

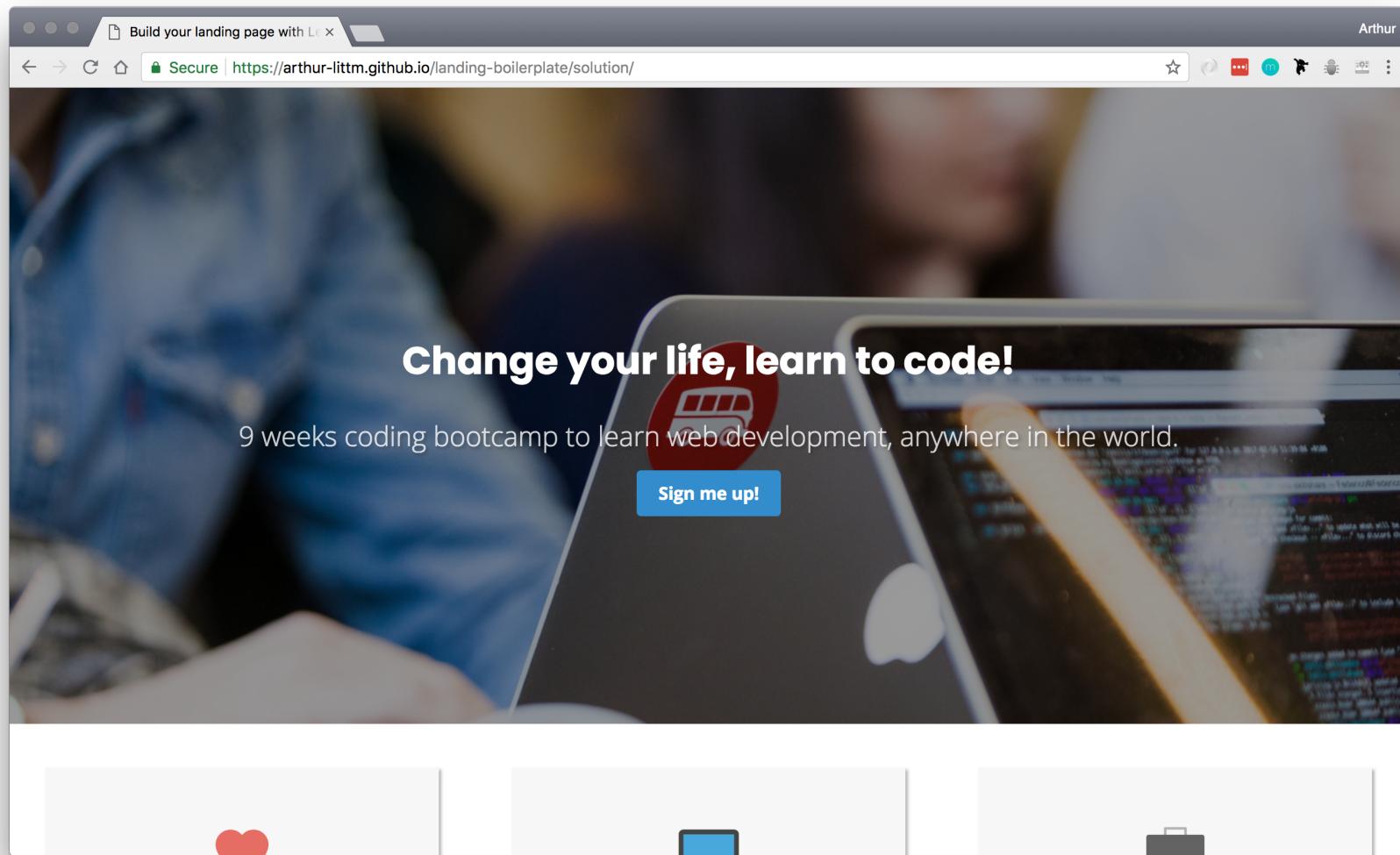
Build your landing page in 2 hours.

25th July, Le Wagon at Shoreditch House

arthur@lewagon.com

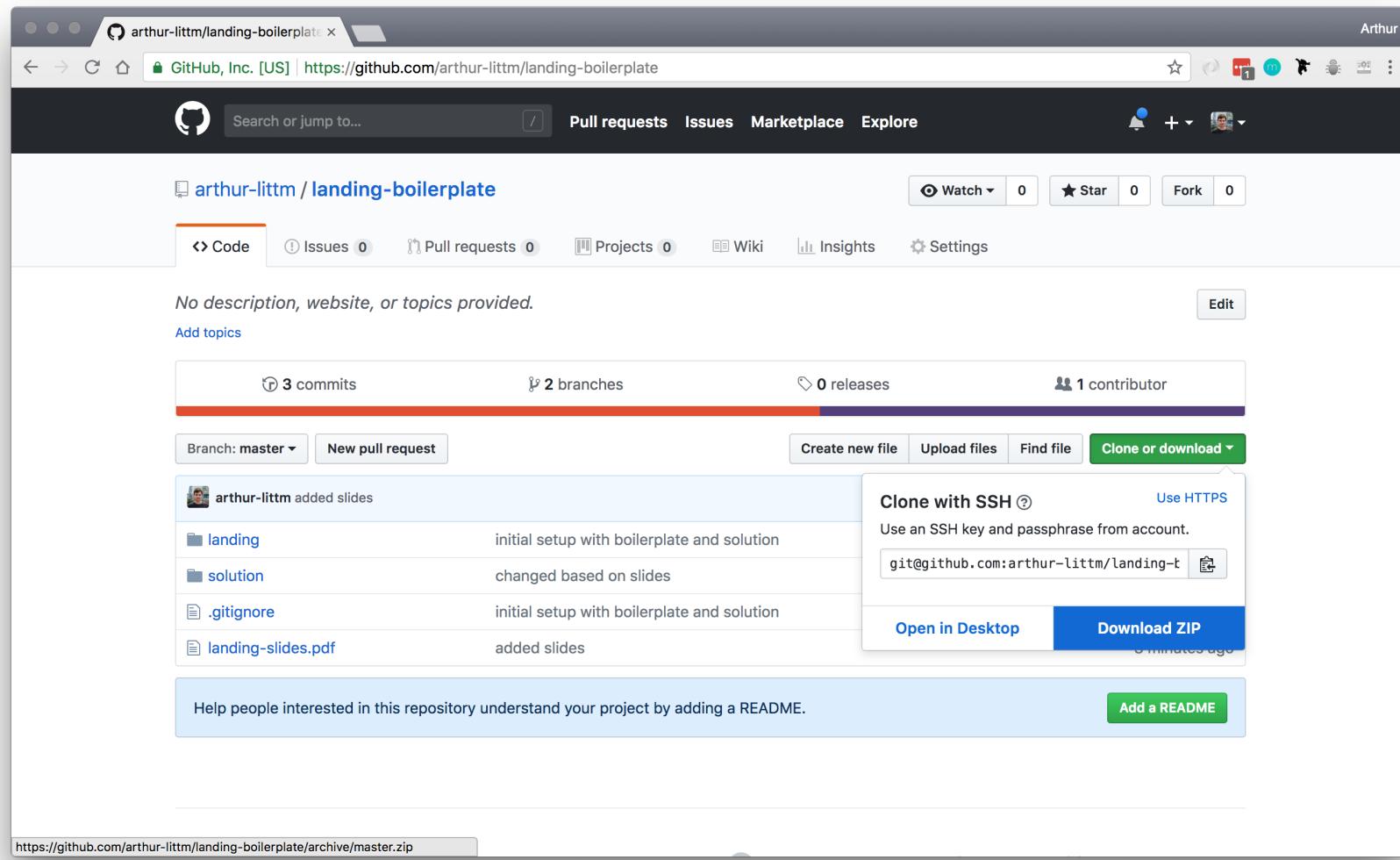
Today's objective

Code and design [this page](#)



