

Web Development

Introduction course



Welcome, **class** !

Let's learn how to code cool websites together



What **you** will build in this course

Your landing page

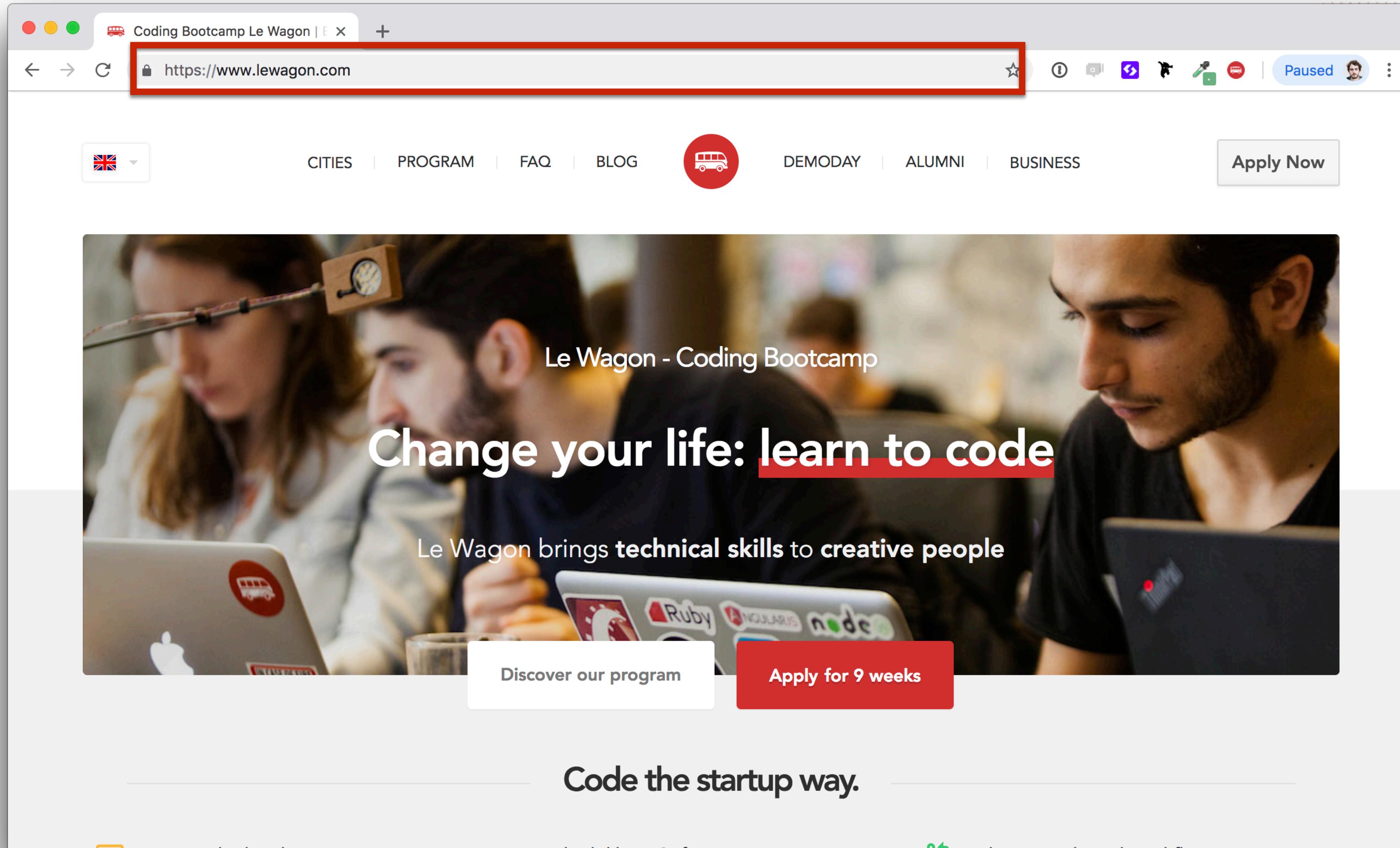


But first.
How does a website work?



What happens when we visit a website?

We enter a URL



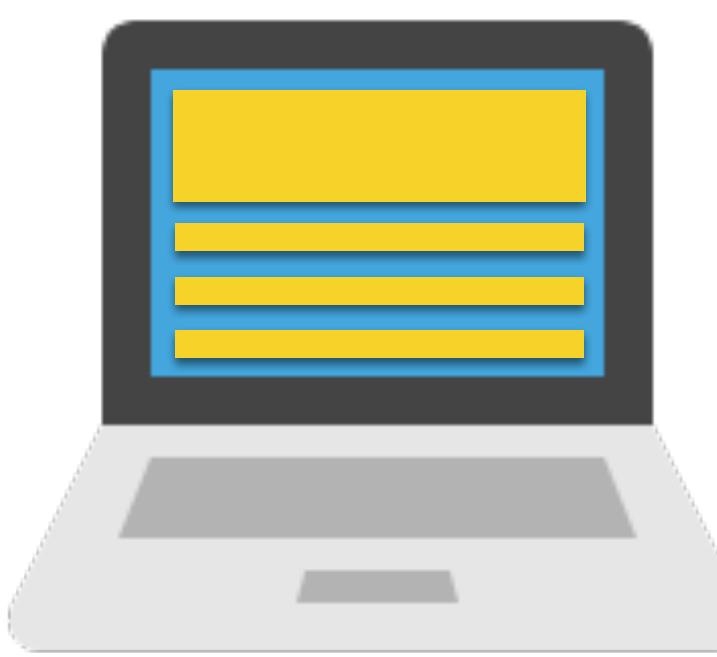
We see the result
web page

OK...

