



**Bootstrap** 

網格系統

- .container (1200px) | .container-fluid

-row

**■.col** 

中斷點

	Extra small <576px	Small ≥576px	<b>Medium</b> ≥768px	<b>Large</b> ≥992px	Extra large ≥1200px				
Max container width	None (auto)	540px	720px	960px	1140px				
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-				
# of columns	12								
Gutter width	30px (15px on each side of a column)								
Nestable	Yes								
Column ordering	Yes								

col-12													
со	I-1	col-1											
	col-2 col-2		I-2	col-2		col-2		col-2		col-2			
	col-3			col-3		col-3			col-3				
col-4					col-4				col-4				
	col-5						col-7						
	col-6						col-6						
	col (自動)												

- ≠ 使用前需使用.row
- .col-中斷點-欄位數
- **.col-**欄位數

```
▶ 中斷點 (行動優先)
                              // Small devices (landscape phones, 576px and up)
■XS (省略)
                              @media (min-width: 576px) { ... }
                              // Medium devices (tablets, 768px and up)
 sm
                              @media (min-width: 768px) { ... }
 \rightarrow md
                              // Large devices (desktops, 992px and up)
                              @media (min-width: 992px) { ... }
   lg
                              // Extra large devices (large desktops, 1200px and up)
 \mathbf{x}
                              @media (min-width: 1200px) { ... }
           lg
   \mathbf{x}
                    md
                              sm
                                                XS
        桌上電腦 平板 手機橫放
                                              手機
```

1200px 992px 768px 575px

- ●範例
  - div class="container">
    - **→**<div class="row">
      - ►<div class="col-中斷點-欄位數"></div>
      - **...**
    - **■**</div>
  - **-**</div>

#### **Layout-Gutters**

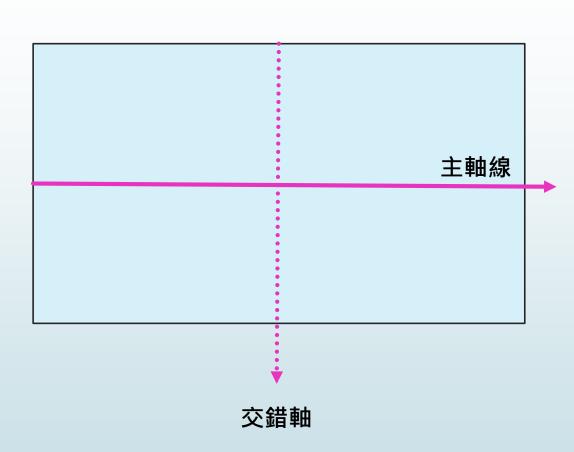
- ■間距使用方法
  - **▶.col** > 子標籤
- **■**.col 間距修正方式 (預設padding: 0 15px;)
  - ■.p-數字
  - ▶.p-中斷點-數字
  - **■.**no-gutters
- **■** .container > .row
  - **■.**container ( padding : 0 15px; )
  - ightharpoonup.row ( margin : 0 -15px; )