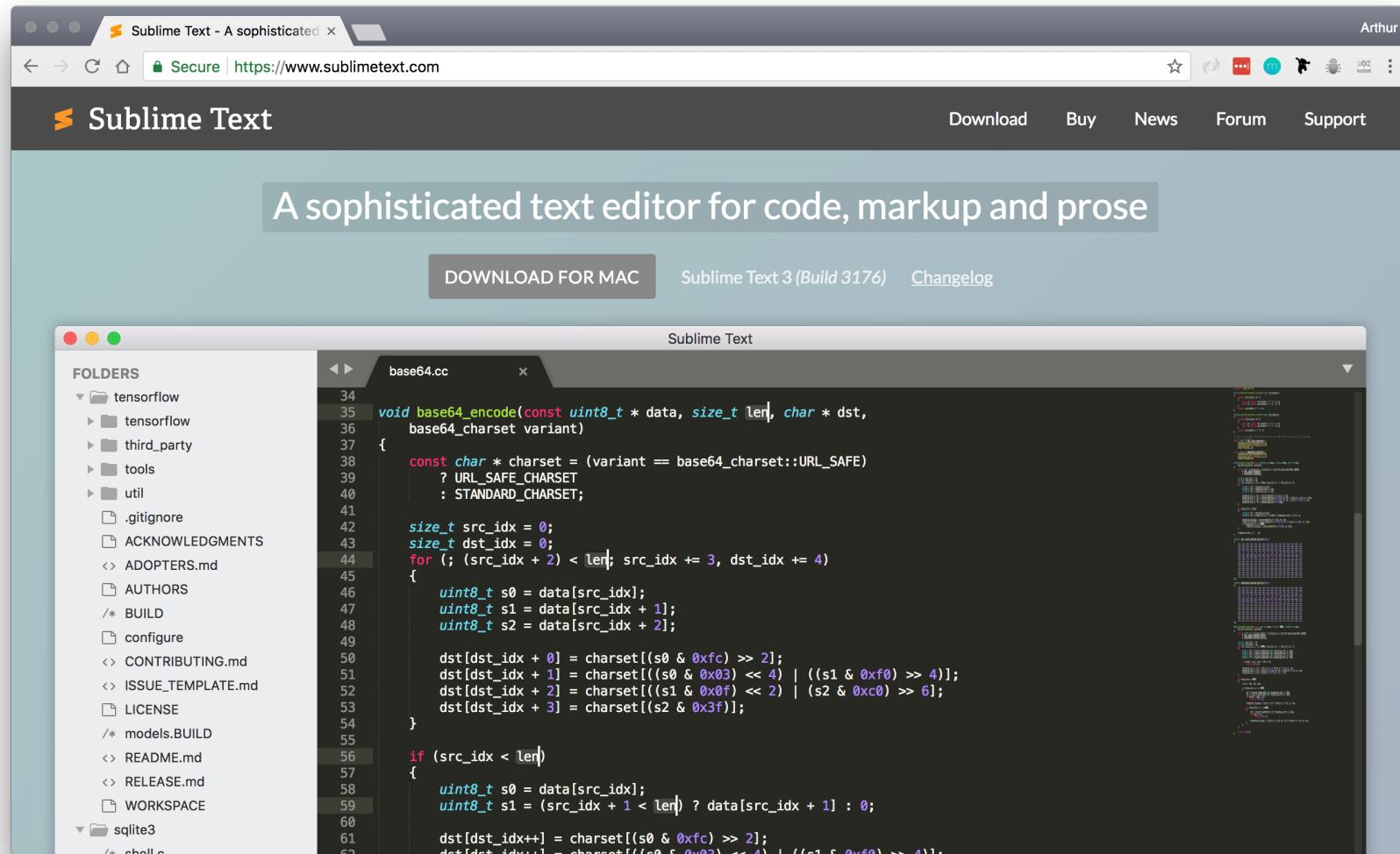
Getting started

Download the sprint material on [Github](#)



Getting started #2

Download Sublime Text



Outline

1. Front-end 101
2. HTML basics (page structure, syntax & common tags)
3. CSS basics (fonts & colors)
4. Structuring a page with `div`
5. Custom design with `id` and `class`

1. Front-end 101

General knowledge about front-end languages

Frontend Languages

The languages your browser speaks

HTML



content
+ structure

CSS



style

JS



dynamism
+ usability

Content & Structure

HTML



This is what Google cares about. Think of SEO.

Design

CSS



How it looks like.

Dynamic behavior



Animate stuff on screen (e.g. client-side form validation)

2. HTML Basics

All you need to know about HTML

HTML tags help you identify content

some text content..

h1

some other content..

h2

some third content..

p

Hence, browser default styles apply

some text content..

h1

some other content..

h2

some third content..

p

You can also apply your own style rules

some text content..

h1

some other content..

h2

some third content..

p

HTML Skeleton

```
<!DOCTYPE html>
```

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

HTML Skeleton

```
<!DOCTYPE html>
<html>

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

HTML Skeleton

```
<!DOCTYPE html>
<html>
  <head>

    </head>
    <body>

      </body>
    </html>
    <!-- end of file -->
```

HTML Skeleton

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Title of your page</title>
  </head>
  <body>

  </body>
</html>
<!-- end of file -->
```

HTML Skeleton - head & Google

```
<head>
  <!-- Google result's text-->
  <title>Coding Bootcamp Le Wagon | Europe's Best Coding Bootcamp
  <!-- Google result's description-->
  <meta name="description" content="Le Wagon is Europe's Best Coding Bootcamp">
</head>
```

Coding Bootcamp Le Wagon | Europe's Best Coding Bootcamp

<https://www.lewagon.com/> ▾

Le Wagon is Europe's best coding bootcamp for creative people & entrepreneurs. Learn to code in 9 weeks with our fullstack coding bootcamp.

Paris

My name is Anne-Sophie, and I was part of Le Wagon Batch ...

Program

Apply Now - FAQ - Demoday - Alumni - Le Wagon Berlin - Bali

FAQ

We know you have questions about our program. That's why ...

Apply Now

9 weeks to learn ruby on Rails, HTML/CSS, Javascript, and ...

