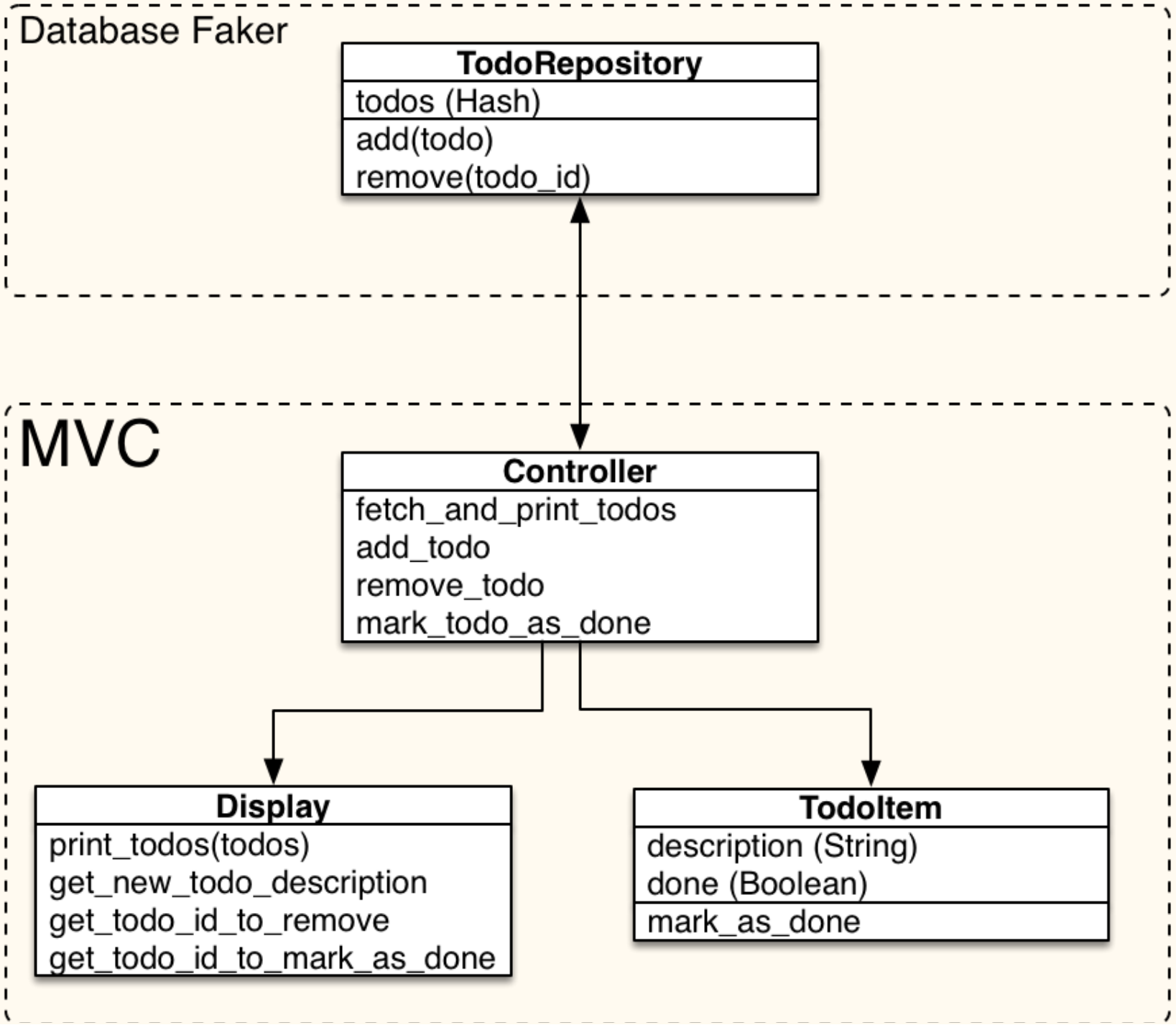
HTML & CSS

HTML


Database Faker
TodoRepository
todos (Hash)
add(todo)
remove(todo_id)
MVC
Controller
fetch_and_print_todos
add_todo
remove_todo
mark_todo_as_done
Display
print_todos(todos)
get_new_todo_description
get_todo_id_to_remove
get_todo_id_to_mark_as_done
TodoItem
description (String)
done (Boolean)
mark_as_done

VIEW IN A WEB APP

We use 3 technologies

HTML

CSS

CONTENT

This is what Google cares about. Think of SEO.

