

Introduction à Bootstrap

Framework Bootstrap

- Proposé par Twitter pour écrire du code HTML sans trop se préoccuper du CSS.
- Formate une page sous forme de grille de 12 colonnes, page Web responsive (adaptée à la taille des écrans)
- Utilise Normalise.css pour gérer les différents navigateurs (mobiles et autres)

Framework Bootstrap

- Téléchargement et Installation:
<http://getbootstrap.com/getting-started/>
- Basic template

```
<!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 -->
    <title>Bootstrap 101 Template</title>

    <!-- Bootstrap -->
    <link href="css/bootstrap.min.css" rel="stylesheet">

    <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
    <script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>
    <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
    <![endif]>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
    <!-- Include all compiled plugins (below), or include individual files as needed -->
    <script src="js/bootstrap.min.js"></script>
  </body>
</html>
```

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Mise en page

- Formate une page sous forme de grille de 12 colonnes
- On a un container qui contient la grille, chaque élément possède du contenu
- Container : centre la grille, taille des grilles en pixels
- Container-fluid
- classe Bootstrap row crée une **ligne** dans cette grille, et chaque classe Bootstrap col-* crée une **cellule** qui regroupe * colonnes dans cette ligne.
- Exemple:


```
<div class="container">
<div class="row">
<div class="col-md-2"> Menu </div>
<div class="col-md-8"> Centre </div>
<div class="col-md-2"> Zone de droite </div>
</div> </div>
```

Mise en page

- Bootstrap est Responsive: adapte automatiquement la disposition des éléments à la zone d'affichage, détectée grâce à la balise <meta name="viewport" >>
- Viewport= surface d'affichage
- <meta name="viewport" content="width=device-width, initial-scale=1.0">

	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			

Mise en page

- EX pour plusieurs terminaux

```
<div class="row">
<!-- Taille 6 sur smartphones, 4 sur tablettes, 3 sur desktop et plus -
-->
<div class="col-xs-6 col-sm-4 col-md-3"> Zone de gauche </div>
<!-- Taille 6 sur smartphones et tablettes, 7 sur desktop et plus -->
<div class="col-xs-6 col-md-7"> Zone du centre </div>
<!-- Masquée sur smartphones, taille 2 sur tablettes et plus --> <div
class="col-sm-2 hidden-xs"> Zone de droite </div> </div>
```

Pleins d'exemples ici: <http://getbootstrap.com/getting-started/#examples>

Mise en page

- Un exemple de formatage de base:

```
<!DOCTYPE html>
<html>
<head>
<link href="assets/css/bootstrap.css" rel="stylesheet">
<link href="assets/css/tuto.css" rel="stylesheet">
</head>
<body>
<div class="container">
<header class="row">
<div class="col-lg-12">
Entete
</div>
</header>
<div class="row">
<nav class="col-lg-2">
Menu
</nav>
<section class="col-lg-10">
Section
</section>
</div>
<footer class="row">
Pied de page
</footer>
</div>
</body>
</html>
```

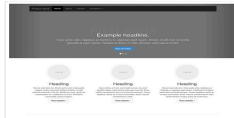
Mise en page

Pleins d'exemples ici: <http://getbootstrap.com/getting-started/#examples>



Cover

A one-page template for building simple and beautiful home pages.



Carousel

Customize the navbar and carousel, then add some new components.



Blog

Simple two-column blog layout with custom navigation, header, and type.



Dashboard

Basic structure for an admin dashboard with fixed sidebar and navbar.



Sign-in page

Custom form layout and design for a simple sign in form.



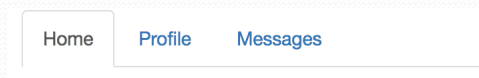
Justified nav

Create a custom navbar with justified links. Heads up! *Not too Safari friendly.*

composants

- Pleins de composants accessibles (navs, tableaux, boutons, alertes, barres de progressions, labels, icons, etc.)
- <http://getbootstrap.com/components/>

- Ex:



```
<ul class="nav nav-tabs">
<li role="presentation" class="active"><a href="#">Home</a></li>
<li role="presentation"><a href="#">Profile</a></li>
<li role="presentation"><a href="#">Messages</a></li>
</ul>
```

Plugins JQuery

- Modules pour faire des animations (boutons, transitions, etc.)
- [Http://getbootstrap.com/javascript/](http://getbootstrap.com/javascript/)
- Ex: slideshow

```

<div id="carousel-example-generic" class="carousel slide" data-ride="carousel">
  <!-- Indicators -->
  <ol class="carousel-indicators">
    <li data-target="#carousel-example-generic" data-slide-to="0" class="active"></li>
    <li data-target="#carousel-example-generic" data-slide-to="1"></li>
    <li data-target="#carousel-example-generic" data-slide-to="2"></li>
  </ol>

  <!-- Wrapper for slides -->
  <div class="carousel-inner" role="listbox">
    <div class="item active">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    <div class="item">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    ...
  </div>

  <!-- Controls -->
  <a class="left carousel-control" href="#carousel-example-generic" role="button"
data-slide="prev">
    <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="right carousel-control" href="#carousel-example-generic" role="button"
data-slide="next">
    <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>

```