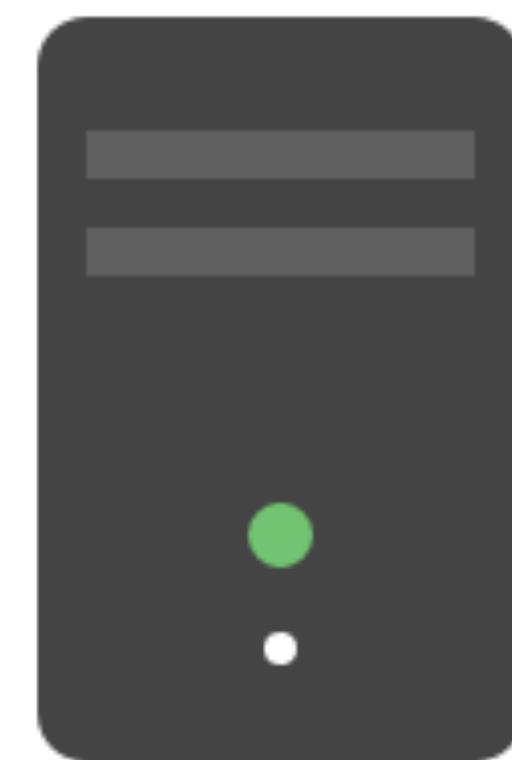
But what really happens?



http://www.lewagon.com



client



server



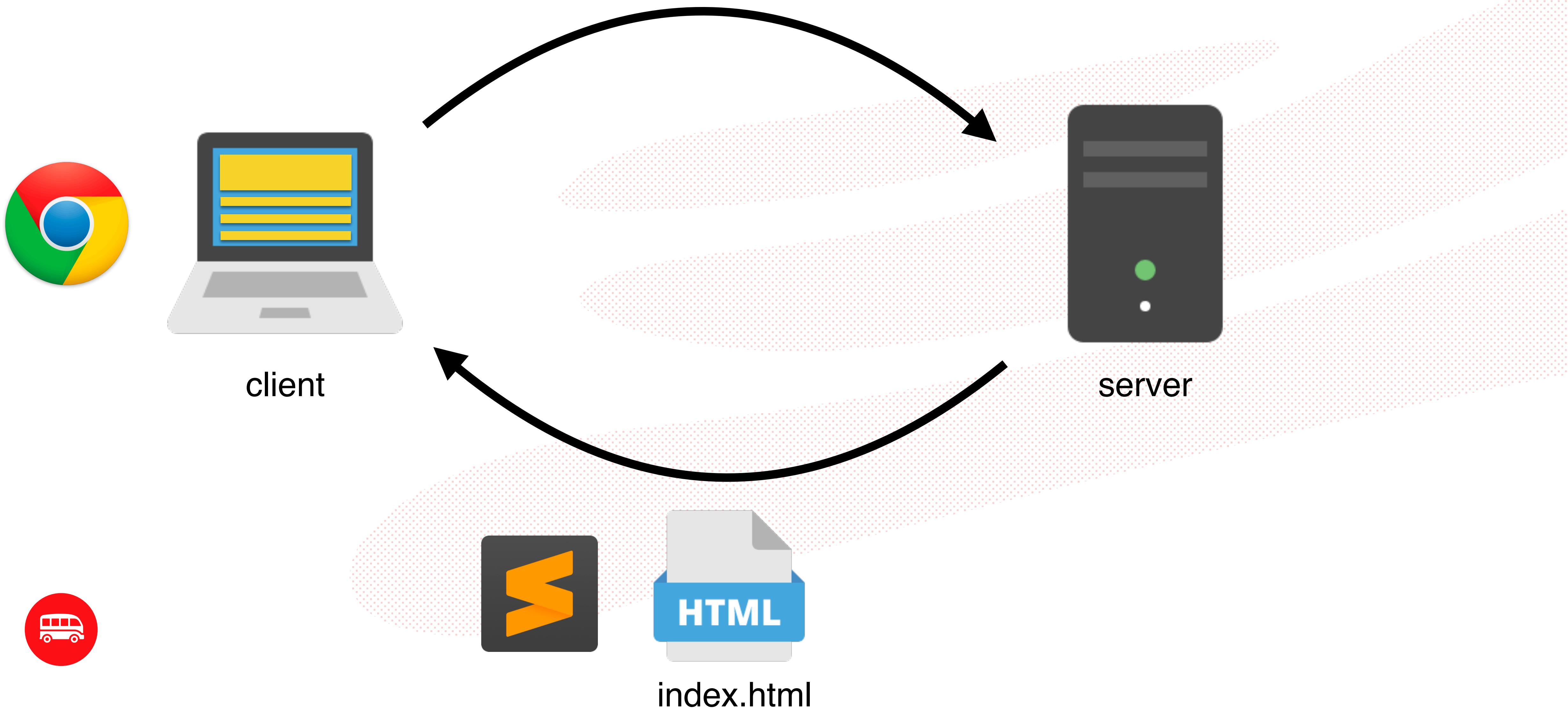
index.html



So what tools do we need?



http://www.lewagon.com



Text editor

Sublime Text

A tool to write our code.



Web browser

Google Chrome

A tool to navigate on a website and display pages.



Web Development

HTML Basics



A web page =

Content and structure



+

Design



HTML

basic syntax

<element> Content </element>

<element attr="value"> Content </element>

 Le Wagon



HTML

headers

`<h1>` Main title `</h1>`

`<h2>` Subtitle `</h2>`

`<h3>` Section title `</h3>`

`<h4>` Section subtitle `</h4>`

Etc...

HTML

paragraph

<p>

 Lorem ipsum dolor sit amet, consectetur
 adipisicing elit. Veritatis laboriosam

</p>

HTML

strong

< p >

 Lorem ipsum dolor sit amet,
 < strong >consectetur< /strong > adipisicing
 elit. Veritatis laboriosam

< /p >

HTML

unordered list

```
<ul>
```

```
  <li> Bread </li>  
  <li> Milk </li>  
  <li> Butter </li>
```

```
</ul>
```

HTML

ordered list

 France

 Uruguay

 Belgium

HTML

images

```

```

Demo



- Let's code our page skeleton
- Let's code our <head>



HTML **skeleton**

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

Page's intelligence (meta data)

```
  </head>
```

```
  <body>
```

Page's content (displayed in browser)

```
  </body>
```

```
</html>
```

HTML

head

```
<head>
```

```
  <title>    Page Title    </title>
```

```
  <meta name="description" content="desc...">
```

```
  <meta charset="UTF-8">
```

```
</head>
```