HTML Skeleton - head & Facebook

```
<head>
  <meta property="og:title" content="Coding Bootcamp Le Wa
  <meta property="og:image" content="facebook-card.jpg">
  <meta property="og:description" content="Le Wagon is the
  <meta property="og:site_name" content="Le Wagon"/>
</head>
```

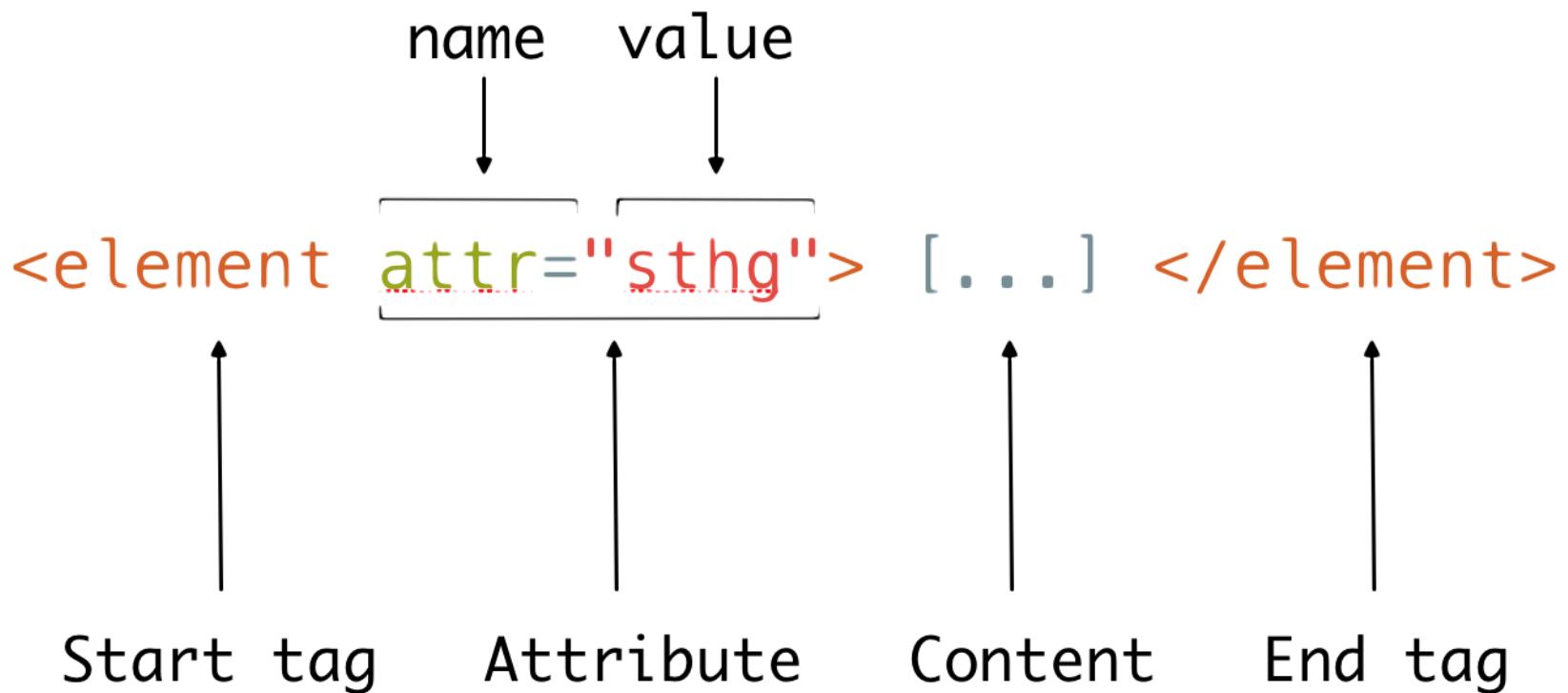


HTML Skeleton - body

`body` is where you write content displayed on the page.

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Hello world</title>
  </head>
  <body>
    <h1>Hello buddies!</h1>
  </body>
</html>
<!-- end of file -->
```

HTML Syntax



Example

```
<a href="https://www.lewagon.com" target="_blank">  
    Le Wagon  
</a>
```

Result: Le Wagon

Questions:

- What is the element's name?
- What is the element's content?
- What are the 2 attributes (name and value)?

Titles

```
<h1>[...]</h1>    <!-- Only one per page! SEO important -->
<h2>[...]</h2>
<h3>[...]</h3>
<h4>[...]</h4>
<h5>[...]</h5>
<h6>[...]</h6>
```

Paragraphs

```
<p>
```

```
    Lorem ipsum dolor sit amet, consectetur adipisicing eli  
    Veritatis laboriosam mollitia autem at ab omnis iure qu  
    asperiores inventore eos nam aut iusto officiis deserun  
    nihil, sequi tempore impedit quae?
```

```
</p>
```

Emphasize

```
<p>
```

You can emphasize `some words`,
and even `more if needed`

```
</p>
```

Lists

```
<!-- Bullet points -->
<h2>Shopping List</h2>
<ul>
  <li>Milk</li>
  <li>Butter</li>
</ul>

<!-- Numbers -->
<h2>World Cup 2018</h2>
<ol>
  <li>France</li>
  <li>Uruguay</li>
  <li>Belgium</li>
  <li>England</li>
</ol>
```

Images

```

```

Forms

```
<form>
  <input type="email">
  <input type="password">
  <input type="submit" value="Sign up">
</form>
```

Sprint #1 (30 minutes)

- Start with the `boilerplate`
- Take your time for the setup (Sublime Text / Google Chrome)
- Replace current `images` with personal ones
- **Focus on the content (texts and images) of the result page we want.** Don't worry about the design right now.
- Your time to code the HTML content of your page.

3. CSS Basics

Style rules for fonts, colors, images & links.

Web without CSS?

Let's cut the `<head>` on facebook.com with Chrome dev tool.

This is how a website looks like without CSS.

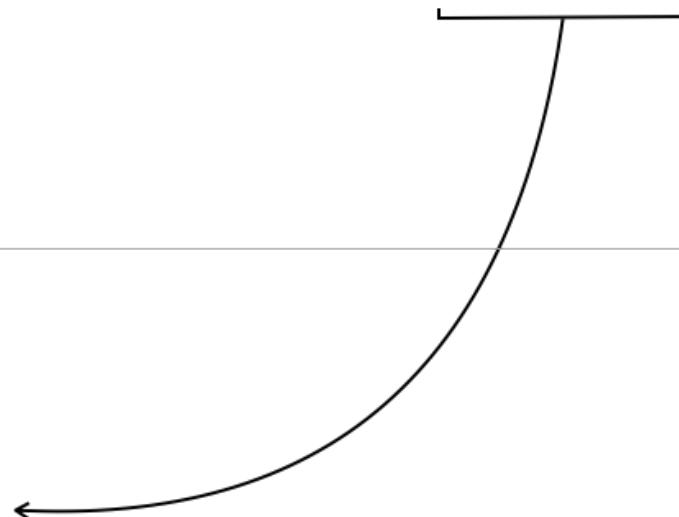
Linking a stylesheet

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 }
```

The diagram illustrates the components of a CSS rule. A horizontal line with a downward arrow points from the word 'selector' to the first line of the code ('selector {'). Another horizontal line with an upward arrow points from the words 'style properties' to the second line of the code ('property: value;'). A third horizontal line with a leftward arrow points from the words 'style rules' to the closing brace of the code ('}').

