuy@boduca.com

Tài liệu tham khảo



- w3schools, “**Bootstrap 3 Tutorial**”,
<https://www.w3schools.com/bootstrap/default.asp> , 23:20 , 18/08/2018

Facebook Group


facebook.com/groups/1508092902561925/

Facebook



Quản lý nhóm


 **Web programming [ASP.NET]** 
Nhóm Riêng tư

← Nếu muốn, bạn có thể chuyển sang Facebook.com thông thường trong 48 giờ để quản lý nhóm.
[Chuyển ngay](#)


 Trang chủ

Công cụ quản trị

-  Yêu cầu tham gia
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Nguyễn Mai Huy - nmai Huy@bodua.com

Youtube chanel :: Lecture

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 **BODUA Group**
197 người đăng ký

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[TRANG CHỦ](#) [VIDEO](#) [DANH SÁCH PHÁT](#) [KÊNH](#) [CUỘC THẢO LUẬN](#) [GIỚI THIỆU](#)


Danh sách phát đã tạo

[SẮP XẾP THEO](#)




Tổng quan 3

Web layout
Cập nhật 5 ngày trước
XEM TOÀN BỘ DANH SÁCH




Tổng quan 10

UI Programming in Windows
XEM TOÀN BỘ DANH SÁCH




Overview of DBMS 12

SQL Server
XEM TOÀN BỘ DANH SÁCH



Purchase Order 17

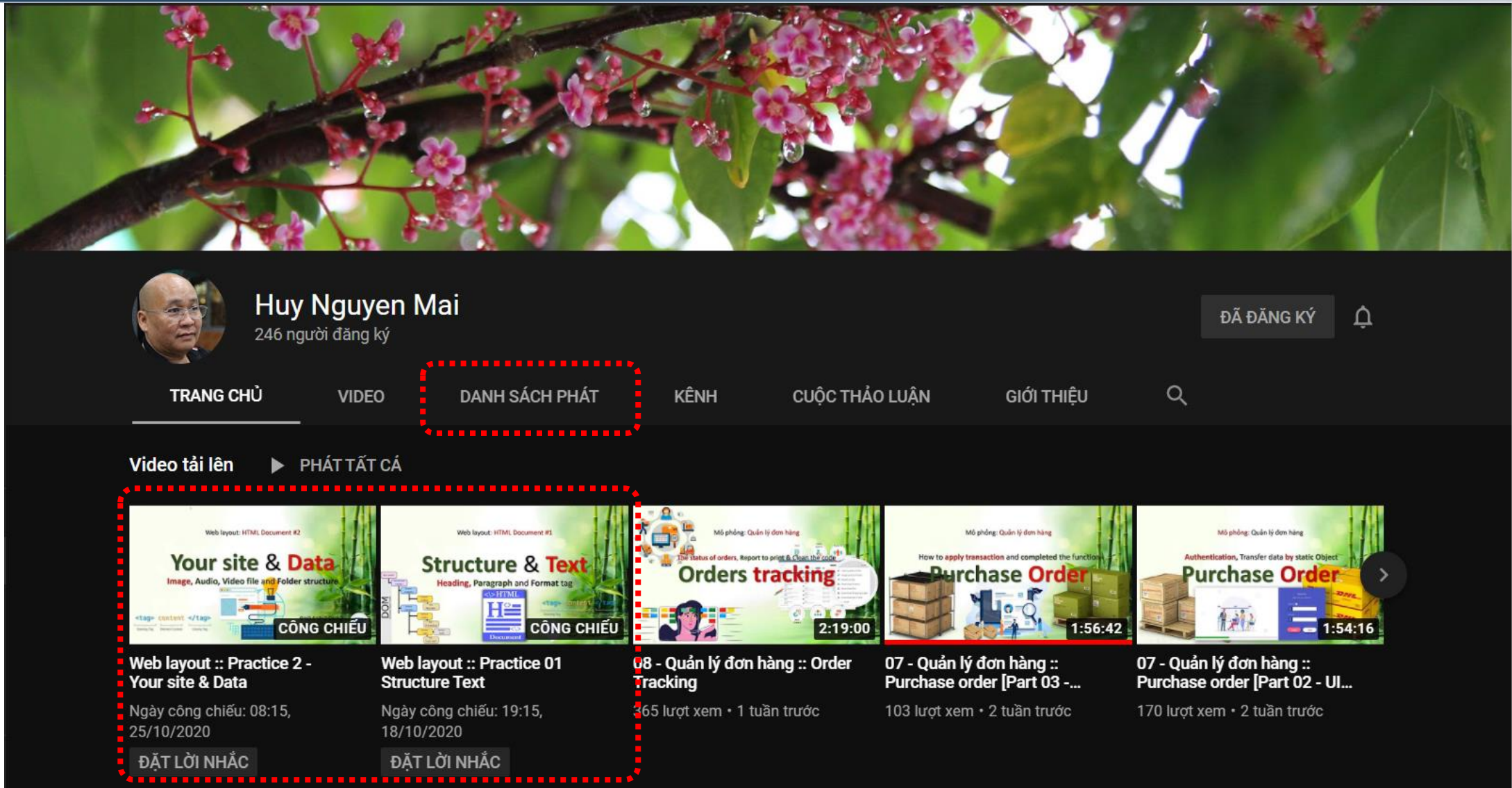
Video đã thích
XEM TOÀN BỘ DANH SÁCH



Giới thiệu ngôn ngữ Java 8

Lập trình hướng đối tượng [JAVA]
XEM TOÀN BỘ DANH SÁCH

Youtube chanel :: Practice



The image shows a YouTube channel page for 'Huy Nguyen Mai'. The header features a banner image of pink cherry blossoms. Below the banner is the channel's profile picture, name, and subscriber count (246). Navigation tabs include 'TRANG CHỦ', 'VIDEO', 'DANH SÁCH PHÁT' (highlighted with a red dashed box), 'KÊNH', 'CUỘC THẢO LUẬN', 'GIỚI THIỆU', and a