Happy coding

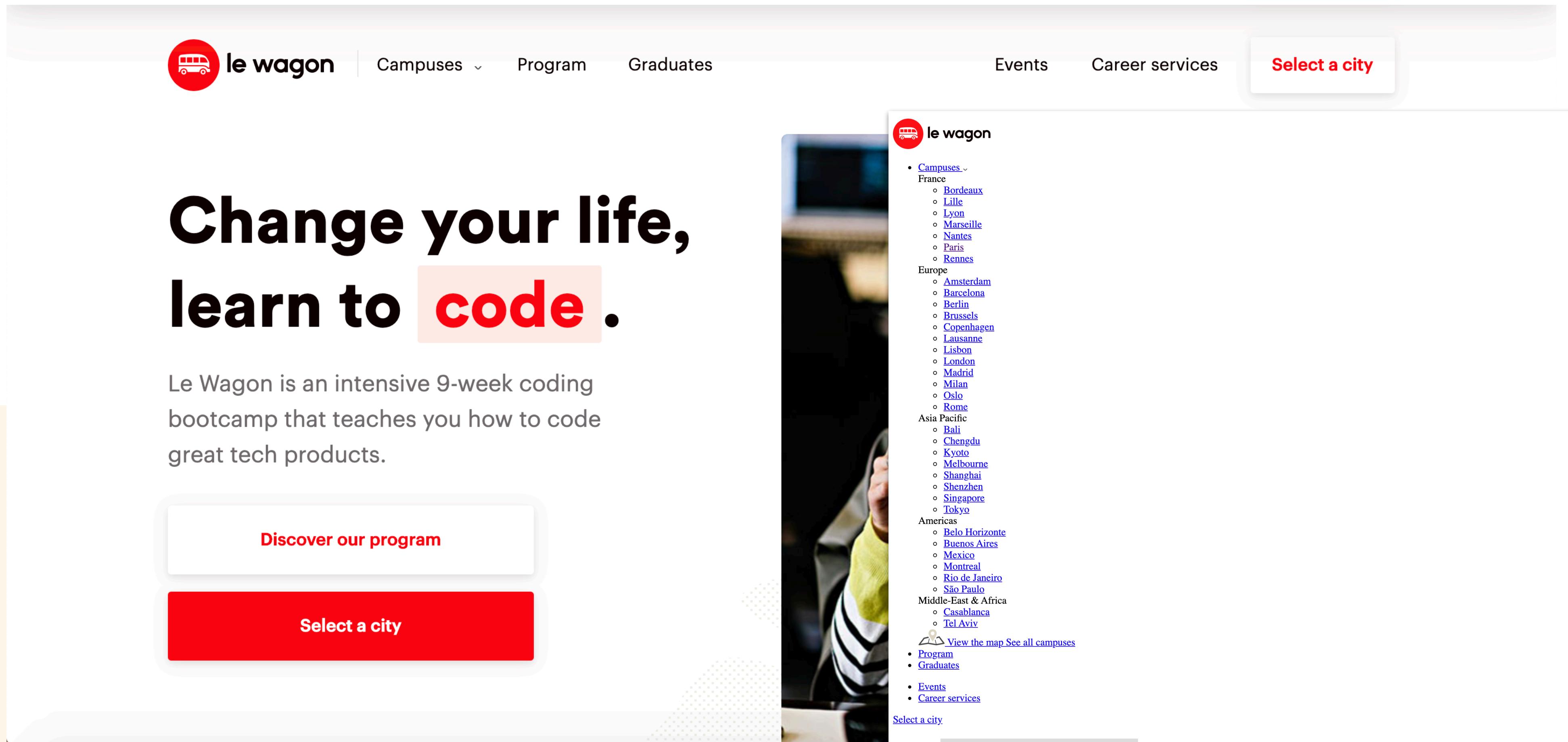


Design

CS5



The web without CSS



The screenshot shows the Le Wagon website homepage. The header includes the logo (a red bus icon), navigation links (Campuses, Program, Graduates, Events, Career services, and a red "Select a city" button), and a sidebar with a "Select a city" dropdown menu. The main content features a large call-to-action text "Change your life, learn to code." and a description of the program. A "Discover our program" button is in a white box, and a "Select a city" button is in a red box. A small circular icon with a bus symbol is in the bottom left corner. The sidebar lists campuses by continent: Europe (France, Amsterdam, Barcelona, Berlin, Brussels, Copenhagen, Lausanne, Lisbon, London, Madrid, Milan, Oslo, Rome), Asia Pacific (Bali, Chengdu, Kyoto, Melbourne, Shanghai, Shenzhen, Singapore, Tokyo), Americas (Belo Horizonte, Buenos Aires, Mexico, Montreal, Rio de Janeiro, São Paulo), and Middle-East & Africa (Casablanca, Tel Aviv). It also links to "View the map See all campuses", "Program", "Graduates", "Events", and "Career services". A "Select a city" link is at the bottom of the sidebar.

le wagon

Campuses ▾ Program Graduates Events Career services Select a city

Change your life, learn to **code**.

Le Wagon is an intensive 9-week coding bootcamp that teaches you how to code great tech products.

Discover our program

Select a city

le wagon

- Campuses ▾
 - France
 - Bordeaux
 - Lille
 - Lyon
 - Marseille
 - Nantes
 - Paris
 - Rennes
 - Europe
 - Amsterdam
 - Barcelona
 - Berlin
 - Brussels
 - Copenhagen
 - Lausanne
 - Lisbon
 - London
 - Madrid
 - Milan
 - Oslo
 - Rome
 - Asia Pacific
 - Bali
 - Chengdu
 - Kyoto
 - Melbourne
 - Shanghai
 - Shenzhen
 - Singapore
 - Tokyo
 - Americas
 - Belo Horizonte
 - Buenos Aires
 - Mexico
 - Montreal
 - Rio de Janeiro
 - São Paulo
 - Middle-East & Africa
 - Casablanca
 - Tel Aviv
- View the map See all campuses
- Program
- Graduates
- Events
- Career services

