

Bootstrap 4

Modèle de départ

Bootstrap

<https://getbootstrap.com/docs/4.1/getting-started/introduction/#starter-template>

```
<!doctype html>
<html lang="fr">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/css/bootstrap.min.css" integrity="sha384-9gVQ4dYFwwWSjIDZnLEWnxCjeSWFphJiwGPXr1jddIh0egiu1Fw05qRGvFX0dJZ4" crossorigin="anonymous">

    <title>Hello, world!</title>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965Dz0rT7abK41JStQIAqVgRVzbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.0/umd/popper.min.js" integrity="sha384-chFZiN24E4KMATLdqdvsezGxaGsi4hLG0zlXwp5UZB1LY//20VyM2taTB4QvJ" crossorigin="anonymous"></script>
    <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.0/js/bootstrap.min.js" integrity="sha384-uefMccjFJAIV6A+rW+L4AHf99KvxDjWSu1z9VI8SKNVmz4sk7buKt/6v9KI65qnm" crossorigin="anonymous"></script>
  </body>
</html>
```

La grille

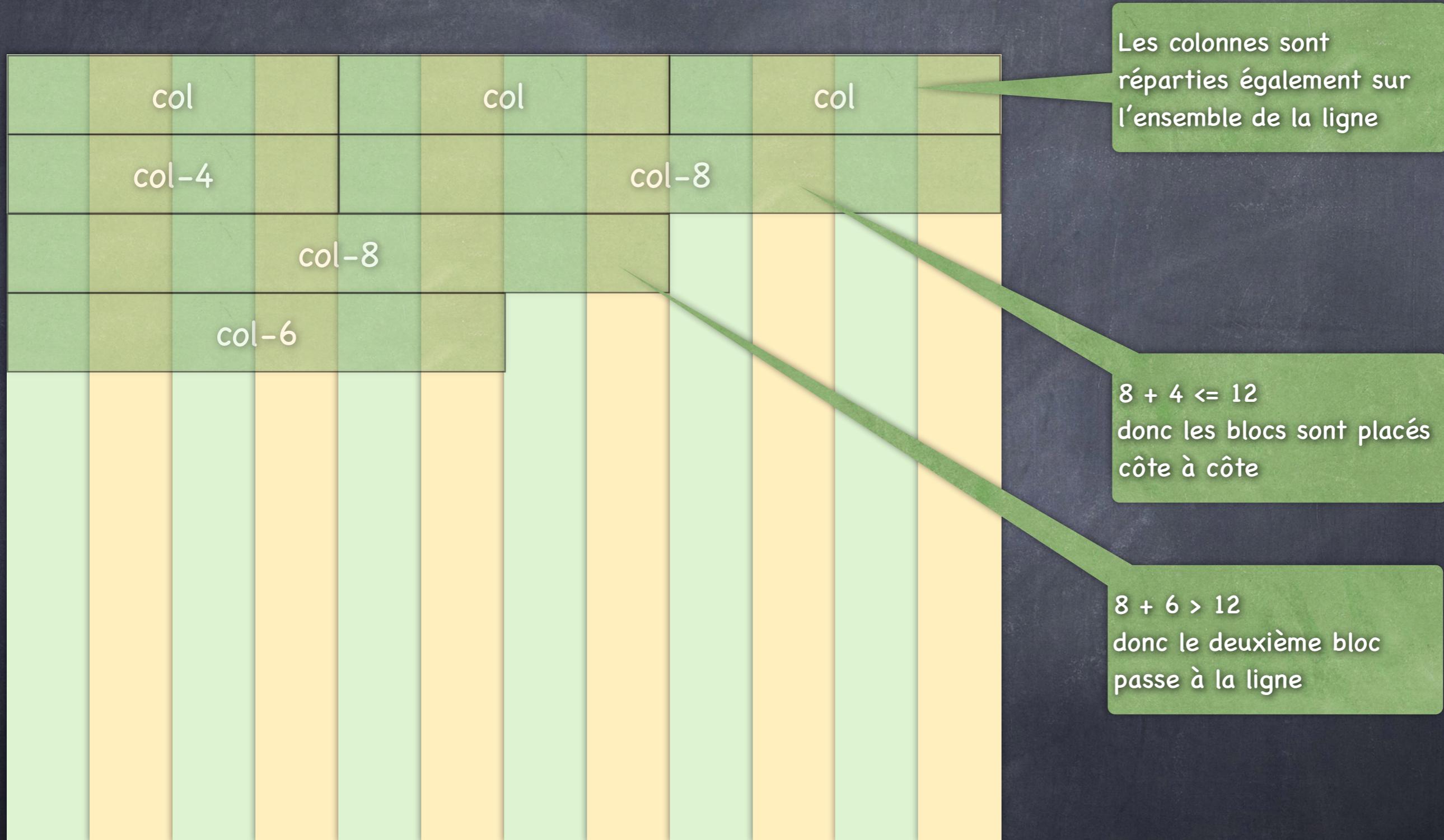
