

HTML/CSS

Coding language

HTML



content
+ structure

CSS



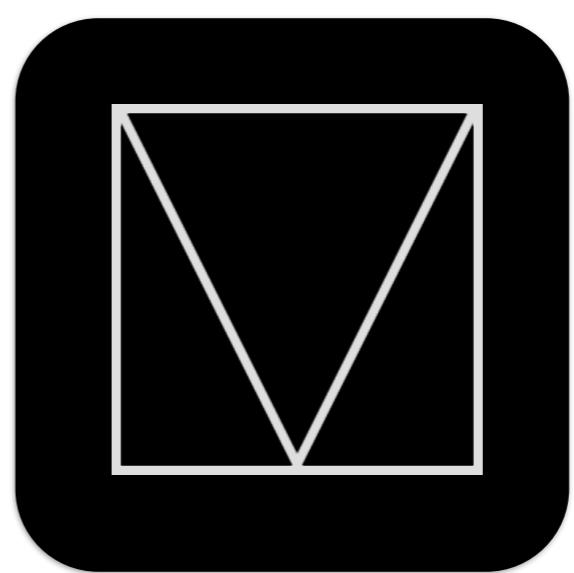
style

JS



dynamism
+ usability

CSS libraries



Workshop outline

Theoretical intros

Basic concepts to understand

Live-code demos

We code, you don't :)

Your turn

Take your time & have fun

Setup



1. Let's set up

Front-end languages

HTML



CSS



JS



Structure

HTML



Structure your content

Design

css



Design your content

Animation



Animate your content

HTML

Without structure, no design

Different contents

some text content..

some other content..

some third content..

Tag them

some text content..

h1

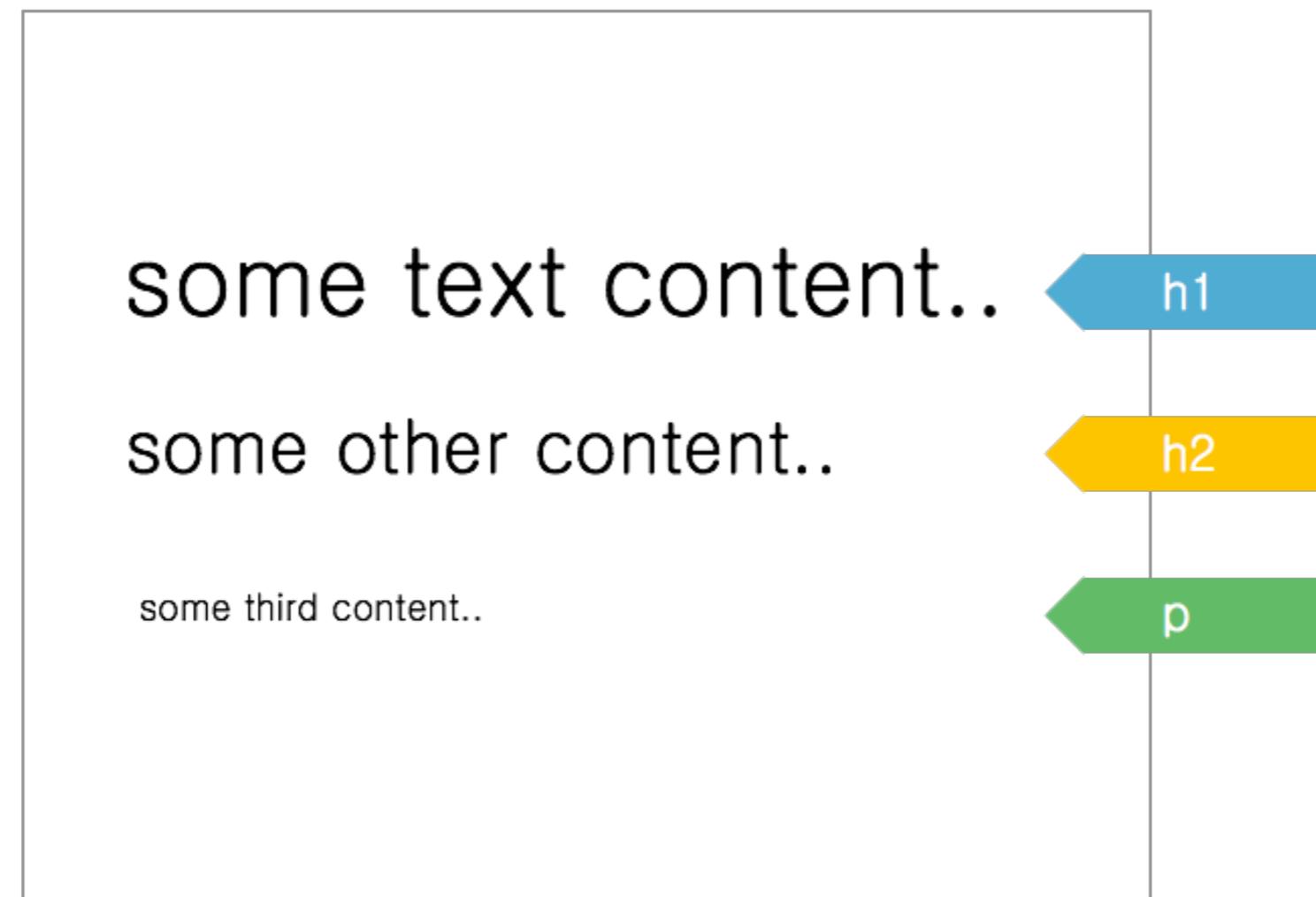
some other content..

h2

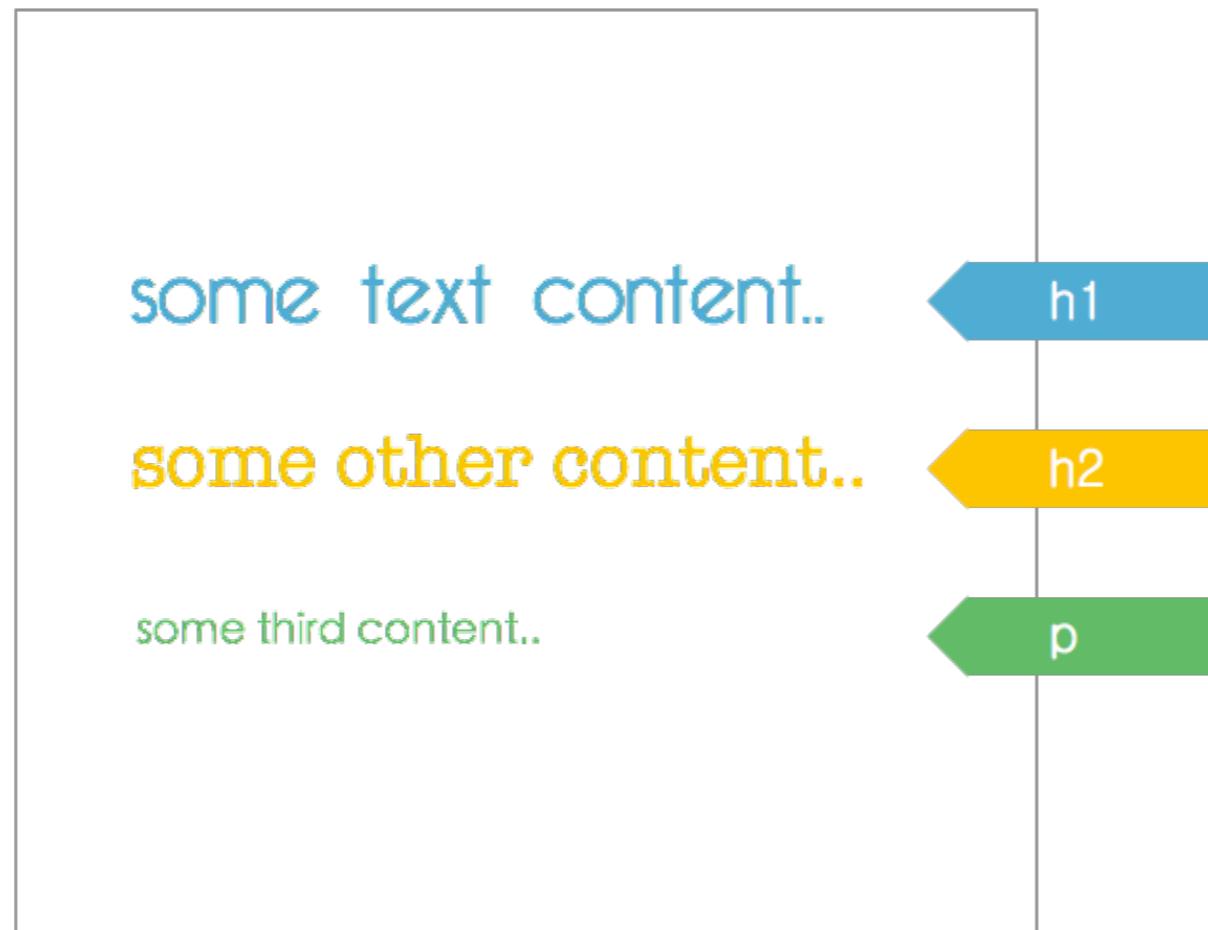
some third content..

p

Browser apply defaults



Over-ride with CSS



Skeleton

<!DOCTYPE html>

<!-- end of file -->

Skeleton

```
<!DOCTYPE html>
```

```
<html>
```

```
<!-- html code -->
```

```
</html>
```

```
<!-- end of file -->
```

Head & body

```
<!DOCTYPE html>
<html>
  <head>
    <!-- Intelligence (meta-data) -->
  </head>
  <body>
    <!-- Stuff to display-->
  </body>
</html>
<!-- end of file -->
```

Title & utf-8

```
<!DOCTYPE html>
<html>
  <head>
    <title>Landing</title>
    <meta charset="utf-8">
  </head>
  <body>
    <!-- Stuff to display-->
  </body>
</html>
<!-- end of file -->
```

Head & google

```
<head>  
    <title>Le Wagon - Apprendre..</title>  
    <meta name="description" content="Le Wagon est la...">  
</head>
```

[Le Wagon - Apprendre à coder - Bootcamp en Ruby on ...](#)

www.lewagon.org/ ▾

Le Wagon est la meilleure formation au développement web en France. Allez voir par vous-même les projets codés par nos anciens élèves !