Select a city

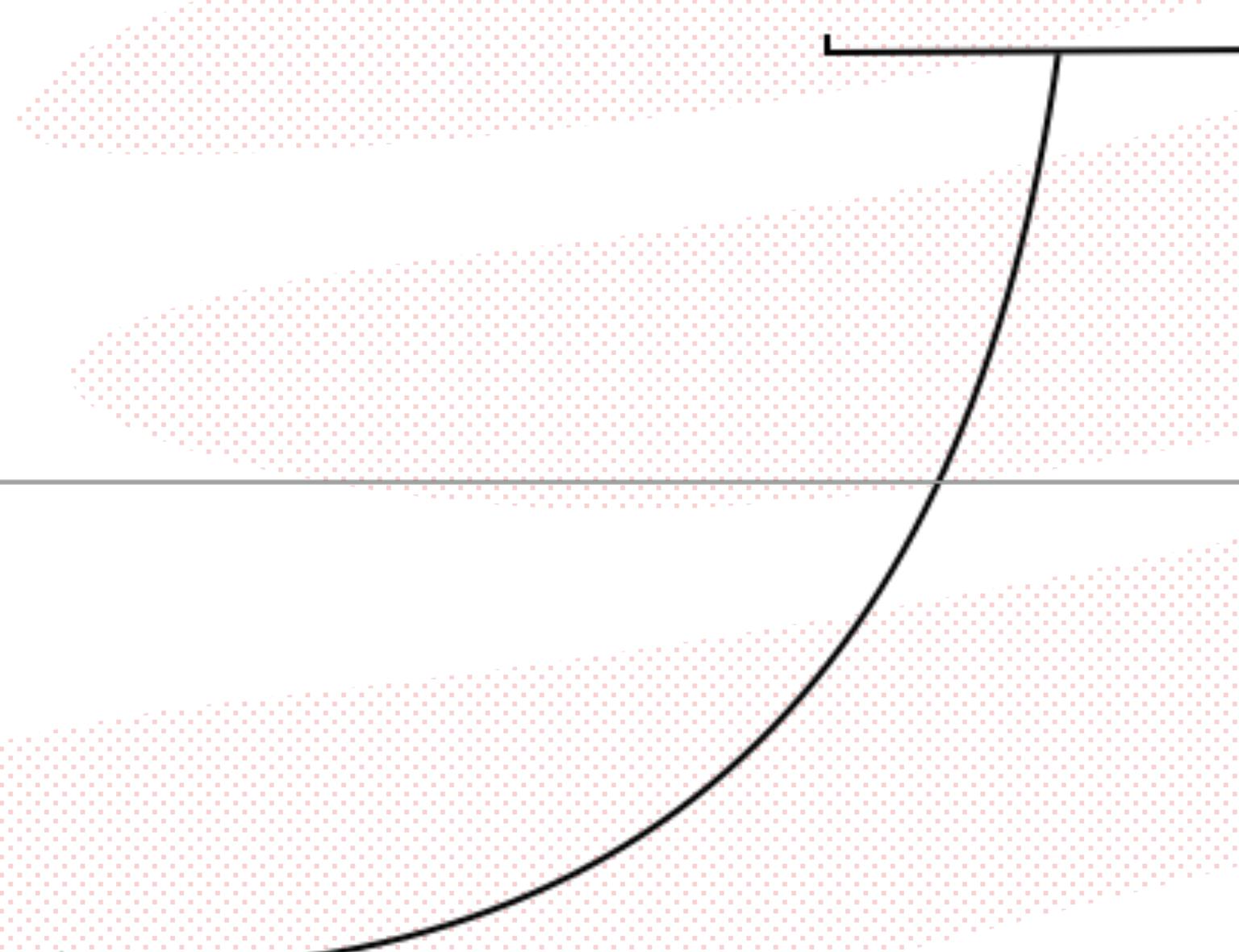
CSS Setup

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

CSS

Example

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

we select
all <h2> of the page

CSS

Colors

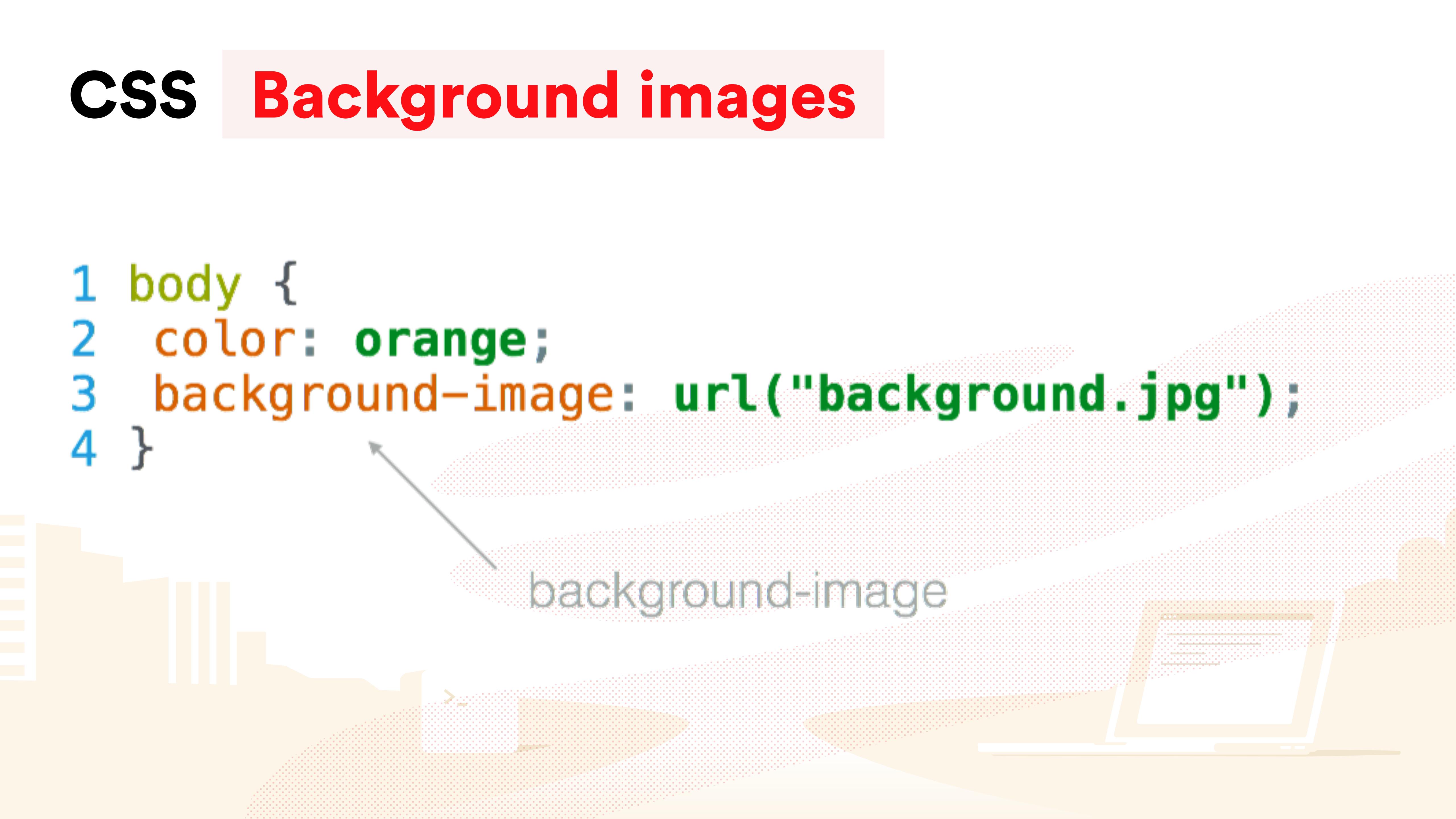
```
h2 {  
    color: orange;  
    color: #FF530D;  
    color: rgb(255, 83, 13);  
    color: rgba(255, 83, 13, 1.0);  
}
```