APPEARANCE

CSS

How does it look?

DYNAMIC BEHAVIOR

Animate stuff on screen. Client-side form validation.

SEPARATION OF CONCERNS

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 -->
```

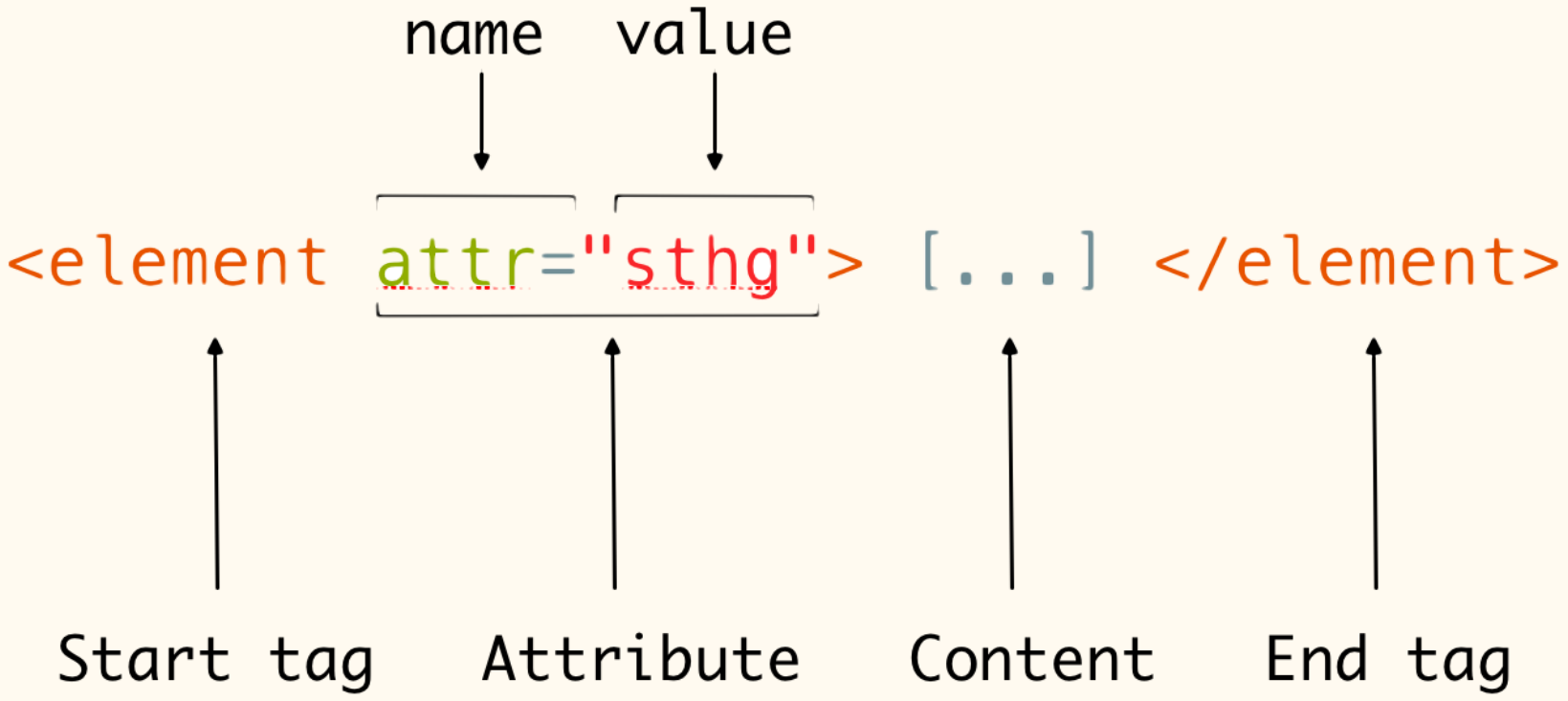
HTML SKELETON

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello world</title>
    <meta charset="utf-8">
  </head>
  <body>

  </body>
</html>

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

HTML SKELETON

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello world</title>
    <meta charset="utf-8">
  </head>
  <body>
    <!-- Stuff to display in the page -->
  </body>
</html>

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

ELEMENT SYNTAX



EXEMPLE

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

Result: Le Wagon

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 elit.
  Veritatis laboriosam mollitia autem at ab omnis iure quis
  asperiores inventore eos nam aut iusto officiis deserunt
  nihil, sequi tempore impedit quae?
</p>
```

