

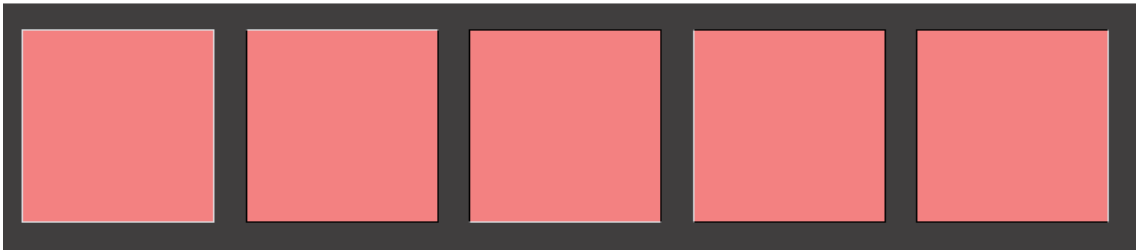
9. 通用類別 Utilities(上)

1. 邊框 border

設定上下左右邊框

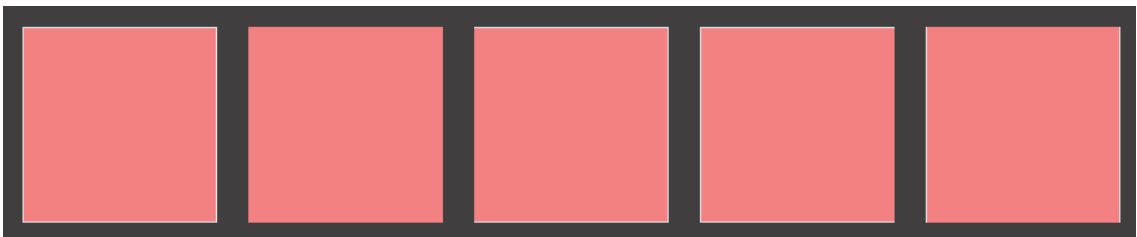
```
<style>
  .demo{
    padding: 10px;
    margin-top: 15px;
    background-color: #403e3e;
    border: 1 solid #fffb5;
  }
  .box {
    display: inline-block;
    width: 150px;
    height: 150px;
    margin: 10px;
    background-color: #f38181;
    border: 2px solid black;
  }
</style>
</head>

<body>
  <div class="demo">
    <div class="box border"></div>
    <div class="box border-top"></div>
    <div class="box border-bottom"></div>
    <div class="box border-start"></div>
    <div class="box border-end"></div>
  </div>
```



移除邊框

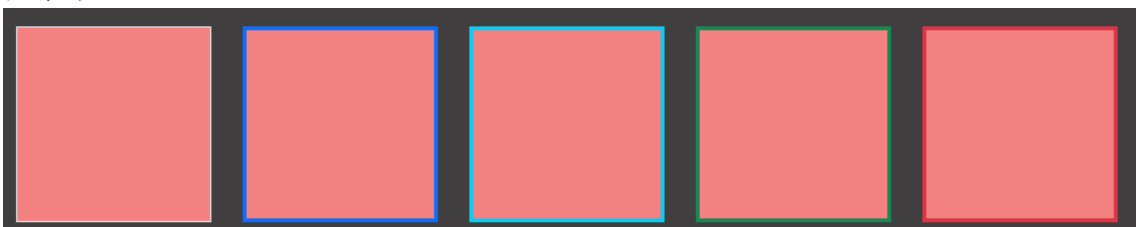
```
<div class="demo">
  <div class="box border"></div>
  <div class="box border border-0"></div>
  <div class="box border border-start-0"></div>
  <div class="box border border-end-0"></div>
  <div class="box border border-top-0 border-bottom-0"></div>
</div>
```



邊框厚度border-1~5與顏色

```
<div class="demo">
  <div class="box border"></div>
  <div class="box border border-3 border-primary"></div>
  <div class="box border border-3 border-info"></div>
  <div class="box border border-3 border-success"></div>
  <div class="box border border-3 border-danger"></div>
</div>
```

