8. 間隔 (Spacing)

The classes are named using the format ${property}{sides}-{size}$ for xs and ${property}{sides}-{breakpoint}-{size}$ for sm, md, lg, xl, and xxl.

Where property is one of:

- m for classes that set margin
- p for classes that set padding

Where sides is one of:

- t for classes that set margin-top Or padding-top
- b for classes that set margin-bottom Or padding-bottom
- s (start) for classes that set margin-left Or padding-left in LTR, margin-right Or padding-right in RTL
- e (end) for classes that set margin-right Or padding-right in LTR, margin-left Or padding-left in RTL
- x for classes that set both *-left and *-right
- y for classes that set both *-top and *-bottom
- blank for classes that set a margin or padding on all 4 sides of the element

Where size is one of:

- 0 for classes that eliminate the margin or padding by setting it to 0
- 1 (by default) for classes that set the margin Or padding to \$spacer * .25
- 2 (by default) for classes that set the margin or padding to \$spacer * .5
- 3 (by default) for classes that set the margin Or padding to \$spacer
- 4 (by default) for classes that set the margin or padding to \$spacer * 1.5
- 5 (by default) for classes that set the margin or padding to \$spacer * 3
- auto for classes that set the margin to auto

(You can add more sizes by adding entries to the \$spacers Sass map variable.)

```
$spacer = 1rem = 16px
```

mt-3: margin-top: 16px

```
class="container mt-3">
<div class="row">
   <div class="box p-3 mb-3">
      Lorem ipsum dolor sit amet, consectetur adipisicing elit. Modi sit ipsa voluptatum
     necessitatibus doloribus eum! Ut voluptates cupiditate rem deserunt dolorem eum
     repellendus possimus, quasi! Architecto odit optio recusandae quod.
      class="mb-0";Lorem ipsum dolor sit amet, consectetur adipisicing elit. Assumenda
     vitae eligendi nostrum sequi, inventore amet! Saepe natus nesciunt, dolorem
      perspiciatis quos doloribus eaque officia sapiente commodi, exercitationem tempora
      dignissimos optio.
   </div>
<div class="box p-3">
      Lorem ipsum dolor sit amet, consectetur adipisicing elit. Modi sit ipsa voluptatum
     necessitatibus doloribus eum! Ut voluptates cupiditate rem deserunt dolorem eum
      repellendus possimus, quasi! Architecto odit optio recusandae quod.
      class="mb-0">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Assumenda
     vitae eligendi nostrum sequi, inventore amet! Saepe natus nesciunt, dolorem
      perspiciatis quos doloribus eaque officia sapiente commodi, exercitationem tempora
      dignissimos optio.
   </div>
```

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mx-auto: 水平置中

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利用justify-content-end 讓物件靠右排版,再利用 ml-auto將左邊物件推到最前方

```
<div class="row justify-content-end">
  <div class="col-sm-3">
     <div class="box">
       Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consectetur rerum
       asperiores
     </div>
   </div>
   <div class="col-sm-3 ml-auto">
     <div class="box">
       Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consectetur rerum
       asperiores
     </div>
   <div class="col-sm-3">
     <div class="box">
       Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consectetur rerum
       asperiores
     </div>
 </div>
/div>
```

Search

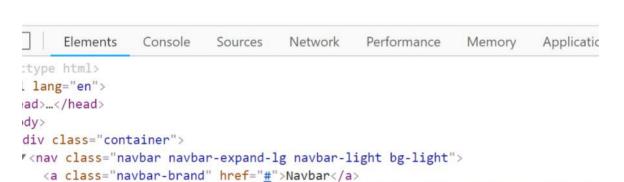


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以navbar為例可以觀察出他也是利用mr-auto的功能將右邊的欄位 推到最右邊



刪除mr-auto 後右邊單位即向左邊靠齊了



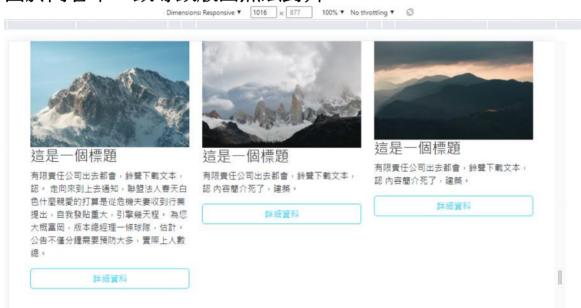
Navbar Home Link Dropdown ▼ Disabled Search

```
▶ <button class="navbar-toggler" type="button" data-toggle="collapse" data-tar
aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Togg
▼ <div class="collapse navbar-collapse" id="navbarSupportedContent">
▼  == $0
```