EMPHASIZE

```
<p>
  You can emphasize <em>some words</em>,
  and even <strong>more if needed</strong>
</p>
```

LISTS

```
<h2>Shopping List</h2>
<ul>
  <li>Milk</li>
  <li>Butter</li>
</ul>

<h2>World Cup 2014</h2>
<ol>
  <li>Germany</li>
  <li>Argentina</li>
  <li>Netherlands</li>
  <li>Brazil</li>
</ol>
```

IMAGES

```
<img src="logo.png" alt="Le Wagon logo">
```

TABLES

```
<table>
  <thead>
    <tr>
      <th>First Name</th>
      <th>Last Name</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Boris</td>
      <td>Paillard</td>
    </tr>
    [...]
  </tbody>
```

FORMS

```
<form action="/users/sign_in">
  <input type="text" name=“email">
  <input type="password" name=“password">

  <input type="submit" value="Log in">
</form>
```

CHECKBOXES

```
<label>
  <input type="checkbox" name="remember_me">
  Remember me
</label>

<!-- Or -->

<input type="checkbox" name="tos" id="tos">
<label for="tos">
  I agree with the Terms of Service
</label>
```

RADIOS

```
<label>
  <input type="radio" name="gender" value="m">
  Male
</label>
<label>
  <input type="radio" name="gender" value="f">
  Female
</label>
```

SELECTS

```
<select name="gender">
  <option value="m">Male</option>
  <option value="f">Female</option>
</select>
```

INPUTS AND TEXTAREAS

```
<input name="bio" type="text">

<textarea name="bio" rows="3"></textarea>
```

EMBEDS / IFRAME

```
<iframe width="560" height="315"
        src="//www.youtube.com/embed/STjSTMDG8pk"
        frameborder="0" allowfullscreen>
</iframe>
```

HTML 5

```
<header></header>
<footer></footer>
<nav></nav>
<aside></aside>
<article></article>
<section></section>
```

codeguide.co

CSS

WEB WITHOUT CSS ?

surfingla.fr

LINKING STYLESHEET TO HTML PAGE

```
<!-- index.html -->
[...]
<head>
  <link rel="stylesheet" href="app.css">
</head>
[...]
```

External file

```
/* app.css */
body {
  font-family: Arial;
}
```

CSS SYNTAX

```
selector {
  property: value;
  property: value;
  property: value;
}
```

SELECTORS

ELEMENT SELECTOR

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

combined with

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

makes the `h1` element text red and bold.

JUSTIFYING TEXT

```
/* app.css */
p {
  text-align: justify
}
```

Will make **all** paragraphs justified.

What if we want just *some* of the justified?

CLASS SELECTOR

```
<!-- 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

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

will make only the second and third paragraphs justified.

WHAT IF WE WANT TO SPECIFY CSS FOR A UNIQUE ELEMENT?

ID SELECTOR

```
<!-- index.html -->
<body>
  <ul id="navigation">
    <li>About</li>
    <li>Contact</li>
  </ul>
</body>
```

combined with

```
/* app.css */
#navigation {
  position: fixed;
  top: 0;
}
```

will make the **unique** element of id `navigation` fixed at the

DESCENDANT SELECTORS

```
<!-- index.html -->
<body>
  <ul id="navigation">
    <li>About</li>
    <li>Contact</li>
  </ul>
</body>
```

combined with