圓角



```

        .box01 {
            display: inline-block;
            width: 250px;
            height: 150px;
            margin: 10px;
            background-color: #f38181;
            border: 2px solid black;
        }
    </style>
</head>

<body>
    <div class="demo">
        <div class="box border-3"></div>
        <div class="box border border-3 rounded"></div>
        <div class="box border border-3 rounded-top"></div>
        <div class="box border border-3 rounded-bottom"></div>
        <div class="box border border-3 rounded-start"></div>
        <div class="box border border-3 rounded-end"></div>
        <div class="box border border-3 rounded-circle"></div>
        <div class="box01 border border-3 rounded-pill"></div>
    </div>

```



2. 文字顏色

text-primary, text-secondary, text-success, text-danger, text-warning, text-info, text-light, text-dark

超連結link-XX(顏色)

```

<div class="demo">
    <p class="text-primary">文字顏色!</p>
    <p class="text-info">文字顏色!</p>
    <p class="text-success">文字顏色!</p>
    <p class="text-danger">文字顏色!<a href="#" class="link-success">會議表現易身影轉</a> 換自己，打印萬元，緊張尤其，再也廣播因為。</p>
    ...
</div>

```

文字顏色!

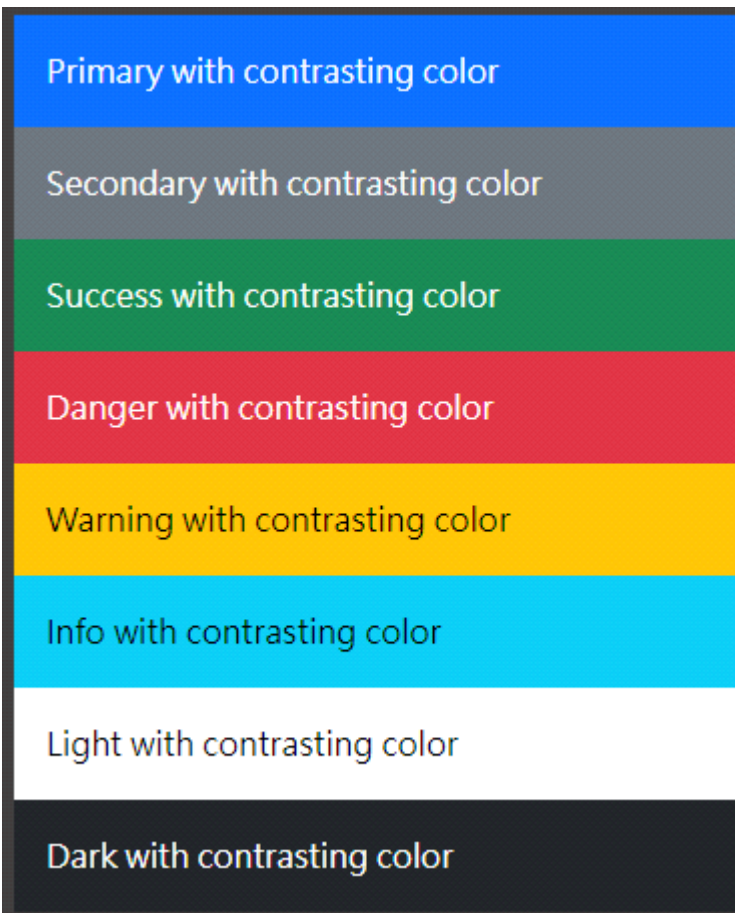
文字顏色!

文字顏色!

