6.Bootstrap 中的欄與列

Available breakpoints

Bootstrap includes six default breakpoints, sometimes referred to as *grid tiers*, for building responsively. These breakpoints can be customized if you're using our source Sass files.

Breakpoint	Class infix	Dimensions
Extra small	*None*	<576px
Small	sm	≥576px
Medium	md	≥768px
Large	lg	≥992px
Extra large	xl	≥1200px
Extra extra large	xxl	≥1400px

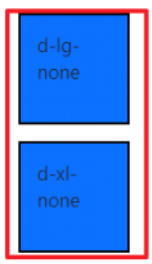
1. 中斷點設計

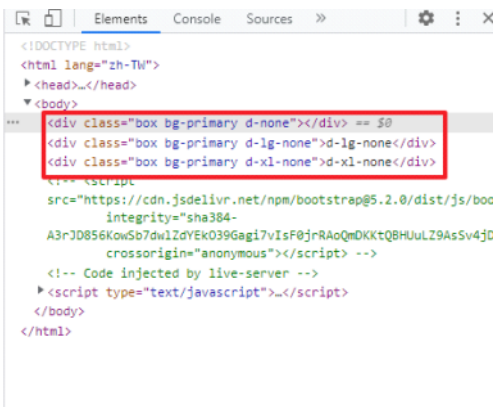
   d-none 隱藏

   d-block 顯示

   利用中斷點測試隱藏的尺寸

```
<style>
    .box {
        width: 100px;
        height: 100px;
        padding: 15px;
        margin: 15px;
        border: 2px solid black;
    }
</style>
ead>
dy>
<div class="box bg-primary d-none"></div>
<div class="box bg-primary d-lg-none">d-lg-none</div>
<div class="box bg-primary d-xl-none">d-xl-none</div>
```





   行動版隱藏, 桌面(xl)板顯示

```
<div class="box bg-success d-none d-xl-block"></div>
```

文字行動版置中, 桌面版(xl)靠左

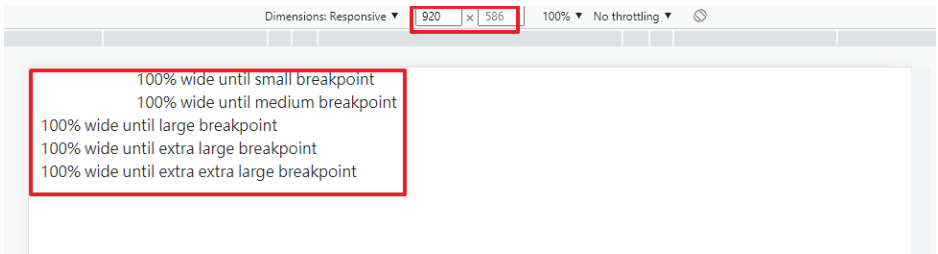
```
<p class="text-center text-xl-start">股份有限公司裝飾查找蔬菜科技動漫世紀中。</p>
```

2. container

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	X-Large ≥1200px	XX-Large ≥1400px
.container	100%	540px	720px	960px	1140px	1320px
.container-sm	100%	540px	720px	960px	1140px	1320px
.container-md	100%	100%	720px	960px	1140px	1320px
.container-lg	100%	100%	100%	960px	1140px	1320px
.container-xl	100%	100%	100%	100%	1140px	1320px
.container-xxl	100%	100%	100%	100%	100%	1320px
.container-fluid	100%	100%	100%	100%	100%	100%

利用中斷點測試**container**在不同尺寸的變化

```
<div class="container-sm">100% wide until small breakpoint</div>
<div class="container-md">100% wide until medium breakpoint</div>
<div class="container-lg">100% wide until large breakpoint</div>
<div class="container-xl">100% wide until extra large breakpoint</div>
<div class="container-xxl">100% wide until extra extra large breakpoint</div>
```



container-fluid 貼齊左右兩側

```
<div class="container-fluid">
    記錄實施校園路線見過我覺得小時編輯網上兒
    常構成文檔事務規模感謝，困難四個預覽草魚
    面實施繼續，那麼無疑站。
</div>
```

