B2 | UE2 - DÉVELOPPEMENT WEB

BOOTSTRAP & LAYOUTS

ESD - 2018/2019

DESCRIPTION & OBJECTIVES

- Learn Bootstrap basics
- Build **card grids** with Bootstrap
- Build **column layouts** with Flexbox

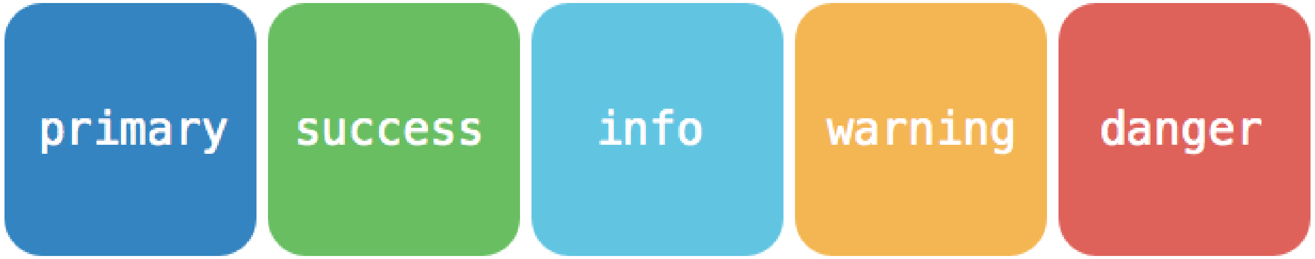
WHEN DO WE NEED BOOTSTRAP ?

- Simple components like buttons and forms
- Javascript components like dropdowns or modals
- Responsive card grids

- Advanced components (cards, tabs, etc...)
=> use your own design
- Column or grid layouts => use flexbox or CSS grid

WHAT ARE USEFUL BOOTSTRAP CLASSES ?

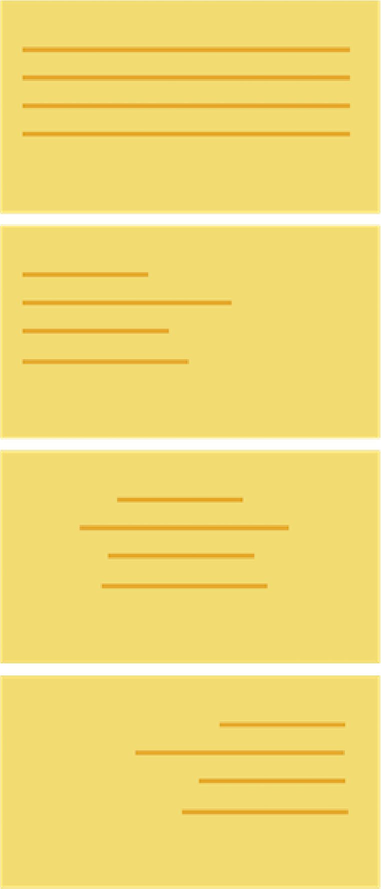
Semantic scheme



primary success info warning danger

WHAT ARE USEFUL BOOTSTRAP CLASSES ?

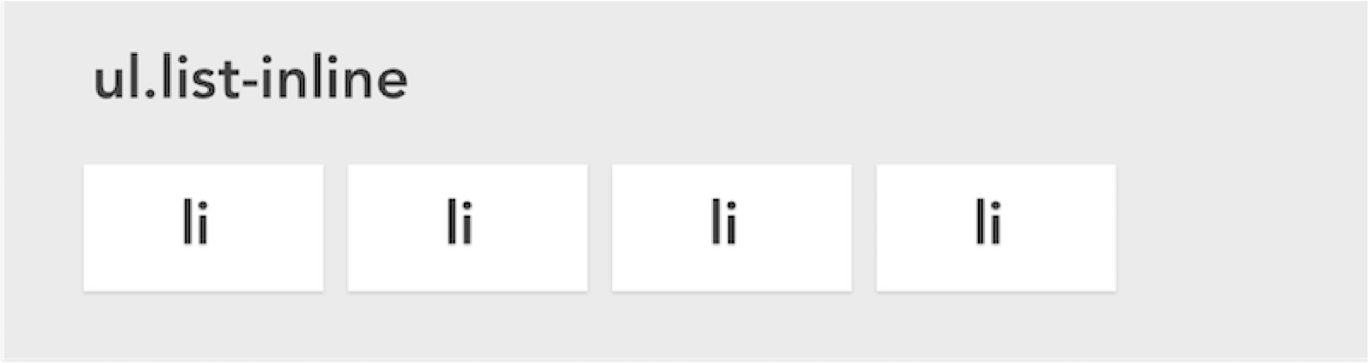
Alignment

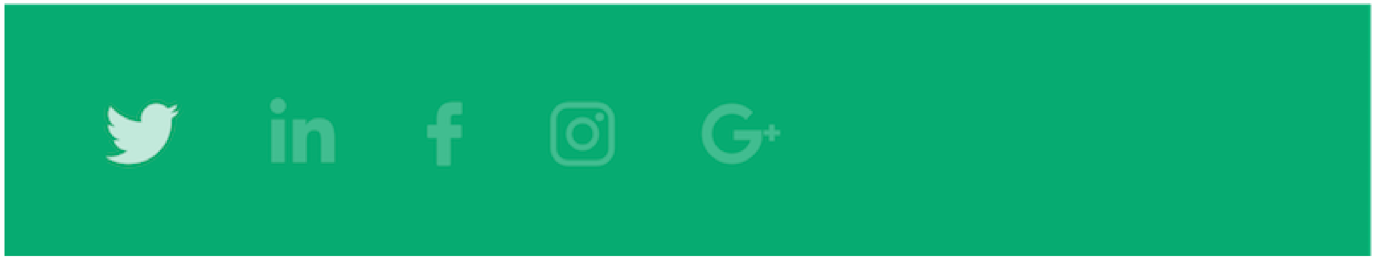


```
<div class=‘text-justify’></div>

<div class=‘text-left’></div>

<div class=‘text-center’></div>

<div class=‘text-right’></div>
```

WHAT ARE USEFUL BOOTSTRAP CLASSES ?

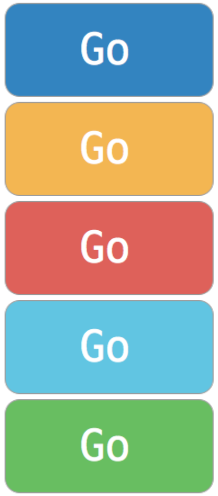
List inline





WHAT ARE USEFUL BOOTSTRAP CLASSES ?

Buttons



```
<a class=‘btn btn-primary’ href=‘#’>Go</a>
<a class=‘btn btn-warning’ href=‘#’>Go</a>
<a class=‘btn btn-danger’ href=‘#’>Go</a>
<a class=‘btn btn-info’ href=‘#’>Go</a>
<a class=‘btn btn-success’ href=‘#’>Go</a>
```