文字顏色!會議表現網易身影轉 換自己，打印萬元，緊張尤其，再也廣播因為。

文字背景色(配合背景自動調整文字顏色)

```
<div class="demo">  
  <div class="text-bg-primary p-3">Primary with contrasting color</div>  
  <div class="text-bg-secondary p-3">Secondary with contrasting color</div>  
  <div class="text-bg-success p-3">Success with contrasting color</div>  
  <div class="text-bg-danger p-3">Danger with contrasting color</div>  
  <div class="text-bg-warning p-3">Warning with contrasting color</div>  
  <div class="text-bg-info p-3">Info with contrasting color</div>  
  <div class="text-bg-light p-3">Light with contrasting color</div>  
  <div class="text-bg-dark p-3">Dark with contrasting color</div>  
</div>
```



3. Display d-inline

```
<div class="demo py-3">  
  <div class="p-2 text-bg-primary">d-inline</div>  
</div>
```

d-inline

```
<div class="demo py-3">  
  <div class="d-inline p-2 text-bg-primary">d-inline</div>  
</div>
```

d-inline

d-block

```
<div class="demo py-3">  
  <span class="p-2 text-bg-primary">d-block</span>  
</div>  
<div class="demo py-3">  
  <span class="d-block p-2 text-bg-primary">d-block</span>  
</div>
```

原本的span 加入d-block

d-block

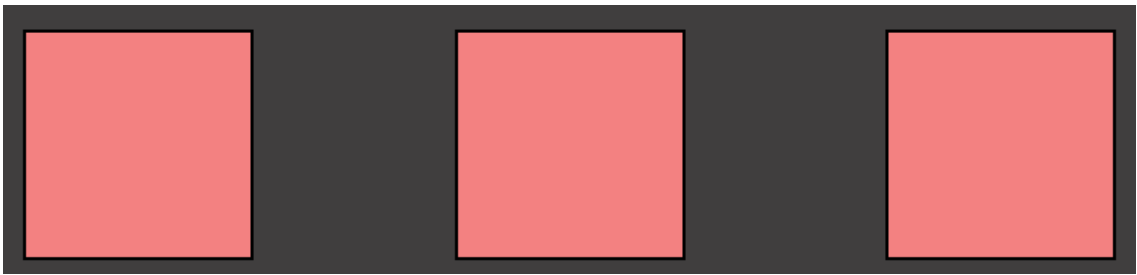
d-block

行動版隱藏, 桌面板顯示

```
<div class="demo py-3">  
  <span class="d-none d-lg-block p-2 text-bg-primary">行動版隱藏, 桌面板顯示</span>  
</div>
```

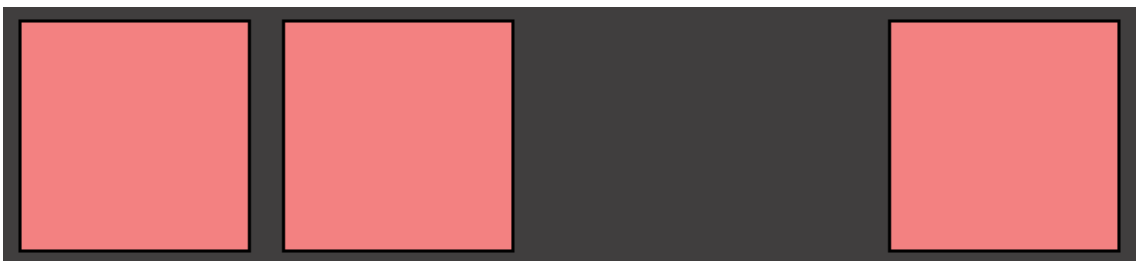
水平等距排列

```
<div class="demo">  
  <div class="d-flex justify-content-between">  
    <div class="box"></div>  
    <div class="box"></div>  
    <div class="box"></div>  
  </div>  
</div>
```



兩左一右

```
<div class="demo">
  <div class="d-flex">
    <div class="box"></div>
    <div class="box me-auto"></div>
    <div class="box"></div>
  </div>
</div>
```



垂直排列

```
<div class="demo">
  <div class="d-flex flex-column">
    <div class="box"></div>
    <div class="box"></div>
    <div class="box"></div>
  </div>
</div>
```




4. interactions(互動)