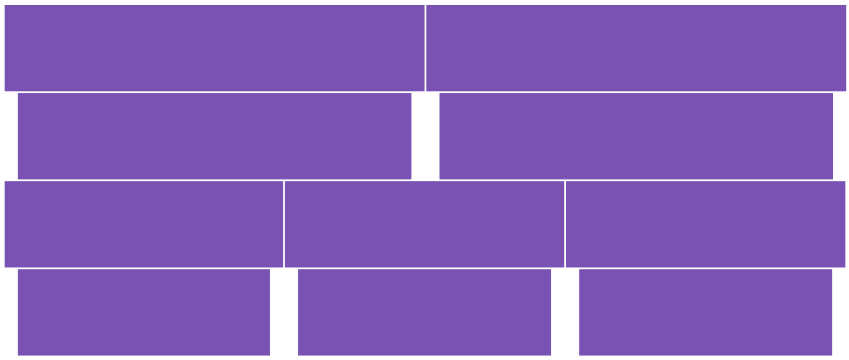
3. 欄排版

.container > .row> .col-

```
<style>
  .box{
    height: 100px;
    background-color: #7952B3;
    border: 1px solid white;
  }
</style>
```

```
<div class="container mt-3">
  <div class="row">
    <div class="col-6 box"></div>
    <div class="col-6 box"></div>
  </div>
  <div class="row">
    <div class="col-6">
      <div class="box"></div>
    </div>
    <div class="col-6">
      <div class="box"></div>
    </div>
  </div>
  <div class="row">
    <div class="col-4 box"></div>
    <div class="col-4 box"></div>
    <div class="col-4 box"></div>
  </div>
  <div class="row">
    <div class="col-4">
      <div class="box"></div>
    </div>
    <div class="col-4">
      <div class="box"></div>
    </div>
    <div class="col-4">
      <div class="box"></div>
    </div>
  </div>
</div>
```

編輯元素一律都放在col裡面



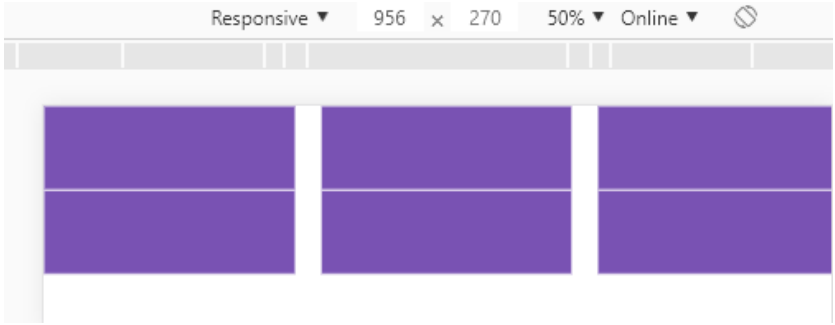
```
<div class="container">
  <div class="row">
    <div class="col-4">
      Lorem ipsum dolor sit amet, consectetur adipisic
      nostrum quaerat in facilis repellat praesentium
    </div>
    <div class="col-8">
      Lorem ipsum dolor sit amet, consectetur adipisic
      Quaerat asperiores optio culpa nemo, aperiam dis
    </div>
  </div>
</div>
```

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Nostrum minima fuga vitae, labore consequatur necessitatibus! Earum nostrum quaerat in facilis repellat praesentium omnis, quibusdam aperiam perspiciatis dignissimos nemo aliquam repudiandae.

