

6.Flex

2019年1月4日 下午 01:51

1. 相關屬性

- **display** : 必備屬性
- flex-flow
 - **flex-direction** : 決定 flex 軸線
 - flex-wrap : 決定換行的屬性
- **justify-content** : 主要軸線的對齊
- **align-items** : 交錯軸線的對齊


外層屬性

內層屬性

- flex
 - flex-grow : 伸展比
 - flex-shrink : 收縮比
 - flex-basis : 絕對值
- order : 排序
- **align-self** : 單一個物件的交錯軸對齊

對齊的方法

主軸



flex-direction: row (default) 水平

flex-direction: row-reverse

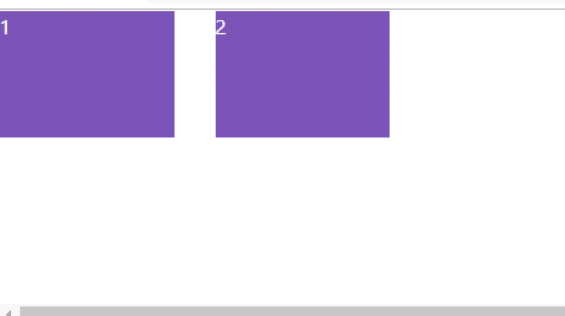
flex-direction: column

flex-direction: column-reverse

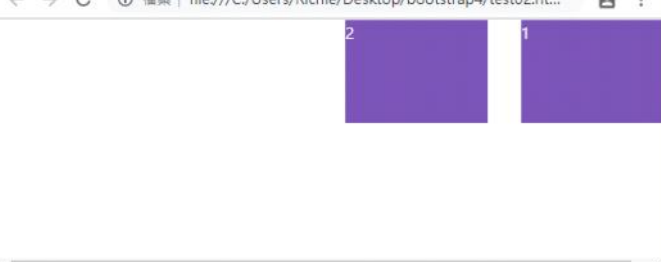
Flex-direction: row (水平)

Flex-direction: column (垂直)

```
<div class="container">
  <div class="row">
    <div class="col-3">
      <div class="box">1</div>
    </div>
    <div class="col-3">
      <div class="box">2</div>
    </div>
  </div>
</div>
```



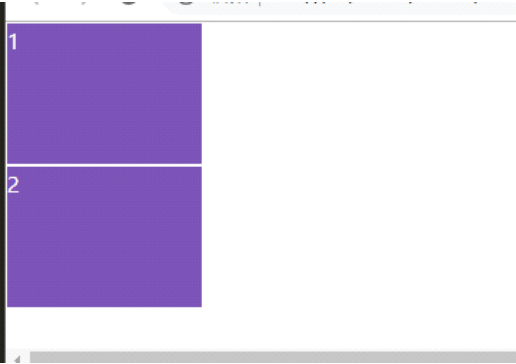
```
<div class="container">
  <div class="row flex-row-reverse">
    <div class="col-3">
      <div class="box">1</div>
    </div>
    <div class="col-3">
      <div class="box">2</div>
    </div>
  </div>
</div>
```



```

<div class="container">
  <div class="row flex-column">
    <div class="col-3">
      <div class="box">1</div>
    </div>
    <div class="col-3">
      <div class="box">2</div>
    </div>
  </div>
</div>

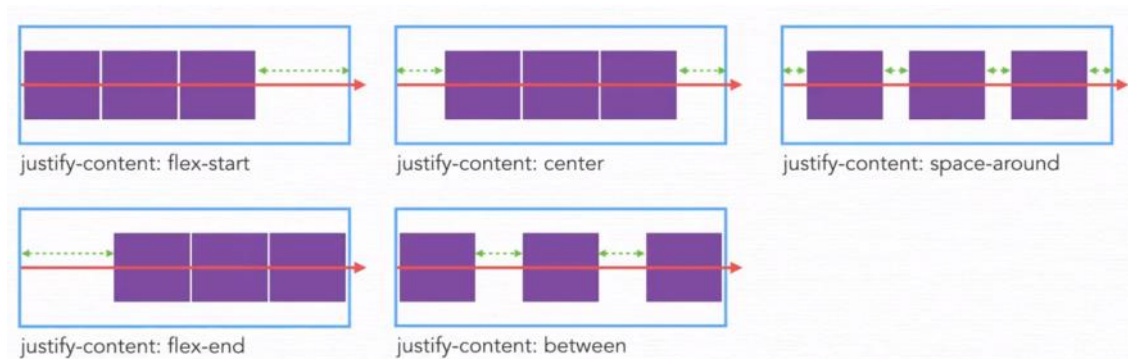
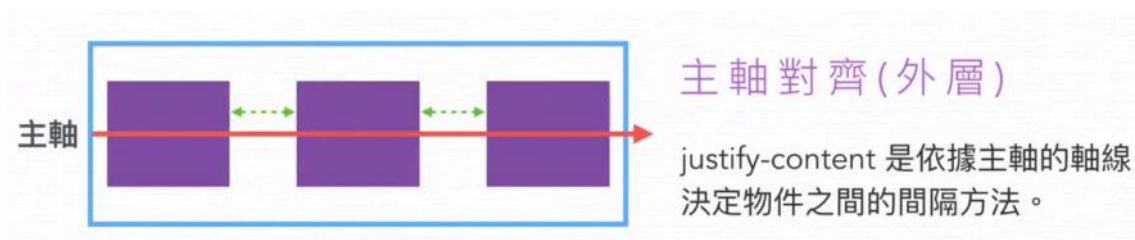
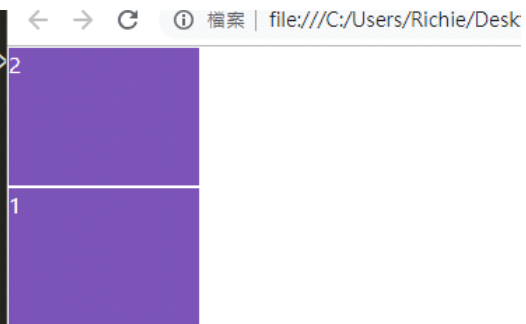
```



```

<div class="container">
  <div class="row flex-column-reverse">
    <div class="col-3">
      <div class="box">1</div>
    </div>
    <div class="col-3">
      <div class="box">2</div>
    </div>
  </div>
</div>