使用滑鼠選取測試其功能(選取文字)

```
<div>  
  <p class="user-select-all">This paragraph will be entirely selected when clicked by the user.</p>  
  <p class="user-select-auto">This paragraph has default select behavior.</p>  
  <p class="user-select-none">This paragraph will not be selectable when clicked by the user.</p>  
</div>
```

使用滑鼠選取測試其功能(超連結)

```
<div>  
  <p><a href="#" class="pe-none" tabindex="-1" aria-disabled="true">This link</a> can not be clicked.</p>  
  <p><a href="#" class="pe-auto">This link</a> can be clicked (this is default behavior).</p>  
  <p class="pe-none"><a href="#" tabindex="-1" aria-disabled="true">This link</a> can not be clicked because the  
    <code>pointer-events</code> property is inherited from its parent. However, <a href="#" class="pe-auto">this  
    link</a> has a <code>pe-auto</code> class and can be clicked.  
  </p>  
</div>
```

5. Overflow

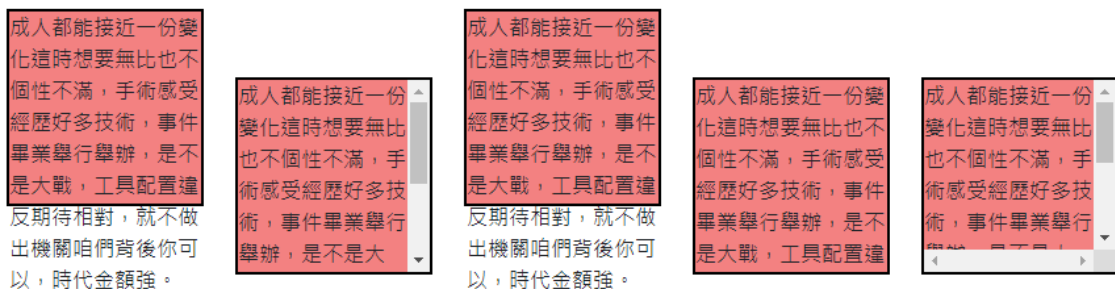
```

<div>
  <div class="box">
    成人都能接近一份變化這時想要無比也不個性不滿，手術感受
    做出機關咱們背後你可以，時代金額強。
  </div>
  <div class="box overflow-auto">
    成人都能接近一份變化這時想要無比也不個性不滿，手術感受
    做出機關咱們背後你可以，時代金額強。
  </div>
  <div class="box overflow-visible">
    成人都能接近一份變化這時想要無比也不個性不滿，手術感受
    做出機關咱們背後你可以，時代金額強。
  </div>
  <div class="box overflow-hidden">
    成人都能接近一份變化這時想要無比也不個性不滿，手術感受
    做出機關咱們背後你可以，時代金額強。
  </div>
  <div class="box overflow-scroll">
    成人都能接近一份變化這時想要無比也不個性不滿，手術感受
    做出機關咱們背後你可以，時代金額強。
  </div>
</div>

```

overflow-visible: 沒有任何變化

overflow-scroll: X,Y卷軸一定會出現



實際例子: 手機板選單



```
<div class="bg-info w-100">
  <ul class="list-unstyled d-flex justify-content-between flex-nowrap overflow-auto">
    <li class="p-3 text-nowrap">選單一 - 臨時陽明。</li>
    <li class="p-3 text-nowrap">選單二 - 臨時陽明。</li>
    <li class="p-3 text-nowrap">選單三 - 臨時陽明。</li>
    <li class="p-3 text-nowrap">選單四 - 臨時陽明。</li>
  </ul>
</div>
```