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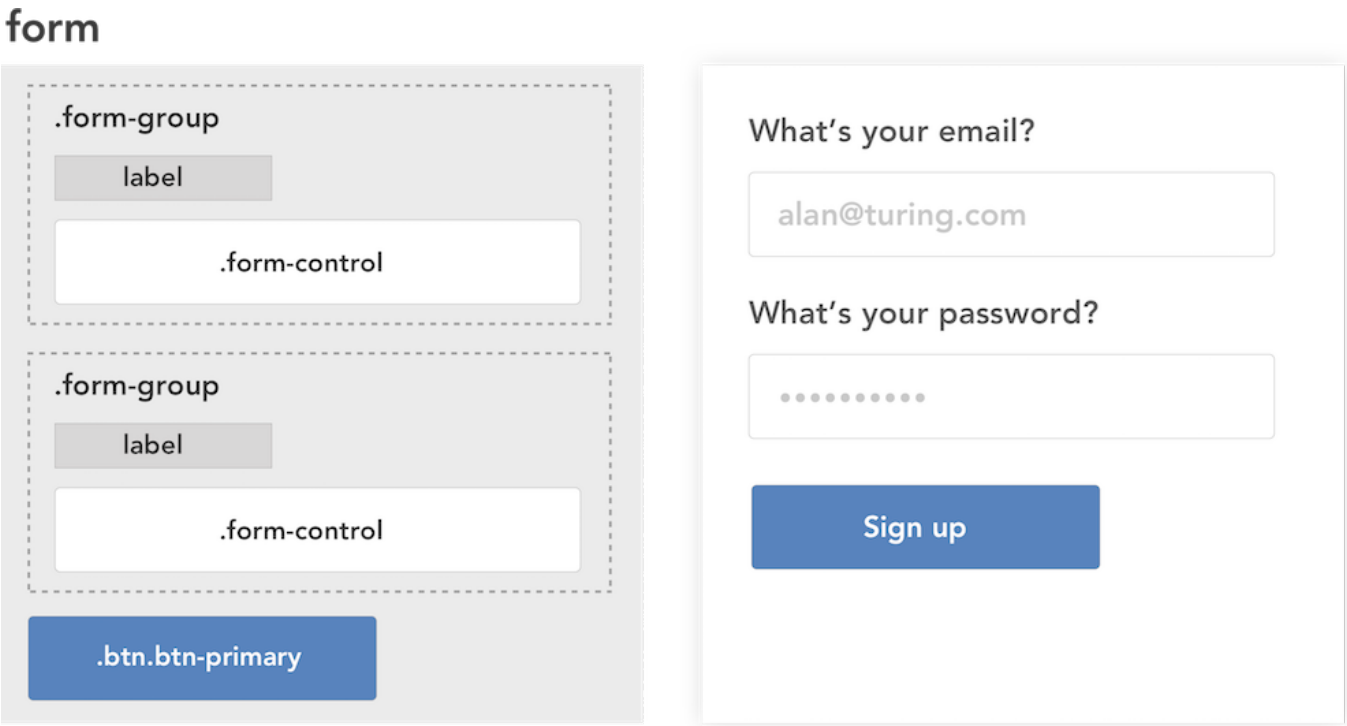
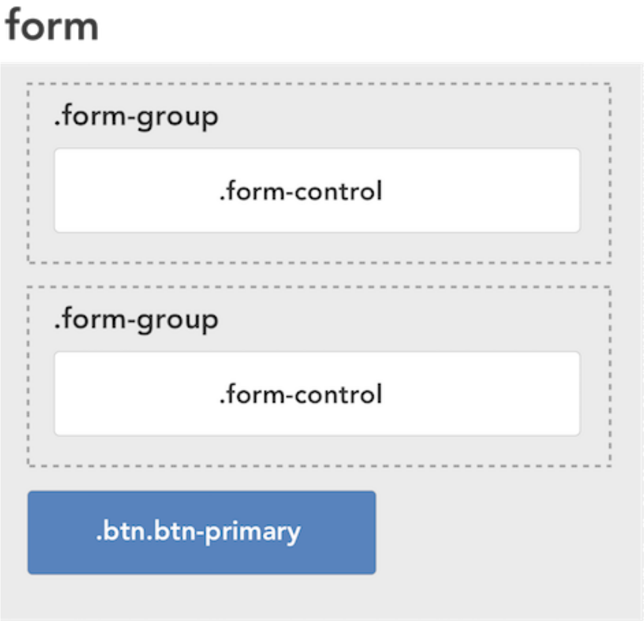
WHAT ARE USEFUL BOOTSTRAP CLASSES ?

Form with labels



WHAT ARE USEFUL BOOTSTRAP CLASSES ?

Form without labels



form

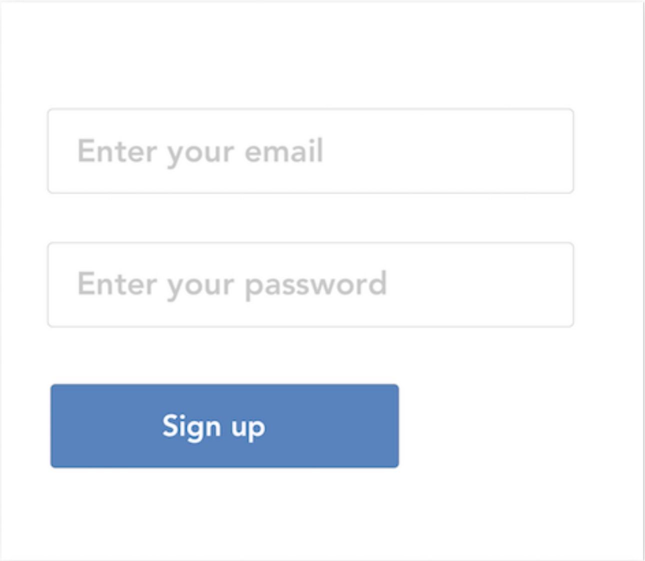
.form-group

.form-control

.form-group

.form-control

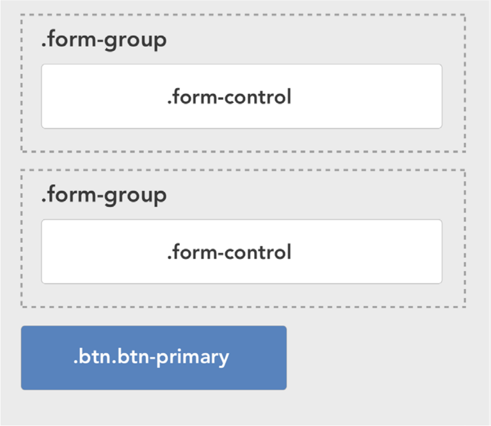
.btn.btn-primary

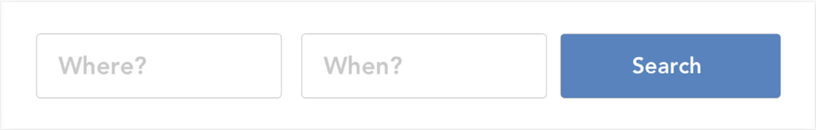


WHAT ARE USEFUL BOOTSTRAP CLASSES ?

Form inline

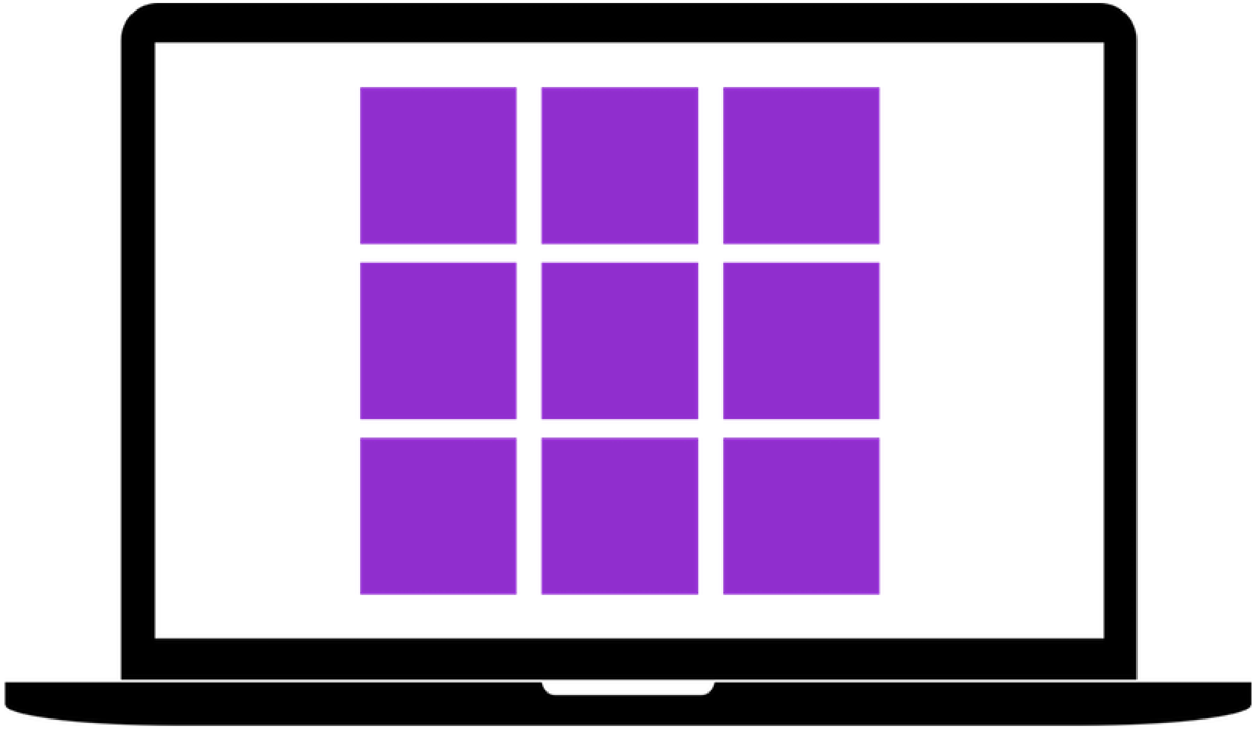
form.form-inline





BOOTSTRAP GRID

Responsive **card grids** :
Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device size increases