```



justify-content-end 靠右邊對齊

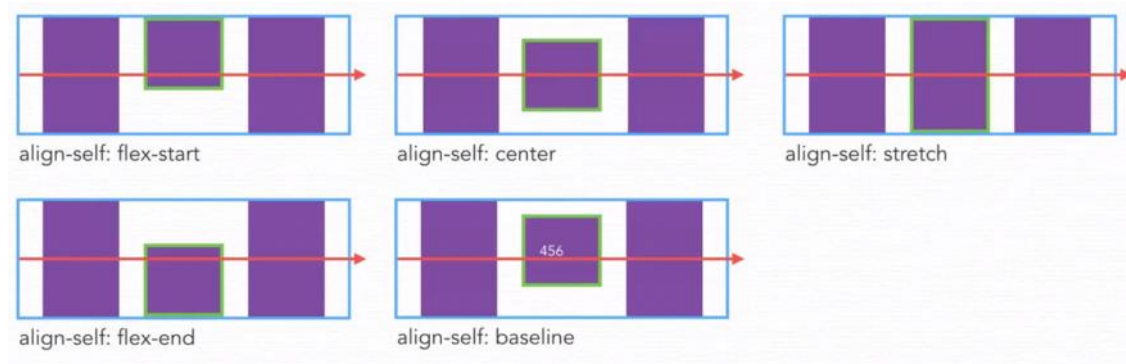
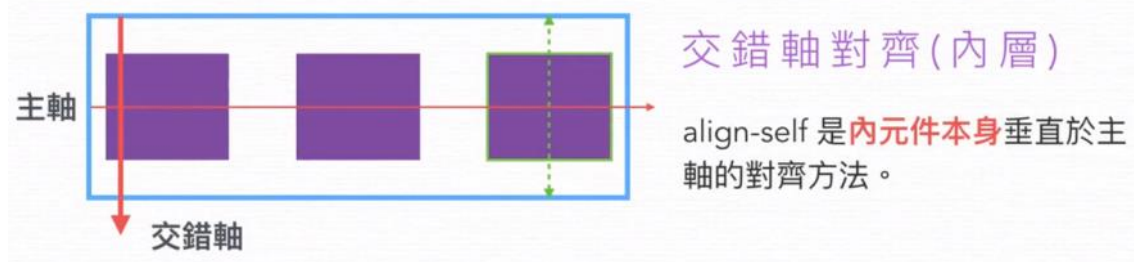
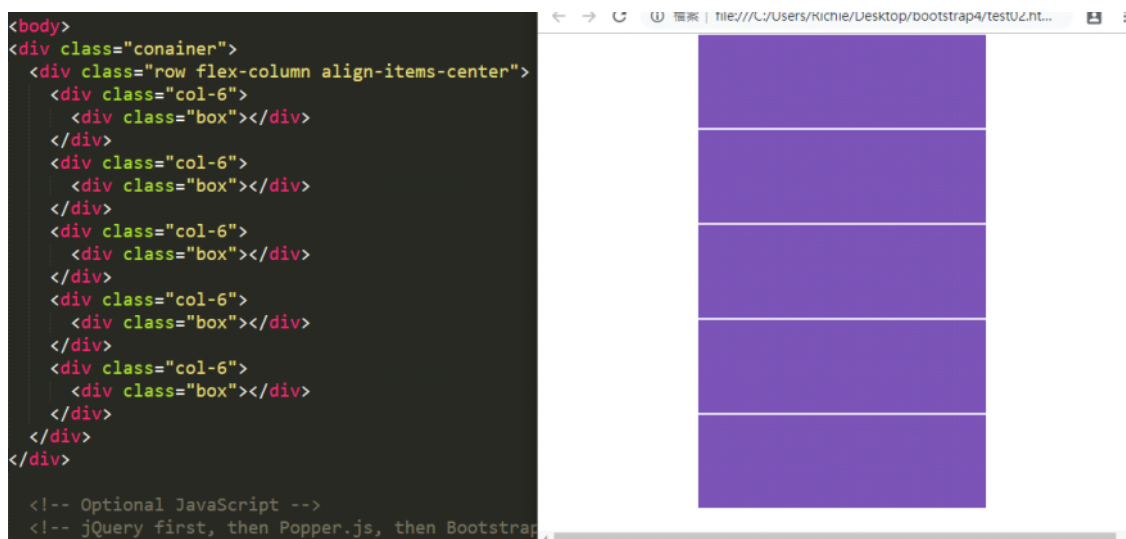
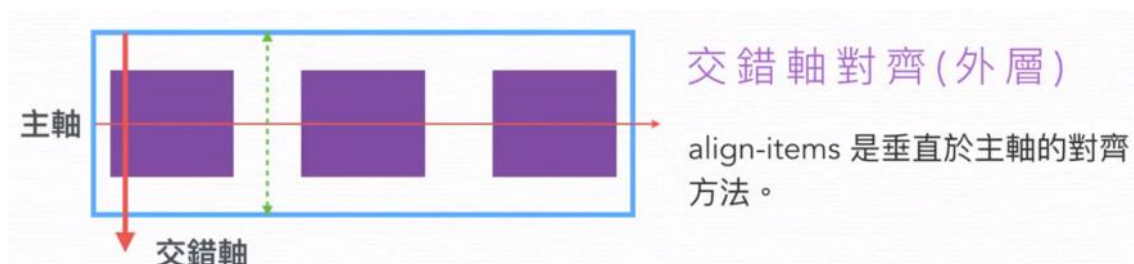
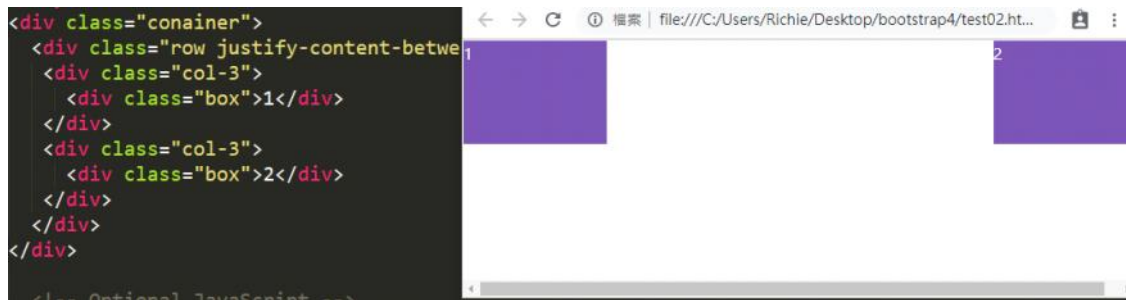
```

