

The background features a dark blue-to-purple gradient with abstract circular patterns. A prominent circular scale with degree markings (40, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260) is visible on the left side. Other circular elements include concentric circles and dashed lines with arrows, suggesting a technical or scientific theme.

計算機概論 INTRODUCTION TO COMPUTERS

張家瑋 博士

助理教授

國立臺中科技大學資訊工程系



INTRODUCTION AND MODIFICATION OF RWD BOOTSTRAP4 TEMPLATES

R
W
D

BOOTSTRAP

BOOTSTRAP 4 IS MOBILE-FIRST

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

There are two container classes to choose from:

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

`.container`

`.container-fluid`

BOOTSTRAP 4 GET STARTED

```
<!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/4.1.3/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <h1>My First Bootstrap Page</h1>
  <p>This part is inside a .container class.</p>
  <p>The .container class provides a responsive fixed width container.</p>
</div>

</body>
</html>
```


BOOTSTRAP 4 GRID SYSTEM

Bootstrap 4 Grid System

Bootstrap's grid system allows up to 12 columns across the page.

If you do not want to use all 12 column individually, you can group the columns together to create wider columns:

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											

BOOTSTRAP 4 GRID SYSTEM

Grid Classes

The Bootstrap 4 grid system has five classes:

- `.col-` (extra small devices - screen width less than 576px)
- `.col-sm-` (small devices - screen width equal to or greater than 576px)
- `.col-md-` (medium devices - screen width equal to or greater than 768px)
- `.col-lg-` (large devices - screen width equal to or greater than 992px)
- `.col-xl-` (xlarge devices - screen width equal to or greater than 1200px)

GRID STACKED-TO-HORIZONTAL

Grid Example

This example demonstrates a 50%/50% split on small, medium, large and xlarge devices. On extra small devices, it will stack (100% width).

Resize the browser window to see the effect.

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.

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto.

GRID STACKED-TO-HORIZONTAL

Grid Example

This example demonstrates a 50%/50% split on small, medium, large and xlarge devices. On extra small devices, it will stack (100% width).

Resize the browser window to see the effect.

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.

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto.

Tip: You can turn any fixed-width layout into a **full-width** layout by changing the `.container` class to `.container-fluid`

GRID STACKED-TO-HORIZONTAL

```
<!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/4.1.3/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.1.3/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container-fluid">
  <h1>Auto Layout Columns</h1>
  <p>In Bootstrap 4, there is an easy way to create equal width columns: just use the <code>.col-size</code> class on a specified number of col elements. Bootstrap will recognize how many columns there are, and each column will get the same width.</p>
  <p>Two columns: 50% width on all screens, except for extra small (100% width on screens less than 576px wide)</p>
  <div class="container-fluid">
    <div class="row">
      <div class="col-sm bg-success">1 of 2</div>
      <div class="col-sm bg-warning">2 of 2</div>
    </div>
  </div>
  <br>
```

Auto Layout Columns

In Bootstrap 4, there is an easy way to create equal width columns: just use the `.col-size` class on a specified number of col elements. Bootstrap will recognize how many columns there are, and each column will get the same width.

Two columns: 50% width on all screens, except for extra small (100% width on screens less than **576px** wide)



Four columns: 25% width on all screens, except for extra small (100% width on screens less than **576px** wide)



GRID EXTRA SMALL

Extra Small Grid

The following example will result in a 25%/75% split on all devices.

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.

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.

```
<div class="container-fluid">
  <h1>Extra Small Grid</h1>
  <p>The following example will result in a 25%/75% split on all devices.</p>
  <div class="container-fluid">
    <div class="row">
      <div class="col-3 bg-success">
        Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.<br>
        Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
      </div>
      <div class="col-9 bg-warning">
        Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.
      </div>
    </div>
  </div>
</div>
```

GRID EXTRA SMALL

Auto Layout Columns

In Bootstrap 4, there is an easy way to create equal width columns for all devices: just use the `.col` class on a specified number of col elements. Bootstrap will recognize how many columns there are, and each column will get the same width.

1 of 2

2 of 2

1 of 4

2 of 4

3 of 4

4 of 4

```
<div class="container-fluid">
  <h1>Auto Layout Columns</h1>
  <p>In Bootstrap 4, there is an easy way to create equal width columns for all devices: just use the <code>.col</code> class on a specified number of col elements. Bootstrap will recognize how many columns there are, and each column will get the same width.</p>
</div>
```

```
<div class="container-fluid">
  <div class="row">
    <div class="col bg-success">1 of 2</div>
    <div class="col bg-warning">2 of 2</div>
  </div>
</div>
<br>
```

```
<div class="container-fluid">
  <div class="row">
    <div class="col bg-success">1 of 4</div>
    <div class="col bg-warning">2 of 4</div>
    <div class="col bg-success">3 of 4</div>
    <div class="col bg-warning">4 of 4</div>
  </div>
</div>
```

```
</div>
```

GRID EXTRA LARGE

```
<div class="container-fluid">
  <h1>XLarge Grid</h1>
  <p>The following example will result in a 25%/75% split on small devices, a 50%/50% split on medium devices, and a 33%/66% split on large devices and a 20%/80% on xlarge devices. On extra small devices, it will automatically stack (100%).</p>
  <p>Resize the browser window to see the effect.</p>
  <div class="container-fluid">
    <div class="row">
      <div class="col-sm-3 col-md-6 col-lg-4 col-xl-2 bg-success">
        Lorem ipsum dolor sit amet, consectetur adipiscing 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.
      </div>
      <div class="col-sm-9 col-md-6 col-lg-8 col-xl-10 bg-warning">
        Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.
      </div>
    </div>
  </div>
</div>
```