CSS selector

style rules

style properties

CSS Example

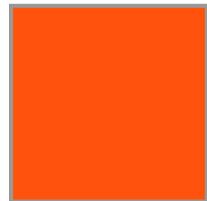


we select
all <h2> of the page

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

CSS Colors

```
color: #FF530D;  
color: rgb(255, 83, 13);  
color: rgba(255, 83, 13, 1.0);
```



Tips for grey scale

```
body {  
  color: rgb(10, 10, 10);  
}
```



0



50



87



162



209

255

Text vs. Background

```
body {  
    color: rgb(10, 10, 10);  
}
```

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

text color

background color

Fonts - family

```
1 body {  
2   font-family: Times, serif;  
3 }
```

Abc

```
1 body {  
2   font-family: Arial, sans-serif;  
3 }
```

Abc

```
1 body {  
2   font-family: Courier, monospace;  
3 }
```

Abc

Fonts - size & spacing

```
1 body {  
2   letter-spacing: 10px;  
3 }
```

```
1 body {  
2   font-size: 30px;  
3 }
```

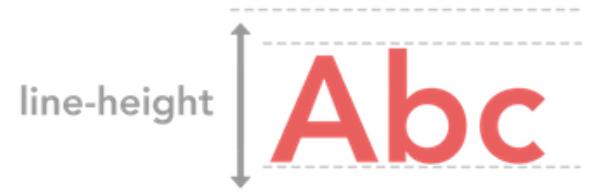
```
1 body {  
2   line-height: 1.6;  
3 }
```



A \longleftrightarrow b \longleftrightarrow c
letter-spacing



font-size
Abc



line-height
Abc

Fonts - decoration

```
1 p {  
2   text-decoration: underline;  
3 }
```

Abc

```
1 a {  
2   text-decoration: none;  
3 }
```

sign up
↓
sign up

Fonts - alignment

```
1 p {  
2   text-align: center;  
3 }
```

This is a centered paragraph aligned with text-align

```
1 p {  
2   text-align: justify;  
3 }
```

This is a justified paragraph aligned with text-align

Fonts - weight

```
1 body {  
2   font-weight: 100;  
3   // from 100 to 900.  
4 }
```

Light text

```
1 body {  
2   font-weight: bold;  
3 }
```

Bold text

Sprint #2 (15 minutes)

- Pick two fonts on [Google fonts](#) (1 for `body` + 1 for `h1, h2, h3`) and embed them into the `head` section.
- Don't forget to `link` your `style.css` in the `head` as well.
- Pick a color scheme on [Color Hunt](#) or [Coolors](#).
- Define CSS rules for colors & fonts: `body` , `h1` , `h2` , `h3` , `a` .
- Also design the `a:hover` state.

4. Structuring a page with `div`

You need to split your page into sections.

Real life...

Screenshot of the Airbnb website for Paris, France.

The search bar shows "Paris, France - Airbnb".

Filters: Room type, Price range, Instant Book, More filters.

Map view showing locations in the Paris region, including Sarcelles, Gonesse, Argenteuil, Courbevoie, Neuilly-sur-Seine, Bobigny, Rosny-sous-Bois, Montreuil, Noisy-le-Grand, Issy-les-Moulineaux, Clamart, Thiais, Orly, Palaiseau, Longjumeau, Viry-Châtillon, Vigneux-sur-Seine, and Brunoy.

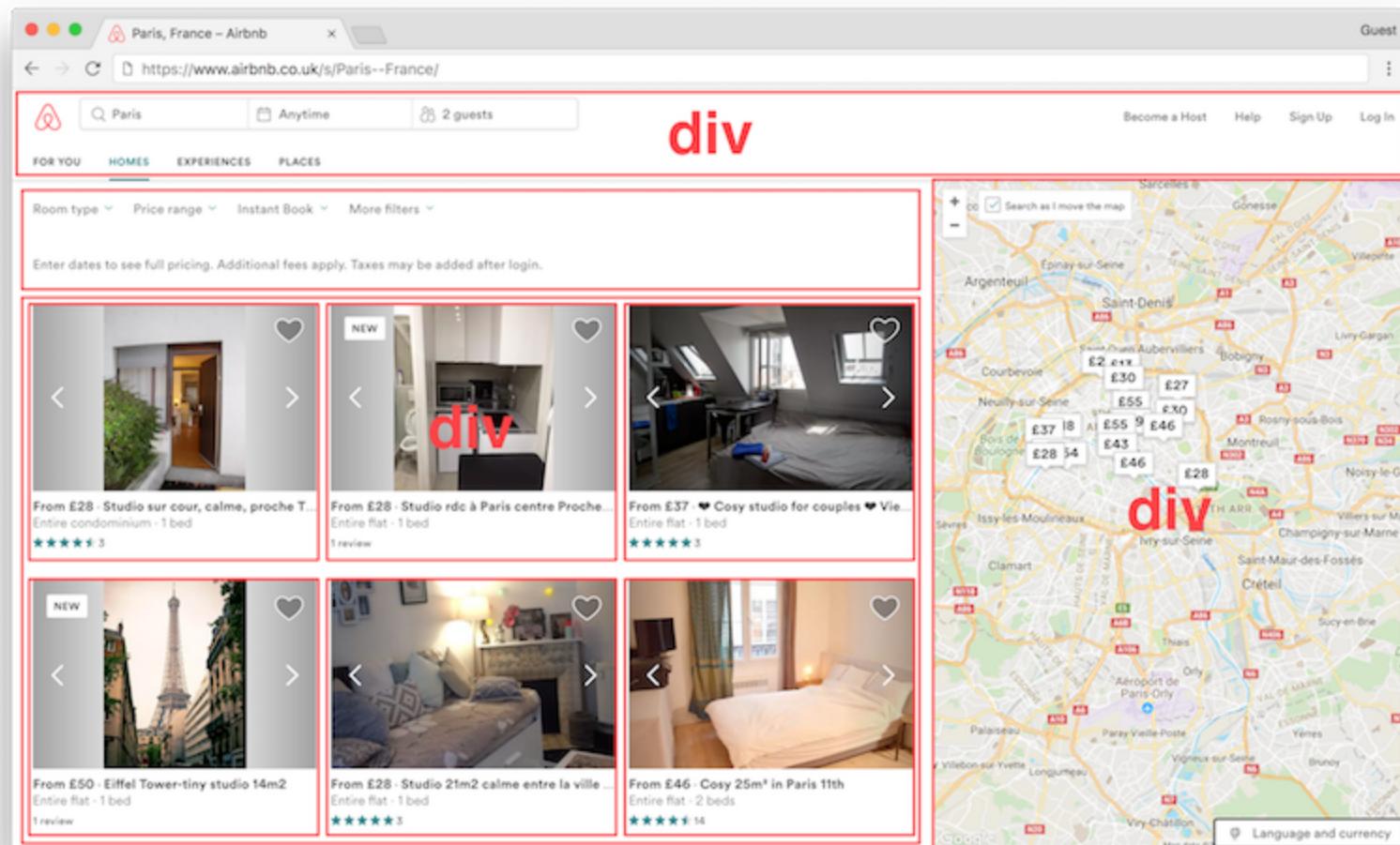
Language and currency: English, GBP (£)