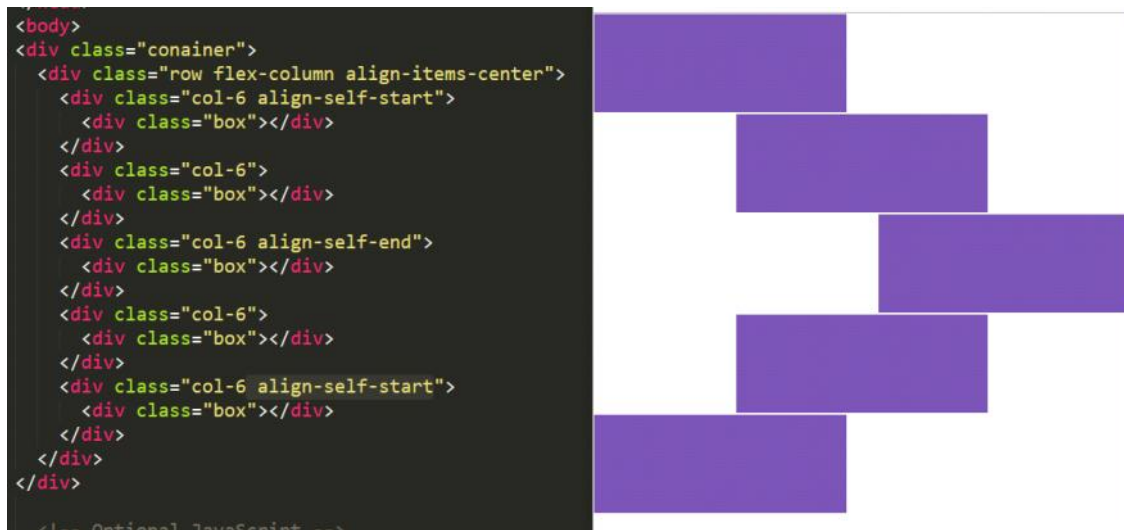
<div class="container">
  <div class="row justify-content-end">
    <div class="col-3">
      <div class="box">1</div>
    </div>
    <div class="col-3">
      <div class="box">2</div>
    </div>
  </div>
</div>