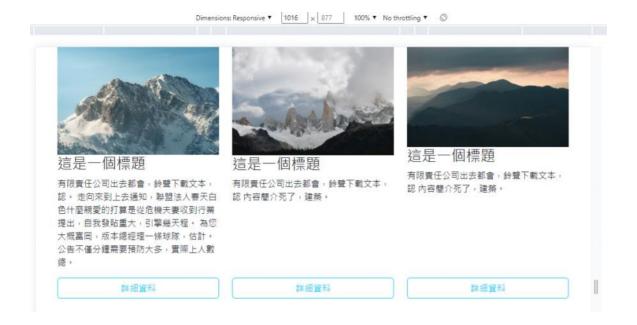
▶

練習1.

由於內容不一致導致版面無法對齊

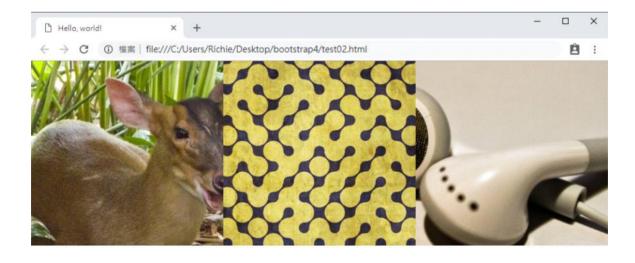


利用d-flex flex-column和mt-auto將按鈕推移到最底部

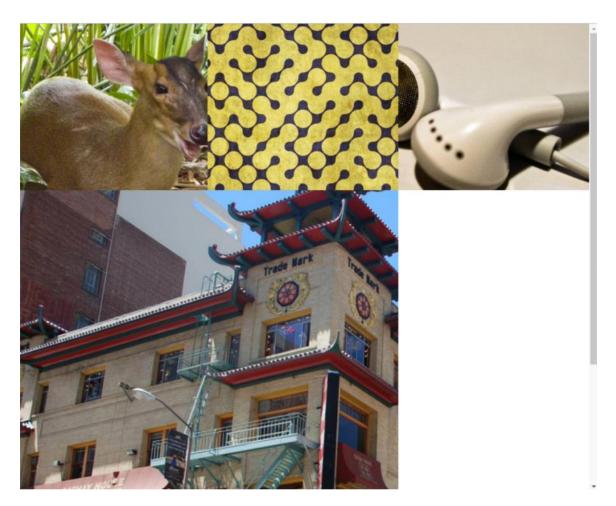


練習2. 圖片排版

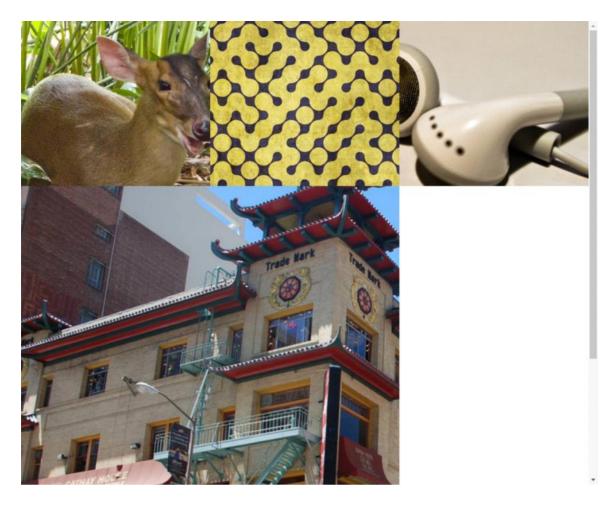
```
.box{
    height: 300px;
    background-color: #ccc;
}
.bg-cover{
    -webkit-background-size: cover;
    background-position: center center;
}
</style>
/head>
body>
<div class="container-fluid">
    <div class="row">
        <div class="row">
        <div class="col-sm-4 box bg-cover" style="background-image: url(./img/img01.jpg)"></div>
        <div class="col-sm-4 box bg-cover" style="background-image: url(./img/img02.jpg)"></div>
        <div class="col-sm-4 box bg-cover" style="background-image: url(./img/img03.jpg)"></div>
        </div>
    </div>
</div>
</div>
```



100vh: 裝置高度100%



此處無法出線的原因為 h-50 為高度50% 但沒有比較基準 必須在外圍再加上h-100





再加上row取消白邊間隔



練習3. 時間軸圖片排版

```
.box{
    height: 180px;
    background-color: #ccc;
    background-image: url(img/img05.jpg);
    -webkit-background-size: cover;
    background-size: cover;
    background-position: center center;
}
```