Guest count: 2 guests

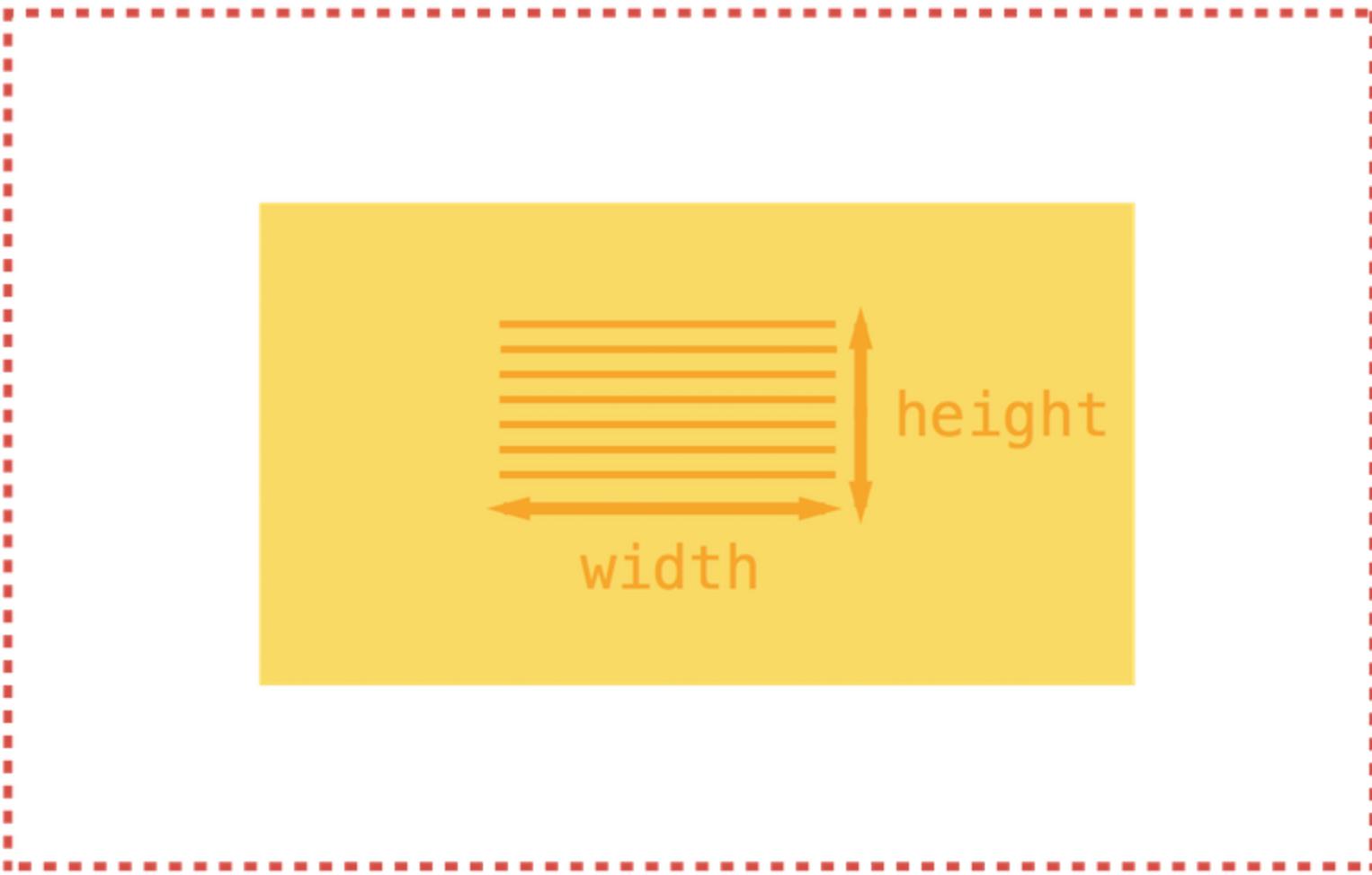
Room types displayed:

- From £28 - Studio sur cour, calme, proche T...
Entire condominium - 1 bed
1 review
★★★★★ 3
- From £28 - Studio rdc à Paris centre Proche...
Entire flat - 1 bed
1 review
NEW
- From £37 - ❤️ Cosy studio for couples ❤️ Vie...
Entire flat - 1 bed
★★★★★ 3
- From £50 - Eiffel Tower-tiny studio 14m²
Entire flat - 1 bed
1 review
NEW
- From £28 - Studio 21m² calme entre la ville ...
Entire flat - 1 bed
★★★★★ 3
- From £46 - Cosy 25m² in Paris 11th
Entire flat - 2 beds
★★★★★ 14