```



justify-content-between





2. 排序 order

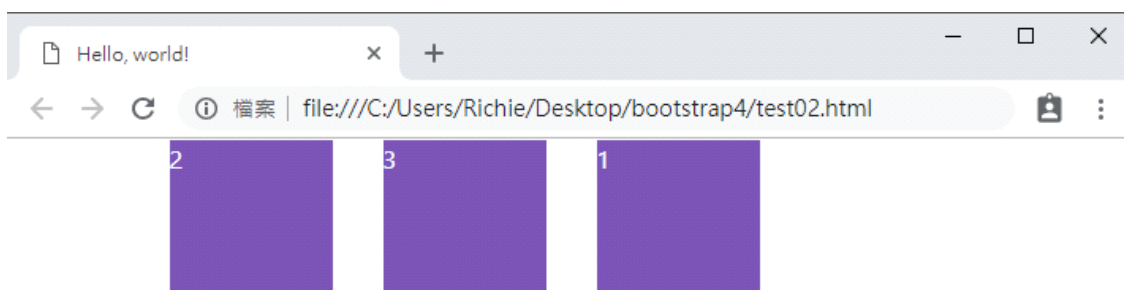
使用 `order` 通用類別改變特定 flex 物件的 顯示 排序。我們僅提供將一個物件排在第一個或最後一個，以及重置使用 DOM 次序。由於 `order` 只能使用整數值，對需要的任何額外值需要自定義 CSS。

`.order-sm or md or lg or xl - 1~12`

```

<div class="container">
  <div class="row">
    <div class="col-3 order-1">
      <div class="box">1</div>
    </div>
    <div class="col-3">
      <div class="box order-3">2</div>
    </div>
    <div class="col-3">
      <div class="box order-2">3</div>
    </div>
  </div>
</div>