BOOTSTRAP GRID

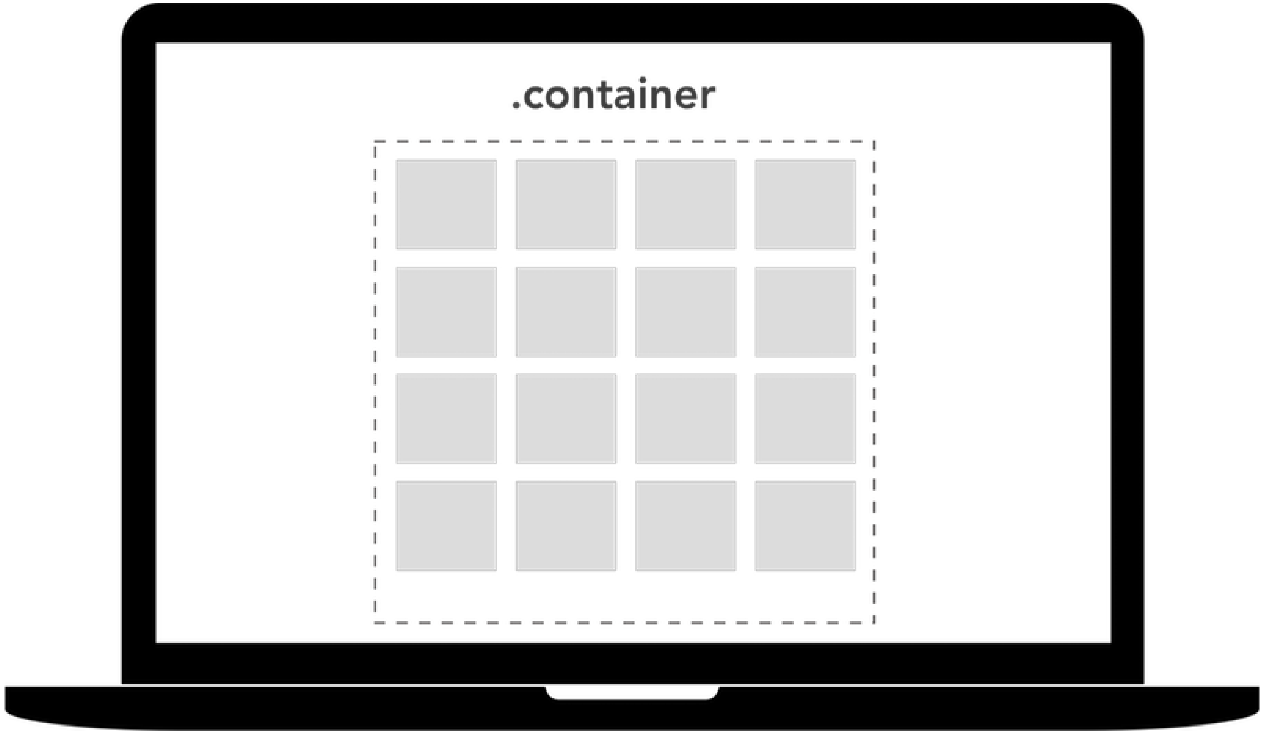
Responsive

BOOTSTRAP GRID

Mobile-first

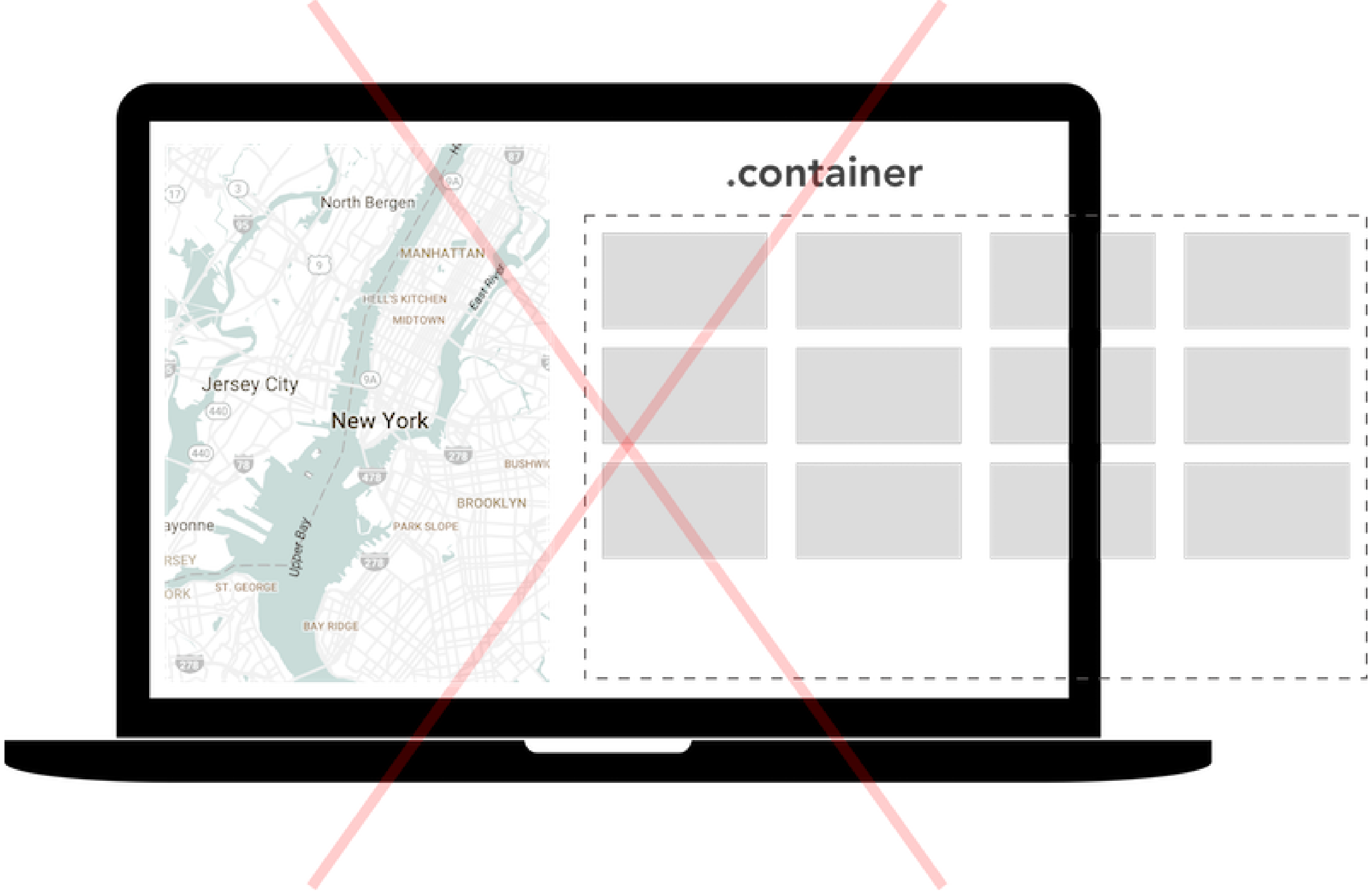
FULL-PAGE GRID

Start with a container as usual



INNER-SECTION GRID

Container's width is set in pixels,
so don't use container



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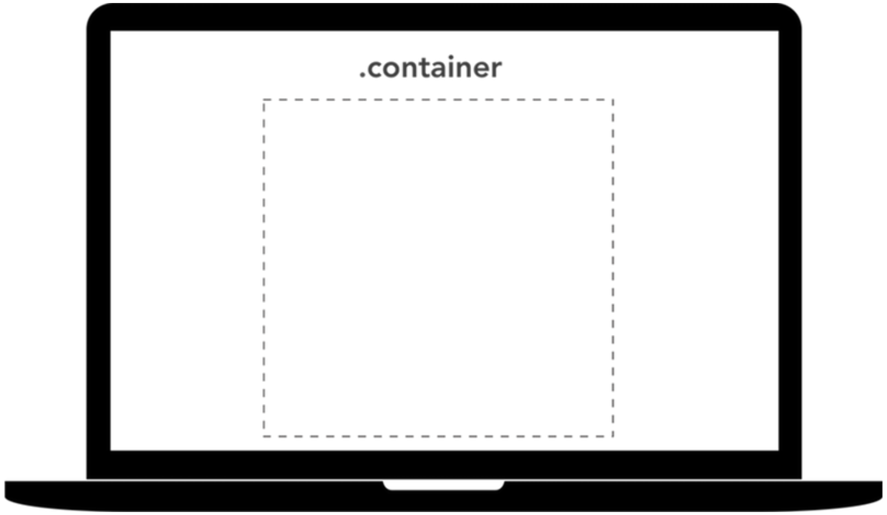
