

HTML5 & CSS3 FUNDAMENTALS

# HTML5, CSS3, jQuery, Bootstrap 網頁設計基礎班

# Bootstrap簡介

- Bootstrap的Grid系統
- 利用Bootstrap製作一個完整的模板並看看Bootstrap有 哪些組件

## **Bootstrap**

- 下載: <a href="http://getbootstrap.com/">http://getbootstrap.com/</a>
- 要加載bootstrap.css和bootstrap.js

```
bootstrap/
    css/
        bootstrap.css
        bootstrap.css.map
        bootstrap.min.css
        bootstrap-theme.css

    bootstrap-theme.css.map

    bootstrap-theme.min.css

    15/
        bootstrap.js

    bootstrap.min.js

    fonts/
        glyphicons-halflings-regular.eot

    glyphicons-halflings-regular.svg

    glyphicons-halflings-regular.ttf

    glyphicons-halflings-regular.woff

    glyphicons-halflings-regular.woff2
```

## What is Bootstrap?

- Twitter的標準化front-end設計工具
- 計畫網址: http://getbootstrap.com/
- · 一些常用的標準網站設計(CSS和js)都可以直接使 用。

<a href="http://www.google.com" class="btn btn-primary">Visit Google</a>

Visit Google

# 官方建議的樣本(從網頁複製)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
                                                                        for IE和mobile
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- The above 3 meta tags *must* come first in the head; any other head content must come *after* these tags -->
  <title>Bootstrap 101 Template</title>
  <!-- Bootstrap -->
  <link href="css/bootstrap.min.css" rel="stylesheet">
  <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media gueries -->
  <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
  <!--[if It IE 9]>
   <script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
   <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
  <![endif]-->
 </head>
<body>
  <h1>Hello, world!</h1>
  <!-- ¡Query (necessary for Bootstrap's JavaScript plugins) -->
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
  <!-- Include all compiled plugins (below), or include individual files as needed -->
                                                                                 bootstrap依賴於
  <script src="js/bootstrap.min.js"></script>
                                                                                 jquery記得要加載
</body>
</html>
```

## Bootstrap預設

移除 body 的 margin

設置了 body 的背景顏色 background-color: white;

使用 @baseFontFamily \ @baseFontSize 和 @baseLineHeight 屬性做為佈局的基礎

透過 @linkColor 設置全域連結顏色,當連結處於 :hover 狀態時才會帶有下劃線 這些樣式可以在 scaffolding.less 找到。

# **Bootstrap Grid System**

利用格子狀的基本單元設計網站佈局可以自己設定列和行,及所佔的寬度

Responsive的設計:這些空間可以隨著裝置的大小切換



## container vs container-fluid

- Bootstrap建議把整個佈局放在一個container或是 container-fluid裡面
- container:固定寬,左右會有margin。
- container-fluid:寬度會自動佔滿瀏覽器畫面。

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

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

#### row

· 先產生列,之後再放入column的內容

## col

- 單位:全部的寬度在Bootstrap是12個column
- 宣告column的時候要指定它佔據的寬度。
- 例如:
  - 3 column寬的時候class就是col-xs-3
  - 6 column寬的時候class就是col-xs-6
  - 12 column寬的時候class就是col-xs-12
- 我們等一下再說xs的意思

## 雙欄的設計

為了看得到我們多給他顏色

```
.col1{
    background: #5C7080;
}
.col2{
    background: #6BC0FF;
}
```



# 指定display大小

- 現在我們可以來看xs是什麼意思了。
- Bootstrap是responsive的設計,xs的位置放的是裝置的螢幕寬度的描述。
- Bootstrap會針對不同寬度的螢幕選擇設計者指定的寬。
  - 1. col-xs是extra small螢幕(寬度 < 768px)
  - 2. col-sm是small螢幕(寬度 >= 768px)
  - 3. col-md是medium螢幕(寬度 >= 992px)
  - 4. col-lg是large螢幕(寬度 >= 1200px)

## 試試看

指定兩個不同大小的col寬度

Column 1

Column 1

Column 2

Column 2

#### 2 row

• 再加一個row