Vous avez consulté cette page de nombreuses fois. Date de la dernière visite : 12/10/14

Head & Facebook

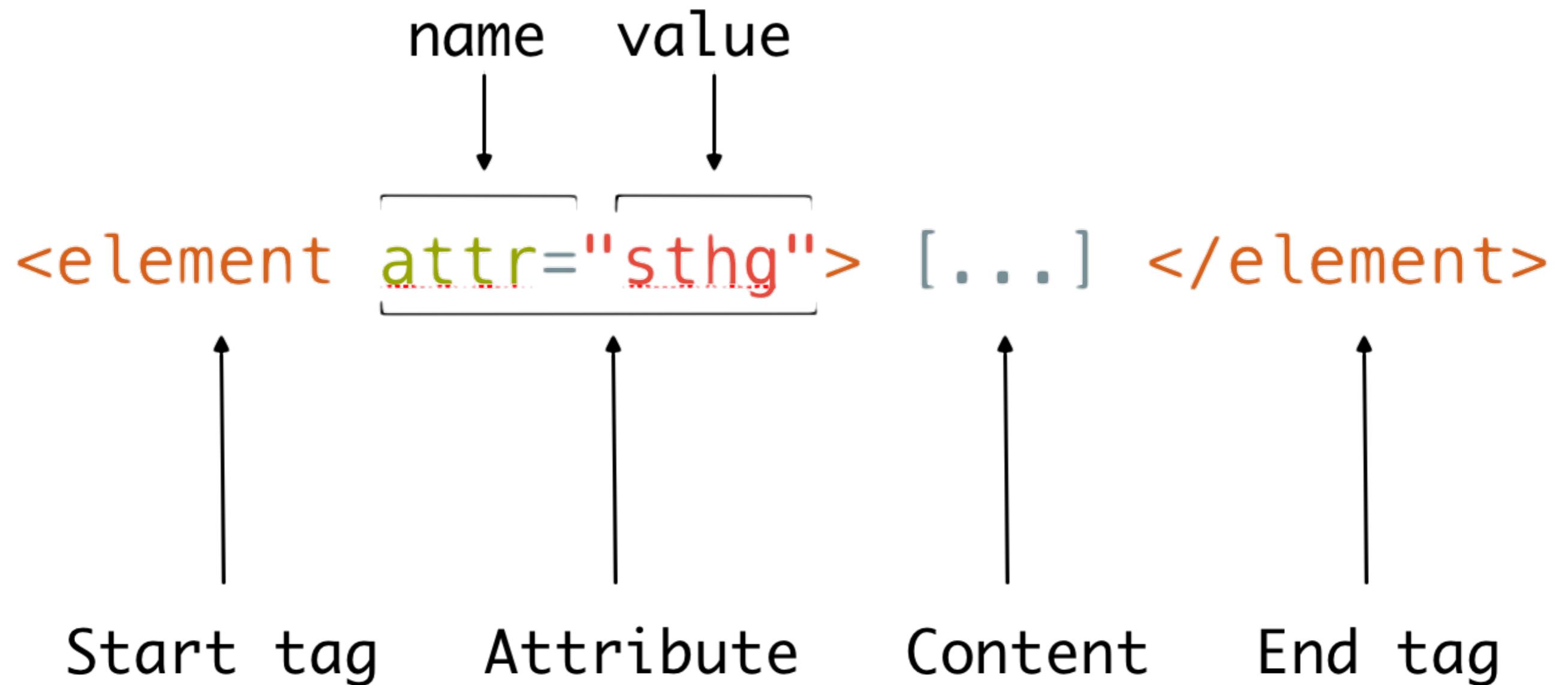
<head>

```
<meta property="og:title" content="le Wagon - The..">
<meta property="og:image" content="facebook-card.jpg">
<meta property="og:description" content="Le Wagon is the...">
```

</head>



Core syntax



Syntax example

```
<a href="http://lewagon.org" target="_blank">  
  Le Wagon  
</a>
```



Le Wagon

What is the **tag name**?
What is the **content**?
What are the two **attributes**?

HTML - titles

```
<h1>[...]</h1>
<h2>[...]</h2>
<h3>[...]</h3>
<h4>[...]</h4>
<h5>[...]</h5>
<h6>[...]</h6>
```

HTML - paragraph

```
<p>  
    Lorem ipsum dolor sit amet, consectetur  
    adipisicing elit.Veritatis laboriosam  
    autem at ab omnis iure quis  
</p>
```

HTML - emphasize

<p>

You can emphasise <**em**>some words</**em**>, and even <**strong**>more if needed</**strong**>

</p>

HTML - list

```
<h2>Shopping list</h2>
```

```
<ul>
```

```
    <li>Milk</li>
```

```
    <li> Butter </li>
```

```
</ul>
```

```
<h2>World Cup 2014</h2>
```

```
<ol>
```

```
    <li>Germany</li>
```

```
    <li>Argentina</li>
```

```
</ol>
```

HTML - image

```

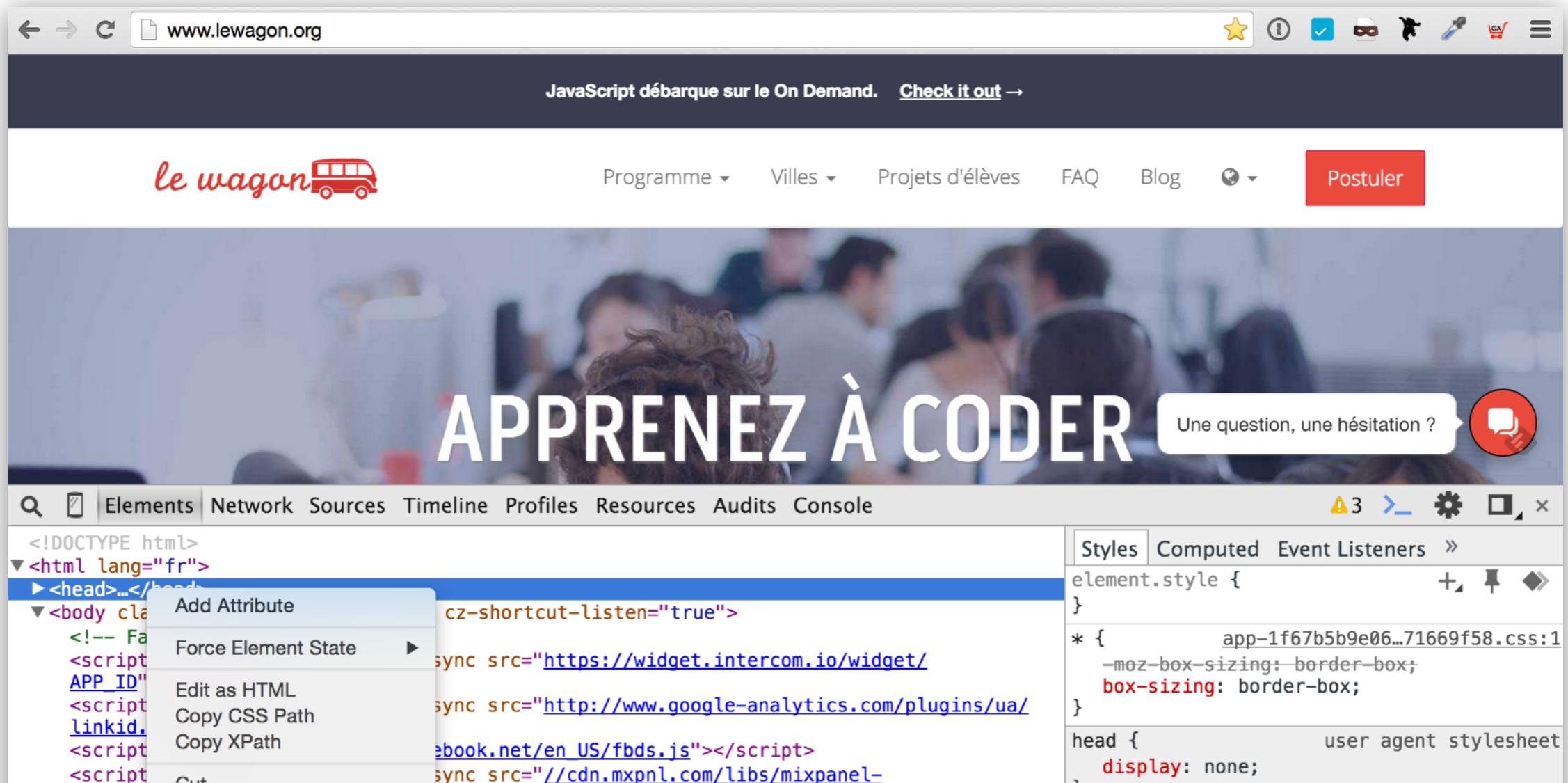
```

2. Let's add HTML content

CSS

Web without CSS ?