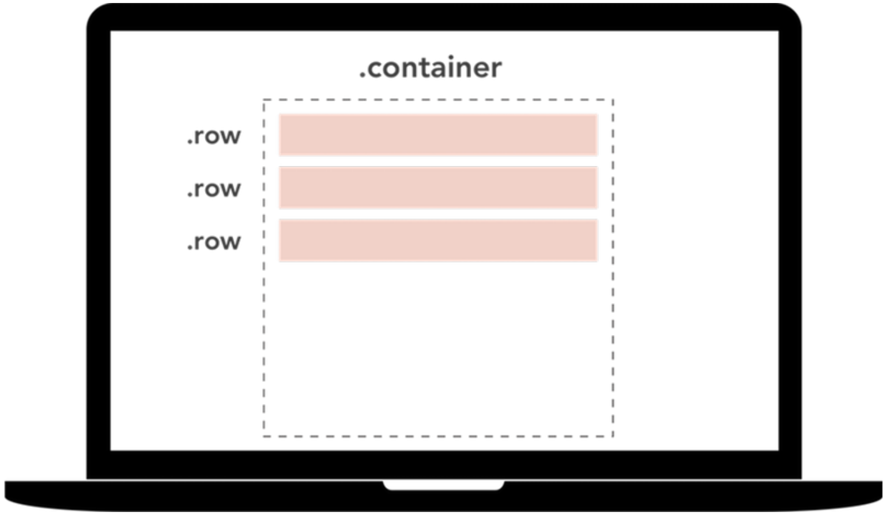
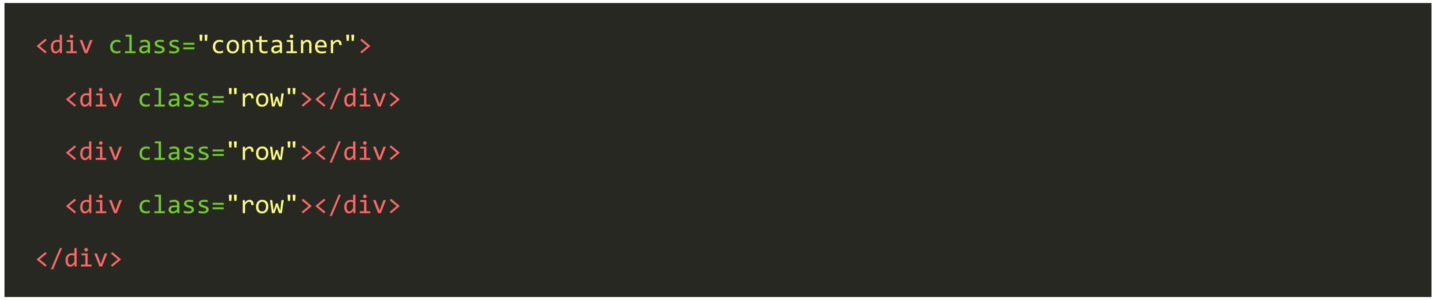
BUILD A FULL-PAGE GRID



```
<div class="container">
  <!-- Inject the grid here -->
</div>
```

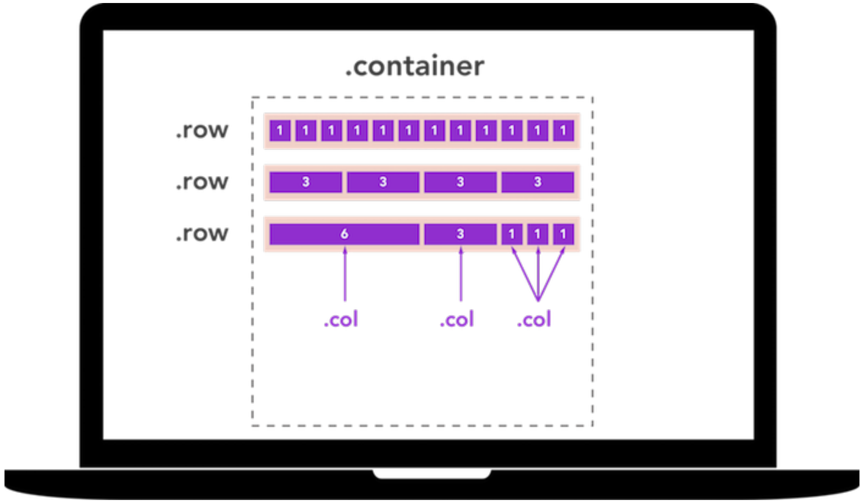
BUILD A FULL-PAGE GRID

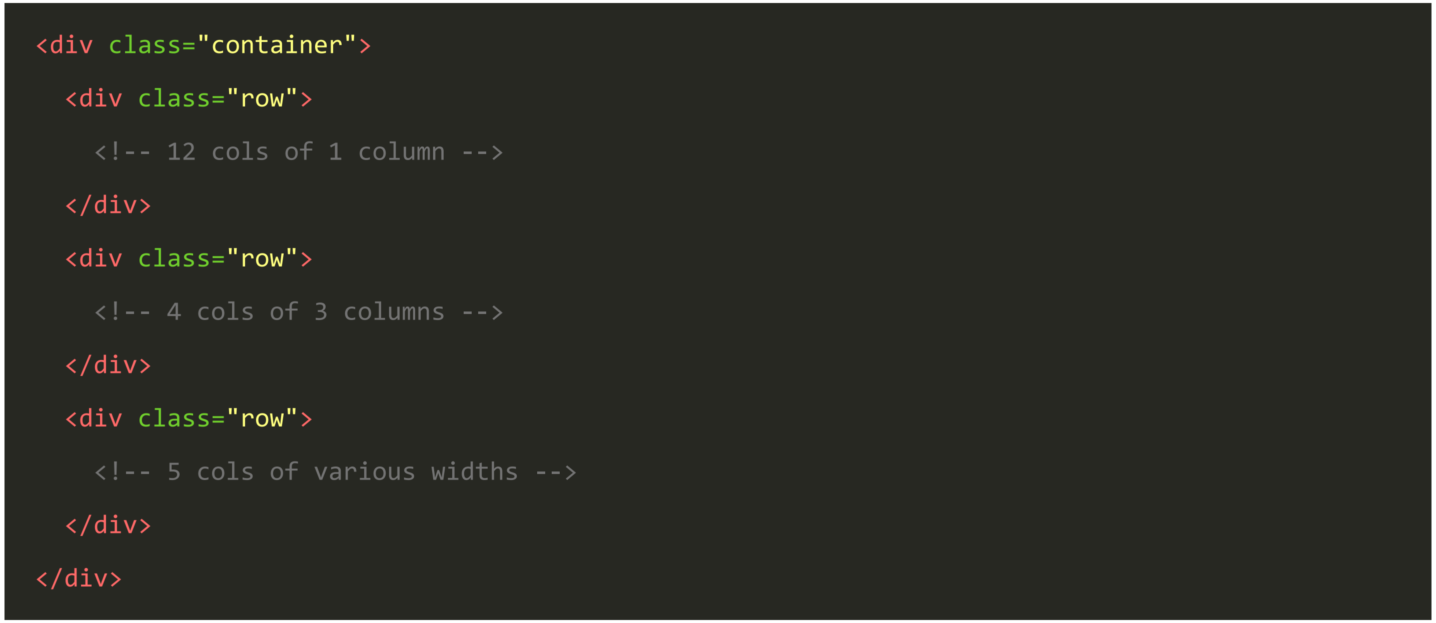




```
<div class="container">
  <div class="row"></div>
  <div class="row"></div>
  <div class="row"></div>
</div>
```