search icon. Below the tabs, there are two buttons: 'Video tải lên' and 'PHÁT TẤT CẢ'. A red dashed box highlights the first two video thumbnails in the 'DANH SÁCH PHÁT' section. The first video is 'Web layout :: Practice 2 - Your site & Data' with a duration of 08:15. The second video is 'Web layout :: Practice 01 Structure Text' with a duration of 19:15. The third video is '08 - Quản lý đơn hàng :: Order Tracking' with a duration of 2:19:00. The fourth video is '07 - Quản lý đơn hàng :: Purchase order [Part 03 - ...]' with a duration of 1:56:42. The fifth video is '07 - Quản lý đơn hàng :: Purchase order [Part 02 - UI...]' with a duration of 1:54:16. Each video thumbnail includes a title, a brief description, a duration, and a view count. The 'DANH SÁCH PHÁT' tab and the first two video thumbnails are highlighted with a red dashed box.

Huy Nguyen Mai
246 người đăng ký

ĐÃ ĐĂNG KÝ

TRANG CHỦ VIDEO **DANH SÁCH PHÁT** KÊNH CUỘC THẢO LUẬN GIỚI THIỆU

Video tải lên ▶ PHÁT TẤT CẢ

Web layout :: Practice 2 - Your site & Data
Image, Audio, Video file and Folder structure
CÔNG CHIẾU
Ngày công chiếu: 08:15, 25/10/2020
ĐẶT LỜI NHẮC

Web layout :: Practice 01 Structure Text
Heading, Paragraph and Format tag
CÔNG CHIẾU
Ngày công chiếu: 19:15, 18/10/2020
ĐẶT LỜI NHẮC

08 - Quản lý đơn hàng :: Order Tracking
365 lượt xem • 1 tuần trước

07 - Quản lý đơn hàng :: Purchase order [Part 03 - ...]
103 lượt xem • 2 tuần trước

07 - Quản lý đơn hàng :: Purchase order [Part 02 - UI...]
170 lượt xem • 2 tuần trước



**Working hard,
Success in the future !**

Nguyễn Mai Huy - nmai.huy@bodu.edu.vn