Quelques règles

Bootstrap

- ✓ Un parent de classe **container** ou **container-fluid**
- ✓ Un enfant de classe **row**
- ✓ Des petits enfants de classe **col**

Principe général

Bootstrap



Le code

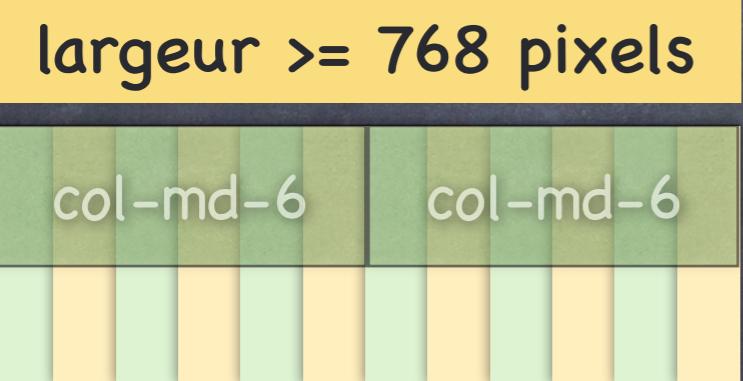
Bootstrap

```
<!-- Première ligne -->
<div class="row">

    <div class="col">ligne 1 colonne 1</div>
    <div class="col">ligne 1 colonne 2</div>
    <div class="col">ligne 1 colonne 3</div>
</div>
<div class="row">
    <!-- deuxième ligne -->
    <div class="col-4">ligne 2 colonne 1</div>
    <div class="col-8">ligne 2 colonne 2</div>
    <!-- troisième ligne -->
    <div class="col-8">ligne 3 colonne 1</div>
    <!-- quatrième ligne -->
    <div class="col-6">ligne 4 colonne 1</div>
</div>
```

Grille responsive

Bootstrap

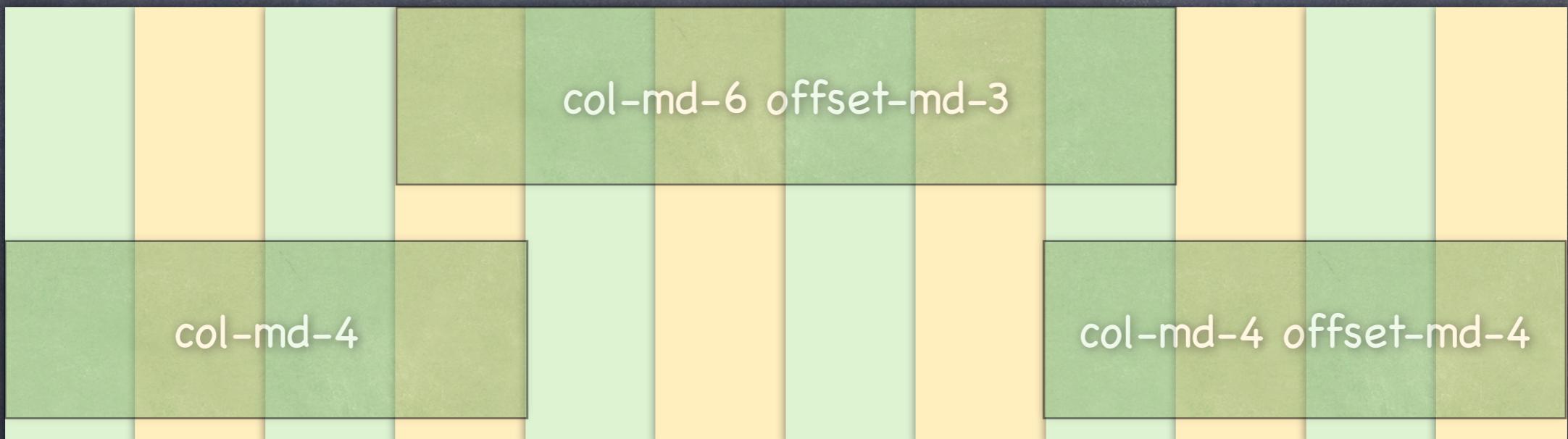


col-	< 576 px
col-sm-*	≥ 576 px
col-md-*	≥ 768 px
col-lg-*	≥ 992 px
col-xl-*	≥ 1200 px