GRID EXTRA LARGE ONLY

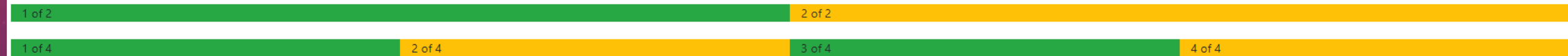
```
<div class="container-fluid">
  <h1>XLarge Grid</h1>
  <p>The following example will result in a 50%/50% split on xlarge devices (<strong>1200px and above</strong>). On large, medium, small and extra small devices, it will automatically stack (100%).</p>
  <p>Resize the browser window to see the effect.</p>
  <div class="container-fluid">
    <div class="row">
      <div class="col-xl-6 bg-success">
        Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.<br>
        Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
      </div>
      <div class="col-xl-6 bg-warning">
        Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.
      </div>
    </div>
  </div>
</div>
```

RESPONSIVE AUTO LAYOUT COLUMNS

Responsive Auto Layout Columns

In Bootstrap 4, there is an easy way to create equal width columns: just use the `.col-x1` class on a specified number of col elements. Bootstrap will recognize how many columns there are, and each column will get the same width.


If the screen size is **less than 1200px**, the columns will stack horizontally.



THREE EQUAL COLUMNS

Three Equal Columns

Use the `.col` class on a specified number of elements and Bootstrap will recognize how many elements there are (and create equal-width columns). In the example below, we use three `col` elements, which gets a width of 33.33% each.



col col col

Example

```
<div class="row">
  <div class="col">col</div>
  <div class="col">col</div>
  <div class="col">col</div>
</div>
```

Try it Yourself »

THREE EQUAL COLUMNS

Three Equal Columns Using Numbers

You can also use numbers to control the column width. Just make sure that the sum adds up to 12 or fewer (it is not required that you use all 12 available columns):

col-4

col-4

col-4

Example

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

Try it Yourself »

MORE EQUAL COLUMNS

More Equal Columns

1 of 2

2 of 2

1 of 4

2 of 4

3 of 4

4 of 4

1 of 6

2 of 6

3 of 6

4 of 6

5 of 6

6 of 6

MORE UNEQUAL COLUMNS

More Unequal Columns

1 of 2

2 of 2

1 of 4

2 of 4

3 of 4

4 of 4

1 of 4

2 of 4

3 of 4

4 of 4

NESTED COLUMNS

Nested Columns



The following example shows how to create a two column layout, with another two columns inside one of the columns:

Example

```
<div class="row">
  <div class="col-8">
    .col-8
    <div class="row">
      <div class="col-6">.col-6</div>
      <div class="col-6">.col-6</div>
    </div>
  </div>
  <div class="col-4">.col-4</div>
</div>
```

[Try it Yourself »](#)

MIX AND MATCH

Mix and Match

col-6 col-sm-9

col-6 col-sm-3

col-7 col-lg-8

col-5 col-lg-4

col-sm-3 col-md-6 col-lg-4

col-sm-9 col-md-6 col-lg-8

Example

```
<!-- 50%/50% split on extra small devices and 75%/25% split on larger devices -->
<div class="row">
  <div class="col-6 col-sm-9">col-6 col-sm-9</div>
  <div class="col-6 col-sm-3">col-6 col-sm-3</div>
</div>

<!-- 58%/42% split on extra small, small and medium devices and 66.3%/33.3% split on large and xlarge devices -->
<div class="row">
  <div class="col-7 col-lg-8">col-7 col-lg-8</div>
  <div class="col-5 col-lg-4">col-5 col-lg-4</div>
</div>

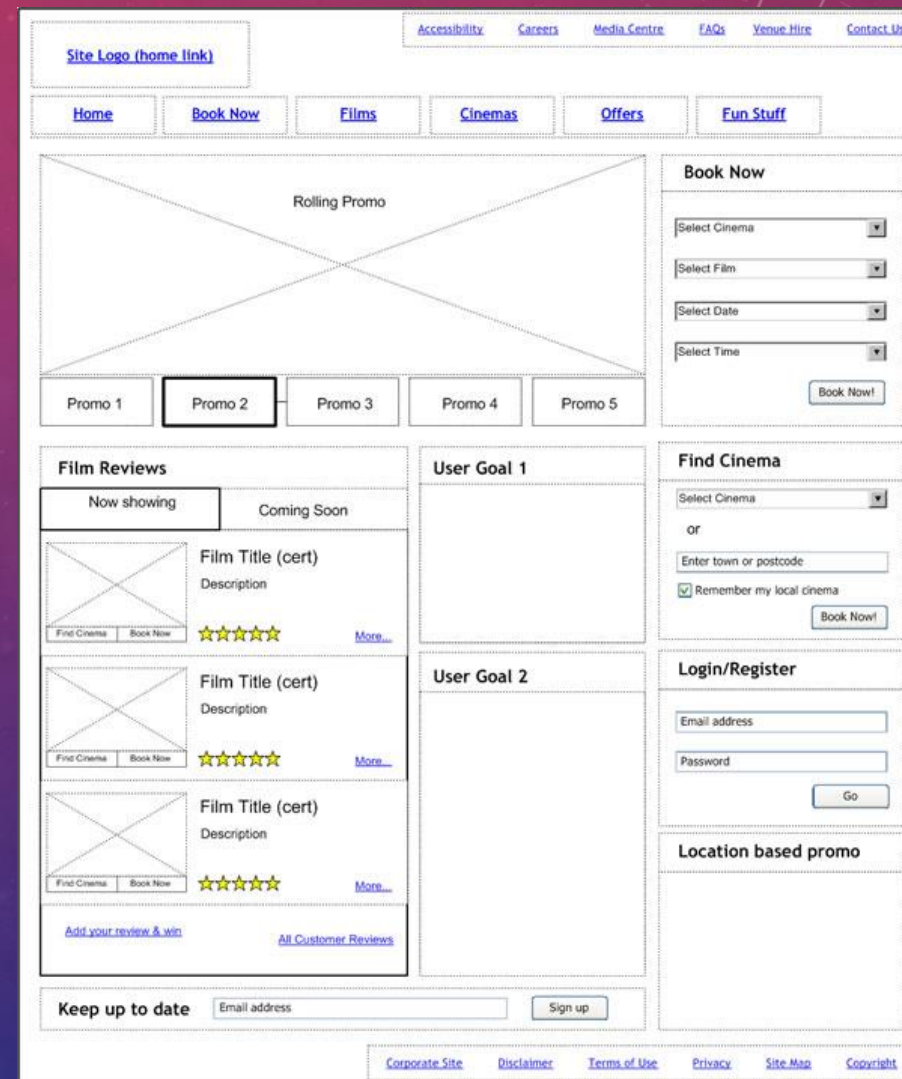
<!-- 25%/75% split on small devices, a 50%/50% split on medium devices, and a 33%/66% split on large and xlarge devices. On extra small devices, it will automatically stack (100%) -->
<div class="row">
  <div class="col-sm-3 col-md-6 col-lg-4">col-sm-3 col-md-6 col-lg-4</div>
  <div class="col-sm-9 col-md-6 col-lg-8">col-sm-9 col-md-6 col-lg-8</div>
</div>
```