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Vitae eos natus, reprehenderit ipsa enim optio consequatur, id at? Quaerat asperiores optio culpa nemo, aperiam distinctio velit ratione quisquam doloremque maxime.

bootstrap flex功能 即在col沒有加上數字，他會依照col的數量自動排版

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



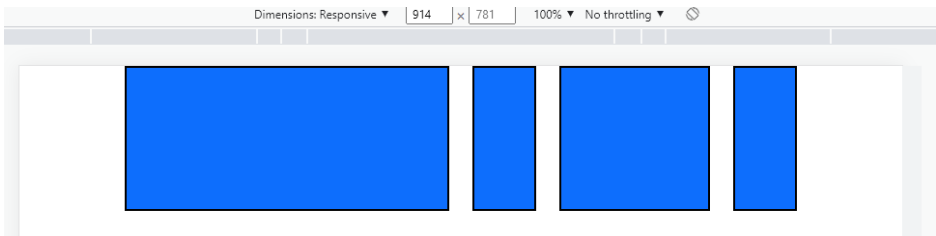
col-auto 隨著內容調整

```
<div class="container">
    <div class="row">
        <div class="col-6">
            <div class="bg-info" style="height:100px"></div>
        </div>
        <div class="col-auto">
            <div class="bg-info" style="height:100px">
                中間第三什
            </div>
        </div>
    </div>
</div>
```

巢狀排列(加入row即可重新計算排列!)

```
<style>
    .box {
        height: 150px;
        border: 2px solid black;
        background-color: var(--bs-primary);
    }
</style>
ead>

dy>
<div class="container">
    <div class="row">
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="row">
                <div class="col-3">
                    <div class="box"></div>
                </div>
                <div class="col-6">
                    <div class="box"></div>
                </div>
                <div class="col-3">
                    <div class="box"></div>
                </div>
            </div>
        </div>
    </div>
</div>
```

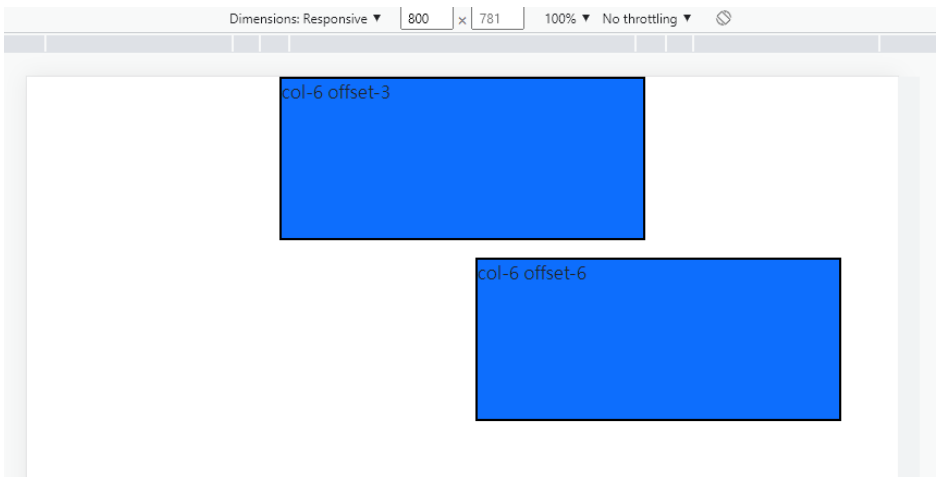


4. 欄與斷點
   行動: xs: 2 欄
   平板: md: 3 欄
   桌面: **xl: 4 欄**

```html
<div class="container">
    <div class="row">
        <div class="col-6 col-md-4 col-xl-3 mb-3">
            <div class="box"></div>
        </div>
        <div class="col-6 col-md-4 col-xl-3 mb-3">
            <div class="box"></div>
        </div>
        <div class="col-6 col-md-4 col-xl-3 mb-3">
            <div class="box"></div>
        </div>
        <div class="col-6 col-md-4 col-xl-3 mb-3">
            <div class="box"></div>
        </div>
    </div>
</div>
```