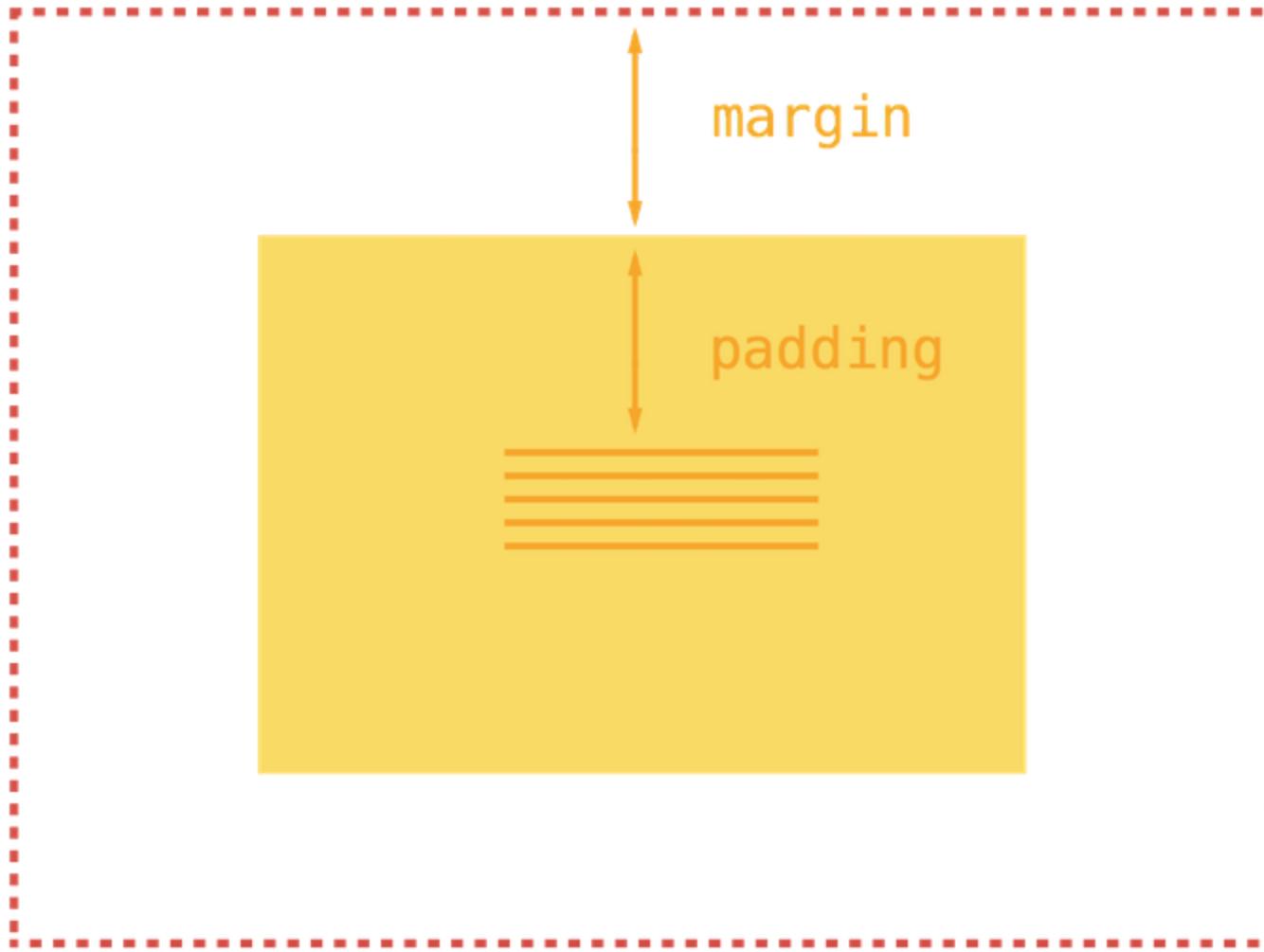
...is made of <div>



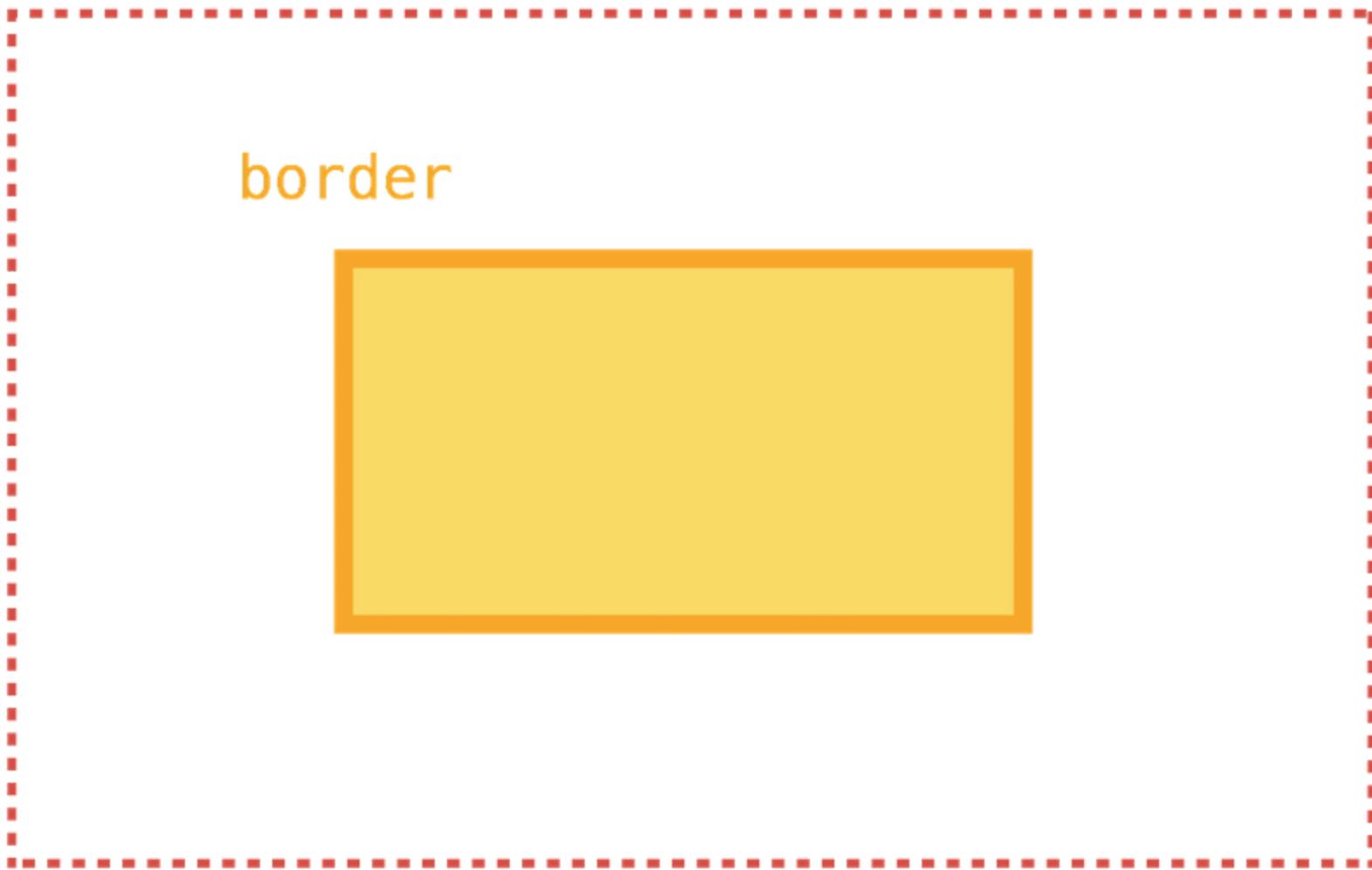
Box model - content



Box model - padding & margin



Box model - border

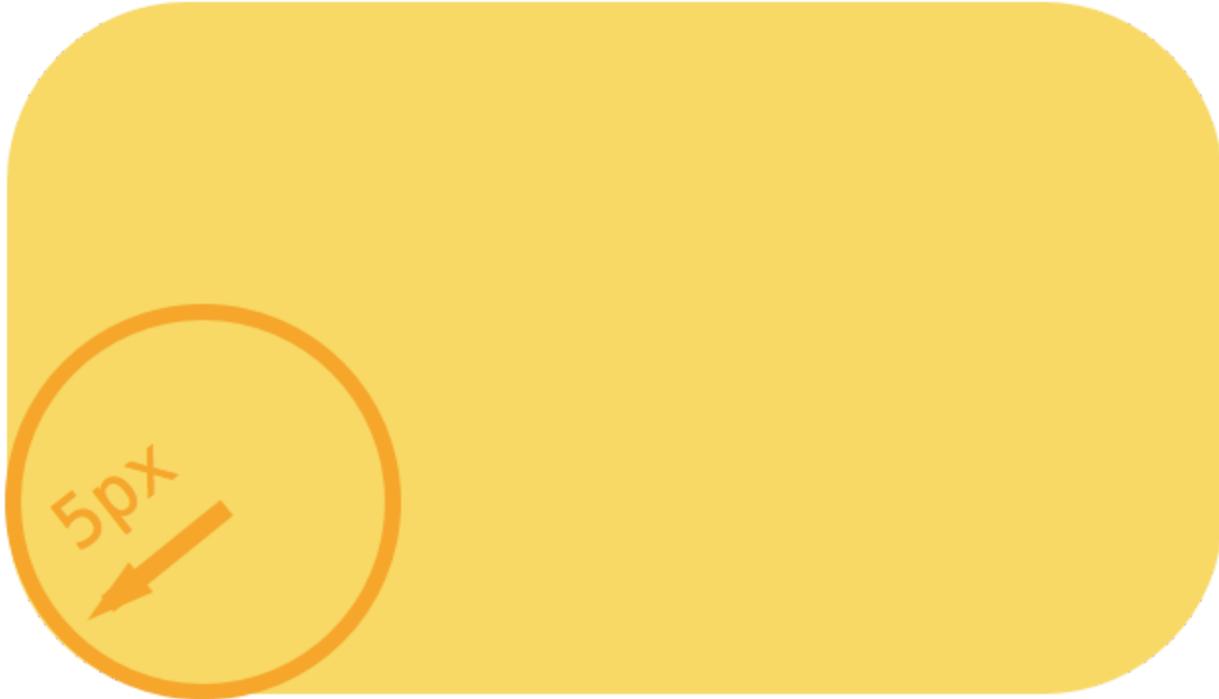


Border's syntax

```
div {  
    border-top: 1px solid red;  
    border-right: 2px dotted black;  
    border-bottom: 1px dashed green;  
    border-left: 2px dotted black;  
}
```



Border radius



border-radius: 5px;

Box shadow



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

Units

```
/* Absolute */
div {
    width: 50px;
}

/* Relative to parent */
div {
    width: 50%;
}

/* Relative to font size */
div {
    width: 2em;
```

Classic <div> design

```
background: white; /* White background */
padding: 30px; /* Internal space */
border-radius: 4px; /* Small radius */
box-shadow: 0 15px 35px rgba(50,50,93,.1); /* Stripe shadow */
```

An example of this design here.

<div> centering technique

```
width: 300px; /* Fix the width */  
margin: 0 auto; /* Set automatic margins for left & right
```

Classic centering
technique.

Sprint #3 (10 minutes)

- Look carefully at our result to understand the `<div>` structure of the page.
- Once you have it, quickly add the `<div>` in your HTML to wrap the relevant content.

Correction for <div> structure

```
<body>
  <div> <!-- Container (to center content) -->
    <div> <!-- Header -->
      ...
    </div>