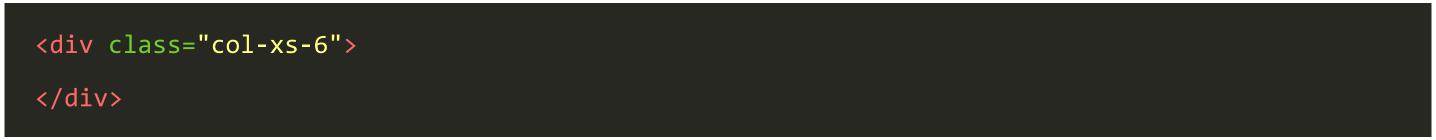
BUILD A FULL-PAGE GRID





```
<div class="container">
  <div class="row">
    <!-- 12 cols of 1 column -->
  </div>
  <div class="row">
    <!-- 4 cols of 3 columns -->
  </div>
  <div class="row">
    <!-- 5 cols of various widths -->
  </div>
</div>
```

WHAT'S IN THE ROW?



```
<div class="col-xs-6">
</div>
```

- **col**: because it fits a number of columns
- **xs**: screen width
- **6**: number of columns taken by the block (max 12)

DEVICES

- **xs**: Extra small devices (Phones < 768px)
- **sm**: Small devices (Tablets > 768px)
- **md**: Medium devices (> 992px)
- **lg**: Large devices (Desktops > 1200px)

QUIZZ

What **.col-xs-6** and **.col-md-3** mean with simple words?

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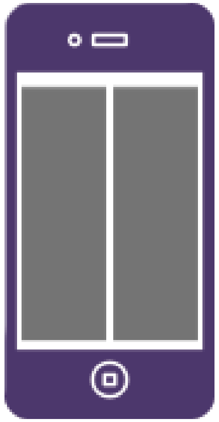
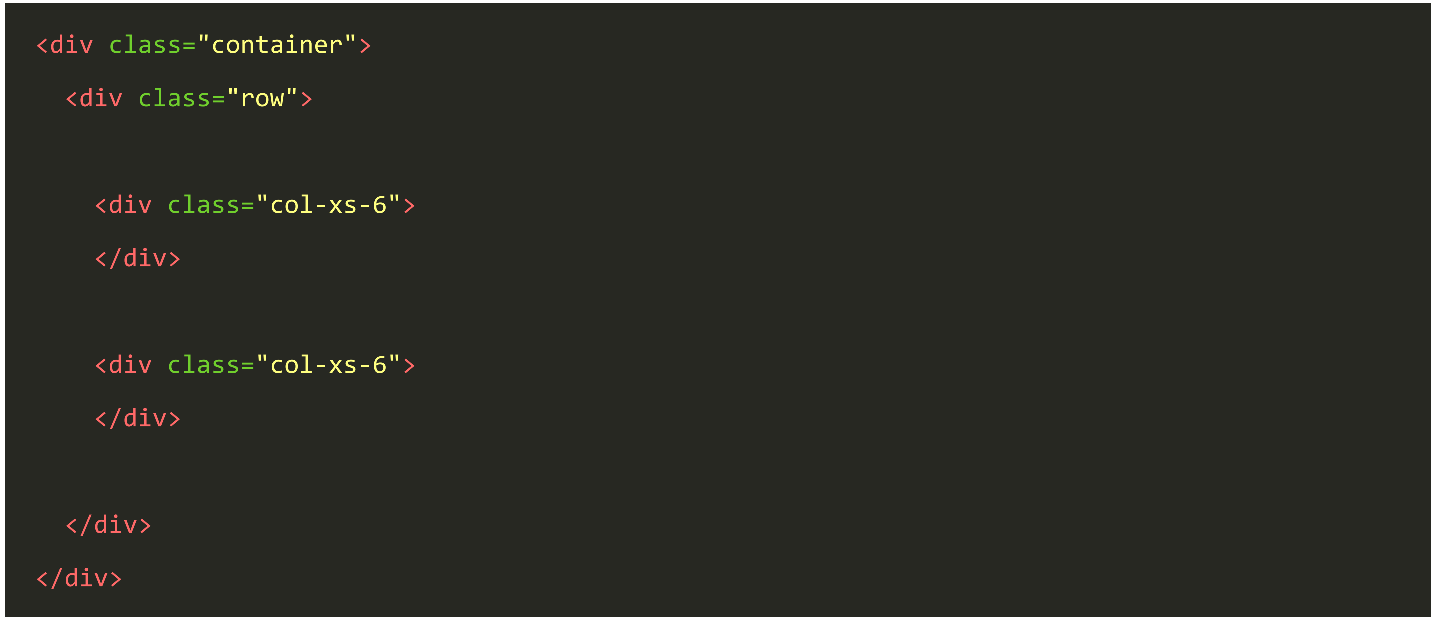
EXAMPLE (1 ROW, 2 COLUMNS)



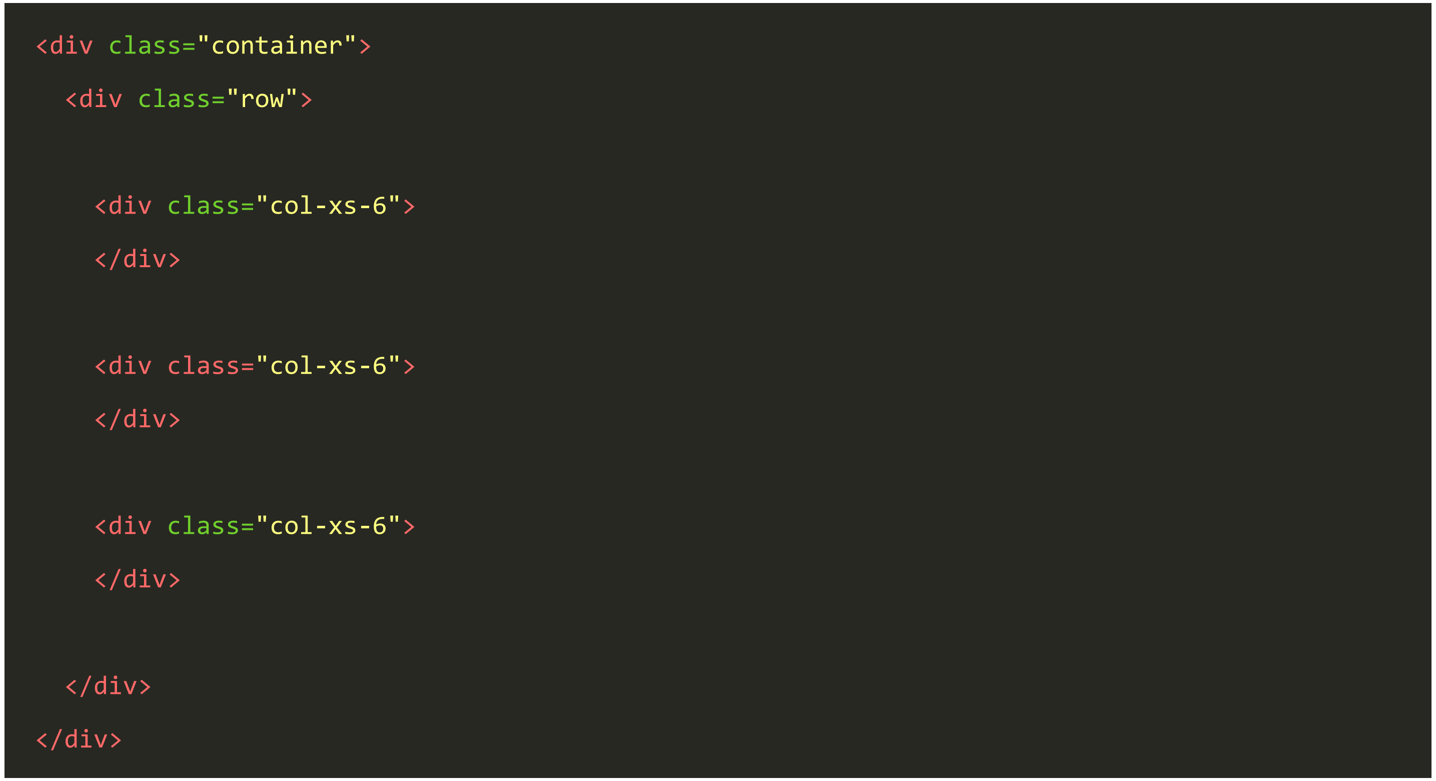


```
<div class="container">
  <div class="row">

    <div class="col-xs-6">
    </div>

    <div class="col-xs-6">
    </div>

  </div>
</div>
```