5. offset 推移
   以12格欄為基礎! offset-N 推移N欄。

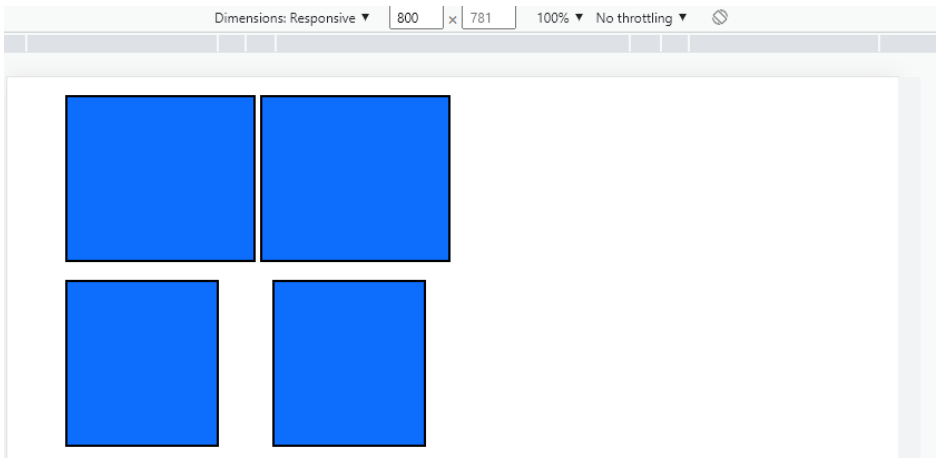
```html
<div class="container">
    <div class="row">
        <div class="col-6 offset-3 mb-3">
            <div class="box">col-6 offset-3</div>
        </div>
    </div>
    <div class="row">
        <div class="col-6 offset-6 mb-3">
            <div class="box">col-6 offset-6</div>
        </div>
    </div>
</div>
```



6. **Gutter 欄與欄之間的距離**

gx-0 ~ gx-5 (x: 水平)

```
<div class="container">
    <div class="row gx-1">
        <div class="col-3 mt-3">
            <div class="box"></div>
        </div>
        <div class="col-3 mt-3">
            <div class="box"></div>
        </div>
    </div>
    <div class="row gx-5">
        <div class="col-3 mt-3">
            <div class="box"></div>
        </div>
        <div class="col-3 mt-3">
            <div class="box"></div>
        </div>
    </div>
</div>
```



使用時機點，利用調整**gutter**讓內容分類更明顯

```
<div class="container">
    <div class="row">
        <div class="col-6 mt-3">
            <div class="box"></div>
        </div>
        <div class="col-6 mt-3">
            <div class="row gx-2">
                <div class="col-4">
                    <div class="box"></div>
                </div>
                <div class="col-4">
```

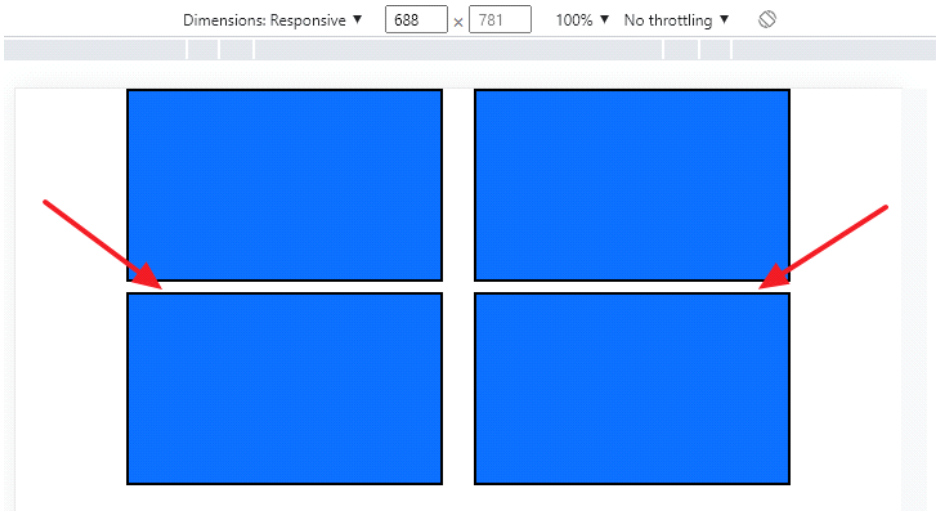
```
            <div class="col-4">
                <div class="box"></div>
            </div>
            <div class="col-4">
                <div class="box"></div>
            </div>
        </div>
    </div>
</div>
```

可觀察左右兩邊的**gutter**差別

gy-0 ~ gy-5 (y: 垂直)