```
/* app.css */
#navigation li {
  float: left;
}
```

will make all the `li` children of the element `#navigation` floating left.

GROUPING

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

is a shortcut syntax for

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

PSEUDO CLASSES

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

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

will make links underlined when the mouse hovers over them.

See other pseudo classes

QUIZZ

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

combined with

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

QUIZZ #2

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

combined with

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

SPECIFICITY OF SELECTORS

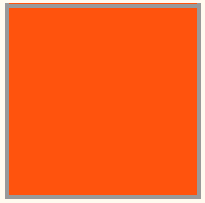
```
p {                     /* least specific */
  color: black;
}
.text-red {             /*        ↓       */
  color: red;
}
#bio {                  /* most specific  */
  color: green;
}
```

Check out the specificity calculator

PROPERTY VALUES

COLOR

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



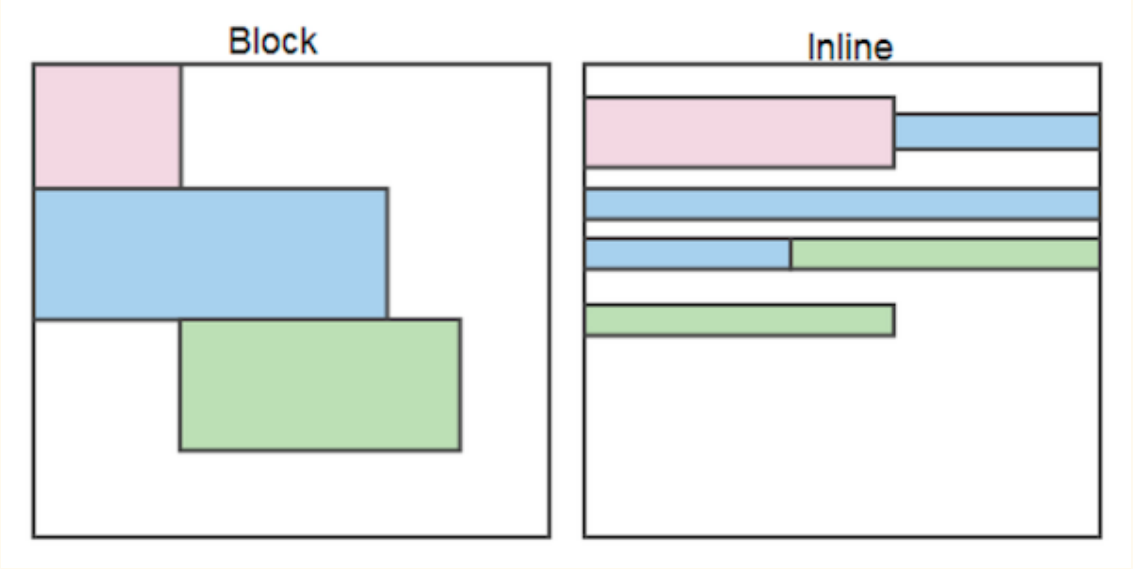
FONTS

```
font-family: arial;
font-size: 16px;
font-weight: bold;
line-height: 20px;
font-style: italic;
letter-spacing: 1px;
```

UNITS

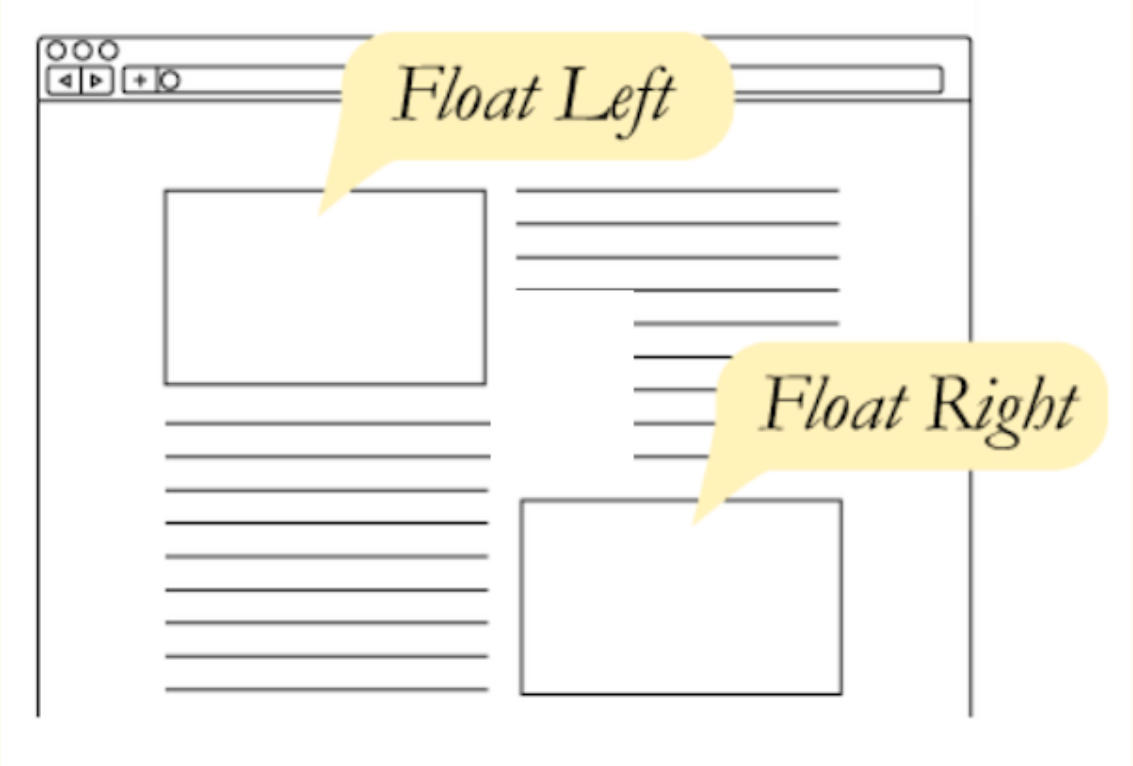
```
/* Absolute */
p {
  width: 50px;
}