    <div> <!-- Section -->
      ...
    </div>
    <div> <!-- Section -->
      ...
    </div>
    <div> <!-- Section -->
      ...
    </div>
    <div> <!-- Footer -->
      ...
    </div>
  </div>
</body>
```

5. Custom design with `id` and `class`

Let's do some real design.

What's the issue?

How do you style only the logo?

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 }
```



Name your element with an `id`

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 only team pictures?

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

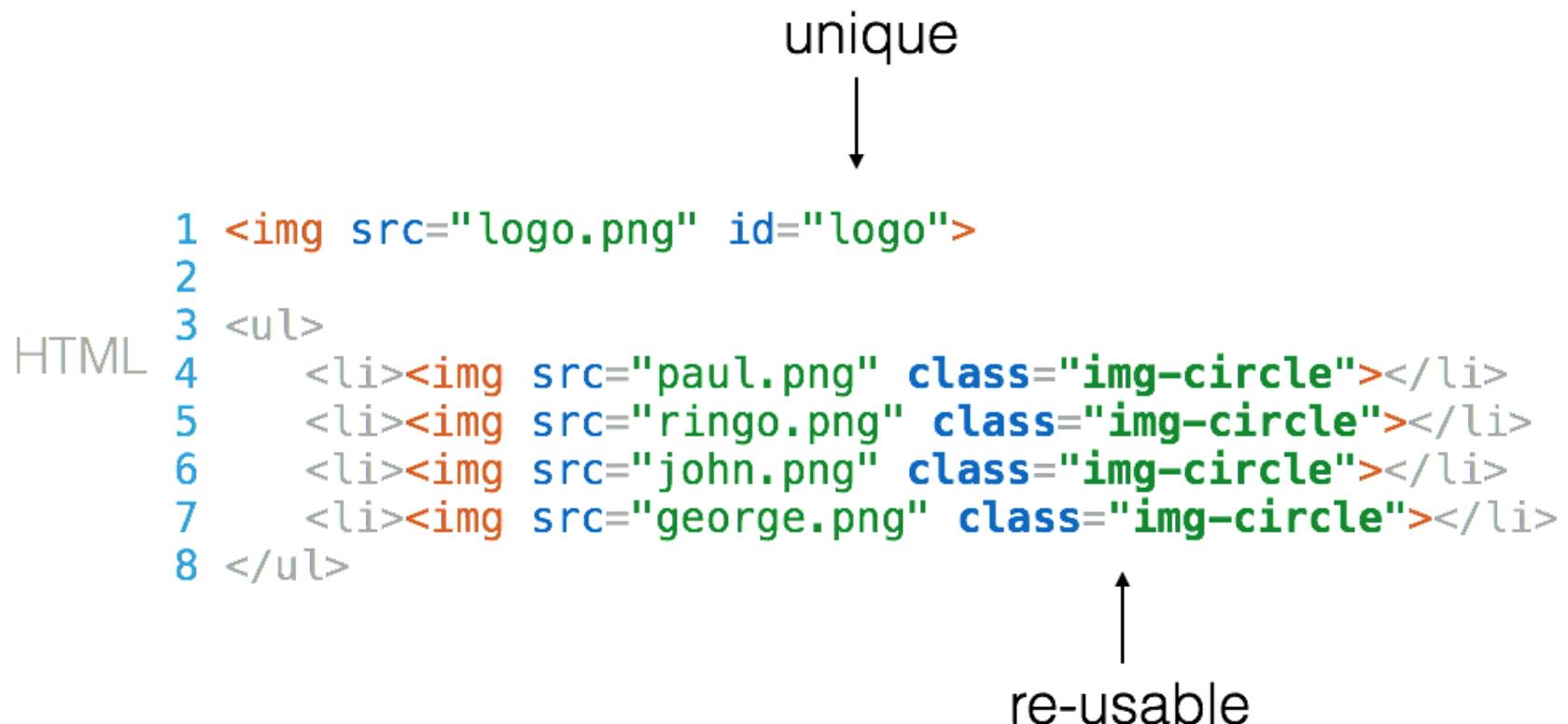
Name your elements with a `class`

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

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



id or **class** ?



You can combine them

HTML 1



CSS 1 .img-circle {
2 border-radius: 50%;
3 }



You can combine them

HTML 1

CSS
1 .img-circle {
2 border-radius: 50%;
3 }
4
5 .shadowed {
6 box-shadow: 5px 5px 3px black;
7 }



You can combine them

HTML 1

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

CSS 5 .shadowed {
6 box-shadow: 5px 5px 3px black;
7 }
8

```
9 #leader {  
10  border: 5px solid red;  
11 }
```



What's your intuition?

What are the best `class` names?

- `.btn-red` or `.btn-signup` ?
- `.background-blue` or `.background-home` ?
- `.img-user` or `.img-circle` ?

Tip: think graphical

A classic naming convention