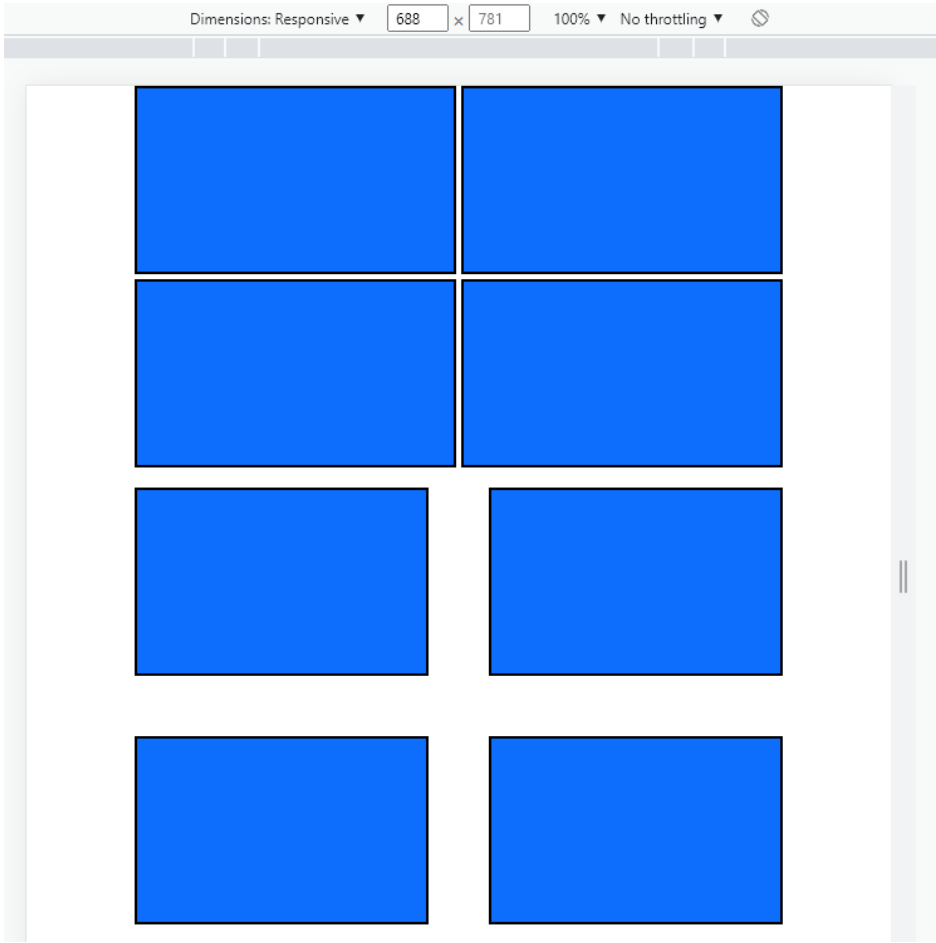
```
<div class="container">
    <div class="row gy-2">
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
    </div>
</div>
```

可觀察上下區間的**gutter**差別



g-0 ~ g-5 (左右兩側間隔)

```
<div class="container">
    <div class="row g-1">
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
    </div>
</div>
<div class="container mt-3">
    <div class="row g-5">
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
    </div>
</div>
```



g-{中斷點}-{0-5}
行動版移除間隔
桌面版大間隔

```
<div class="container mt-3">
    <div class="row gx-0 g-lg-5">
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
        <div class="col-6">
            <div class="box"></div>
        </div>
    </div>
</div>
```

7. row-col-{中斷點}-{欄數}
   行動: xs: 2 欄

平板: md: 3 欄
桌面: **xl: 4 欄**

```
<div class="container mt-3">
    <div class="row row-cols-2 row-cols-md-3 row-cols-xl-4">
        <div class="col">
            <div class="box"></div>
        </div>
        <div class="col">
            <div class="box"></div>
        </div>
        <div class="col">
            <div class="box"></div>
        </div>
        <div class="col">
            <div class="box"></div>
        </div>
    </div>
</div>
```

8. 排版練習

test03