Let's find a page and cut its head!



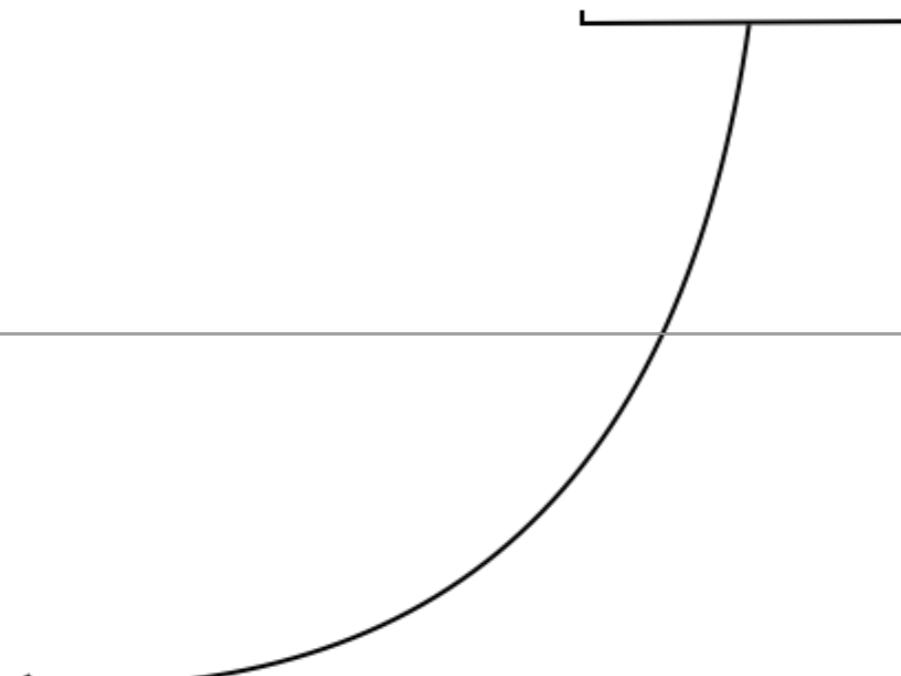
Linking stylesheets

index.html

```
1 <head>
2   <link rel="stylesheet" href="style.css">
3 </head>
4 <body>
5   <h1>Hello</h1>
6 </body>
```

style.css

```
1 h1 {
2   color: red;
3 }
```



CSS syntax

```
1 selector {  
2   property: value;  
3   property: value;  
4   property: value;  
5 }
```

selection of one or more elements of the page..

..on which we define style rules

CSS vocabulary

```
1 selector {  
2   property: value;  
3   property: value;  
4   property: value;  
5 }
```

↓

CSS selector

← **style rules**

↑

style properties

Use the good **keywords** on Google

CSS example



we select
all **<h2>** of the page

```
1 h2 {  
2   color: red;  
3   font-size: 20px;  
4   font-family: arial;  
5 }
```

Colors

```
h2 {  
    color: orange;  
    color: #FF530D;  
    color: rgb(255, 83, 13);  
    color: rgba(255, 83, 13, 1.0);  
}
```



RGB tips



Text vs. Background

```
1 body {  
2   color: orange;  
3   background-color: yellow;  
4 }
```

text color

background color

Background images

```
1 body {  
2   color: orange;  
3   background-image: url("background.jpg");  
4 }
```

background-image



Font family

A

serif

font-family

font-size

line-height

font-weight

letter-spacing

color

text-decoration

text-align

font-style

text-transform

Font family

A

sans-serif

font-family
font-size
line-height
font-weight
letter-spacing
color
text-decoration
text-align
font-style
text-transform

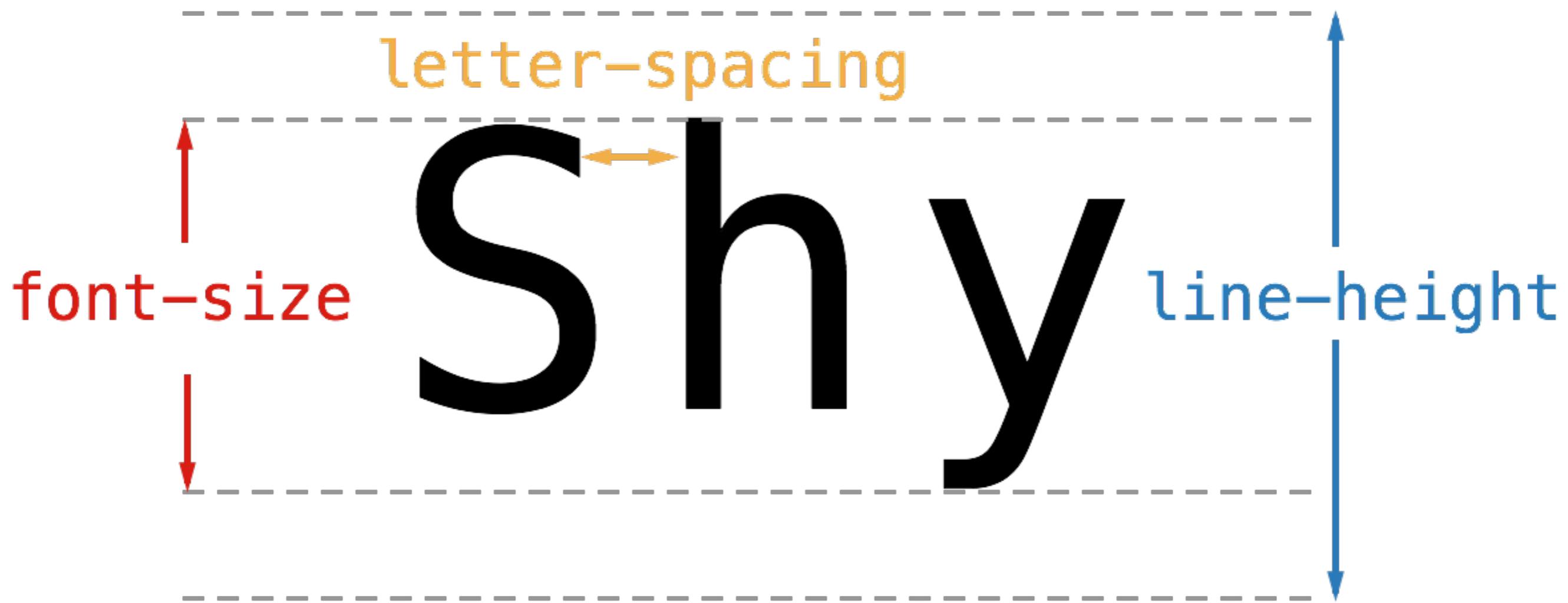
Font family

a b

monospace

font-family
font-size
line-height
font-weight
letter-spacing
color
text-decoration
text-align
font-style
text-transform

Font size & spacing



Font color

ab

color: green;

font-family
font-size
line-height
font-weight
letter-spacing
color
text-decoration
text-align
font-style
text-transform

Font decoration

ab

text-decoration: underline;

font-family
font-size
line-height
font-weight
letter-spacing
color
text-decoration
text-align
font-style
text-transform

Font alignment

this is a
paragraph
centered with **text-align**

text-align: center;

font-family
font-size
line-height
font-weight
letter-spacing
color
text-decoration
text-align
font-style
text-transform

Font weight

Helvetica Neue 25 Ultra Light

Helvetica Neue 35 Thin

Helvetica Neue 45 Light

Helvetica Neue 55 Roman

Helvetica Neue 65 Medium

Helvetica Neue 75 Bold

Helvetica Neue 85 Heavy

Helvetica Neue 95 Black

3. CSS for Fonts & Colors

Div & Box model

Real-life...

The screenshot shows the Airbnb website interface. At the top left is the Airbnb logo and a search bar with "Paris". To the right are user profile icons for "Boris" (with 5 notifications) and "AIDE", and a yellow button for "PUBLIEZ VOTRE ANNONCE".

Map: A map of the Paris region with numerous pink location pins. Labels include: Achères, Poissy, Argenteuil, Asnières-sur-Seine, Nanterre, Paris, Le Chesnay, Versailles, Clamart, Robins, Antony, Massy, Palaiseau, Gif-sur-Yvette, Les Ulis, Limours, Forges-les-Bains, Garges-lès-Gonesse, Saint-Denis, Aulnay-sous-Bois, Bobigny, La Villette, Montreuil, Ivry-sur-Seine, Créteil, Orly, Athis-Mons, Savigny-sur-Orge, Viry-Châtillon, Forêt de Senart, Saint-Michel-sur-Orge, Évry, Moissy-Cramayel, and Corbeil-Essonnes.