CSS

Background images

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

The background of the slide features a blurred image of a laptop displaying code and a bar chart with vertical bars of varying heights.

background-image

CSS

Font family

A

serif

font-family

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



CSS

Font family

A

sans-serif

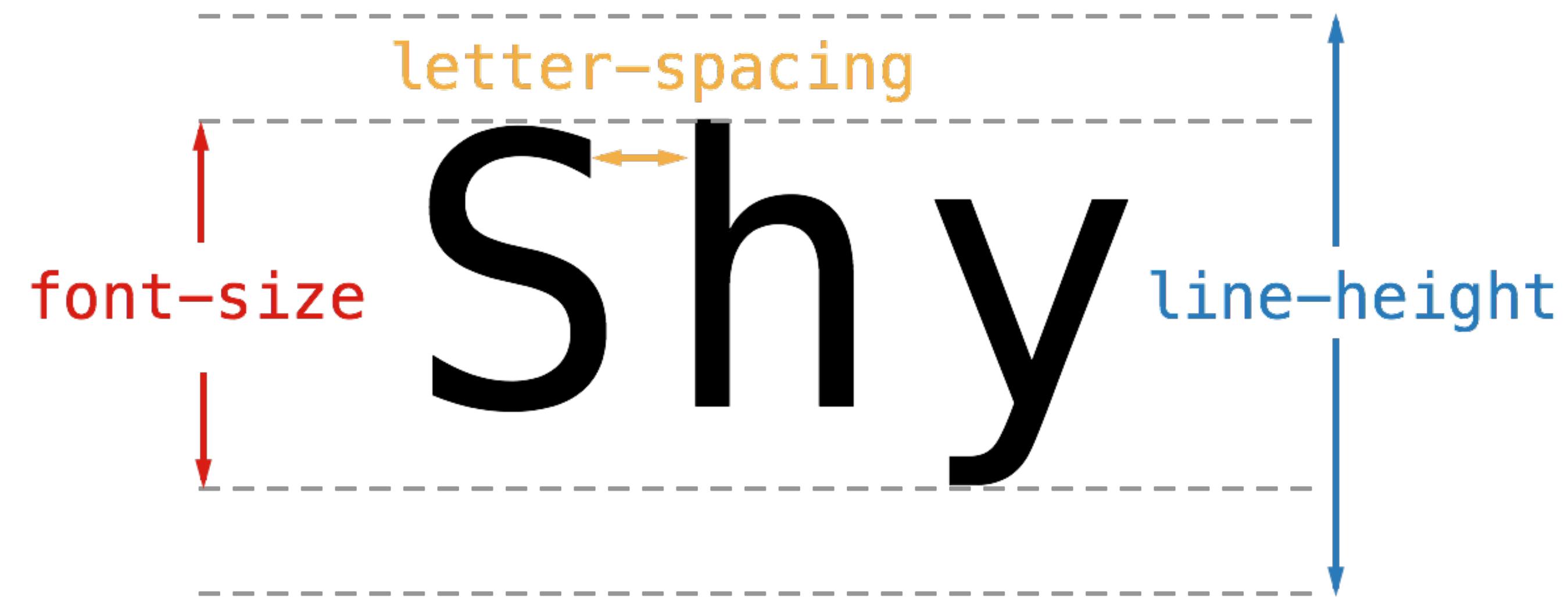
font-family

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



CSS

Font size & spacing



CSS

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

CSS

Font color

ab

color: green;

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



CSS

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



CSS

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



Example

we select
all <h2> of the page

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

Div and Boxes



Example

Lyon - Airbnb

lyon · Logements

Liste Carte

Plus de 290 000 évaluations de voyageurs pour des logements à Lyon, avec une moyenne de 4.6 étoiles sur 5.

Les informations essentielles

Dates

Voyageurs

Fourchette de prix

Le prix moyen par nuit est 75€

9€ - 1000€+

Type de logement

Logement entier
Un logement entier, rien que pour vous.

Chambre privée
Dites-nous de votre propre chambre et

Plus de 300 logements

LOGEMENT ENTIER · 1 LIT
au coeur de la presqu'île
59€ par nuit · Annulation gratuite
★★★★★ 402

LOGEMENT ENTIER · 1 LIT
Quai de l'ancienne Préfecture
69€ par nuit · Annulation gratuite
★★★★★ 566 · Superhost

LOGEMENT ENTIER · 2 LITS
Studio d'archi, Rouville, Lyon
1er
50€ par nuit · Annulation gratuite
★★★★★ 181 · Superhost

LOGEMENT ENTIER · 2 LITS
DUPLEX HYPER CENTRE
TERREAUX
70€ par nuit · Annulation gratuite
★★★★★ 287

LOFT ENTIER · 1 LIT
Superbe Canut au coeur de la
Croix-Rousse à Lyon!
49€ par nuit · Annulation gratuite
★★★★★ 103

LOGEMENT ENTIER · 2 LITS
Appart Lyon 1er, Place des
Terreaux
57€ par nuit · Annulation gratuite
★★★★★ 116 · Superhost

LOGEMENT ENTIER · 1 LIT
Appartement Canut Croix-
Rousse
49€ par nuit · Annulation gratuite
★★★★★ 85

CHAMBRE PRIVÉE · 1 LIT
Chambre cosy au coeur du
Vieux Lyon
Conditions, confidentialité, devises et autres rubriques
★★★★★ 366 · Superhost

Divs

Lyon - Airbnb

lyon · Logements

Devenez hôte Listes Voyages Messages Aide

Liste Carte

Plus de 290 000 évaluations de voyageurs pour des logements à Lyon, avec une moyenne de 4.6 étoiles sur 5.