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

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

FLOW

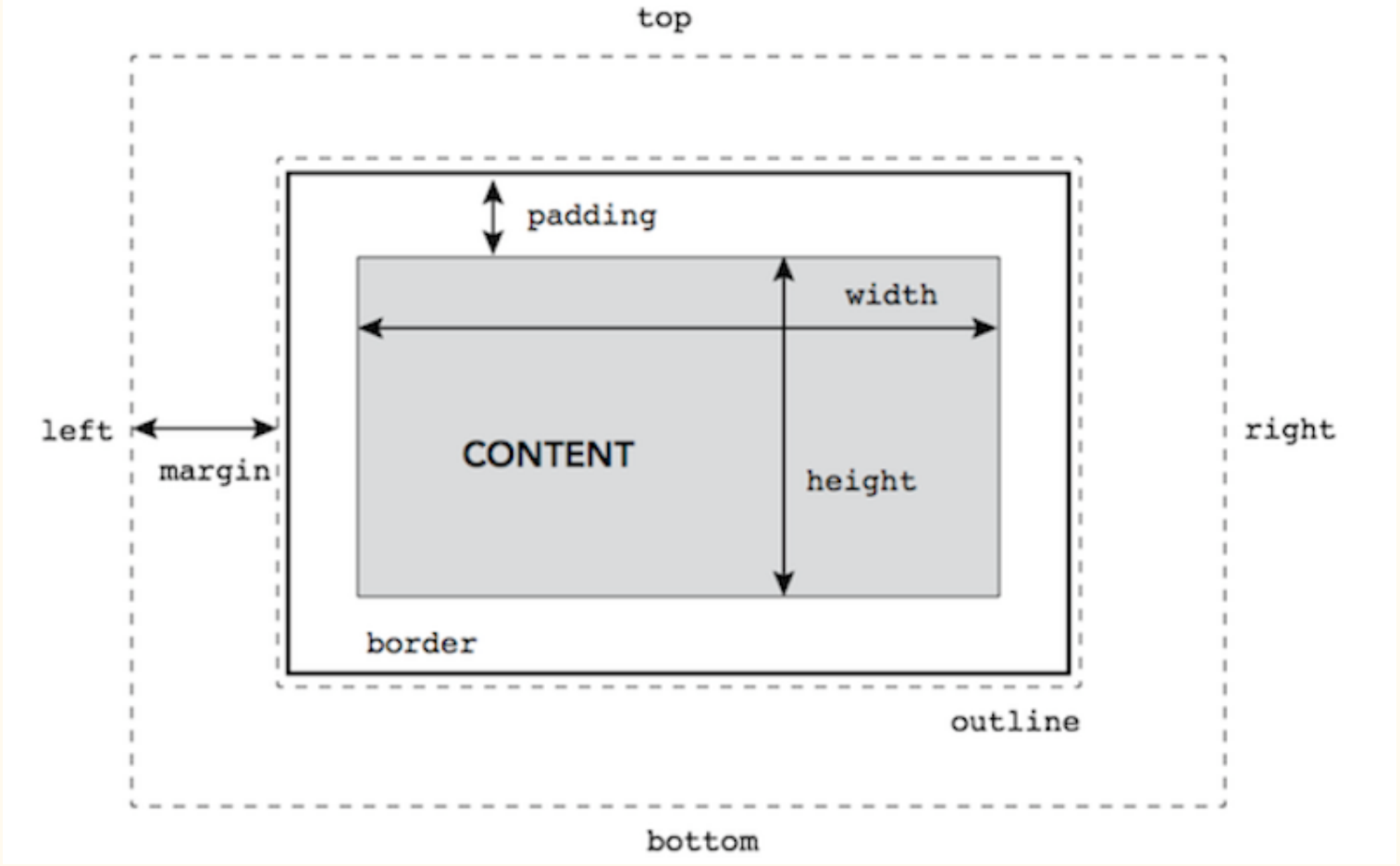


Block elements: `h1`, `p`, `ul`, etc. Inline elements: `em`, `strong`, `a`, `img`, etc.