Listings:

- Chambre d'étudiant, vue tour eiffel**: Logement entier, Tour Eiffel - Champ de Mars, ... 36€ Par nuit
- Very COOL flat // Heart of Paris.**: Logement entier, Invalides - Ecole Militaire, Paris 160€ Par nuit
- 2 connexions sociales**: A listing showing a living room with a grey sofa, red pillows, and a guitar in the background.

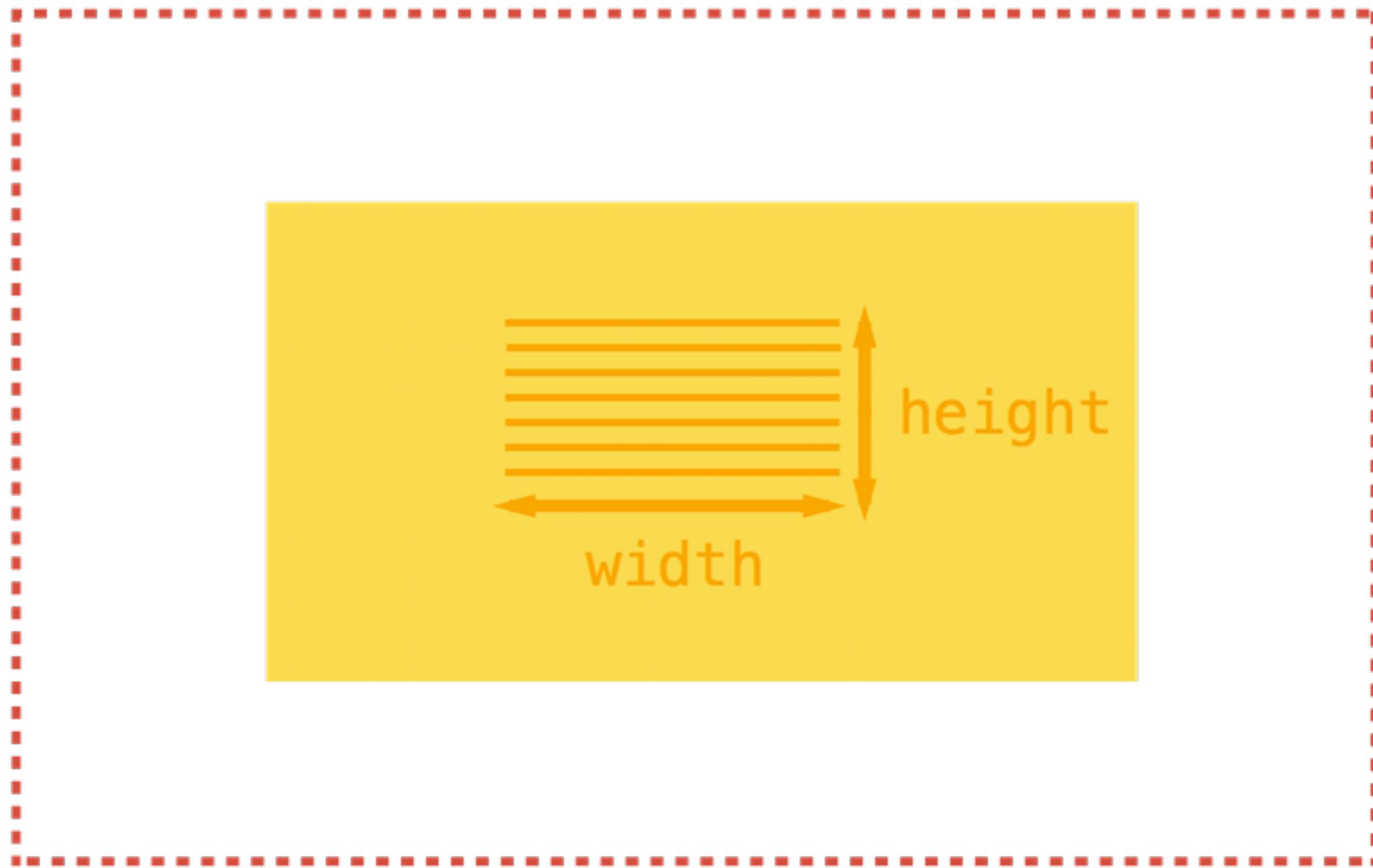
Div & Box model

...is made of div

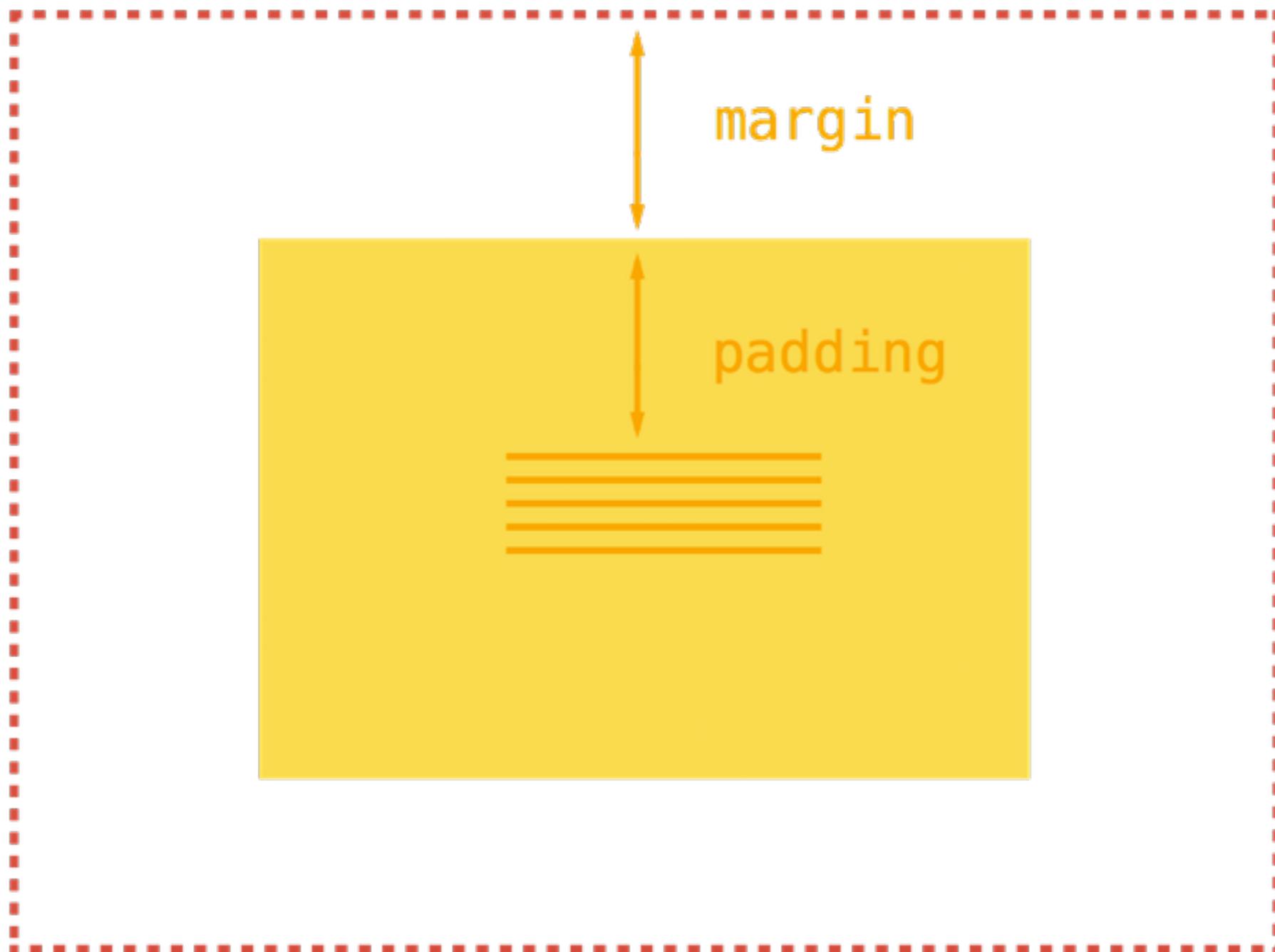
The image shows a screenshot of the Airbnb website with various elements highlighted by red boxes to demonstrate the Div & Box model. The highlighted areas include:

- The top navigation bar containing the Airbnb logo, a search input field with "Paris", and a search button.
- The sidebar on the right with user profile information ("Boris"), a message icon with a '5' notification, an "AIDE" link, and a "PUBLIEZ VOTRE ANNONCE" button.
- A map of the Paris region with numerous pink location pins. A specific pin in the center of Paris is highlighted with a red box and labeled "div".
- Two listing cards displayed below the map. The first listing, "Chambre d'étudiant, vue tour eiffel", includes a thumbnail image of the Eiffel Tower, a heart icon, the listing title, a small photo of the host, the price "36€ Par nuit", and a speech bubble icon with a '2'. This entire card is highlighted with a red box and labeled "div".
- The second listing, "Very COOL flat // Heart of Paris.", shows a thumbnail of a modern interior, a heart icon, the listing title, a host photo, the price "160€ Par nuit", and a speech bubble icon with a '5'. This listing is also highlighted with a red box and labeled "div".
- Below the main listing cards, there is a section titled "2 connexions sociales" (2 social connections) featuring a thumbnail of a room, a heart icon, and a "div" label.
- In the bottom right corner, a partial view of another listing card is visible, showing a thumbnail of a room and a "div" label.