Try it Yourself »

以現成套版製作個人頁面

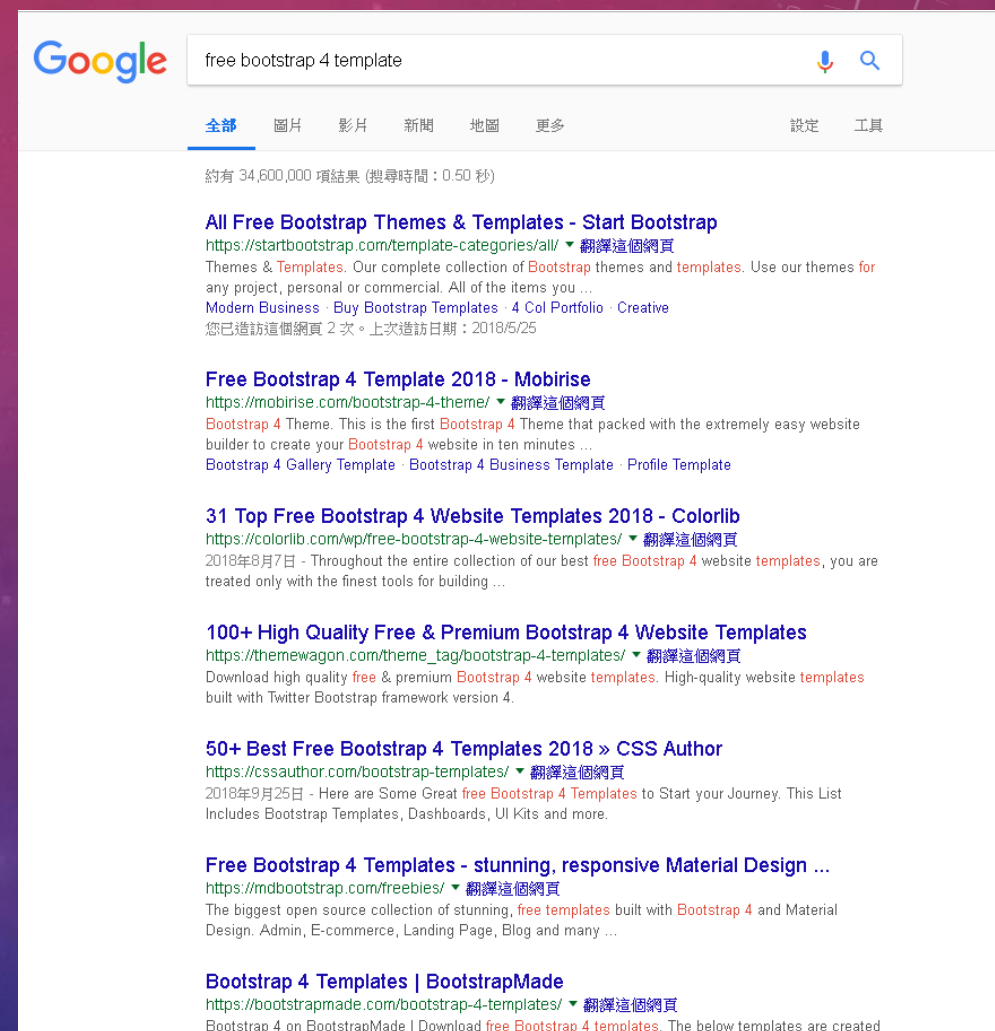
簡易描繪版型 或決定網站類型

- 類型：商業類、學術類、影音？
- 描繪 by Wireframe



找尋免費的版型

- Keyword:
free bootstrap 4 template




選定版型開始客製修改

```
C:\Users\User\Desktop\startbootstrap-resume-pages\index.html - Notepad++
檔案(F) 編輯(E) 搜尋(S) 檢視(V) 格式(O) 語言(L) 設定(T) 工具(O) 巨集(M) 執行(R) 外掛(P) 視窗(W) ?
index.html [3]
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7     <meta name="description" content="">
8     <meta name="author" content="">
9
10    <title>Resume - Start Bootstrap Theme</title>
11
12    <!-- Bootstrap core CSS -->
13    <link href="vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
14
15    <!-- Custom fonts for this template -->
16    <link href="https://fonts.googleapis.com/css?family=Saira+Extra+Condensed:500,700" rel="stylesheet">
17    <link href="https://fonts.googleapis.com/css?family=Muli:400,400i,800,800i" rel="stylesheet">
18    <link href="vendor/fontawesome-free/css/all.min.css" rel="stylesheet">
19
20    <!-- Custom styles for this template -->
21    <link href="css/resume.min.css" rel="stylesheet">
22
23 </head>
24
25 <body id="page-top">
26
27     <nav class="navbar navbar-expand-lg navbar-dark bg-primary fixed-top" id="sideNav">
28         <a class="navbar-brand js-scroll-trigger" href="#page-top">
29             <span class="d-block d-lg-none">Clarence Taylor</span>
30             <span class="d-none d-lg-block">
31                 
32             </span>
33         </a>
34         <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-cont...
35         <span class="navbar-toggler-icon"></span>
```


TEMPLATE OF RESUME


Resume

A clean, simple, yet elegant free resume/CV template for Bootstrap 4.