```

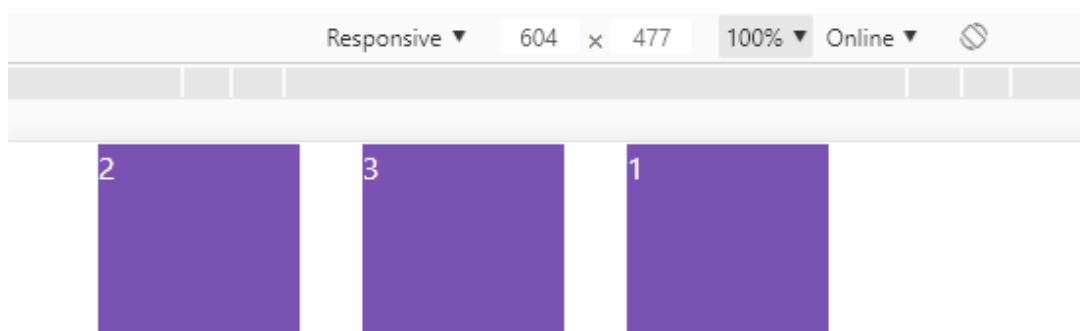
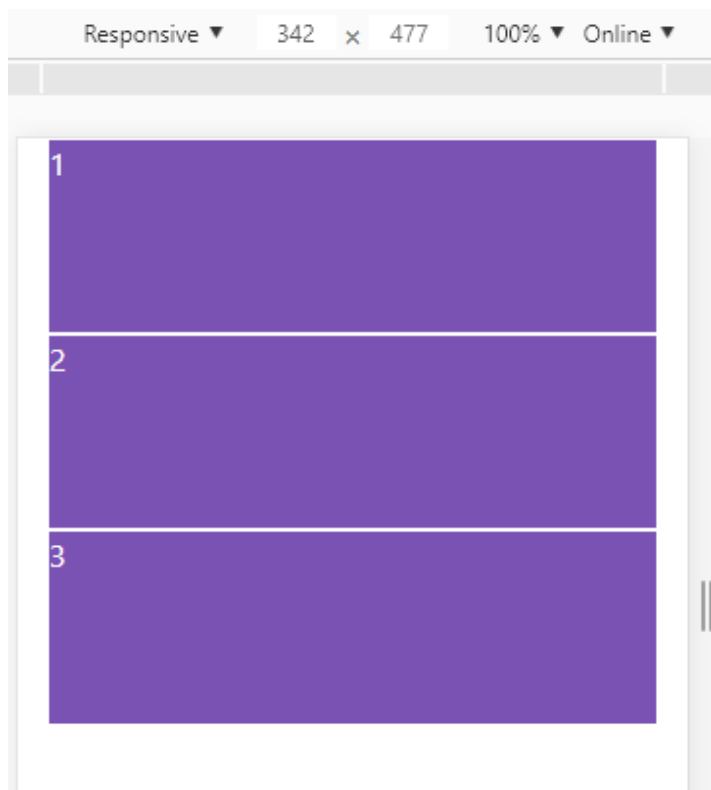


可針對特定大小改變順序

```

<div class="container">
  <div class="row">
    <div class="col-sm-3 order-sm-1">
      <div class="box">1</div>
    </div>
    <div class="col-sm-3">
      <div class="box order-sm-3">2</div>
    </div>
    <div class="col-sm-3">
      <div class="box order-sm-2">3</div>
    </div>
  </div>
</div>

```



3. flex-direction (row, row-reverse, column, column-reverse)


```

<div class="demo">
  <div class="d-flex flex-row">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex flex-row-reverse">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex flex-column">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex flex-column-reverse">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
</div>

```

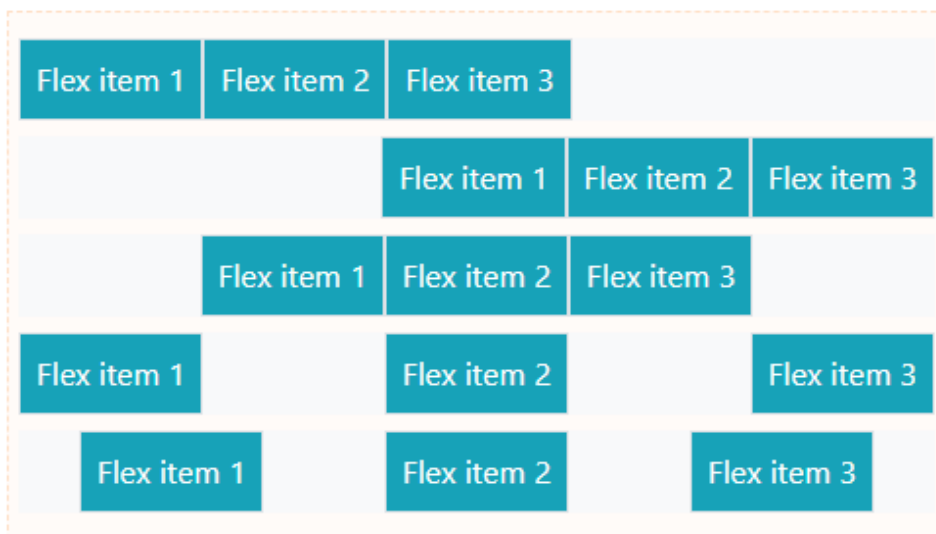
Flex item 1	Flex item 2	Flex item 3
Flex item 3	Flex item 2	Flex item 1
Flex item 1		
Flex item 2		
Flex item 3		
Flex item 3		
Flex item 2		
Flex item 1		