Box model - content



Box model - margins



Box model - border

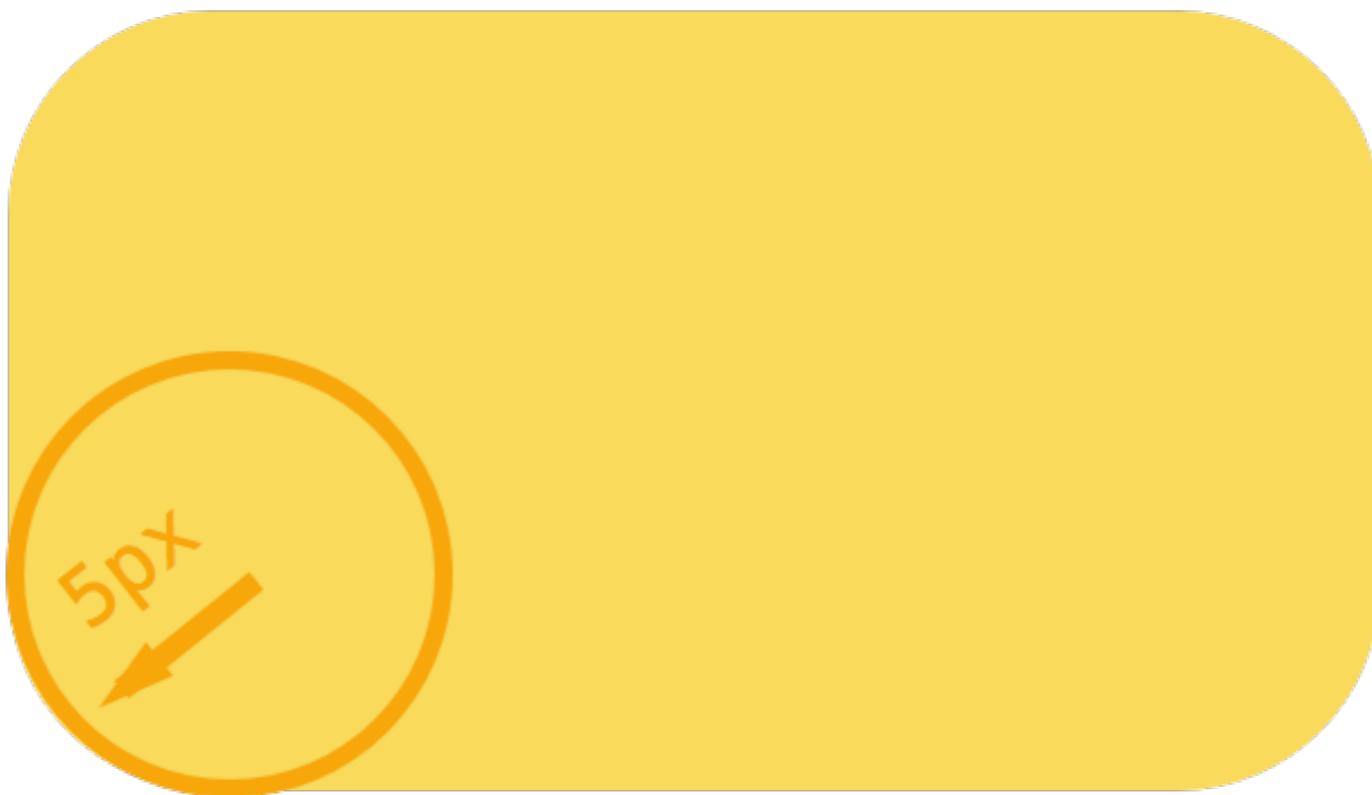


Box model - border

```
h2 {  
    border: 1px solid green;  
    border: 2px dashed #FF530D;  
}
```

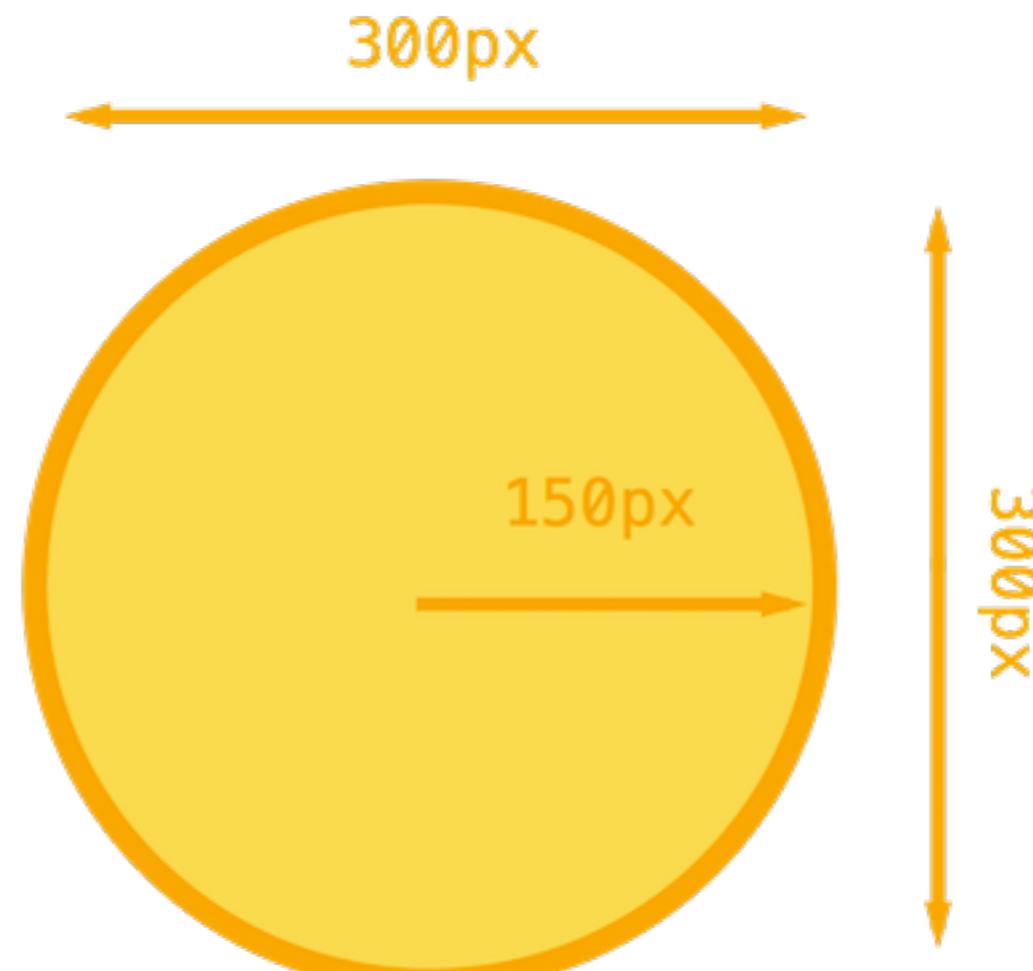


Box model - radius



`border-radius: 5px;`

Box model - radius



```
width: 300px;  
height: 300px;  
border-radius: 150px;
```

Box model - shadow



`box-shadow: 2px 2px 3px blue;`

4. Wrap with div

id & class

how do you resize the logo only?

HTML

```
1 
2
3 <ul>
4   <li></li>
5   <li></li>
6   <li></li>
7   <li></li>
8 </ul>
```

CSS

```
1 img {
2   width: 40px;
3 }
```



how do you resize the logo **only**?