Create your beautiful portfolio website with Squarespace. Start your free trial.
ads via Carbon

Start Bootstrap / Resume



ABOUT

EXPERIENCE

EDUCATION

SKILLS





INTERESTS

AWARDS

CLARENCE TAYLOR

3242 BERRY STREET - CHRYSTINE WELLS, CO BUBB - (312) 985-9448 - NAME@EMAIL.COM


I am experienced in leveraging agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition.




Live Preview


Download


View Source

 Fork

 Star

445

 Follow @SBootstrap


 Tweet


Description:


Resume is a Bootstrap resume or CV landing page theme to help you beautifully create easy to use, stylish resume websites!

Need Something More?

Try out a premium theme from the brand new **Start Bootstrap Shop!**





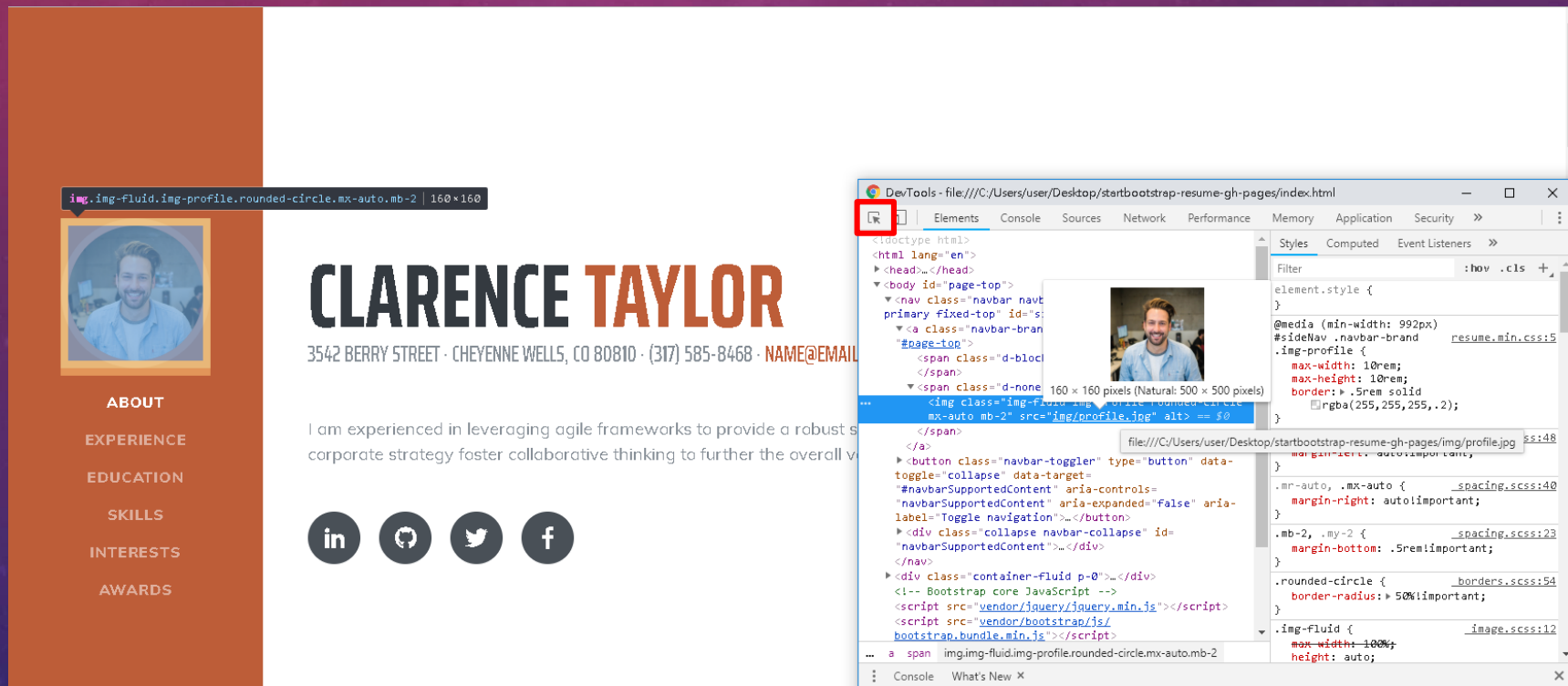
 Welcome to Disqus! Discover more great discussions just like this one. We're a lot more than comments.