```
.col3{
    background: #E8AA4C;
}
.col4{
    background: #FF384E;
}
```

## 應用

- 利用Bootstrap的Grid系統來做動態Layout
- 幫下面的blog做排版的概念設計

#### My First Bootstrap Website

#### Post Title 1

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

#### Post Title 4

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

#### Post Title 2

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do elusmod tempor incididunt ut labore et dolore magna aliqua.

#### Post Title 5

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

#### Post Title 3

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

#### Post Title 6

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

桌上型電腦

#### My First Bootstrap Website

#### Post Title 1

Lorem ipsum dolor sit amet, consectetur adipiticing elit, sed-do elusmod tempor incididunt ut labore et dolore magna sicus

#### Post Title 3

Lorem ipsum dolor sit amet, consectetur adipisioing elit, sed-do eiusmod tempor incididunt ut labore et dolore magna alique.

#### Post Title 5

Lorem ipsum dolor sit amet, consectetur adipsicing elit, sed do eiumod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectietur adipisicing elit, sed do eiuemod tempo incididunt ut labore et dolore magna aliqua.

Post Title 2

#### Post Title 4

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do elusmod tempor incididunit ut labore et dolore magna alique.

#### Post Title 6

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do siusmod tempor incididunt ut labore et dolore magna aliqua.

#### 平板

My First Bootstrap Website

#### Post Title 1

Lorent speum dator at arrest, correctionar adjusting alls, and do aluemed tempor inciditural at labors at dolone magna alique.

#### Post Title 2

Loren pour dotor at arrel, consoliatur adjuscing alls, sed do aluenod tempor inciditurit ut labore et dotore magne attore.

#### Post Title 3

Loren (yeun datar sit. ernet, consentatur edipsicing ells, sed do eluemod tempor nockdurit ut tebore-et datare magne 手機

## 幫桌上型電腦設計版面

- 先產生container
- 產生一個row
- 桌上型電腦的大小大約是md,標頭的寬度12

text-center是 Bootstrap的 helper class文字 置中

## 內容骨架

根據原來的設計圖,內容區的欄位是一列有三個欄:所以每個欄佔寬:4

```
<div class="container">
   <div class="row">
        <div class="col-md-12 text-center">
            <h1>My First Bootstrap Blog</h1>
        </div>
   </div>
<hr>
   <div class="row">
        <div class="col-md-4">
        </div>
        <div class="col-md-4">
        </div>
        <div class="col-md-4">
        </div>
   </div>
</div>
```

假網頁內容可以到這裡找 http://html-ipsum.com/

## 填入文章

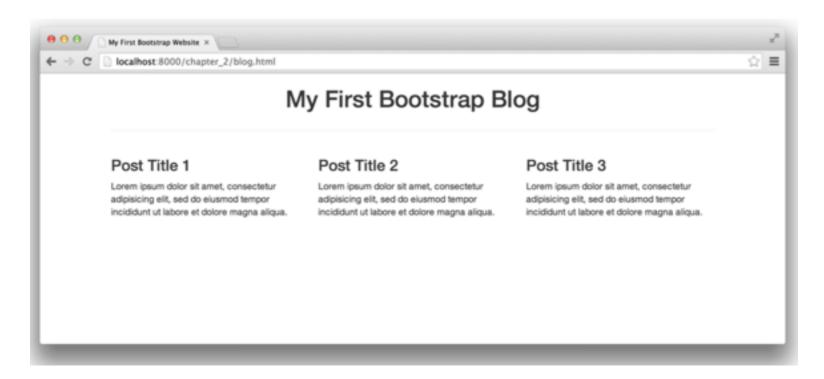
文章範例