HTML

```
1 
2
3 <ul>
4   <li></li>
5   <li></li>
6   <li></li>
7   <li></li>
8 </ul>
```

CSS

```
1 #logo {
2   width: 40px;
3 }
```



how do you style staff pictures only?

```
1 
2
3 <ul>
HTML 4   <li></li>
5   <li></li>
6   <li></li>
7   <li></li>
8 </ul>
```

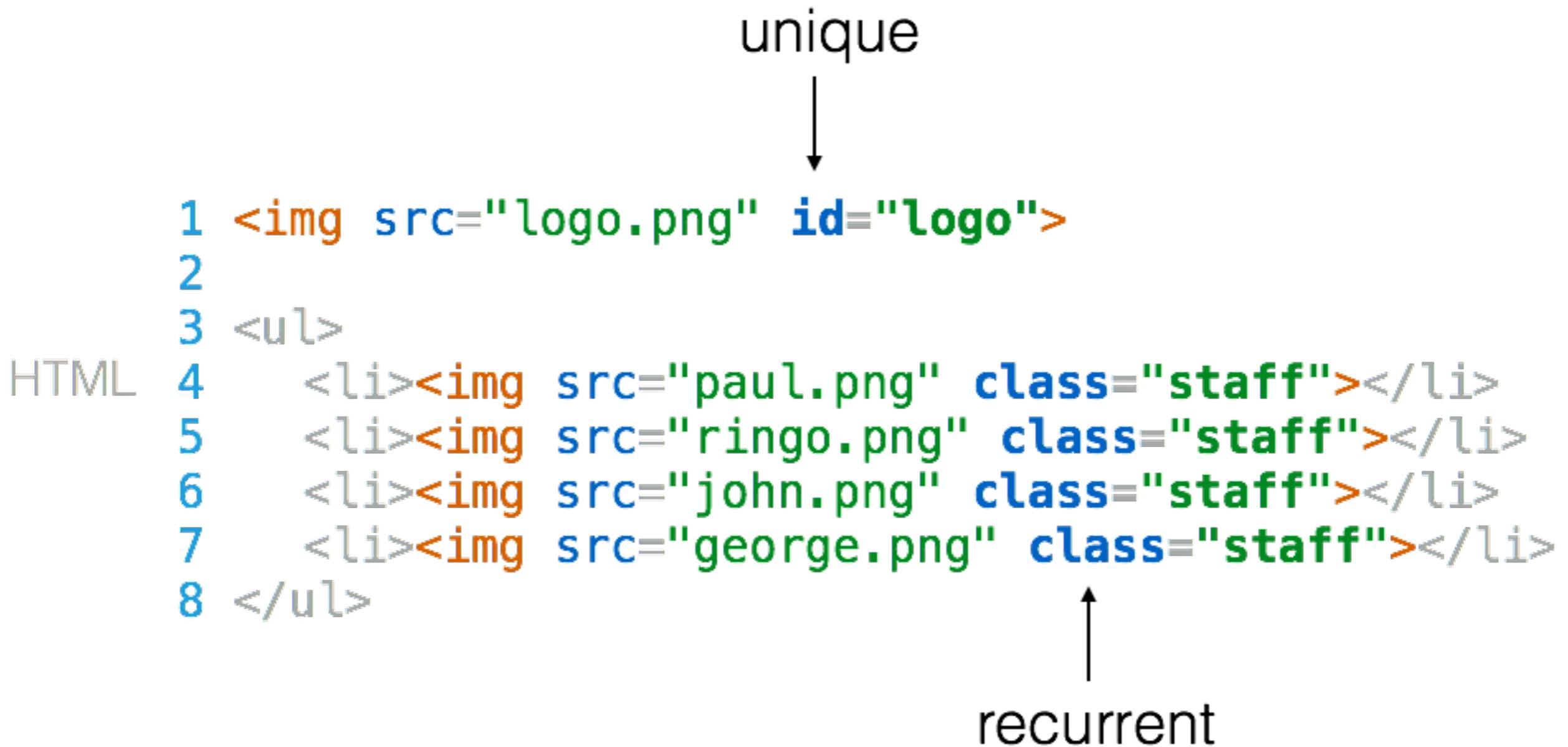
how do you style staff pictures only?

```
1   
2  
3 <ul>  
HTML 4   <li></li>  
5   <li></li>  
6   <li></li>  
7   <li></li>  
8 </ul>
```

```
CSS 1 .staff {  
2   border-radius: 50%;  
3 }
```



id or class?



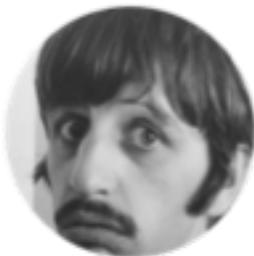
Combine

HTML 1



CSS

```
1 .staff {  
2   border-radius: 50%;  
3 }
```



Combine

HTML 1

CSS

```
1 .staff {  
2   border-radius: 50%;  
3 }  
4  
5 .shadow {  
6   box-shadow: 5px 5px 3px black;  
7 }
```



Combine

HTML 1

```
1 .staff {  
2   border-radius: 10px;  
3 }  
4
```



CSS

```
5 .shadow {  
6   box-shadow: 5px 5px 3px black;  
7 }  
8  
9 #lead {  
10  border: 5px solid red;  
11 }
```



5. Name your tags

Fontawesome

You **don't want** .png or .jpg files
You **want** a font of icons

6. Fontawesome

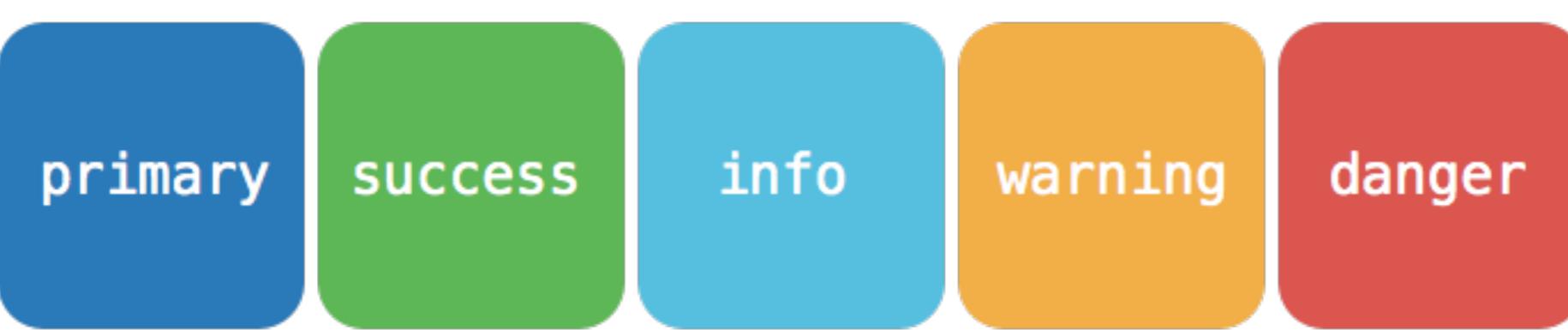
```
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.3.1/css/all.css" integrity="sha384-mzrmE5qonljUremFsqc01SB46JvROS7bZs3IO2EmfFsd15uHvIt+Y8vEf7N7fWAU" crossorigin="anonymous">
```



7. Bootstrap

```
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"  
integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO"  
crossorigin="anonymous">
```

Semantic scheme



Text classes



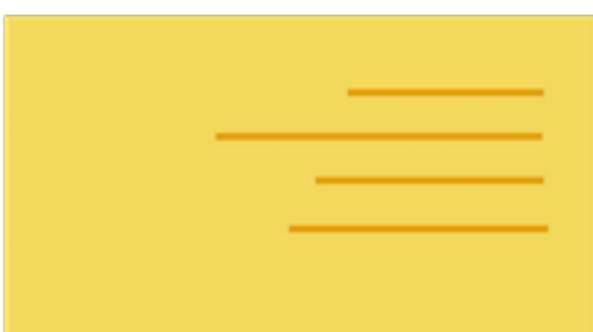
```
<div class='text-justify'></div>
```



```
<div class='text-left'></div>
```



```
<div class='text-center'></div>
```



```
<div class='text-right'></div>
```

Button classes

Go

```
<a class='btn btn-primary' href='#'>Go</a>
```

Go

```
<a class='btn btn-warning' href='#'>Go</a>
```

Go

```
<a class='btn btn-danger' href='#'>Go</a>
```

Go

```
<a class='btn btn-info' href='#'>Go</a>
```

Go

```
<a class='btn btn-success' href='#'>Go</a>
```

List classes

```
<ul class='list-inline'>
  <li>
    <a href='http://twitter.com/lewagonparis'>
      <i class='fa fa-twitter'></i>
    </a>
  </li>
  <li>
    <a href='http://facebook.com/lewagonformation'>
      <i class='fa fa-facebook'></i>
    </a>
  </li>
  <!-- etc.. -->
</ul>
```