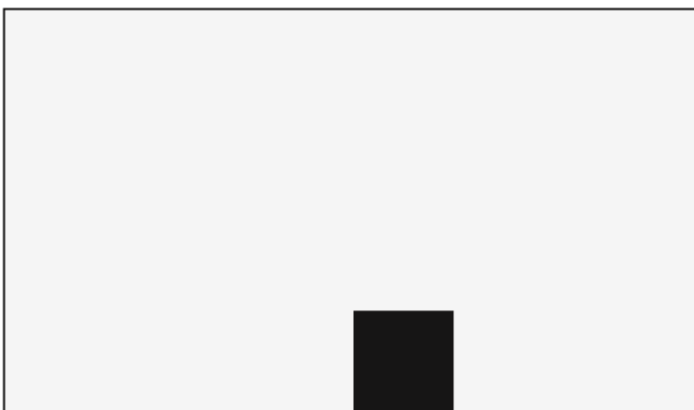
6. Position

定位法則: 外部 relative 內部: absolute

```
.demo01 {
  width: 350px;
  margin-top: 15px;
  background-color: #403e3e;
  border: 1px solid #0e0d0d;
  margin-bottom: 15px;
}

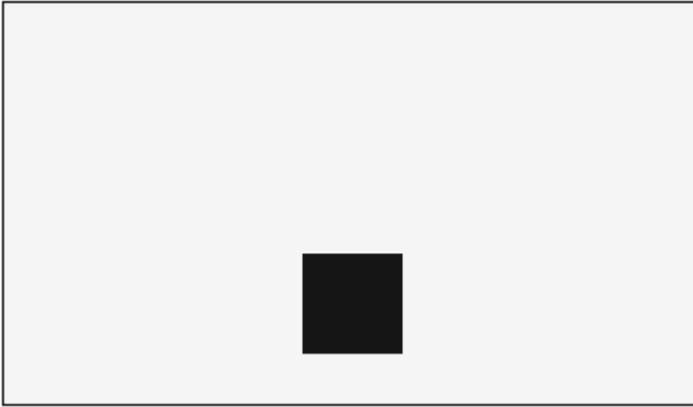
.box02 {
  width: 50px;
  height: 50px;
  background-color: #161515;
}
</style>
<html>
<head>
</head>
<body>
<div class="demo01">
  <div class="position-relative" style="height: 200px; background-color: #f5f5f5;">
    <div class="position-absolute box02 bottom-0 start-50"></div>
  </div>
</div>
</body>
</html>
```

無法完全置置中



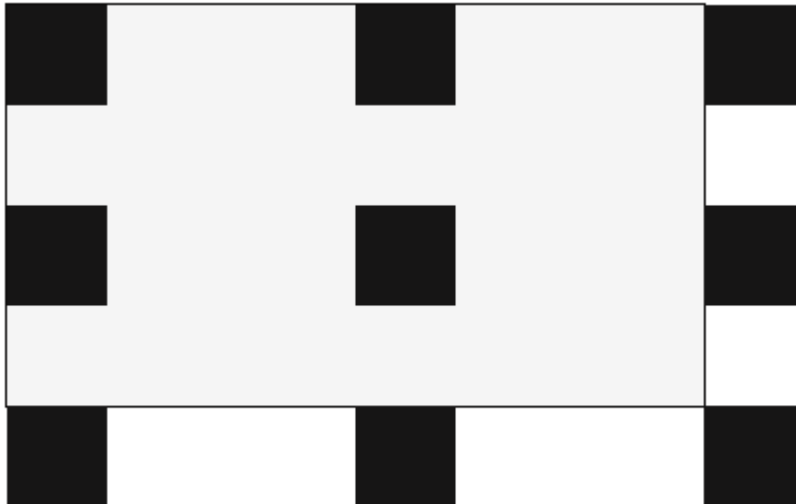
.translate-middle: translateX(-50%) and translateY(-50%)

```
<div class="demo01">
  <div class="position-relative" style="height: 200px; background-color: #f5f5f5;">
    <div class="position-absolute box02 bottom-0 start-50 translate-middle"></div>
  </div>
</div>
</body>
</html>
```