4. justify-content (start, end, center, between, around)

```

<div class="demo col-md-12">
  <div class="d-flex my-2 bg-light justify-content-start">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light justify-content-end">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light justify-content-center">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light justify-content-between">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light justify-content-around">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
</div>

```



5. align-items (start, end, center, baseline, stretch)

```

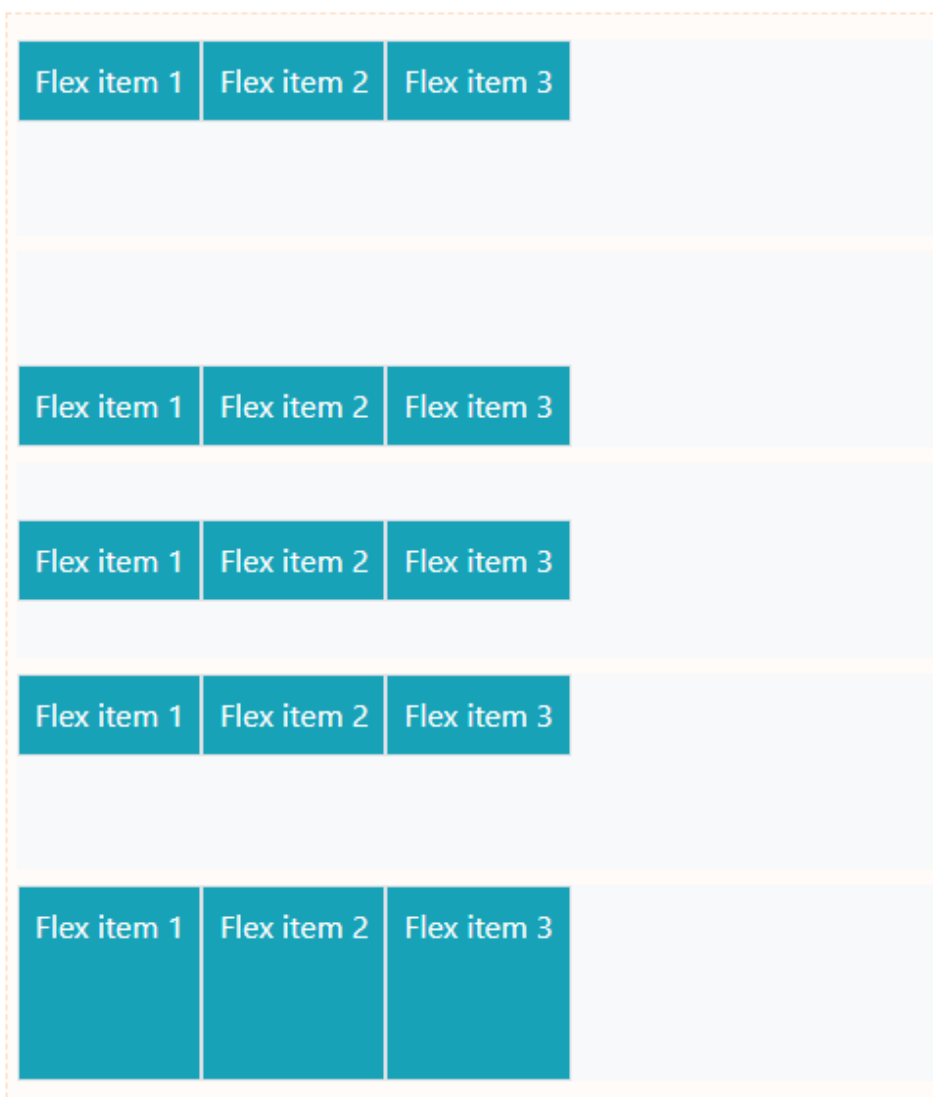
<div class="demo col-md-12">
  <div class="d-flex my-2 bg-light align-items-start" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-end" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-center" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>