Get Started

<https://startbootstrap.com/template-overviews/resume/>

TEMPLATE OF RESUME

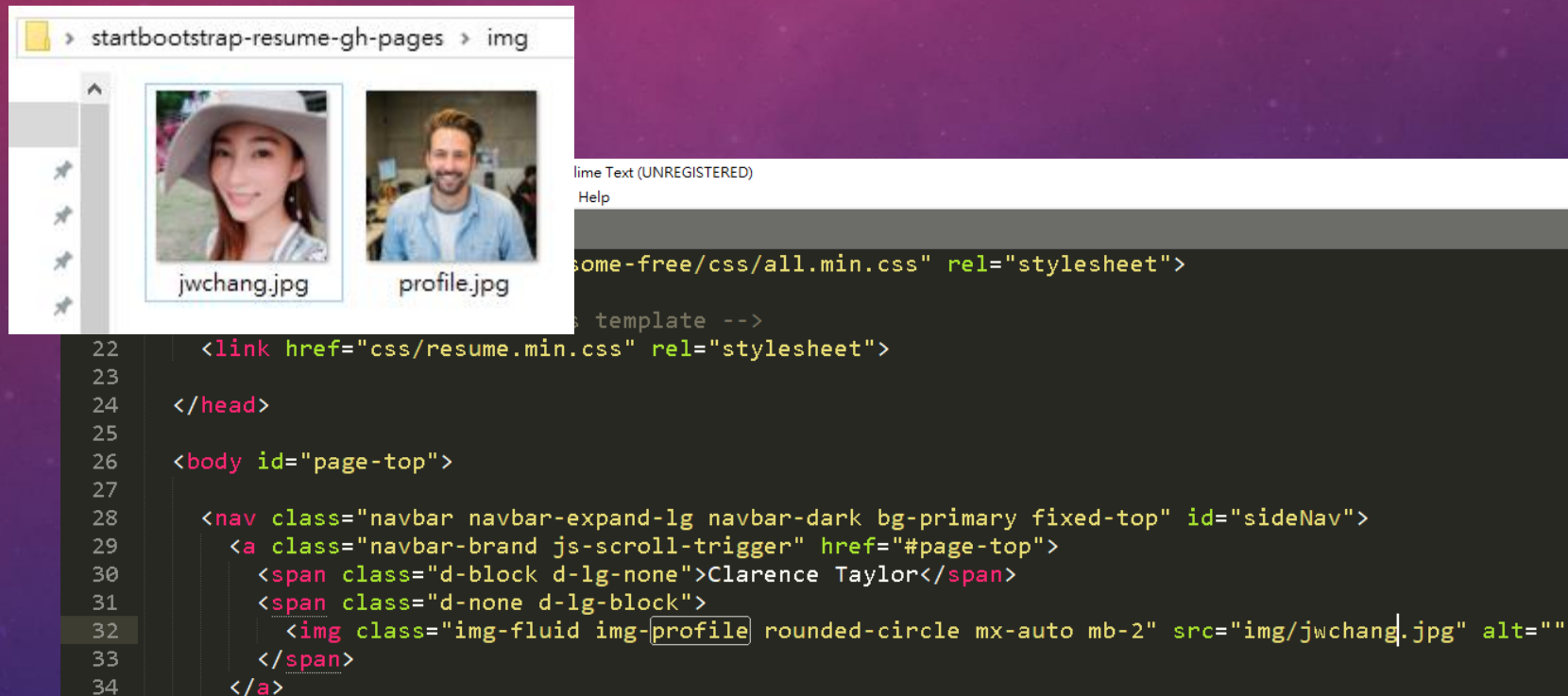
透過Chrome，以F12開啟開發者模式，點擊紅框處後，鼠標移至網頁中的相片位置。開發者模式中即會顯示該張相片的原始碼，並得知圖片尺寸與存放處。



相片位置：`startbootstrap-resume-gh-pages/img/profile.jpg`

TEMPLATE OF RESUME

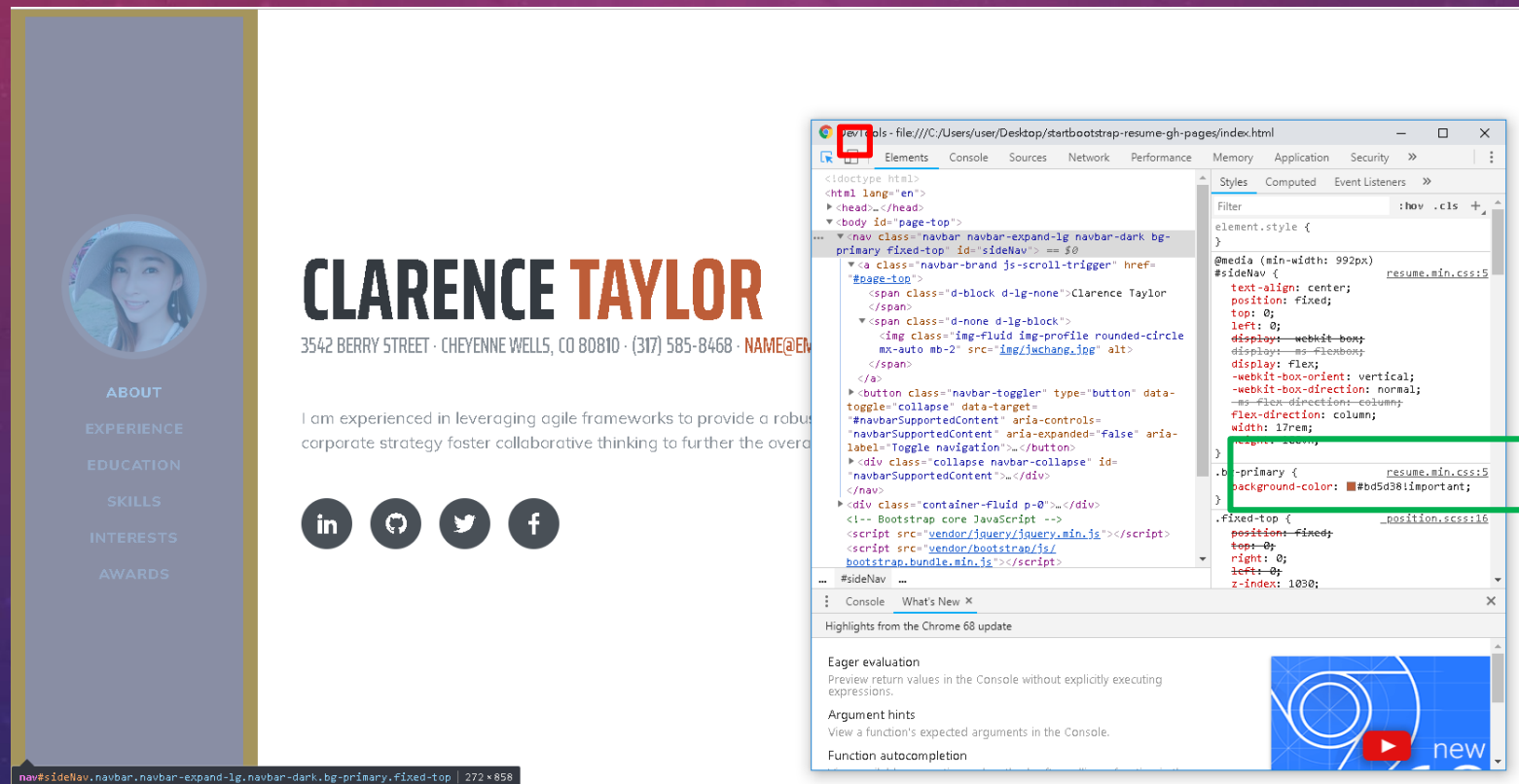
將新圖片依照原始圖檔的比例裁切後，放入與原圖同個資料夾中。並更新 index.html 中原始碼，將照片路徑修改為新圖片的路徑。