```
<div class="col-md-4">
    <h3>Post Title 1</h3>
    Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo.
</div>
```

為了方便識別增加了 <h3>Post Title #</h3>

# 看看結果

已經有第一列了,長相跟設計圖的一樣

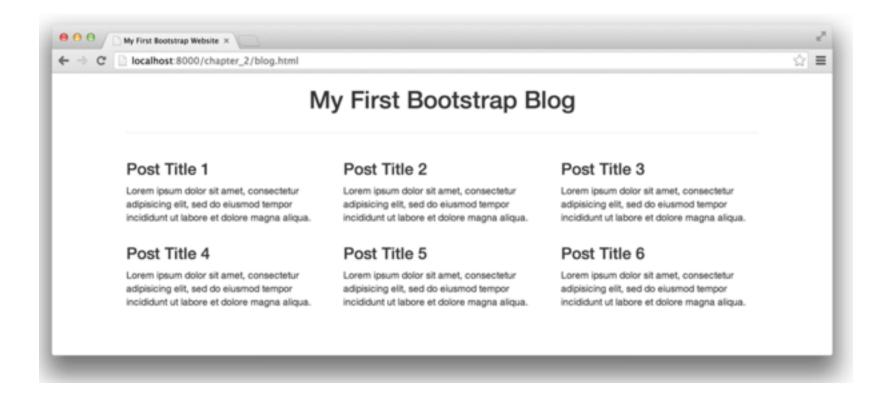


## 增加第二列?

- 兩種可能性:
  - 1. 手動產生一個row並把三個column放進來(layout固定)
  - 2. 直接把三個column的內容貼進第一個row

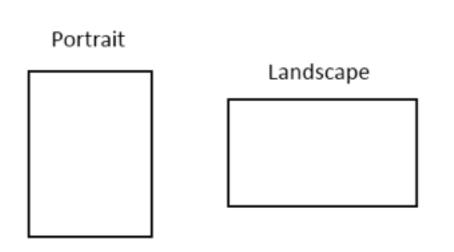
總寬度超過12的時候,Bootstrap會自動決定該把內容換行到新的row。

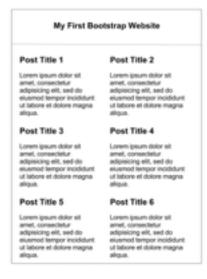
## 完成



## 幫平板設計佈局

- 平板的landscape寬度可以用md (>= 992px),所以剛剛的layout就OK。
- 平板的portrait寬度大概就是sm的尺寸,所以我們改用 另一種layout。





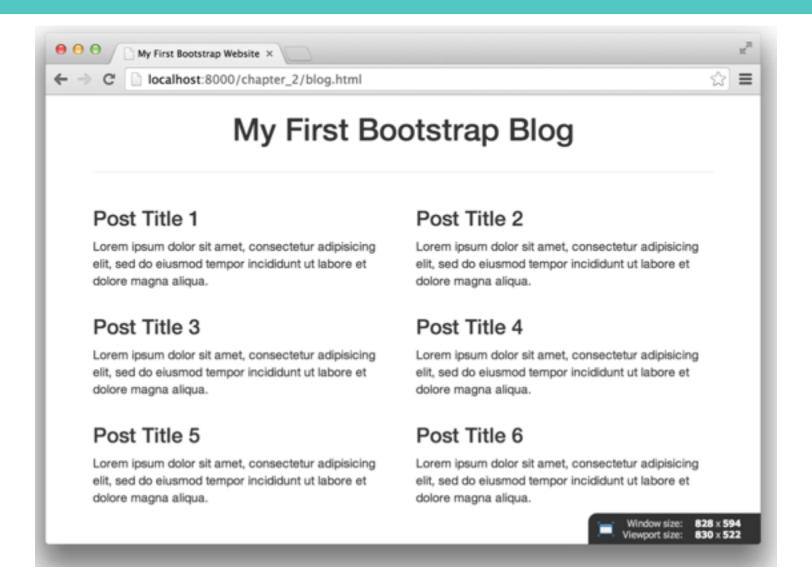
平板 portrait

6 col寬

## 幫內文加上sm尺寸的寬

```
<div class="row">
   <div class="col-md-4 col-sm-6";</pre>
       <h3>Post Title 1</h3>
       Lorem ipsum dolor sit amet ... 
   </div>
   <div class="col-md-4 col-sm-6":
       <h3>Post Title 2</h3>
       Lorem ipsum dolor sit amet ... 
   </div>
   <div class="col-md-4 col-sm-6":
       <h3>Post Title 3</h3>
       Lorem ipsum dolor sit amet ... 
   </div>
   <div class="col-md-4 col-sm-6":
       <h3>Post Title 4</h3>
       Lorem ipsum dolor sit amet ...
```

## 看看結果



## 幫手機設計佈局

- 手機的landscape寬度可以用sm ( >= 768px)
- 手機的portrait寬度則是xs (< 768px)</li>

# Portrait Landscape

#### My First Bootstrap Website

#### Post Title 1

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

#### Post Title 2

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

#### Post Title 3

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

#### 手機的 portrait

col寬12

## 這次加上xs的寬度

```
<div class="row">
   <div class="col-md-4 col-sm-6 col-xs-12">
       <h3>Post Title 1</h3>
       Lorem ipsum dolor sit amet ... 
   </div>
   <div class="col-md-4 col-sm-6 col-xs-12">
       <h3>Post Title 2</h3>
       Lorem ipsum dolor sit amet ... 
   </div>
   <div class="col-md-4 col-sm-6 col-xs-12">
       <h3>Post Title 3</h3>
       Lorem ipsum dolor sit amet ... 
   </div>
   <div class="col-md-4 col-sm-6 col-xs-12">
       <h3>Post Title 4</h3>
       Lorem ipsum dolor sit amet ...
```

## 完成



## 更複雜的佈局

也可以利用巢狀結構,做出更複查的佈局