Image classes

140x140

```
<img class='img-rounded' src='ex.png'>
```

140x140

```
<img class='img-circle' src='ex.png'>
```

140x140

```
<img class='img-thumbnail' src='ex.png'>
```

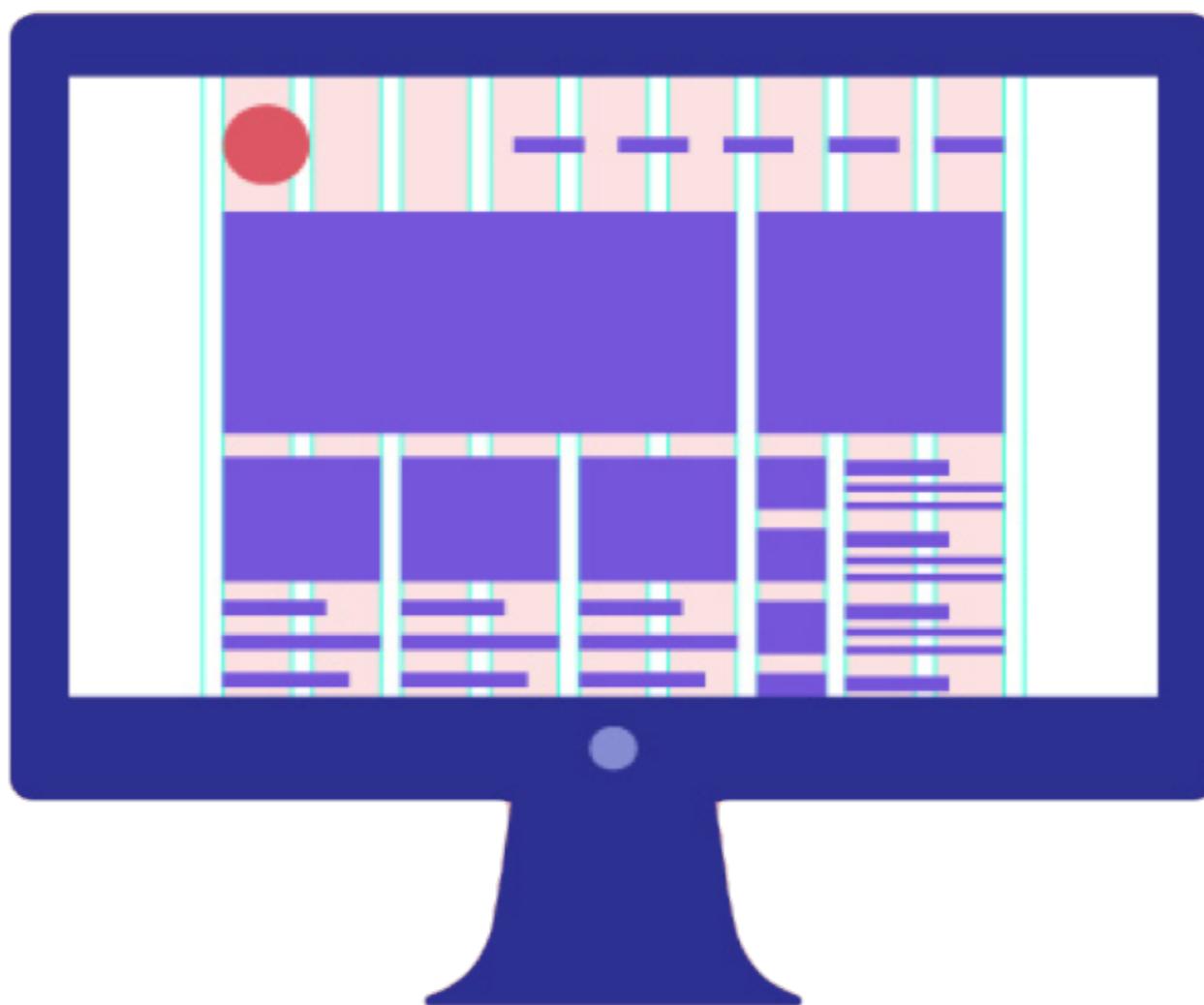
Your turn

“text-center” on your paragraphs

“list-inline” on your social list

“btn btn-primary” for your subscribe button

Grid system



Responsive



Mobile first

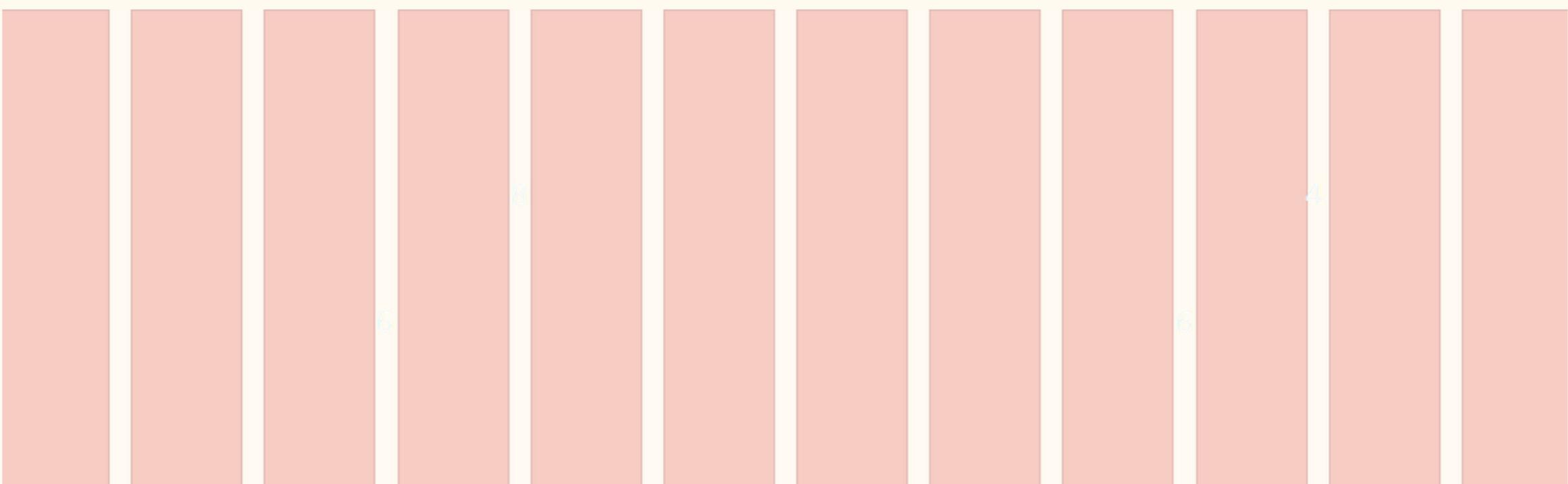


How does it work?

Container

always start with a **container**

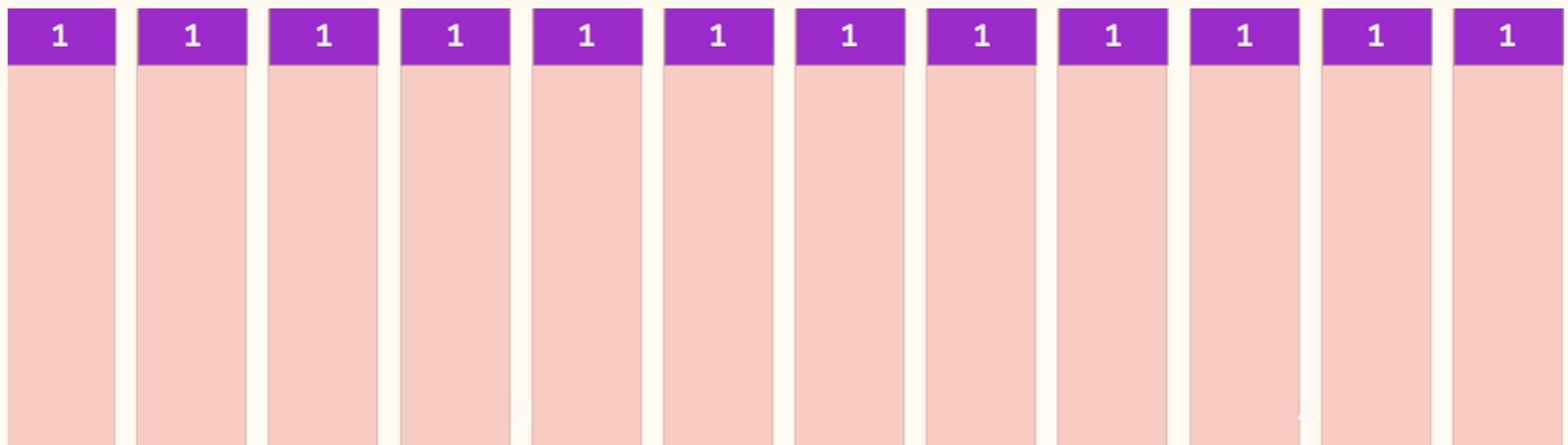
```
<div class="container">  
    <!--Define a container-->  
</div>
```



Rows

then insert rows

```
<div class="container">  
  
  <div class="row">  
    <!-- First row -->  
  </div>  
  
</div>
```



Rows

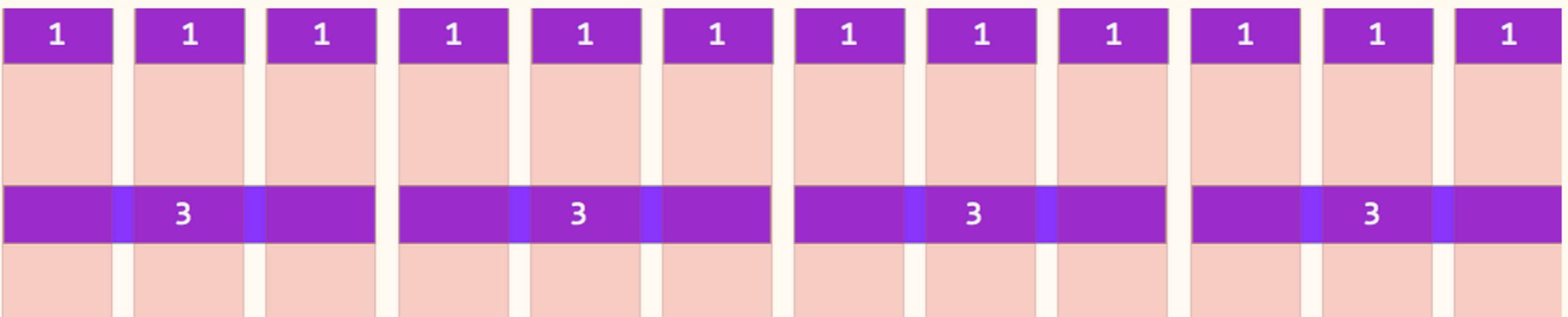
then insert **rows**

```
<div class="container">

  <div class="row">
    <!-- First row -->
  </div>

  <div class="row">
    <!-- Second row -->
  </div>

</div>
```