更改相片：`startbootstrap-resume-gh-pages/img/jwchang.jpg`

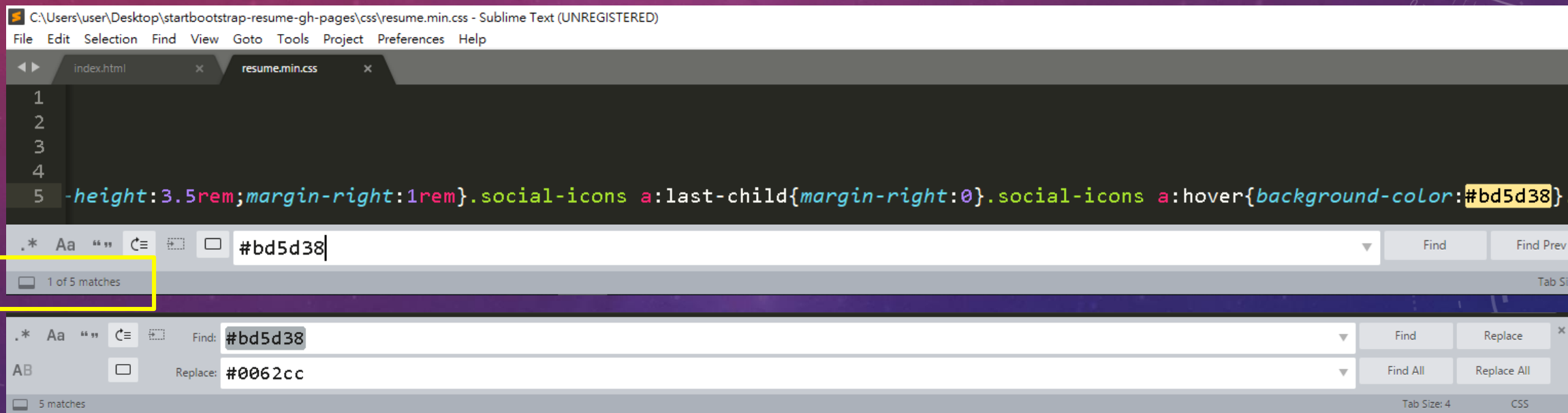
TEMPLATE OF RESUME

透過Chrome，以F12開啟開發者模式，點擊紅框處後，鼠標移至網頁中的左方咖啡色大框中。開發者模式中的綠框中，可得知背景色的色碼為#bd5d38，並該段CSS程式碼寫在 resume.min.css 中。




TEMPLATE OF RESUME

打開 resume.min.css 後，搜尋 #bd5d38，發現主色系有五處設定。以 #0062cc 取代 #bd5d38。



TEMPLATE OF RESUME

主色系變更完成！紅框區塊內文字，請自行變更成你的資料！







- ABOUT
- EXPERIENCE
- EDUCATION
- SKILLS
- INTERESTS
- AWARDS
- PHOTO

JIawei CHANG

3542 BERRY STREET · CHEYENNE WELLS, CO 80810 · (317) 585-8468 · NAME@EMAIL.COM

I am experienced in leveraging agile frameworks to provide a robust synopsis for high level overviews. Iterative approaches to corporate strategy foster collaborative thinking to further the overall value proposition.



TEMPLATE OF RESUME

如左圖，新增一個PHOTO超連結！首先於 index.html 找到 class = "navbar-nav" 的 ，於最後一個複製一個內容，並變更 href = "#photo "，<a>內的文字變更為Photo。



The screenshot shows a resume template with a blue sidebar navigation menu. The menu items are: ABOUT, EXPERIENCE, EDUCATION, SKILLS, INTERESTS, AWARDS, and PHOTO. The PHOTO item is highlighted with a red box. The main content area shows the name JIA, the address 3542 BER, and a LinkedIn icon. The text 'I am exp corporat' is partially visible.

```
38 <div class="collapse navbar-collapse" id="navbarSupportedContent">
39 <ul class="navbar-nav">
40 <li class="nav-item">
41 <a class="nav-link js-scroll-trigger" href="#about">About</a>
42 </li>
43 <li class="nav-item">
44 <a class="nav-link js-scroll-trigger" href="#experience">Experience</a>
45 </li>
46 <li class="nav-item">
47 <a class="nav-link js-scroll-trigger" href="#education">Education</a>
48 </li>
49 <li class="nav-item">
50 <a class="nav-link js-scroll-trigger" href="#skills">Skills</a>
51 </li>
52 <li class="nav-item">
53 <a class="nav-link js-scroll-trigger" href="#interests">Interests</a>
54 </li>
55 <li class="nav-item">
56 <a class="nav-link js-scroll-trigger" href="#awards">Awards</a>
57 </li>
58 <li class="nav-item">
59 <a class="nav-link js-scroll-trigger" href="#photo">Photo</a>
60 </li>
61 </ul>
62 </div>
63 </nav>
```