#### **CSS3 Flexbox**

**►** Flex 外容器與內元件 外容器 (Container) 內元件 (item) 龍晟科技有限公司

## CSS3 Flex 外容器屬性

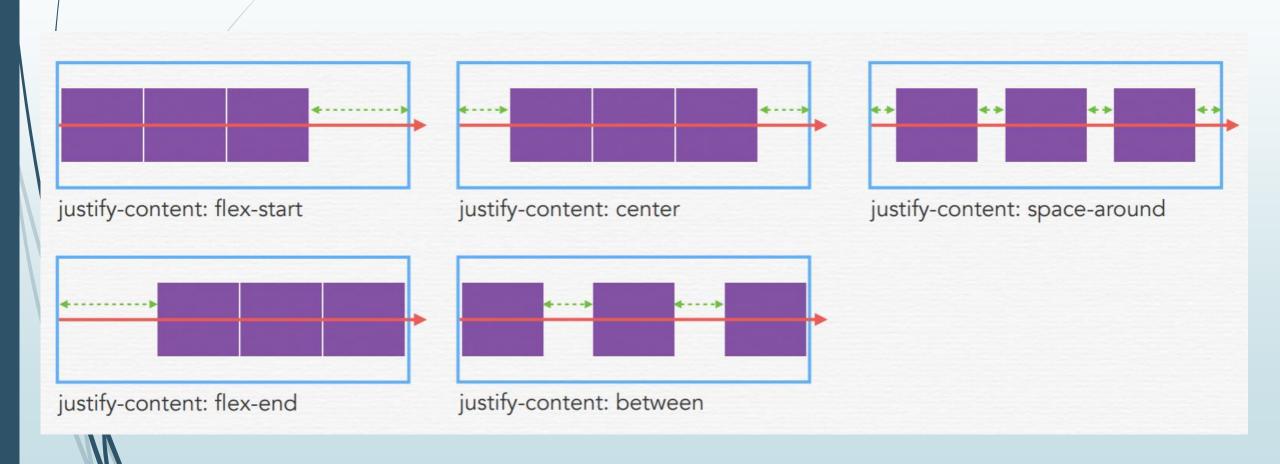
- display : flex
  - **flex-direction** (主軸線)
    - **row**
    - **■**row-reverse
    - **■**column
    - **column-reverse**
  - ► flex-wrap (換行)
    - **■**nowrap
    - **■**wrap
    - **■**wrap-reverse
- **■** justify-content (主軸線對齊)
  - **flex-start** | **flex-end** | **center** | **space-between** | **space-around**
- align-items (交錯軸對齊)
  - **flex-start** | **flex-end** | **center** | **baseline** | **stretch**



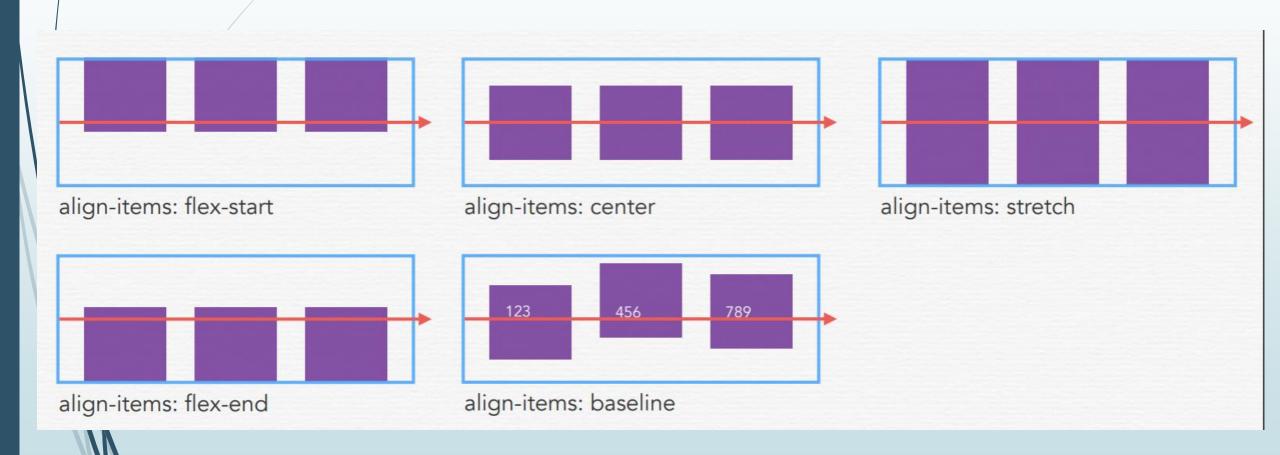
## CSS3 Flex 內元件屬性

- **■** flex
  - ●flex-grow (等分)
  - ➡flex-shrink (元件的收縮性)
  - ➡flex-basis (元件的基準值)
- align-self (交錯軸對齊)
  - **■** auto | flex-start | flex-end | center | baseline | stretch
- order
  - ▶數值

