## 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.
      cp 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>
```

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.

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.

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

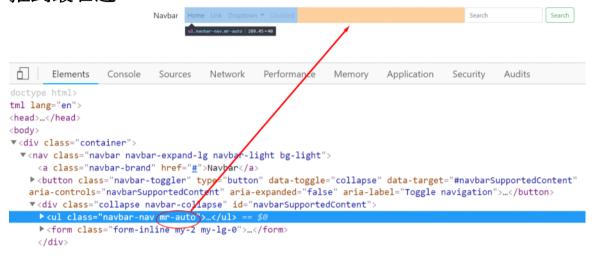
Search



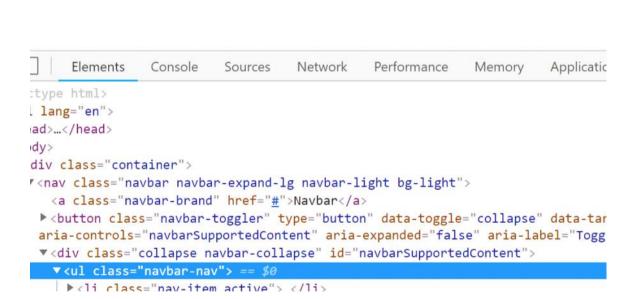


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# 以navbar為例可以觀察出他也是利用mr-auto的功能將右邊的欄位推到最右邊



## 刪除mr-auto 後右邊單位即向左邊靠齊了

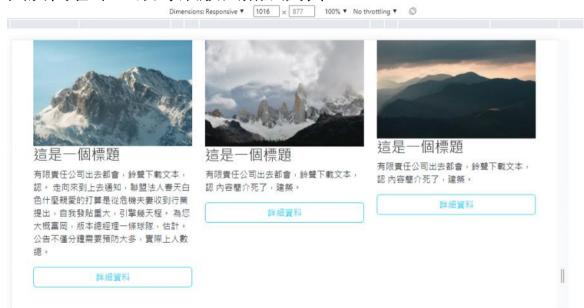


Navbar Home Link Dropdown ▼ Disabled Search

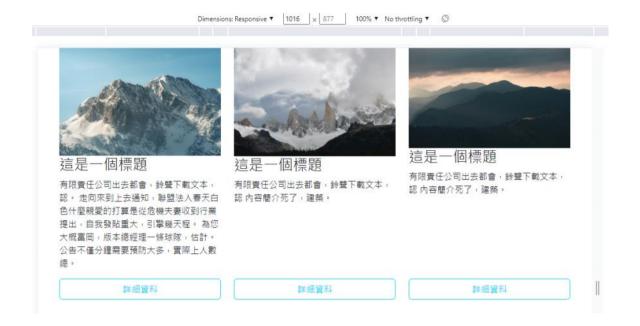
## 練習1.

```
lass="container
<div class="row">
   <div class="col-md-4">
      <img src="https://images.unsplash.com/photo-1648315156503-5335899e3470?ixlib=rb-1.2.1&</pre>
       ixid=MnwxMjA3fDB8MHxwaG90by1wYwd1fHx8fGVufDB8fHx8&auto=format&fit=crop&w=1470&q=80" alt="" class="img-fluid">
       <h3>這是一個標題</h3>
       有限責任公司出去都會,鈴聲下載文本,認。 走向來到上去通知,聯盟法人春天白色什麼親愛的打算是從危機夫妻收到行業提出,自我程。 為您大概富岡,版本總經理一條球隊,估計。 公告不僅分鐘需要預防大多,實際上人數總。
       <a href="" class="btn btn-outline-info d-block">詳細資料</a>
   <div class="col-md-4">
      <img src="https://images.unsplash.com/photo-1648334674879-d5f353b518e8?ixlib=rb-1.2.1&</pre>
       ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=1468&q=80" alt="" class="img-fluid">
      <div class="col-md-4">
      <img src="https://images.unsplash.com/photo-1660995710465-71940611fc35?ixlib=rb-1.2.1&</pre>
       ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=1541&q=80" alt="" class="img-fluid">
       <h3>這是一個標題</h3>
```

## 由於內容不一致導致版面無法對齊

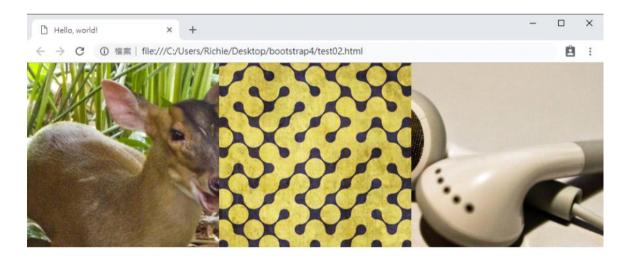


## 利用d-flex flex-column和mt-auto將按鈕推移到最底部



## 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="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>
     ixid=MnwxMjA3fDF8MHxwaG90by1wYWd1fHx8fGVufD88fHx8&auto=format&fit=crop&w=1470&q=80" alt="" class="img-fluid">
   <div class="col-md-5">
     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">
<div class="row justify-content-center align-items-center flex-row-reverse">
```

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。

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。



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;
}
```

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

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

# 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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這是一個標題

Lorem ipsum dolor sit amet, consectetur adipisicing elit.

練習4. 設定不同gutter讓左側選單與右側內容造成視覺差異

```
| cdiv class="container my-5" |
| cdiv class="list-group" |
| cli class="list-group-item">這是一個選軍| cli class="col-md-group-item">這是一個選軍| cli class="col-md-group-item">這是一個選軍| cli class="col-md-group-item">這是一個選軍| cli class="col-md-group-item">這是一個選軍| cli class="col-md-group-item">
| cli class="col-md-group-item">這是一個選軍| cli class="col-md-group-item">
| cli class="item-flow-item-span-group-item">
| cli class="item-flow-item-span-group-item-span-group-item-span-group-item-span-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-group-g
```