```
/* Convention */
;element-design

/* Examples*/
.text-center
.text-justify
.btn-red
.btn-green
.btn-big
.list-inline
.form-horizontal
.img-rounded
.img-circle
```

Let's rehearse our CSS selectors

Element selectors

```
<!-- index.html -->
[...]
<body>
  <h1>Hello World</h1>
</body>
```

combined with

```
/* style.css */
h1 {
  color: red;
  font-weight: bold;
}
```

makes the `h1` elements red and bold.

Class selectors

```
<!-- index.html -->
[...]
<body>
  <p>This paragraph is not justified</p>
  <p class="text-justify">This one is</p>
  <p class="text-justify">This one also</p>
</body>
```

combined with

```
/* style.css */
.text-justify {
  text-align: justify;
}
```

makes only the second and third paragraphs justified.

Id selectors

```
<!-- index.html -->
<body>
  <div id="banner">
    <h1>Le Wagon</h1>
    <p>We bring tech skills to creative people</p>
  </div>
</body>
```

combined with

```
/* style.css */
#banner {
  background-image: url("example.jpg");
  background-size: cover;
}
```

puts an image background on the unique div with `id="banner"`.

Descendant selectors

```
<!-- index.html -->
<body>
  <div id="banner">
    <h1>Le Wagon</h1>
    <p>We bring tech skills to creative people</p>
  </div>
</body>
```

combined with

```
/* style.css */
#banner h1 {
  color: white;
}
```

h1 children of the element `id="banner"` will be white.

Grouping

```
/* style.css */
h1, h2, h3 {
    font-weight: bold;
}
```

is a shortcut syntax for

```
/* style.css */
h1 {
    font-weight: bold;
}
h2 {
    font-weight: bold;
}
[...]
```

Pseudo-class

```
/* style.css */
a {
    color: red;
    text-decoration: none;
}

a:hover {
    text-decoration: underline;
}
```

will make links underlined when the mouse hovers over them.

Quiz

Do you get it? Let's see!

Question #1

What's the text color?

```
<!-- index.html -->
<body>
  <p class="text-red">
    Lorem ipsum dolor sit amet, consectetur adipisicing e
  </p>
</body>
```

combined with

```
/* style.css */
p {
  color: black;
}
.text-red {
  color: red;
}
```

Question #2

What's the text color?

```
<!-- index.html -->
<body>
  <p id="bio" class="text-red">
    Lorem ipsum dolor sit amet, consectetur adipisicing e
  </p>
</body>
```

combined with

```
/* style.css */
.text-red {
  color: red;
}
#bio {
  color: green;
}
```

Specificity of selectors

```
p {                                     /* least specific */
  color: black;
}
.text-red {                         /*           specificity      */
  color: red;
}
#bio {                               /* most specific   */
  color: green;
}
```

Check out the [specificity calculator](#)

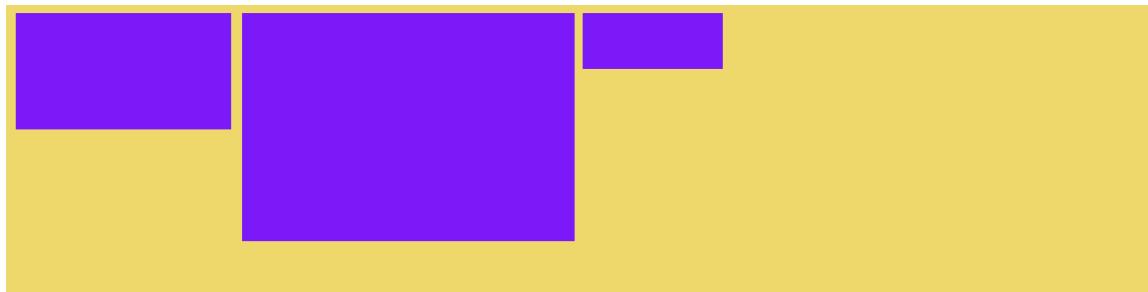
Sprint #4 (30 minutes)

- Name the elements you want to design with `class` and `id`
- Code like a pro and use the naming convention `.element-design` when choosing your `class` names.
- Once you've added all your `class` and `id` in the HTML, it's time to design the corresponding elements in the CSS and finalize your design to get exactly [this result](#).

How can we make our cards horizontal?

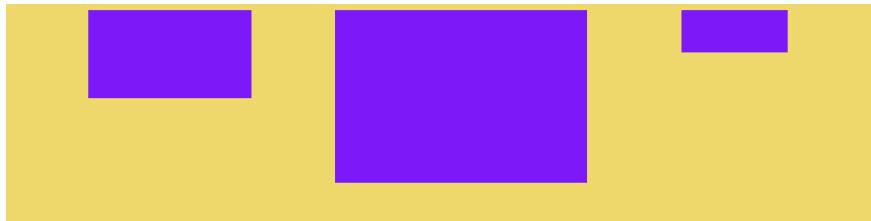
We can use **flexbox** !

Flexbox - Basics



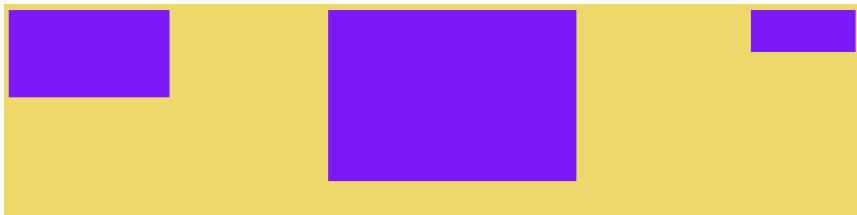
```
.flexbox {  
  display: flex;  
}
```

Flexbox - space around



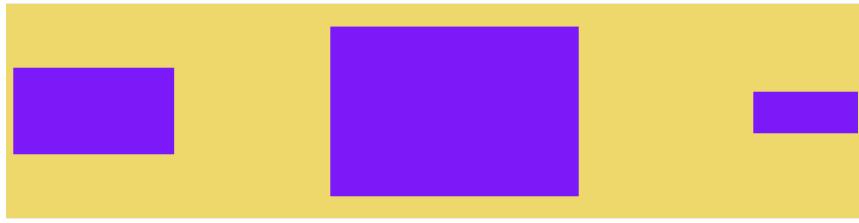
```
.flexbox {  
  display: flex;  
  justify-content: space-around;  
}
```

Flexbox - space between



```
.flexbox {  
  display: flex;  
  justify-content: space-between;  
}
```

Flexbox - align items



```
.flexbox {  
  display: flex;  
  justify-content: space-between;  
  align-items: center;  
}
```

Solution

```
<!-- index.html -->
<div class="cards-flex">
  <div class="card">
    <!-- content of card... -->
  </div>
  <div class="card">
    <!-- content of card... -->
  </div>
  <div class="card">
    <!-- content of card... -->
  </div>
</div>
```

combined with this CSS

```
/* style.css */
.cards-flex {
  display: flex;
  justify-content: space-around;
}
```

Thank you!

- Want to go further ? have a look at our [fullstack program](#).
- Follow us on [meetup](#) to come to our other workshops like **Ruby for beginners, Javascript for beginners, API for beginners** and many more!