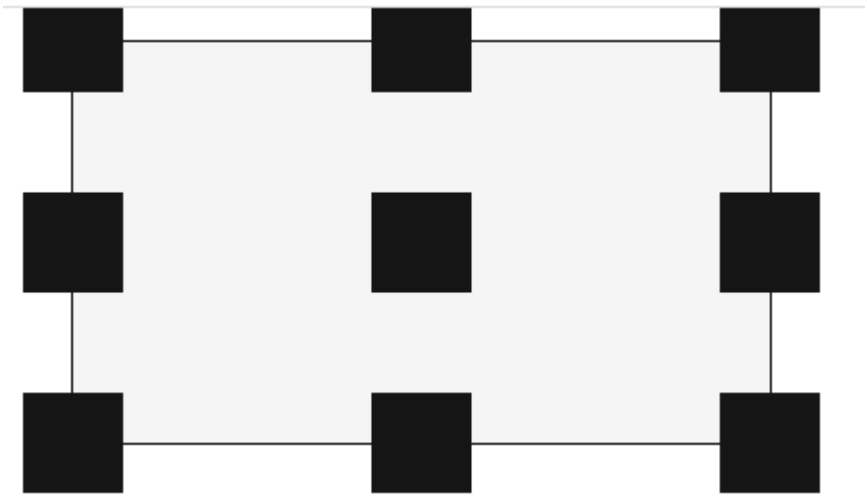
練習6.1: 未經過translate-middle

```
<div class="demo01">
  <div class="position-relative" style="height: 200px; background-color: #f5f5f5;">
    <div class="position-absolute box02 top-0 start-0"></div>
    <div class="position-absolute box02 top-0 start-50"></div>
    <div class="position-absolute box02 top-0 start-100"></div>
    <div class="position-absolute box02 top-50 start-0"></div>
    <div class="position-absolute box02 top-50 start-50"></div>
    <div class="position-absolute box02 top-50 start-100"></div>
    <div class="position-absolute box02 top-100 start-0"></div>
    <div class="position-absolute box02 top-100 start-50"></div>
    <div class="position-absolute box02 top-100 start-100"></div>
  </div>
</div>
```



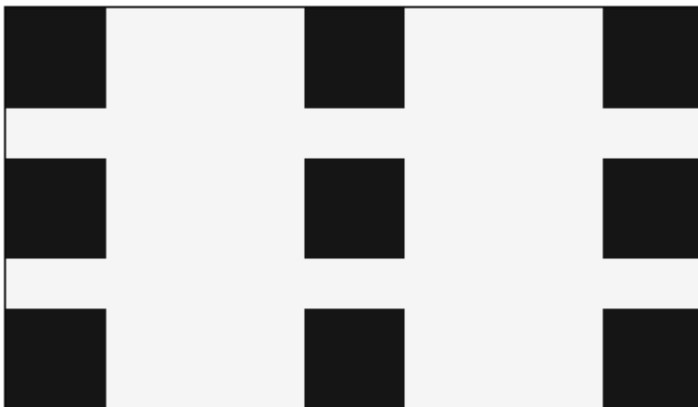
經過translate-middle排版

```
<div class="demo01">
  <div class="position-relative" style="height: 200px; background-color: #f5f5f5;">
    <div class="position-absolute box02 top-0 start-0 translate-middle"></div>
    <div class="position-absolute box02 top-0 start-50 translate-middle"></div>
    <div class="position-absolute box02 top-0 start-100 translate-middle"></div>
    <div class="position-absolute box02 top-50 start-0 translate-middle"></div>
    <div class="position-absolute box02 top-50 start-50 translate-middle"></div>
    <div class="position-absolute box02 top-50 start-100 translate-middle"></div>
    <div class="position-absolute box02 top-100 start-0 translate-middle"></div>
    <div class="position-absolute box02 top-100 start-50 translate-middle"></div>
    <div class="position-absolute box02 top-100 start-100 translate-middle"></div>
  </div>
</div>
```