Décalage

Bootstrap

Le décalage compte pour le nombre de colonnes



Alignement vertical

Bootstrap

sur une ligne

align-items-start

en haut

align-items-center

au milieu

align-items-end

en bas

sur une colonne

align-self-start

en haut

align-self-center

au milieu

align-self-end

en bas

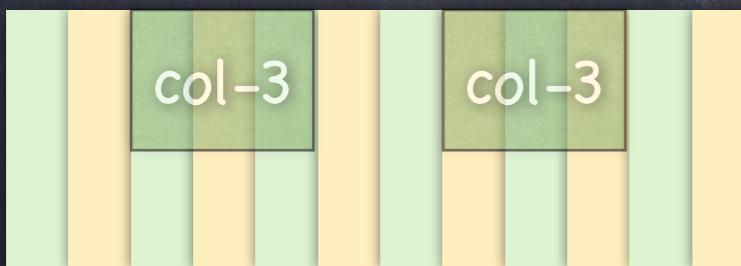
Alignement horizontal

Bootstrap

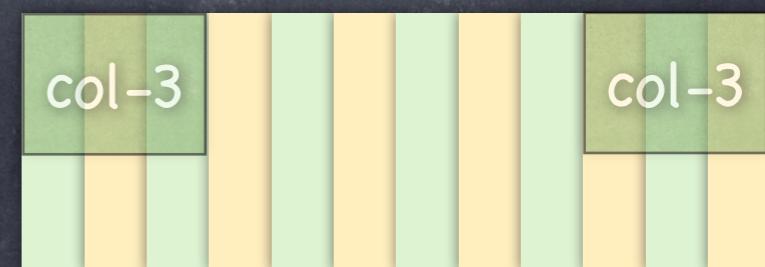
sur une ligne (row)

justify-content-start	à gauche
justify-content-center	au centre
justify-content-end	à droite
justify-content-around	répartition centrée
justify-content-between	répartition aux extrémités

justify content around



justify content between



Marges

Bootstrap

type-position-taille

type-position-cible-taille

type		position		taille
m	margin	t	top	0 0 px
p	padding	b	bottom	1 0.25 rem
		l	left	2 0.5 rem
		r	right	3 1 rem
		x	left et right	4 1.5 rem
		y	top et bottom	5 3 rem
		vide	les 4 cotés	auto répartition automatique

formulaires

Principes

Bootstrap

- ✓ Un conteneur de classe form-group
- ✓ Des contrôles de classe form-control

formulaire simple

Bootstrap

```
<form>
  <div class="form-group">
    <label>Nom</label>
    <input type="text" class="form-control">
  </div>

  <div class="form-group">
    <select class="form-control">
      <option>Développeur</option>
      <option>Chef de projet</option>
      <option>Graphiste</option>
    </select>
  </div>

  <div class="form-group">
    <button class="btn btn-primary btn-block">
      Valider
    </button>
  </div>
</form>
```

The screenshot shows a user interface for a simple form. It consists of three main fields within a light gray container. At the top is a text input field labeled "Nom". Below it is a select dropdown menu containing three options: "Développeur", "Chef de projet", and "Graphiste", with "Développeur" currently selected. At the bottom is a large blue button with the text "Valider" in white. The overall design is clean and modern, utilizing Bootstrap's styling.

Case à cocher et radio

Bootstrap

```
<form>
  <div class="form-check">
    <input type="checkbox" class="form-check-input">
    <label class="form-check-label">recevoir la newsletter</label>
  </div>

  <div class="form-check">
    <input type="radio" class="form-check-input" name="sex">
    <label class="form-check-label">femme</label>
  </div>

  <div class="form-check">
    <input type="radio" class="form-check-input" name="sex">
    <label class="form-check-label">homme</label>
  </div>
</form>
```

- recevoir la newsletter
- femme
- homme