Les informations essentielles

Dates

Arrivée → Départ

Voyageurs

Voyageurs

Fourchette de prix

Le prix moyen par nuit est 75€

9€ - 1000€+

Type de logement

Logement entier
Un logement entier, rien que pour vous.

Chambre privée

Diaporama de votre propre chambre et

Plus de 300 logements

LOGEMENT ENTIER · 1 LIT
au coeur de la presqu'île
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★★★★★ 402

LOGEMENT ENTIER · 1 LIT
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★★★★★ 100 · Superhost

LOGEMENT ENTIER · 2 LITS
Appart Lyon 1er, Place des
Terreaux
57€ par nuit · Annulation gratuite
★★★★★ 100 · Superhost

LOGEMENT ENTIER · 1 LIT
Appartement Canut Croix-
Rousse
49€ par nuit · Annulation gratuite
★★★★★ 100 · Superhost

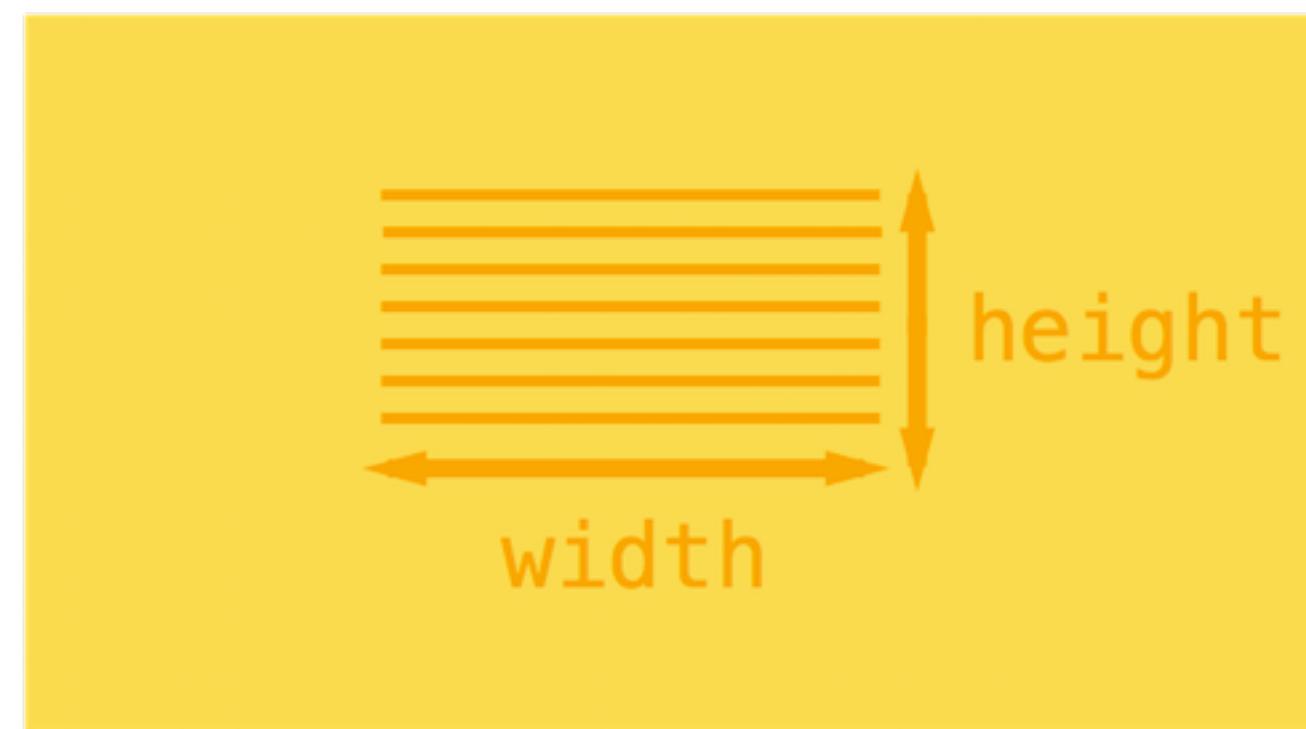
CHAMBRE PRIVÉE · 1 LIT
Chambre cosy au coeur du
Vieux Lyon

Conditions, confidentialité, devises et autres rubriques

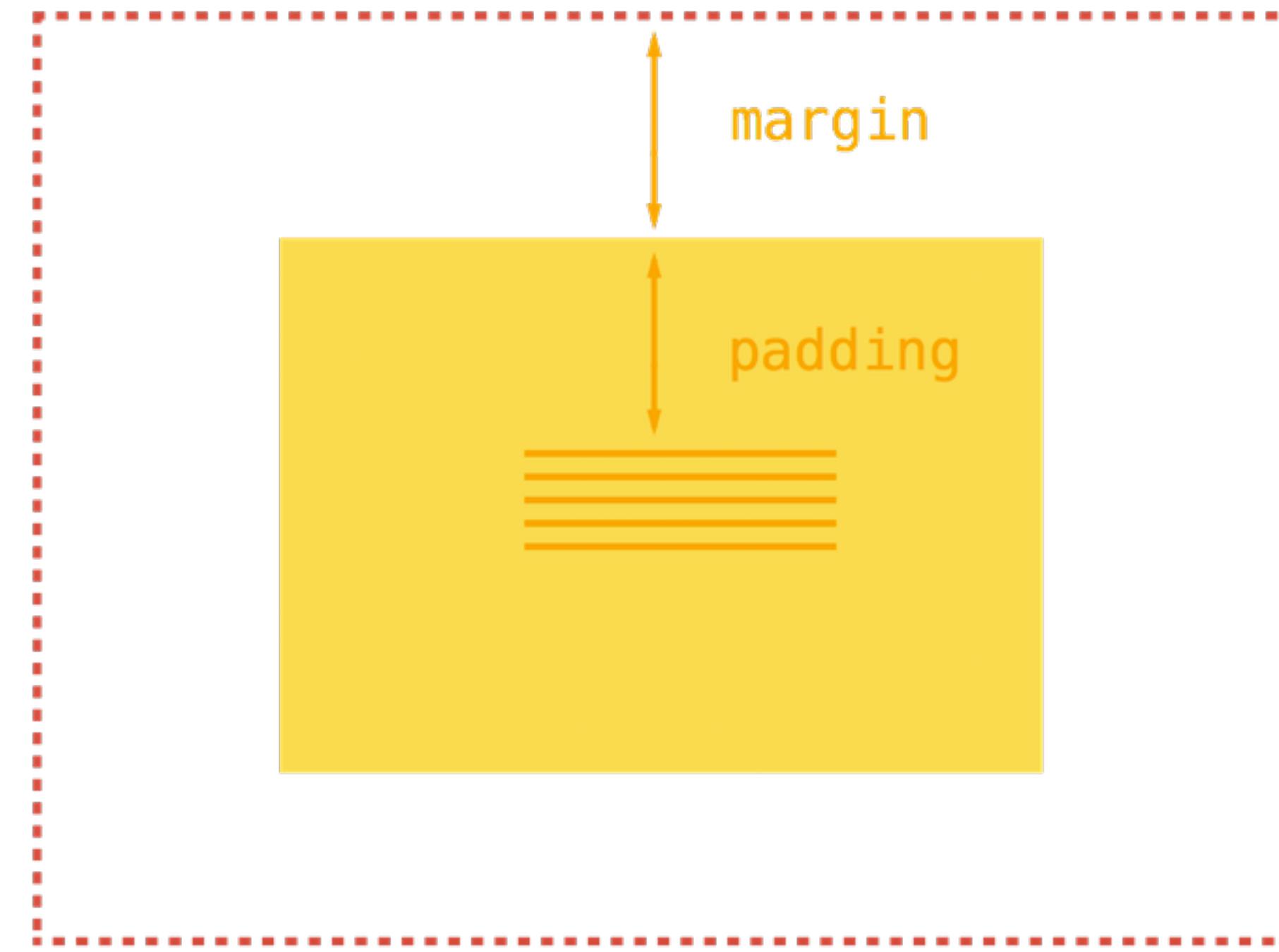
Airbnb, Inc. [US] | https://www.airbnb.fr/s/homes?refinement_paths%5B%5D=%2Fhomes&query=lyon&map_toggle=false&allow_override...



