

# bootstrap是什麼？

- 一個前端開發的framework
- 使RWD(Responsive Web Design)自適應網頁開發變得方便
- RWD簡單說是設計在各種裝置上適合瀏覽的網頁

## 如何使用bootstrap？

### 1.include

---

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- The above 3 meta tags *must* come first in the head; any other head content must come *after* these tags -->

  <!-- Latest compiled and minified CSS -->
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/css/bootstrap.min.css">

  <!-- Optional theme -->
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/css/bootstrap-theme.min.css">

  <!-- Latest compiled and minified JavaScript -->
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/js/bootstrap.min.js"></script>
</head>
```

### 2.grid system

---

首先必需先提一下container:

```
<div class="container">
  ...
</div>

<div class="container-fluid">
  ...
</div>
```

grid system 將一列區分為12個欄位共12等份,

用不同的prefix class配上不同數字達到不同的寬度與排列效果

不同名稱的prefix class對應不同的裝置

# Example: Stacked-to-horizontal

Using a single set of `.col-md-*` grid classes, you can create a basic grid system that starts out stacked on mobile devices and tablet devices (the extra small to small range) before becoming horizontal on desktop (medium) devices. Place grid columns in any `.row`.

.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1
.col-md-8								.col-md-4				
.col-md-4				.col-md-4				.col-md-4				
.col-md-6						.col-md-6						

	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints		
Container width	None (auto)	750px	970px	1170px
Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-
# of columns	12			
Column width	Auto	~62px	~81px	~97px
Gutter width	30px (15px on each side of a column)			
Nestable	Yes			
Offsets	Yes			
Column ordering	Yes			

- Offsets: 與左邊欄位,留白n個欄位的空白,若超過最大值的12欄,則會擠到下一列
- Nestable: 支援多層結構,一個DIV底下可以有第二層第三層或更多層結構,每層都可再區分12等份
- Column ordering: 借由.col-md-push-\* and .col-md-pull-\* 的class 實現推拉DIV位置的功能

# Offsetting columns

Move columns to the right using `.col-md-offset-*` classes. These classes increase the left margin of a column by `*` columns. For example, `.col-md-offset-4` moves `.col-md-4` over four columns.

`.col-md-4`

`.col-md-4 .col-md-offset-4`

`.col-md-3 .col-md-offset-3`

`.col-md-3 .col-md-offset-3`

`.col-md-6 .col-md-offset-3`

```
<div class="row">
  <div class="col-md-4">.col-md-4</div>
  <div class="col-md-4 col-md-offset-4">.col-md-4 .col-md-offset-4</div>
</div>
<div class="row">
  <div class="col-md-3 col-md-offset-3">.col-md-3 .col-md-offset-3</div>
  <div class="col-md-3 col-md-offset-3">.col-md-3 .col-md-offset-3</div>
</div>
<div class="row">
  <div class="col-md-6 col-md-offset-3">.col-md-6 .col-md-offset-3</div>
</div>
```

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# Nesting columns

To nest your content with the default grid, add a new `.row` and set of `.col-sm-*` columns within an existing `.col-sm-*` column. Nested rows should include a set of columns that add up to 12 or fewer (it is not required that you use all 12 available columns).

Level 1: `.col-sm-9`

Level 2: `.col-xs-8 .col-sm-6`

Level 2: `.col-xs-4 .col-sm-6`

```
<div class="row">
  <div class="col-sm-9">
    Level 1: .col-sm-9
    <div class="row">
      <div class="col-xs-8 col-sm-6">
        Level 2: .col-xs-8 .col-sm-6
      </div>
      <div class="col-xs-4 col-sm-6">
        Level 2: .col-xs-4 .col-sm-6
      </div>
    </div>
  </div>
</div>
```

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# Column ordering

## 3.Forms

### 1.basic

- form-control
- form-group

### 2.Horizontal form

- form-horizontal

- control-label

### 3.Validation states

- .has-warning
- .has-error
- .has-success
- .has-feedback

## Why bootstrap?

### 1.容易建置及開始使用

### 2.強大的Grid system

### 3.提供多數HTML元素設計

### 4.豐富的元件

- Dropdowns
- Button Groups
- Navigation Bar
- Breadcrumbs
- Labels & Badges
- Alerts
- Progress Bar
- And others.

### 5.詳細的官方文件