## Introduzione a Bootstrap

## Bootstrap

- Bootstrap è un framework basato su HTML, CSS, and JavaScript per sviluppare applicazioni web responsive.
- Sviluppato da Mark Otto e Jacob Thornton (TwitterRilasciato come prodotto opensource nell'Agosto 2011 su GitHub.

## Perché usare Bootstrap

- Bootstrap include template HTML e CSS for:
  - typography, forms, buttons, tables, navigation, modals, image carousels, etc..
- Facile da usare: basta avere basi minime di HTML e CSS.
- Responsive features: I CSS si adattano a qualunque tipo di dispositivo (Tablet, smartphone, PC Desktop)
- Cross Browser: Bootstrap e compatibile con tutti i moderni browser (Chrome, Firefox, Internet Explorer, Safari, Opera)

## Come ottenere Bootstrap

Download Bootstrap da getbootstrap.com

Includere Bootstrap da CDN (Content Delivery Network)

```
<!-- Latest compiled and minified CSS -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
<!-- jQuery library -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<!-- Latest compiled JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></
```

# Aggiungere HTML5 doctype

Bootstrap usa elementi HTML e CSS che richiedono HTML5

## Bootstrap 3 è mobile-first

#### Containers

- Bootstrap richiede dei contenitore per gestire gli elementi della pagina.
- Esistono due classi contenitore:
  - .container
  - .container-fluid

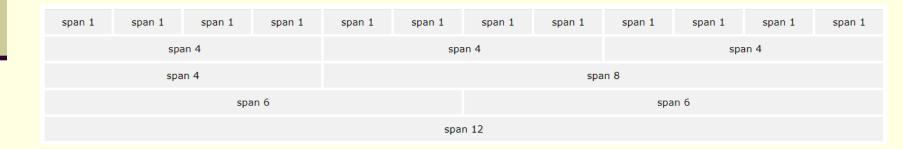


fixed width container

full width container

# Grid System

- Il Grid System di Bootstrap consente fino a 12 colonne sulla pagina.
- Il Grid System è responsive e le colonne si riorganizzano automaticamente in base alle dimensioni dello schermo



### Grid classes

- Il Grid system possiede quattro classi:
  - xs (for phones screens less than 768px wide)
  - sm (for tablets screens equal to or greater than 768px wide)
  - md (for small laptops screens equal to or greater than 992px wide)
  - **Ig** (for laptops and desktops screens equal to or greater than 1200px wide)

#### Struttura di base

■ Bisogna sempre creare una *row* e aggiungere dentro dei div con classe *col-\*-\** 

## Es. colonne uguali

```
<div class="row">
     <div class="col-sm-4">.col-sm-4</div>
     <div class="col-sm-4">.col-sm-4</div>
     <div class="col-sm-4">.col-sm-4</div>
     </div>
</div>
```

.col-sm-4 .col-sm-4 .col-sm-4

### Es. Colonne diverse

.col-sm-4 .col-sm-8

## Basic Tables

```
<div class="container">
 <h2>Basic Table</h2>
 The .table class adds basic styling (light padding and only horizontal dividers) to a table:
 <thead>
   Firstname
    Lastname
    Email
   </thead>
  John
    Doe
    john@example.com
   Mary
    Moe
    mary@example.com
                     Basic Table
   July
    Dooley
    july@example.com
```

</div>

The .table class adds basic styling (light padding and only horizontal dividers) to a table:

n
m

# Striped Tables

```
<div class="container">
 <h2>Striped Rows</h2>
 The .table-striped class adds zebra-stripes to a table:
 <thead>
   Firstname
    Lastname
    Email
   </thead>
  John
    Doe
    john@example.com
   Mary
    Moe
    mary@example.com
   July
    Dooley
    july@example.com
```

</div>

#### Striped Rows

The .table-striped class adds zebra-stripes to a table:

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com

#### Riferimenti

- Per approfondimenti e materiale:
  - https://getbootstrap.com
  - https://www.w3schools.com/bootstrap/
  - http://wiki.lib.sun.ac.za/images/0/07/Bootstraptutorial.pdf
  - https://bootswatch.com