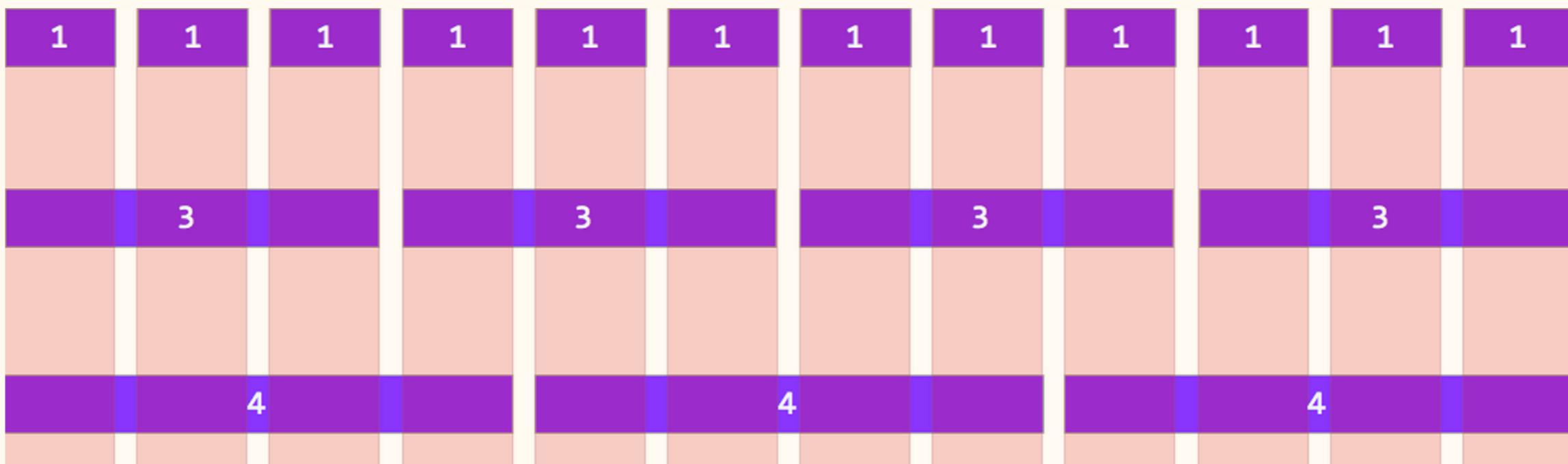
Rows

```
<div class="container">

<div class="row">
  <!-- First row -->
</div>

<div class="row">
  <!-- Second row -->
</div>

<div class="row">
  <!-- Third row -->
</div>
```



How do we fill rows?

Cols

the elementary block

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

col : because it fits a number of columns

sm : screen width

6 : number of columns taken by the block

Media

sm: Small devices (Tablets > 768px)

md: Medium devices (> 992px)

lg: Large devices (Desktops > 1200px)

Example - 2 cols



Example - 2 cols

.col-6 will apply on larger screens

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

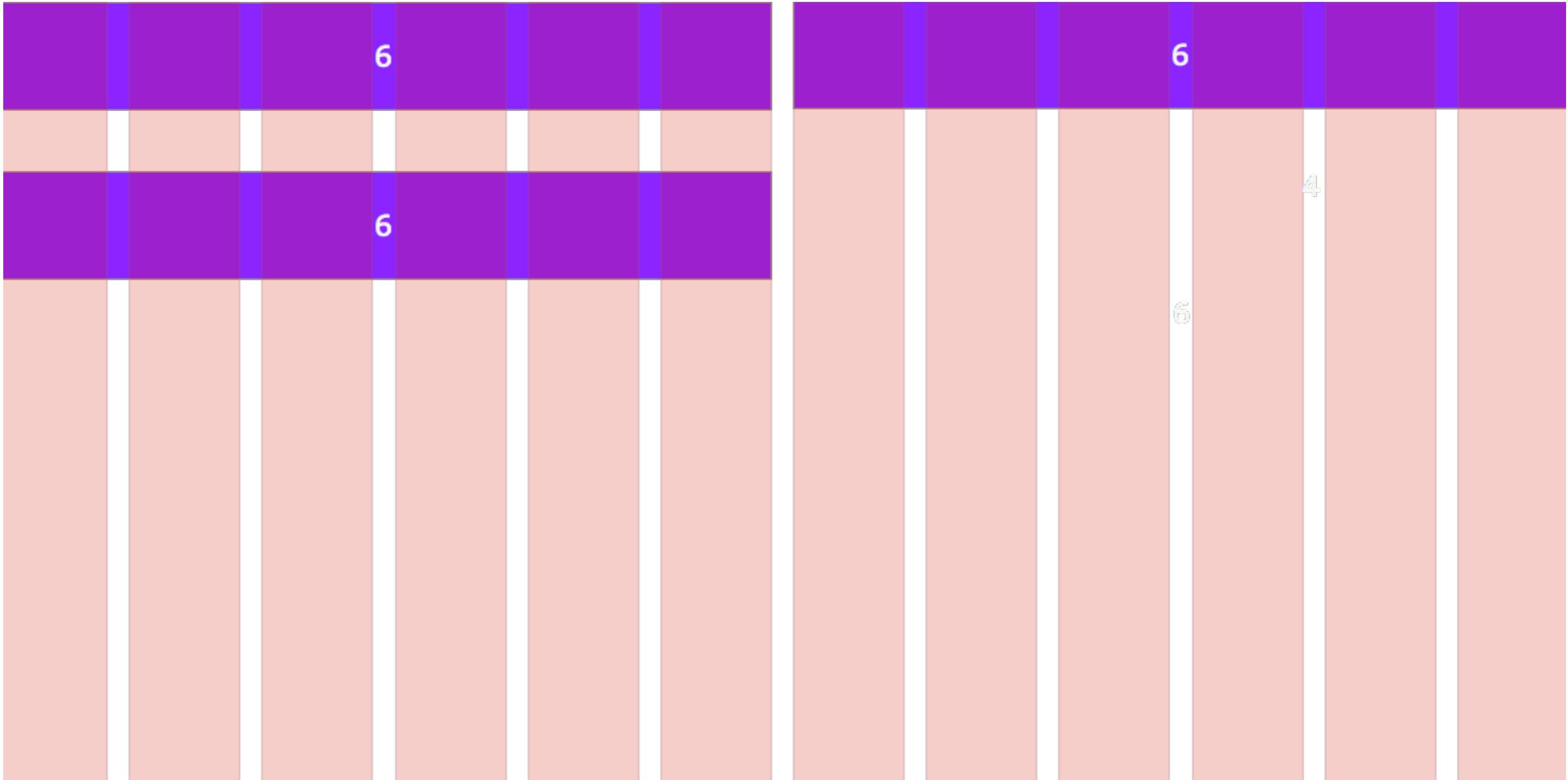
What happens?

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

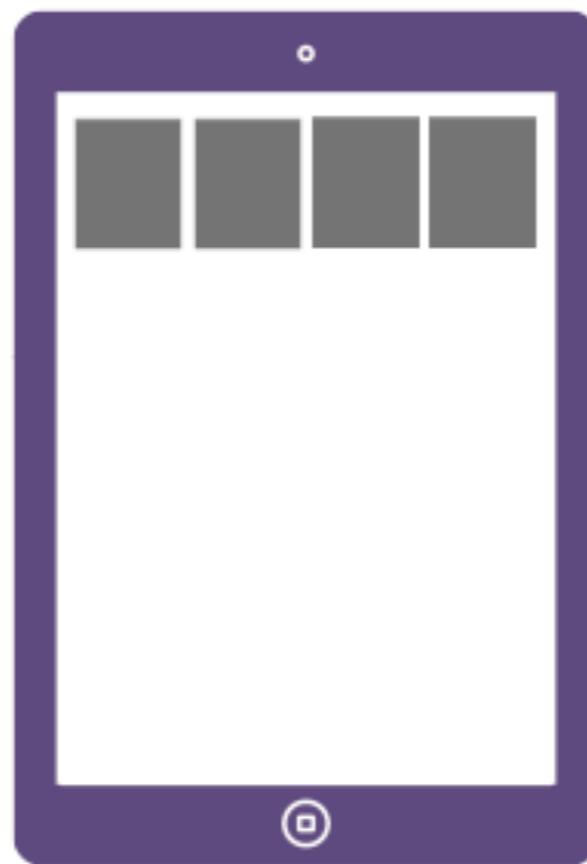
    <div class="col-6"></div>
    <div class="col-6"></div>
    <div class="col-6"></div>

  </div>
</div>
```

Return on new line



Responsive example



Responsive example

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

8. The grid

Go further

lewagon.com/nantes

Thank you!