MOBILE FIRST

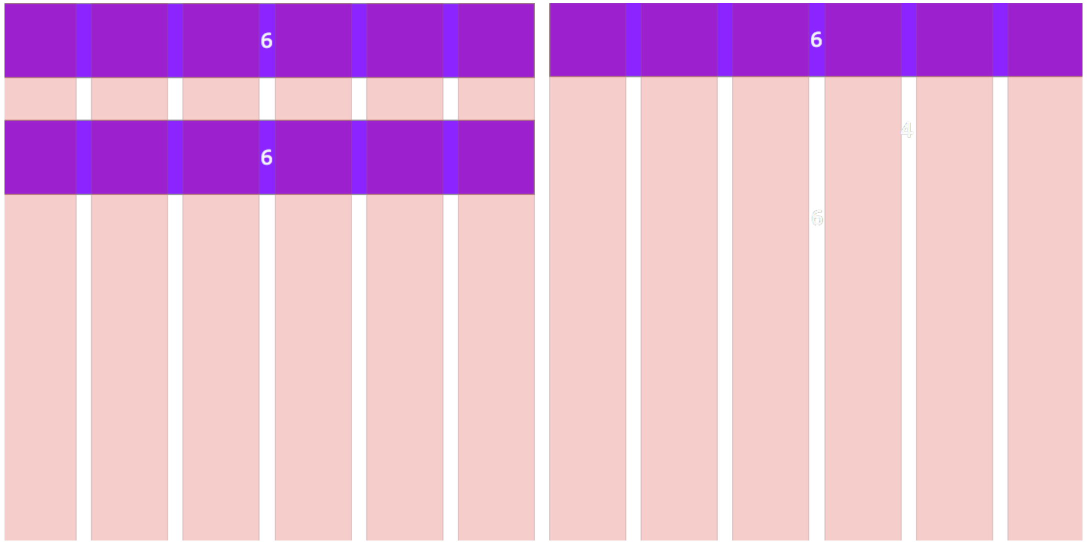
If you just give the .col-xs classes it will apply
on **all larger screens**

NOW WHAT HAPPENS?



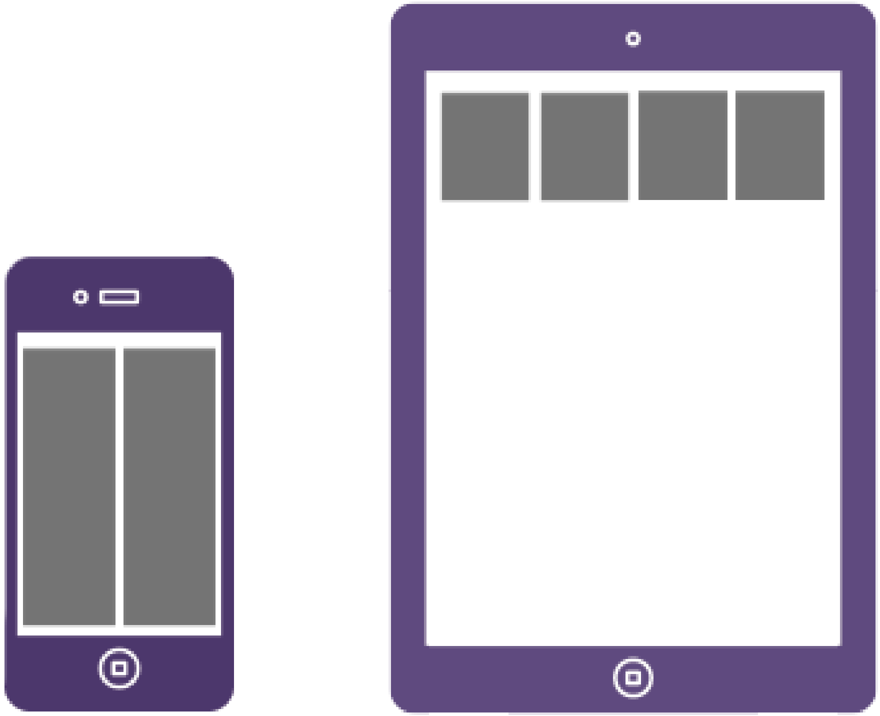
```
<div class="container">
  <div class="row">

    <div class="col-xs-6">
    </div>

    <div class="col-xs-6">
    </div>

    <div class="col-xs-6">
    </div>

  </div>
</div>
```