Content



Margins and padding



Borders

border



Borders

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



Border-radius



border-radius: 5px;

Shadows



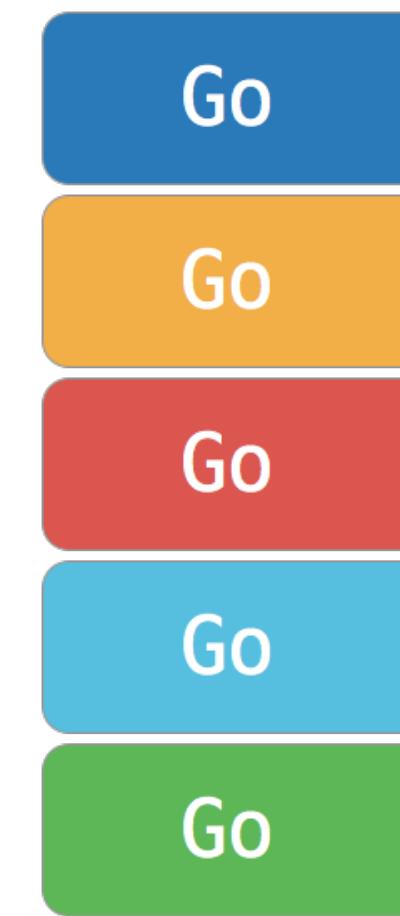
`box-shadow: 2px 2px 3px blue;`

External libraries:

Font-awesome
Bootstrap

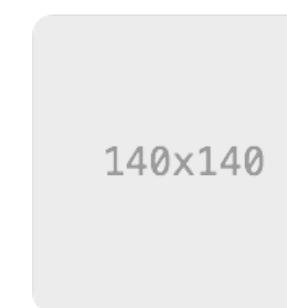


Buttons

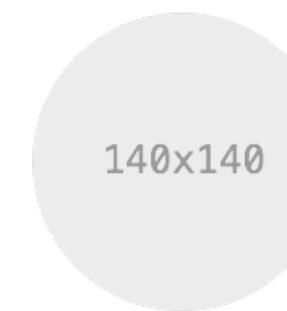


```
<a class='btn btn-primary' href='#'>Go</a>
<a class='btn btn-warning' href='#'>Go</a>
<a class='btn btn-danger' href='#'>Go</a>
<a class='btn btn-info' href='#'>Go</a>
<a class='btn btn-success' href='#'>Go</a>
```

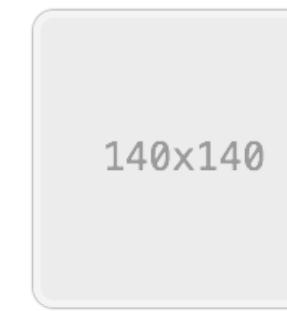
Avatars



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



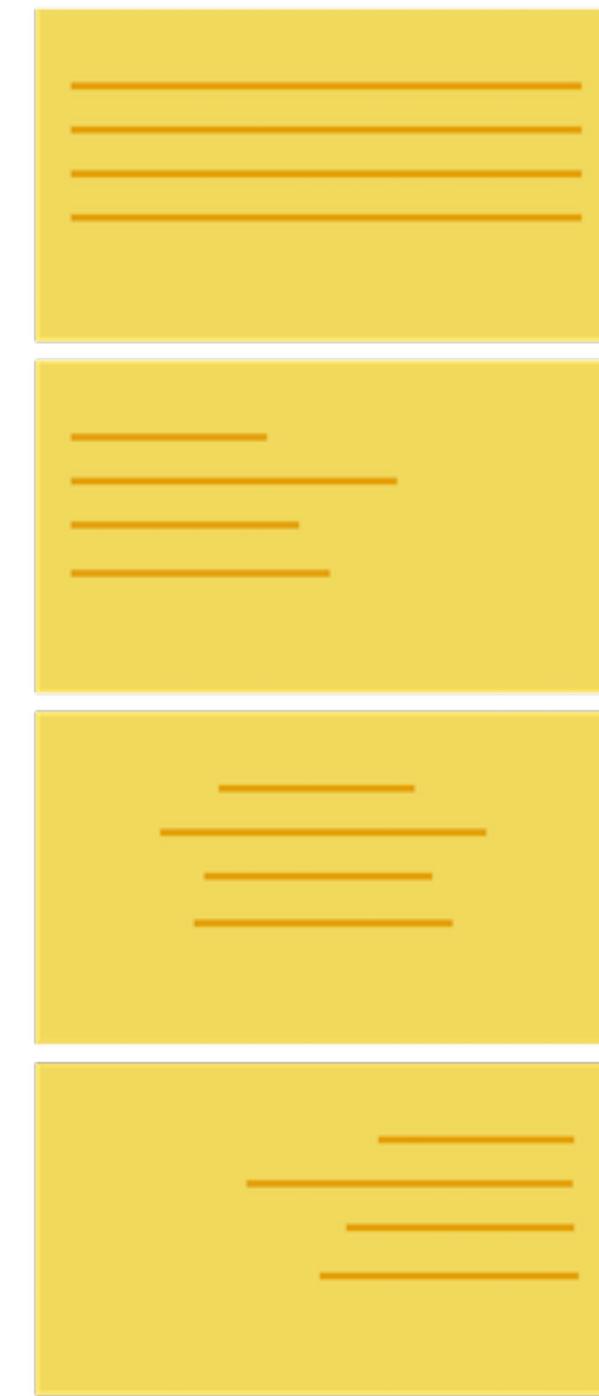
```
<img class='img-circle' src='ex.png'>
```