```
<div class="container">
        <div class="row">
            <div class="col-md-6 col1">
                <h3>Column 1</h3>
                <!-- 在col裡加新的row -->
                <div class="row">
                </div>
            </div>
            <div class="col-md-6 col2">
                <h3>Column 2</h3>
            </div>
        </div>
    </div>
```

現在col1裡面我們家 了新的row

## 結果

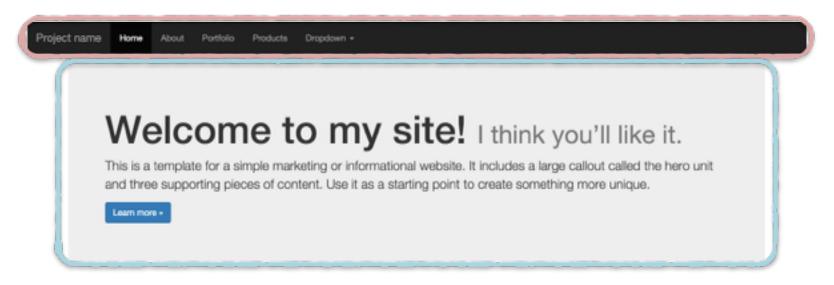


# 遊歷Bootstrap組件

我們用完整的一個頁面來介紹Bootstrap組建能做些什麼

## 主頁面

- navbar
- jumbotron
- 三欄文字



#### Heading

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis eulemod. Donec sed odio dui.

#### Heading

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

#### Heading

Donec sed odio dui. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Vestibulum id ligula porta felis euismod semper. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus.

View details -

View details =

View details -

#### **Jumbotron**

• 簡單又有彈性的特殊內容展示區塊

# Welcome to my site! I think you'll like it.

This is a template for a simple marketing or informational website. It includes a large callout called the hero unit and three supporting pieces of content. Use it as a starting point to create something more unique.

Learn more »

## heading

- Heading有h1到h6,也可以用.h1到.h6類別。
- 在大標題裡用<small>標籤可以加副標題。

# Welcome to my site! I think you'll like it.

This is a template for a simple marketing or informational website. It includes a large callout called the hero unit and three supporting pieces of content. Use it as a starting point to create something more unique.

Learn more »

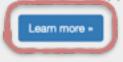
</div>

#### button

- 可以在a, button或input使用btn類別。
- 在大標題裡用<small>標籤可以加副標題。

# Welcome to my site! I think you'll like it.

This is a template for a simple marketing or informational website. It includes a large callout called the hero unit and three supporting pieces of content. Use it as a starting point to create something more unique.



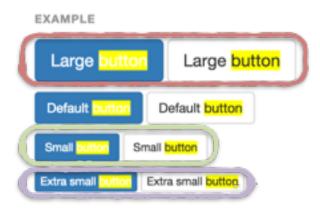
<a class="btn btn-primary btn-large">Learn more &raquo;</a></div>

## button顏色

#### **EXAMPLE** Default **Primary** Success Info Warning Danger Link <!-- Standard button --> <button type="button" class="btn btn-default">Default/button> <!-- Provides extra visual weight and identifies the primary action in a set of buttons --> <button type="button" class="btn btn-primary">Primary</button> <!-- Indicates a successful or positive action --> <button type="button" class="btn btn-success">Success</button> <!-- Contextual button for informational alert messages --> <button type="button" class="btn btn-info">Info</button> <!-- Indicates caution should be taken with this action --> <button type="button" class="btn btn-warning">Warning</button> <!-- Indicates a dangerous or potentially negative action --> <button type="button" class="btn btn-danger">Danger</button> <!-- Deemphasize a button by making it look like a link while maintaining button behavior --> <button type="button" class="btn btn-link">Link/button>

## button尺寸

小圖示https://kkbruce.tw/bs3/Components#glyphicons