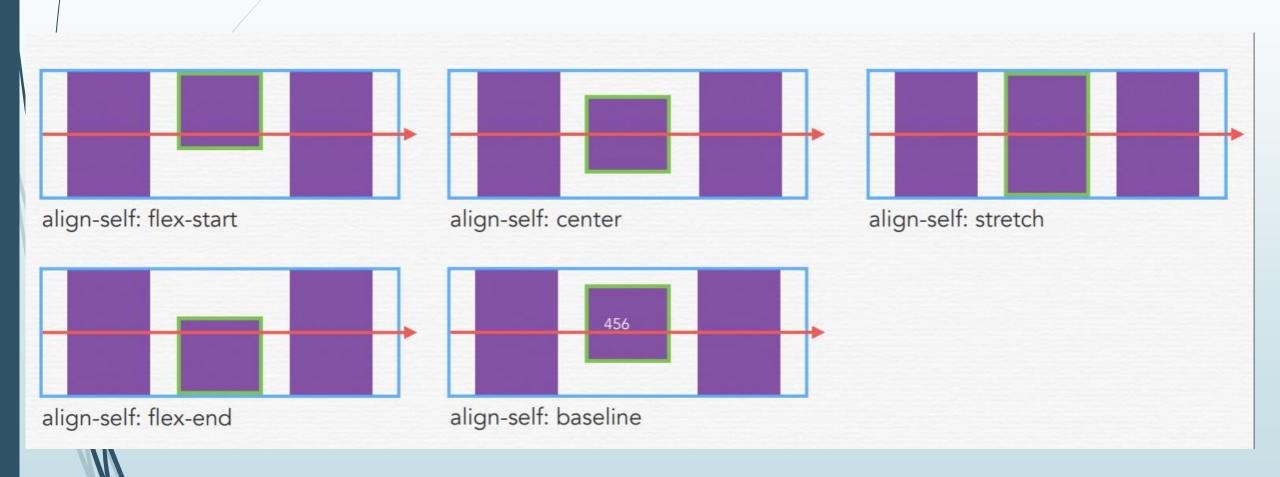
## CSS3 Flex 主軸線對齊



# CSS3 Flex 交錯軸對齊



# CSS3 Flex 內元件對齊



# **Bootstrap Flex**

- **■** 使用CSS Flex系統
- .d-flex (display: flex)
  - -row

## Bootstrap Flex 主軸線

- ➡ 設定方向
  - **■** .flex-row
  - **■** .flex-row-reverse
  - **■** .flex-column
  - **■** .flex-column-reverse
  - ●.flex-中斷點-方向
- 對齊
  - **■** .justify-content-start
  - .justify-content-end
  - **■** .justify-content-center
  - **■** .justify-content-between
  - **■** .justify-content-around
  - .justify-content-中斷點-對齊方式

## Bootstrap Flex 交錯軸

#### ▶對齊

- **■**.align-items-start
- -.align-items-end
- **■**.align-items-center
- **►** .align-items-baseline
- **■**.align-items-stretch
- ■.align-items-中斷點-對齊方式

## Bootstrap Flex 內元件

#### ▶對齊

- **■**.align-self-start
- -.align-self-end
- **■.**align-self-center
- **►** .align-self-baseline
- **■**.align-self-stretch
- ■.align-self-中斷點-對齊方式
- ▶排序
  - ●.order-中斷點-排序
    - **■1~12**

## **Bootstrap Flex**

- ▶ 其他元素套用時
  - **■**.d-flex
  - ■.flex-wrap / .flex-nowrap
  - ▶對齊方式(整體元件)
    - **■.**align-content-start
    - **■**.align-content-end
    - **■**.align-content-center
    - **■**.align-content-around
    - **■**.align-content-stretch

## **Bootstrap Utilities for layout**

- margin/padding
  - ➡.m方向-中斷點-數值
  - ▶方向
    - **t**
    - **b**

    - **■**r
    - **■**x => 左右
    - **■y** => 上下
  - ▶數值
    - **■1~5**
    - **auto**

## **Bootstrap Utilities for layout**

- →大小
  - width / height / viewport
    - **■.w/.h/.v-**百分比
      - **25**
      - **-50**
      - **-75**
      - **100**
      - **auto**

# **Bootstrap Flex**

■ 相簿排版



龍晟科技有限公司