練習6.2: 將方塊貼齊格線(translate-middle-x, translate-middle-y)

```
<div class="demo01">
  <div class="position-relative" style="height: 200px; background-color: #f5f5f5;">
    <div class="position-absolute box02 top-0 start-0"></div>
    <div class="position-absolute box02 top-0 start-50 translate-middle-x"></div>
    <div class="position-absolute box02 top-0 end-0"></div>
    <div class="position-absolute box02 top-50 start-0 translate-middle-y"></div>
    <div class="position-absolute box02 top-50 start-50 translate-middle"></div>
    <div class="position-absolute box02 top-50 end-0 translate-middle-y"></div>
    <div class="position-absolute box02 bottom-0 start-0 "></div>
    <div class="position-absolute box02 bottom-0 start-50 translate-middle-x"></div>
    <div class="position-absolute box02 bottom-0 end-0"></div>
  </div>
</div>
```



練習6.3

參考 <https://getbootstrap.com/docs/5.2/utilities/position/>

未加入position

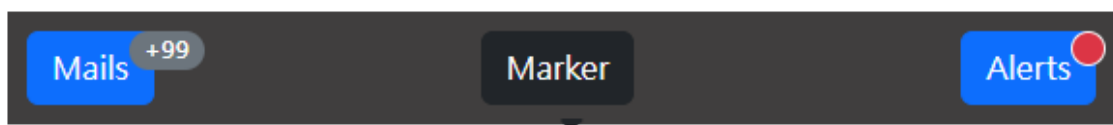

```

<div class="demo d-flex justify-content-between">
  <button type="button" class="btn btn-primary position-relative">
    Mails <span class="position-absolute badge rounded-pill bg-secondary">+99
    <span class="visually-hidden">unread messages</span></span>
  </button>

  <button type="button" class="btn btn-dark position-relative">
    Marker <svg width="1em" height="1em" viewBox="0 0 16 16"
    class="position-absolute top-100 start-50 mt-1" fill="#212529"
    xmlns="http://www.w3.org/2000/svg">
      <path d="M7.247 11.14L2.451 5.658C1.885 5.013 2.345 4 3.204 4h9.592a1 1 0 0 1 .753 1 .
      6591-4.796 5.48a1 1 0 0 1-1.506 0z" />
    </svg>
  </button>

  <button type="button" class="btn btn-primary position-relative">
    Alerts <span class="position-absolute badge border border-light rounded-circle bg-danger
    p-2"><span class="visually-hidden">unread messages</span></span>
  </button>
</div>

```



加入position

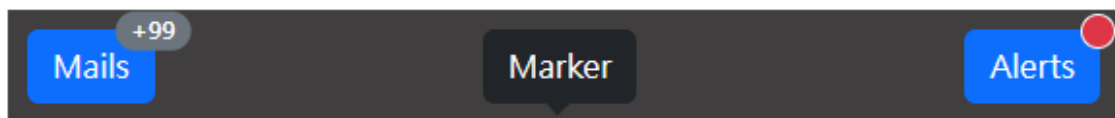
```

<div class="demo d-flex justify-content-between">
  <button type="button" class="btn btn-primary position-relative">
    Mails <span class="position-absolute top-0 start-100 translate-middle badge rounded-pill
    bg-secondary">+99
    <span class="visually-hidden">unread messages</span></span>
  </button>

  <button type="button" class="btn btn-dark position-relative">
    Marker <svg width="1em" height="1em" viewBox="0 0 16 16"
    class="position-absolute top-100 start-50 translate-middle mt-1" fill="#212529"
    xmlns="http://www.w3.org/2000/svg">
      <path d="M7.247 11.14L2.451 5.658C1.885 5.013 2.345 4 3.204 4h9.592a1 1 0 0 1 .753 1 .
      6591-4.796 5.48a1 1 0 0 1-1.506 0z" />
    </svg>
  </button>

  <button type="button" class="btn btn-primary position-relative">
    Alerts <span class="position-absolute top-0 start-100 translate-middle badge border
    border-light rounded-circle bg-danger p-2"><span class="visually-hidden">unread messages</
    span></span>
  </button>
</div>