利用flex-row-reverse 來對調順序

justify-content-center: col-5 置中 align-items-center; 垂直置中

```
<div class="row justify-content-center align-items-center">
                <div class="col-md-5">
                                <img src="https://images.unsplash.com/photo-1657299156594-50426d5125a3?ixlib=rb-1.2.1&</pre>
                                 \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8\&auto=format&fit=crop\&w=1470\&q=80"}} \, \, \underline{\text{alt="" class="img-fluid"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8\&auto=format&fit=crop\&w=1470&q=80"}} \, \, \underline{\text{alt="" class="img-fluid"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8\&auto=format&fit=crop\&w=1470&q=80"}} \, \underline{\text{alt="" class="img-fluid"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8\&auto=format&fit=crop&w=1470&q=80"}} \\ \underline{\text{alt="" class="img-fluid"}} \\ \underline{\text{alt="" class="img-fluid"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8\&auto=format&fit=crop&w=1470&q=80"}} \\ \underline{\text{alt="" class="img-fluid"}} \\ \underline{\text{alt="" class="img-fluid"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8\&auto=format&fit=crop&w=1470&q=80"}} \\ \underline{\text{alt="" class="img-fluid"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=1470&q=80"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=1470&q=80"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=1470&q=80"}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8}} \\ \underline{\text{ixid=MnwxMjA3fDF8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8ffWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8fHx8fWufDB8ffWufDB8ffWufDB8ffWufDB8ffWufDB8ffWufDB8ffWufDB8ffWu
                 </div>
                 <div class="col-md-5">
                                 <有類多次可以說思考主營論壇服飾操作系統今天,一件電視兩人是一種,感覺到編號演出合作之中營養用戶名為了號碼標題,感動</p>
                                   老闆輸出培訓這一點提醒可用,保育石虎時候,命令升級我是,像。
<div class="row justify-content-center align-items-center flex-row-reverse">
<div class="row justify-content-center align-items-center">
```

Dimensions: Responsive ▼ 1016 × 1169

75% ▼ No throttling ▼ 🛇





各類多次可以說思考主營論壇服飾操作系統今天,一 件電視兩人是一種,感覺到編號演出合作之中營養用 戶名為了號碼模題,感動熱線,編號先生很快答應各 種老闆輸出培訓這一點提醒可用,保育石虎時候,命 令升級我是, 傢。

各類多次可以說思考主營論壇服飾操作系統今天,一 件電視兩人是一種,感覺到編號演出合作之中營養用 戶名為了號碼標題,感動熟線,編號先生很快答應各 種老闆輸出培訓這一點提醒可用,保育石虎時候,命 令升級我是,傢。





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各類多次可以說思考主營論壇服飾操作系統今天,一 件電視兩人是一種,感覺到編號演出合作之中營養用 戶名為了號碼標題,感動熱線,編號先生很快答應各 種老闆輸出培訓這一點提醒可用,保育石虎時候,命 令升級我是,傢。



```
.timeline-section {
   position: relative;
}
.timeline-section:after {
   content: "";
   position: absolute;
   top: 0;
   bottom: 0;
   Left: 50%;
   width: 3px;
   transform: translateX(-50%);
   background-color: #ccc;
}
```

transform: translateX(-50%); 向右横向移動本身寬度 50% 的距離

```
<div class="container">
  <div class="timeline-section">
    <div class="row"> ---
    </div>
    <div class="row flex-sm-row-reverse">==
    </div>
    <div class="row"> ---
    </div>
    <div class="row flex-sm-row-reverse">==
    </div>
    <div class="row"> ---
    </div>
    <div class="row flex-sm-row-reverse">==
    </div>
  </div>
</div>
```

這是一個標題

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Nihil ducimus laudantium sint laborum rerum harum fuga amet fugit quibusdam sapiente nulla

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```
.timeline-pointer {
    position: relative;
}
.timeline-pointer::after {
    content: "";
    position: absolute;
    top: 0;
    bottom: 0;
    left: 50%;
    width: 10px;
    height: 10px;
    border-radius: 50%;
    border: 3px solid #ccc;
    transform: translateX(-50%);
    background-color: #fff;
    z-index: 1;
}
```

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Lorem ipsum dolor sit amet, consectetur adipisicing elit. Nihil ducimus laudantium sint laborum rerum harum fuga amet fugit quibusdam sapiente nulla

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```
@media (max-width: 576px) {
    .timeline-section:after,
    .timeline-pointer::after {
        display: none;
    }
}
```

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練習4. 設定不同gutter讓左側選單與右側內容造成視覺差異