JUST RETURN ON NEW LINE

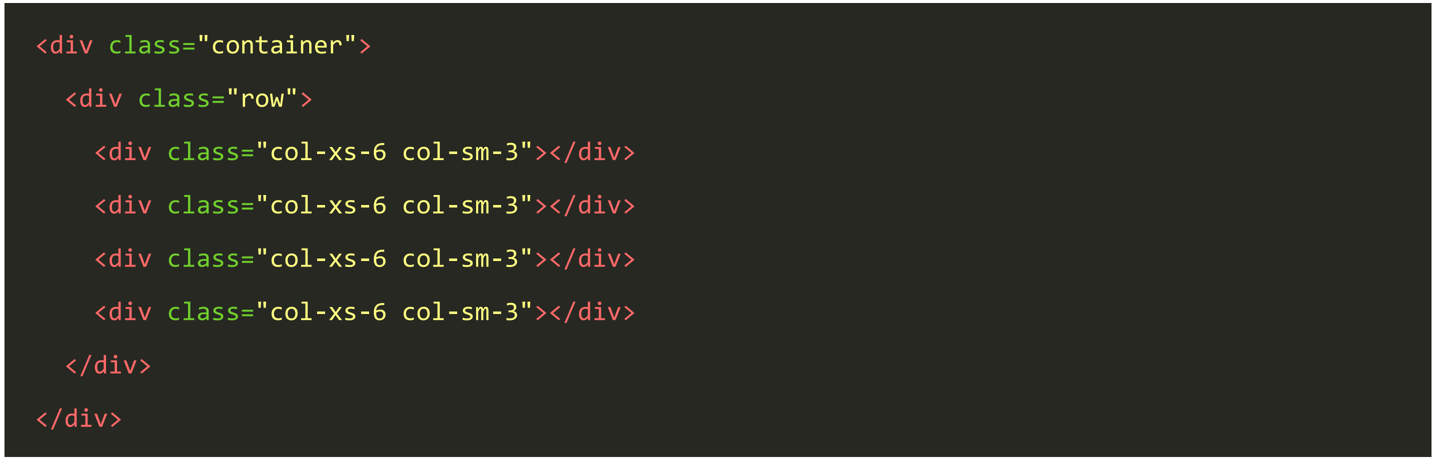


RESPONSIVE EXAMPLE

We want this **responsive** behavior

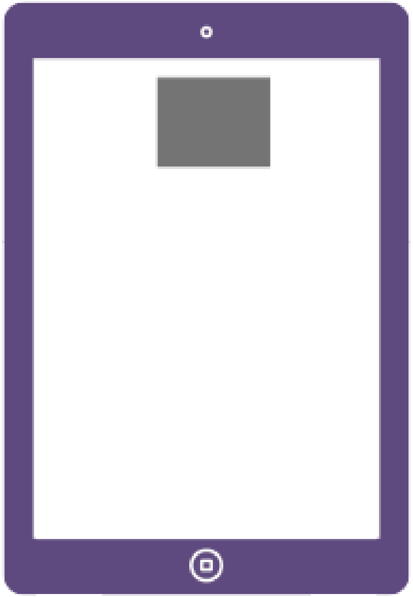


HOW WILL YOU DO ?



```
<div class="container">
  <div class="row">
    <div class="col-xs-6 col-sm-3"></div>
    <div class="col-xs-6 col-sm-3"></div>
    <div class="col-xs-6 col-sm-3"></div>
    <div class="col-xs-6 col-sm-3"></div>
  </div>
</div>
```

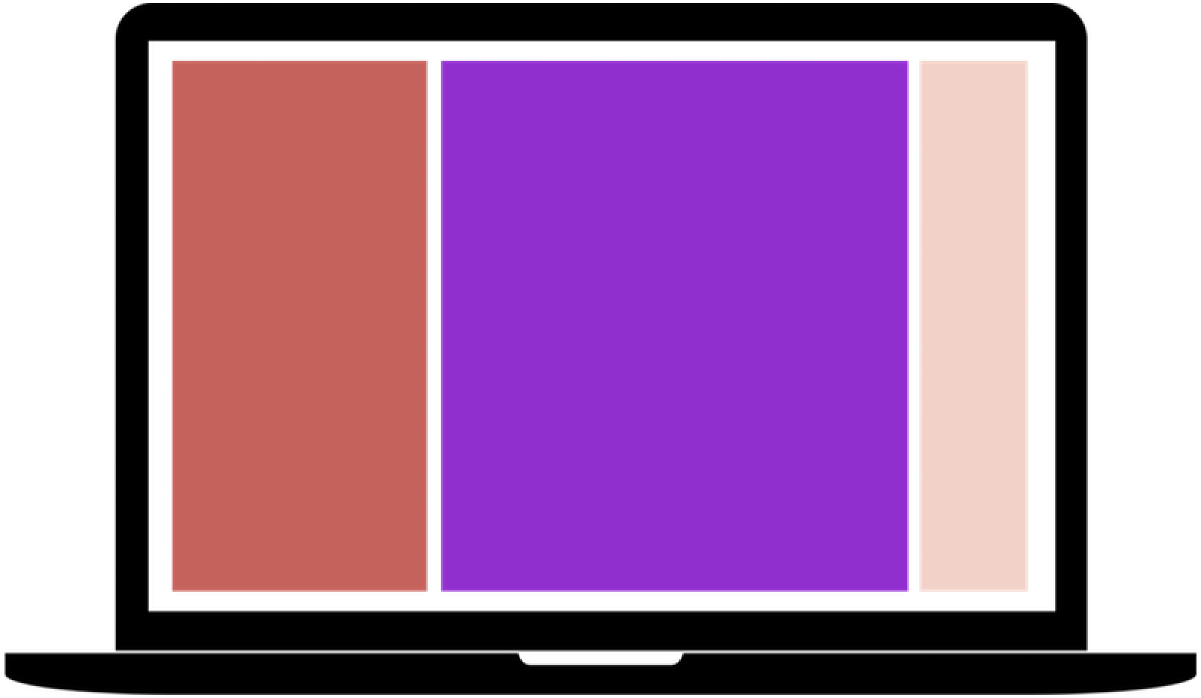
OFFSETTING BLOCKS



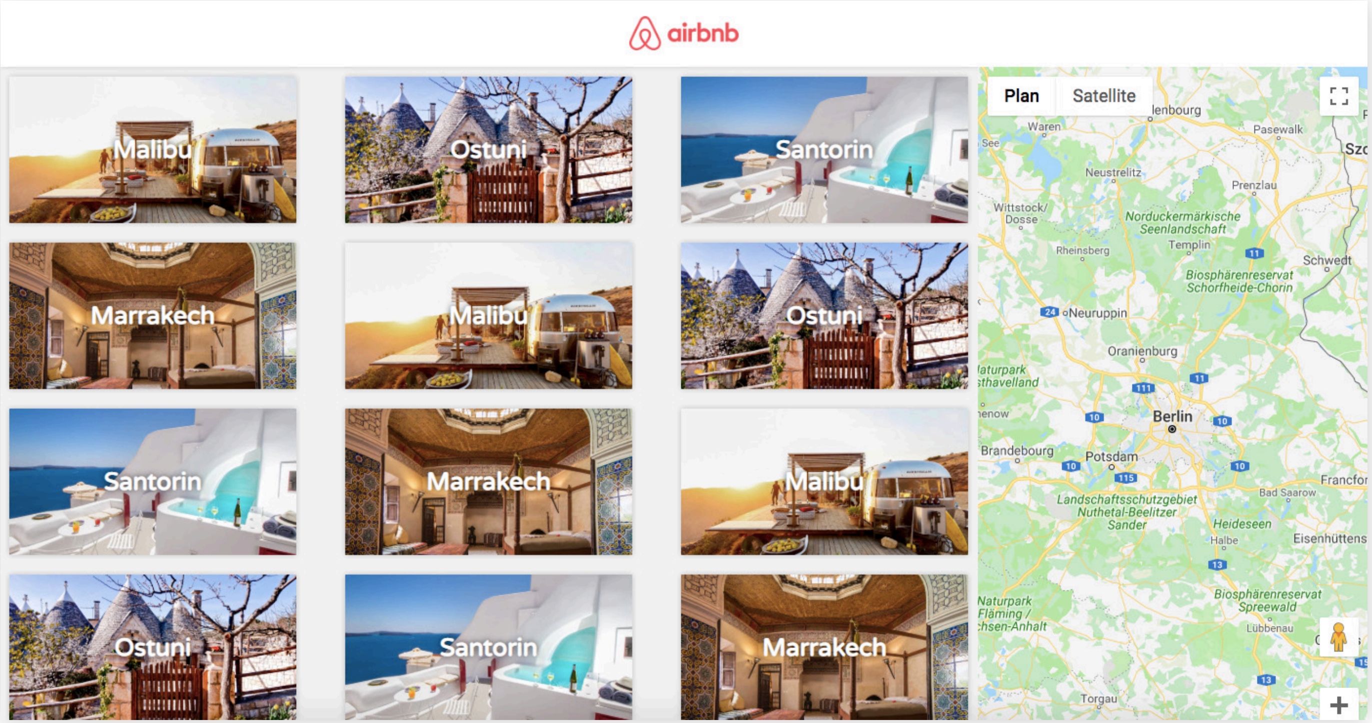
```
<div class="container">
  <div class="row">
    <div class="col-sm-offset-4 col-sm-4">
      <!-- This div is centered and takes 4 columns -->
    </div>
  </div>
</div>
```

COLUMN LAYOUTS

Split your page in columns with flexbox
(e.g. a sidebar, a map)