TEMPLATE OF 2 COL PORTFOLIO

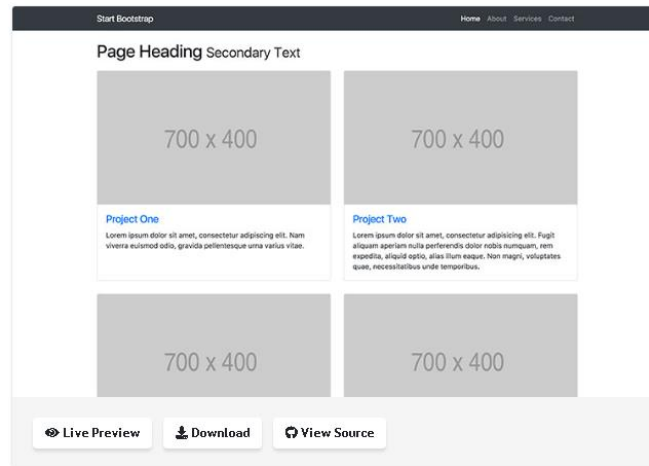
2 Col Portfolio

A basic, two column, portfolio page template perfect for showcasing a group of projects with some details.



The new generation of project management tools is here and it's visual.
ads via Carbon

Start Bootstrap / 2 Col Portfolio



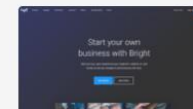
Fork Star 41 Follow @SBootstrap Tweet

Description:

2 Col Portfolio is a basic, unstyled portfolio grid template with a responsive, two column layout. This template is ideal for pages featuring a smaller number of projects with some details.

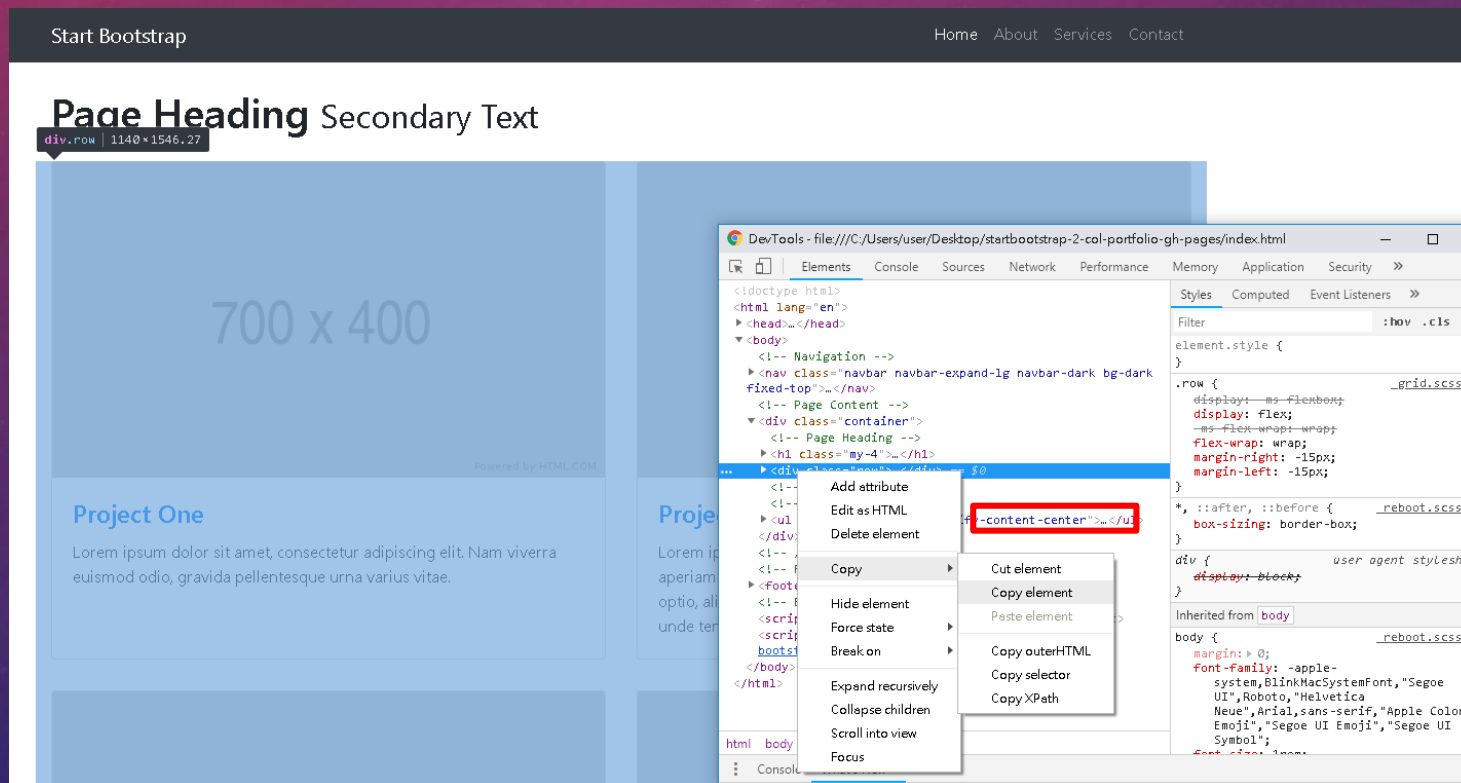
Need Something More?