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



Texts



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

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

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

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

Responsive

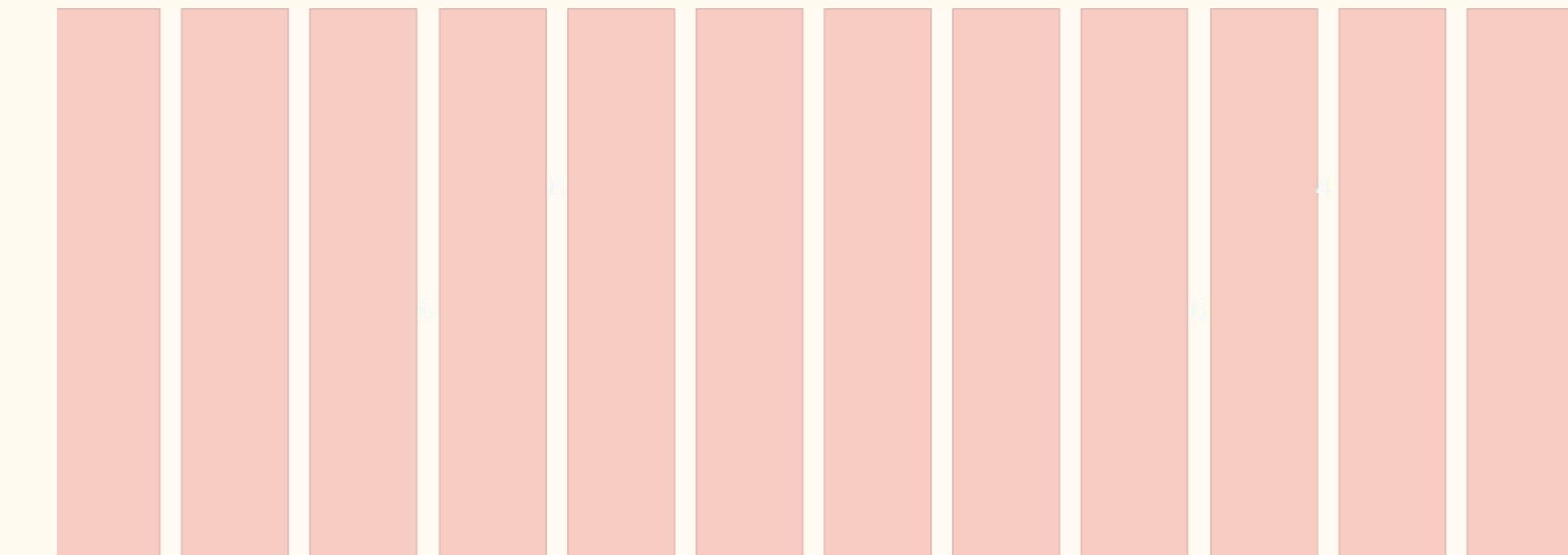


The grid



Container

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

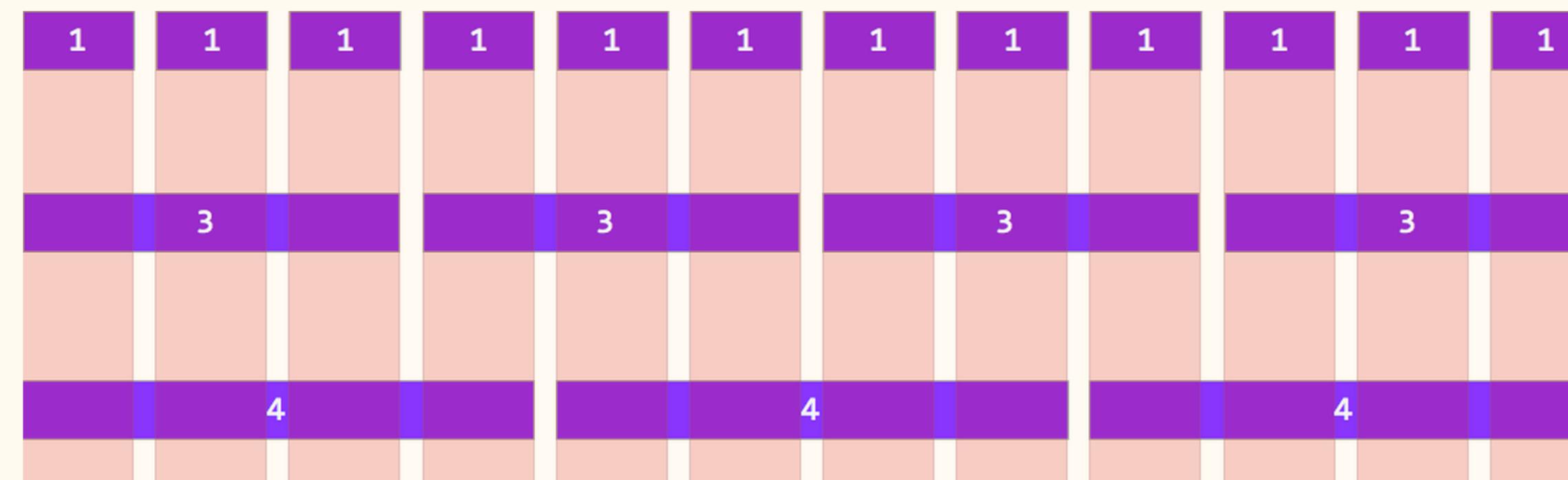


>_



ROWS

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



Columns

```
<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**)



Thank you!