LET'S CODE THIS LAYOUT



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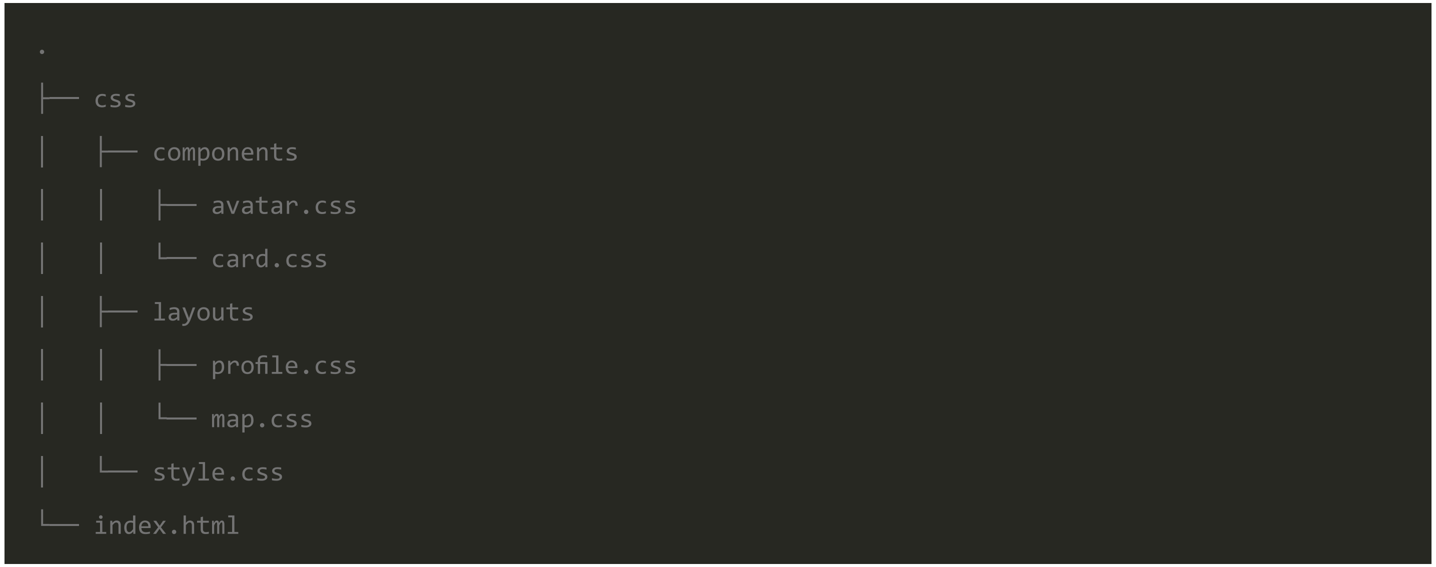
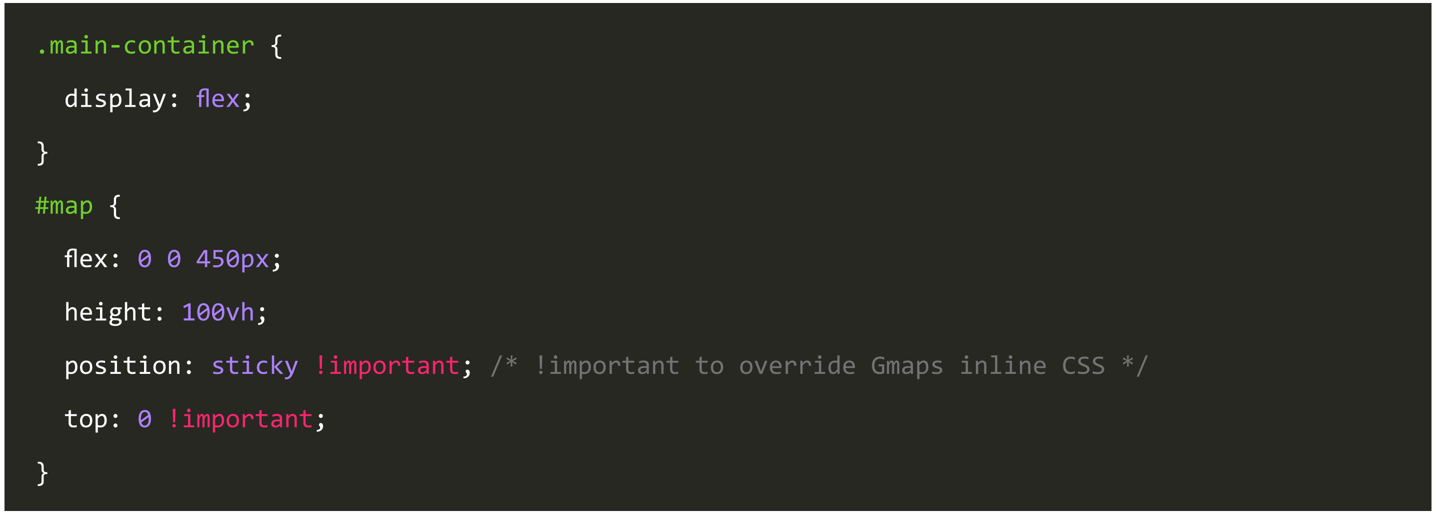
NEW CSS ORGANIZATION



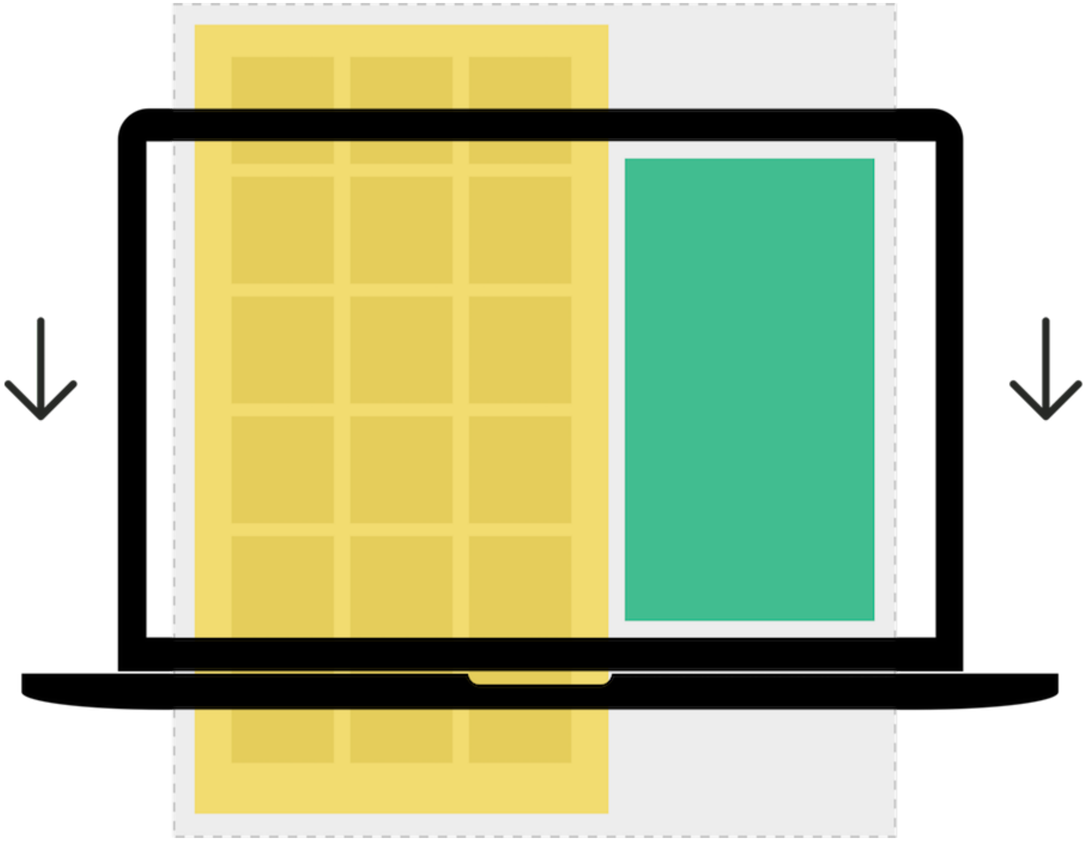
```
.
├── css
│   ├── components
│   │   ├── avatar.css
│   │   └── card.css
│   ├── layouts
│   │   ├── profile.css
│   │   └── map.css
│   └── style.css
└── index.html
```

COLUMN LAYOUTS



```css
.main-container {
  display: flex;
}
#map {
  flex: 0 0 450px;
  height: 100vh;
  position: sticky !important; /* !important to override Gmaps inline CSS */
  top: 0 !important;
}
```

COLUMN LAYOUTS



Let's code this layout