```

```

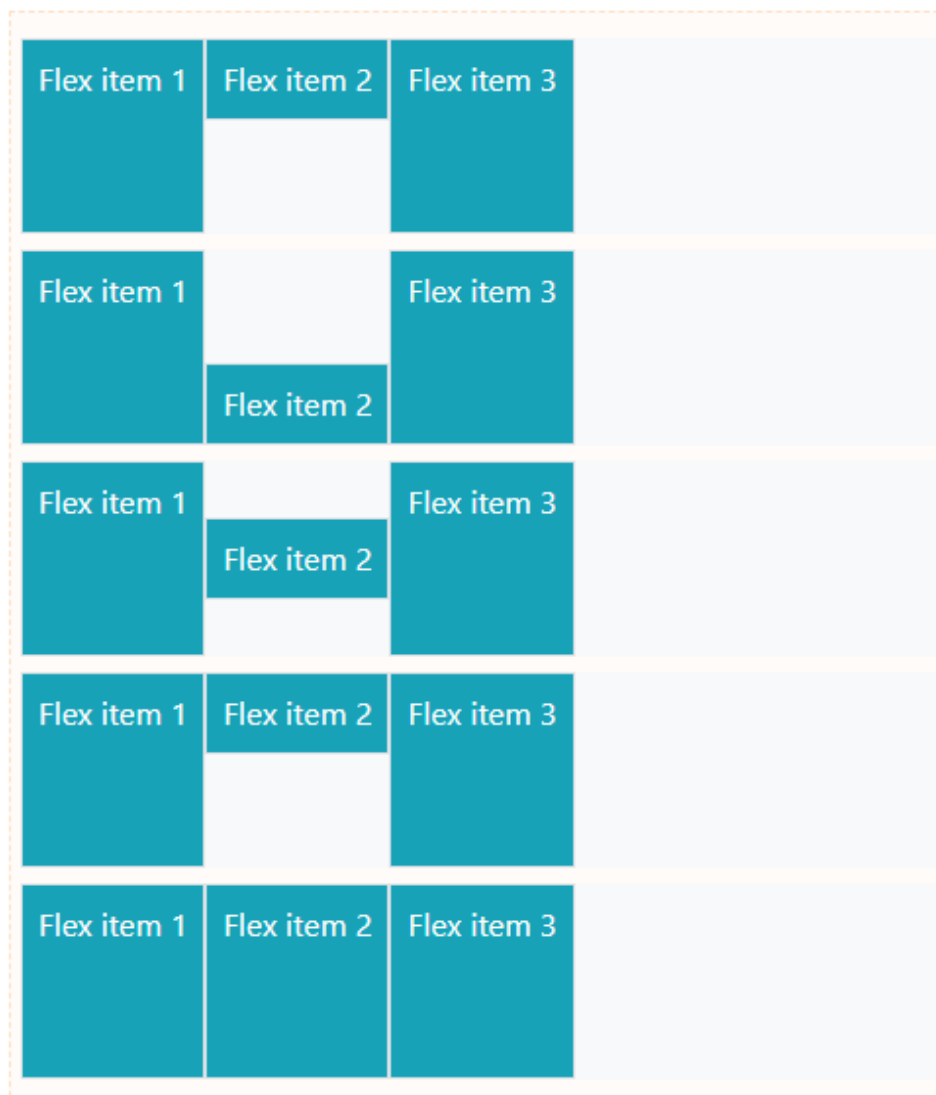
<div class="demo col-md-12">
  <div class="d-flex my-2 bg-light align-items-start" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-end" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-center" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-baseline" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-stretch" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
</div>

```



6. align-self (start, end, center, baseline, stretch)

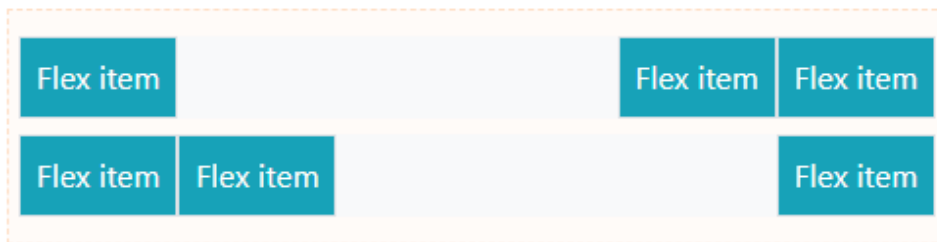
```
<div class="demo col-md-12">
  <div class="d-flex my-2 bg-light align-items-stretch" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border align-self-start">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-stretch" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border align-self-end">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-stretch" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border align-self-center">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-stretch" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border align-self-baseline">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
  <div class="d-flex my-2 bg-light align-items-stretch" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item 1</div>
    <div class="p-2 bg-info text-white border align-self-stretch">Flex item 2</div>
    <div class="p-2 bg-info text-white border">Flex item 3</div>
  </div>
</div>
```