```
>
 <button type="button" class="btn btn-primary btn-lg">Large button</button>
 <button type="button" class="btn btn-default btn-lg">Large button/button>
>
 <button type="button" class="btn btn-primary">Default button/button>
 <button type="button" class="btn btn-default">Default button/button>
>
 <button type="button" class="btn btn-primary btn-sm">Small button</button>
 <button type="button" class="btn btn-default btn-sm">Small button</button>
>
 <button type="button" class="btn btn-primary btn-xs">Extra small button</button>
 <button type="button" class="btn btn-default btn-xs">Extra small button/button>
```

### navbar

- 製作navbar
- 外圍容器

```
<div class="navbar navbar-inverse">
</div>
```

• 再用一層container-fluid包住

navbar-inverse 色調相反 navbar-default 正常顏色

### navbar

- 在navbar內加一個隱藏的button,只有在小螢幕上出現
- navbar-toggle:標示切換的行為
- data-toggle:表示按鈕被點擊的時候要做的事
- data-target:標示哪一個區塊要被toggle
- navbar-brand:用來網站名稱或logo

```
<div class="navbar navbar-inverse">
        <div class="container-fluid">
            <div class="navbar-header">
                <button type="button" class="navbar-toggle collapsed" data-</pre>
toggle="collapse" data-target="#mynavbar-content">
                    <span class="sr-only">Toggle navigation</span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                    <span class="icon-bar"></span>
                </button>
                <a class="navbar-brand" href="#">Brand</a>
            </div>
        </div>
    </div>
```

## navbar的內容

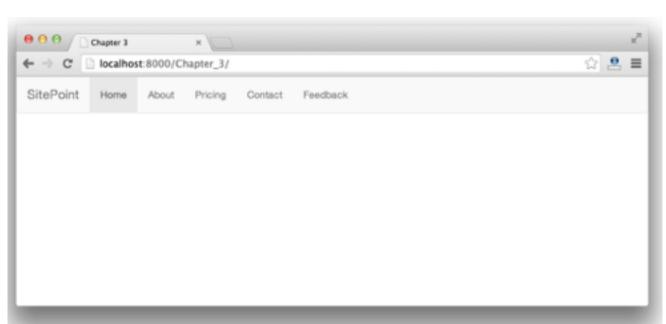
 產生新的div類別是collapse和navbar-collapse, id就 是我們剛剛說的mynavbar-content

```
<div class="collapse navbar-collapse" id="mynavbar-content">
</div>
```

· 導航條的內容放在ul裡,類別是nav和navbar-nav

### 結果

### 寬螢幕



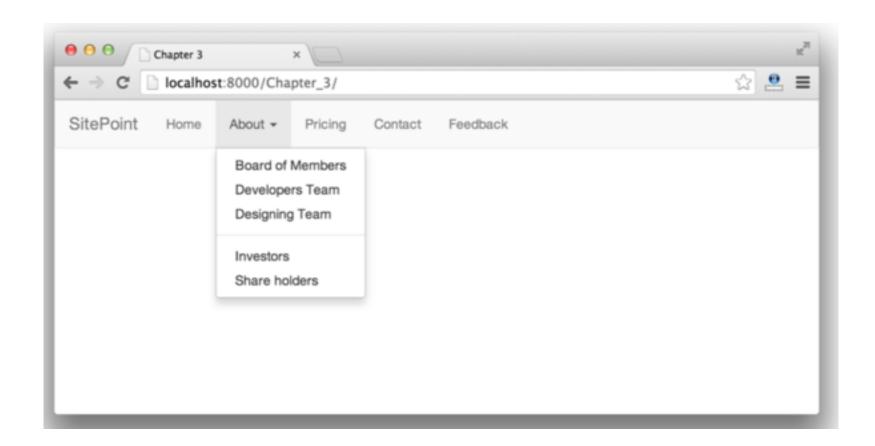
### 窄螢幕



## navbar增加下拉式選單

新增一個More如下.dropdown表示是下拉選單

下拉式選單的內容dropdown-menu



## About頁面的範例

- 兩欄:一個main<sup>,</sup>一個sidebar (比例8:4)
- 同一個navbar:設定active於About
- 一個page header

## placehold.it

- 產生假圖片的網站
- http://placehold.it/600x300就可以產生600x300的假圖

片。

Welcome to PLACEHOLD.IT
A quick and simple image placeholder service.

How does it work? Just put your image size after our URL and you'll get a placeholder.

Like this: http://placehold.it/350x150

You can also use it in your code, like this:

<img src="http://placehold.it/350x150">

Have fun!



## Page Header

• 包含頁面主標題的h1的header容器