Try out a premium theme from the brand new **Start Bootstrap Shop!**



TEMPLATE OF 2 COL PORTFOLIO

透過Chrome，以F12開啟開發者模式，鼠標移至原始碼<div class= "container" >處並打開後，可見<div class= "row" >，點右鍵後選擇 Copy element。

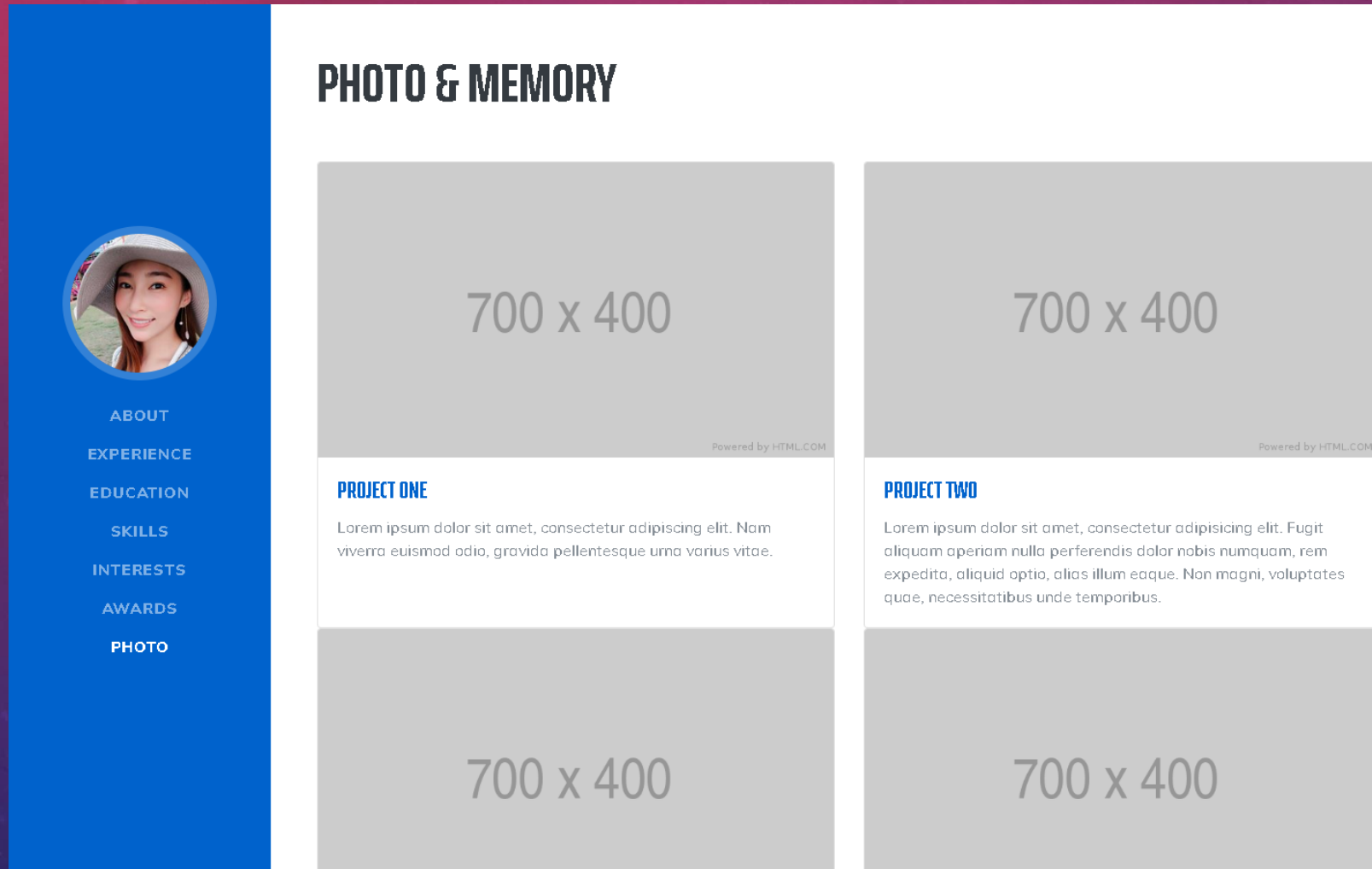


TEMPLATE OF RESUME

1. 開啟 Resume template 的 index.html，找到 `<section class= "resume-section ..." >` 標籤。
2. 選擇 id= "awards" 的 `<section>` 複製一個在最底下。
3. 將新的 `<section>` id 改為 "photo"。
4. 將 `<h2>` 標籤更改為 Photo & Memory。
5. 將上頁複製的程式碼取代並貼下剩餘的原始碼，如紅框。

```
index.html
65 <div class="container-fluid p-0">
66
67 <section class="resume-section p-3 p-lg-5 d-flex d-column" id="about">
91 </section>
92
93 <hr class="m-0">
94
95 <section class="resume-section p-3 p-lg-5 d-flex flex-column" id="experience">
144 </section>
145
146 <hr class="m-0">
147
148 <section class="resume-section p-3 p-lg-5 d-flex flex-column" id="education">
177 </section>
178
179 <hr class="m-0">
180
181 <section class="resume-section p-3 p-lg-5 d-flex flex-column" id="skills">
241 </section>
242
243 <hr class="m-0">
244
245 <section class="resume-section p-3 p-lg-5 d-flex flex-column" id="interests">
251 </section>
252
253 <hr class="m-0">
254
255 <section class="resume-section p-3 p-lg-5 d-flex flex-column" id="awards">
287 </section>
288
289 <section class="resume-section p-3 p-lg-5 d-flex flex-column" id="photo">
290 <div class="my-auto">
291 <h2 class="mb-5">Photo & Memory</h2>
292 <div class="row">
359 </div>
360 <!-- /.row -->
361 </div>
362 </section>
```


完成合并！





THANK YOU

自學資源

- [W3SCHOOLS](https://www.w3schools.com)