7. ml-auto

```
<div class="demo col-md-12">
  <div class="d-flex my-2 bg-light justify-content-end">
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="ml-auto p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
  </div>

  <div class="d-flex my-2 bg-light justify-content-start">
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="ml-auto p-2 bg-info text-white border">Flex item</div>
  </div>
</div>
```



8. flex-wrap (nowrap, wrap, wrap-reverse)

nowrap: 不要換行

wrap: 空間滿了換行

wrap-reverse: 空間滿了換行並反轉

[illegible]

Flex item1	Flex item2	Flex item3	Flex item4	Flex item5	Flex item6	Flex item7	Flex item8	Flex item9	Flex item10	Flex item11	Flex item12
Flex item1	Flex item2	Flex item3	Flex item4	Flex item5	Flex item6	Flex item7					
Flex item8	Flex item9	Flex item10	Flex item11	Flex item12							
Flex item8	Flex item9	Flex item10	Flex item11	Flex item12							
Flex item1	Flex item2	Flex item3	Flex item4	Flex item5	Flex item6	Flex item7					

9. order (1 ~ 12)

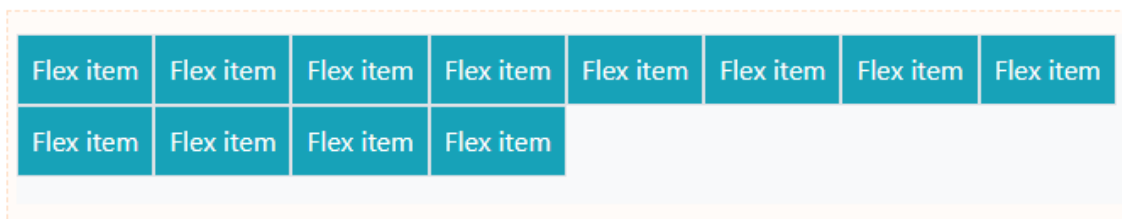
```
<div class="demo col-md-12">
  <div class="d-flex my-2 bg-light flex-nowrap" style="height: 100px">
    <div class="p-2 bg-info text-white border order-6">Flex item 1</div>
    <div class="p-2 bg-info text-white border order-5">Flex item 2</div>
    <div class="p-2 bg-info text-white border order-1">Flex item 3</div>
  </div>
</div>
```



10. align-content (start, end, center, between, around, stretch)

```
<div class="demo col-md-12">
  <div class="d-flex my-2 bg-light align-content-between flex-wrap" style="height: 100px">
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
    <div class="p-2 bg-info text-white border">Flex item</div>
  </div>
</div>
```

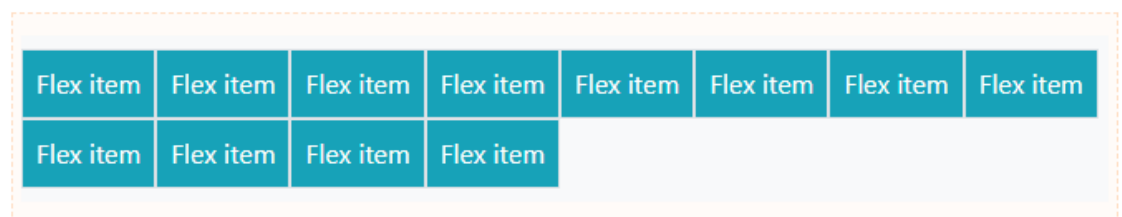
Start



end



center



between

Flex item	Flex item	Flex item	Flex item	Flex item	Flex item	Flex item	Flex item
Flex item	Flex item	Flex item	Flex item				

around

Flex item	Flex item	Flex item	Flex item	Flex item	Flex item	Flex item	Flex item
Flex item	Flex item	Flex item	Flex item				

Stretch

Flex item	Flex item	Flex item	Flex item	Flex item	Flex item	Flex item	Flex item
Flex item	Flex item	Flex item	Flex item				