```
<div class="page-header">
  <h1>Example page header <small>Subtext for header</small></h1>
</div>
```

EXAMPLE

## Example page header Subtext for header

## 完成

### ● 超簡單的2 column排版

#### About this Site

600 x 300

#### Heading

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

View details =

300 x 200

#### Heading

Donec sed odio dui. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Vestibulum id ligula porta felis euismod semper. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus.

View details =

#### Heading

Donec sed odio dui. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Vestibulum id ligula porta felis euismod semper. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus.

View details »

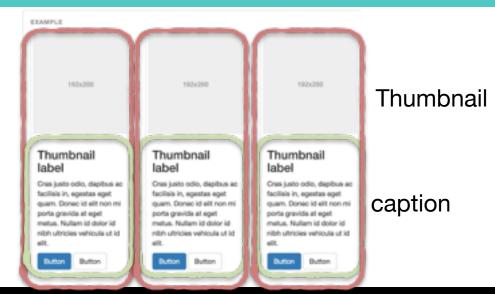
## Portfolio分頁

- navbar同前面的
- 標題
- 醒目的大圖,下面有段落等文字敘述
- 下面有放很多縮圖的列表

### **Thumbnail**

- 放置縮圖的容器
- 可以增加caption在裡面

全部包在row和column 裡面就可以做 responsive的設計



## 產品分頁

- navbar同前面的
- 標題
- 用表格介紹產品的屬性
- 介紹的文字在表單的左側

### table

### Bootstrap也有表單的CSS設定



表頭用thead包住

裡面的標頭每個row用tr包 住,表頭文字用th

表的內容用tbody包住

每一個row放在裡 每一個對應的column的內 容放在裡面

## table

### .table-striped(帶狀陰影的表)

EXAMPLE

#	First Name	Last Name	Username
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter

# .table 3

#### EXAMPLE

#	First Name	Last Name	Username
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter

• 文字區3:表單區 9的設計

### **Products**

# What we have to offer

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justo sit amet risus. Etiam porta sem malesuada magna mollis euismod. Donec sed odio dui.

Heading	Heading	Heading	Heading	Heading
Info	Info	Info	Info	Info
Info	Info	Info	Info	Info
Info	Info	Info	Info	Info
Info	Info	Info	Info	Info
Info	Info	Info	Info	Info

Company 2012

### HTML5 video

- 在HTML裡面播放影片,不用flash
- <video>標籤:選項controls控制器, autoplay自動播放, loop重複播放, poster下載時代替的圖檔, muted 靜音, width, height寬和高。
- <source>標籤,主流瀏覽器支援的檔案格式MP4, WebM,和Ogg。

## 範例

#### 自動播放 重複播放

### 寬度600px



## 固定影片背景

用前面的site.html做示範

HTML

實作網站最好不要 用loop,動態背景 會干擾人。

#### **CSS**

```
video {
          position: fixed;
          z-index: -100;
}
```

### 結果

Project name

Home

About

Portfolio

Products Dropdown -

# Welcome to my site! I think you'll like it.

This is a template for a simple marketing or informational website. It includes a large callout called the hero unit and three supporting pieces of content. Use it as a starting point to create something more unique.

Learn more -

#### Heading

Donec id elit non mi porta gravida at eget metus. Fusce dapibus, tellus ac cursus commodo, tortor mauris condimentum nibh, ut fermentum massa justi amet risus. Etiam porta sem malesuada magnatus euismod. Donec sed odio dui.

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View details » Wow de

View det

## 把影片當作某區背景

把video放進jumbotron內

```
<div id="jumbo" class="jumbotron">
           <div>
              <!- 內容在此 ->
           </div>
           <video autoplay poster="assets/water_drop.jpg" id="bgvid" loop>
                             <source src="assets/water_drop.mp4" type="video/mp4">
           </video>
</div>
  |丈/川/旧王」 イトトイミ巴王」 ロリイメレフ
```

```
#jumbo {
        position: relative;
        opacity: 0.7;
```

#jumbo video{ position: absolute; top:0;

> left:0; width: 100%; height: 100%;

z-index: -100;

要調很小

要當成參考 原點的 div#jumbo

裡面的影片 使用絕對座 標,z-index

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Dropdown +

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### https://fortawesome.github.io/Font-Awesome/examples/

1.首頁置入背景影片

2.services, our portfolio, team

3. 自適應排版

4.加入圖片

5.上方加入自適應選單

note:挑戰看看小圖示和時間軸