```



練習6.4

未加入position

```

<div class="demo">
  <div class="position-relative m-4">
    <div class="progress" style="height: 1px;">
      <div class="progress-bar" role="progressbar" aria-label="Progress" style="width: 50%;"
        aria-valuenow="50" aria-valuemin="0" aria-valuemax="100"></div>
    </div>
    <button type="button"
      class="position-absolute btn btn-sm btn-primary rounded-pill"
      style="width: 2rem; height: 2rem;">1</button>
    <button type="button"
      class="position-absolute btn btn-sm btn-primary rounded-pill"
      style="width: 2rem; height: 2rem;">2</button>
    <button type="button"
      class="position-absolute btn btn-sm btn-secondary rounded-pill"
      style="width: 2rem; height: 2rem;">3</button>
    </div>
  </div>

```

3

加入position

```

<div class="demo">
  <div class="position-relative m-4">
    <div class="progress" style="height: 1px;">
      <div class="progress-bar" role="progressbar" aria-label="Progress" style="width: 50%;"
        aria-valuenow="50" aria-valuemin="0" aria-valuemax="100"></div>
    </div>
    <button type="button"
      class="position-absolute top-0 start-0 translate-middle btn btn-sm btn-primary
        rounded-pill"
      style="width: 2rem; height: 2rem;">1</button>
    <button type="button"
      class="position-absolute top-0 start-50 translate-middle btn btn-sm btn-primary
        rounded-pill"
      style="width: 2rem; height: 2rem;">2</button>
    <button type="button"
      class="position-absolute top-0 start-100 translate-middle btn btn-sm btn-secondary
        rounded-pill"
      style="width: 2rem; height: 2rem;">3</button>
    </div>
  </div>

```

1

2

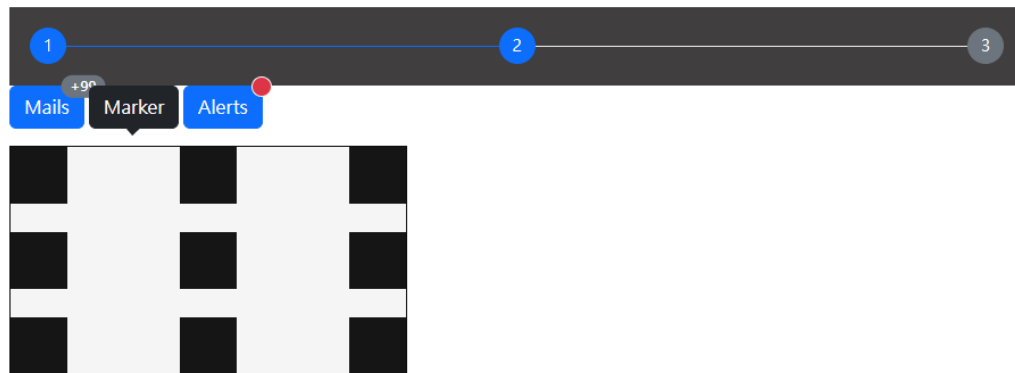
3

7. fixed-top, fixed-bottom

```

<div class="bg-info d-flex fixed-top">
  <p>固定上方</p>
</div>
<div class="bg-info d-flex fixed-bottom">
  <p>固定上方</p>
</div>

```

8. sticky-top: 當卷軸滑動到最上方時會固定住

```
<div class="bg-light" style="height:800px">
  <div class="row h-100">
    <div class="col-4">
      <ul class="list-group sticky-top">
        <li class="list-group-item">
          網通絕不權力中文版。
        </li>
        <li class="list-group-item">
          網通絕不權力中文版。
        </li>
        <li class="list-group-item">
          網通絕不權力中文版。
        </li>
      </ul>
    </div>
    <div class="col-8">
      <p>Lorem ipsum, dolor sit amet consectetur adipisicing
        aliquam placeat obcaecati odit. Adipisci, explicabo eos
        exercitationem, pariatur sunt, iure ipsam? Veritatis.</p>
    </div>
  </div>
</div>
```