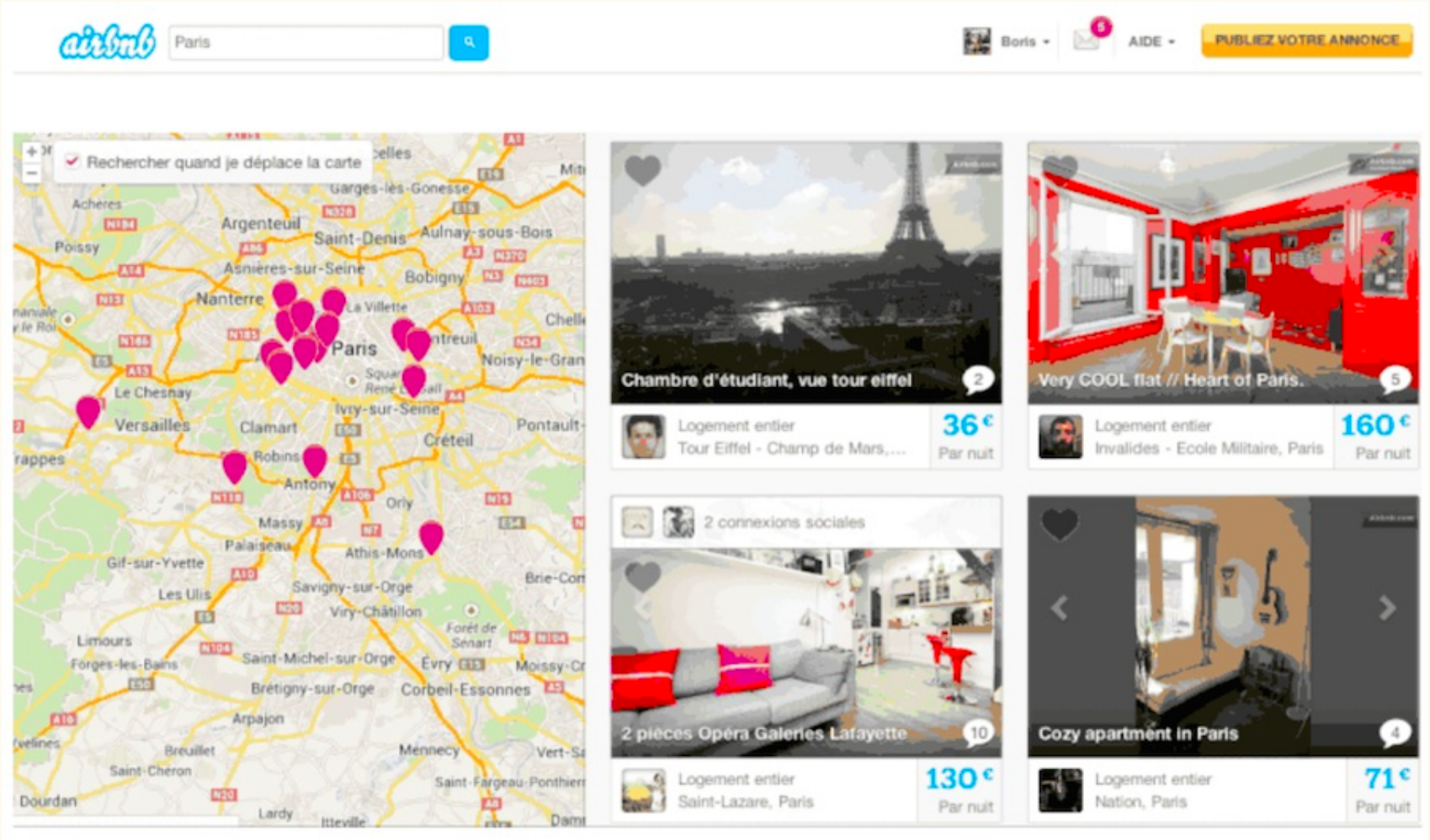
FLOAT



BOX MODEL (BLOCK / INLINE-BLOCK ELEMENTS)



REAL LIFE...


airbnb
Paris
Boris
AIDE
PUBLIEZ VOTRE ANNONCE
Rechercher quand je déplace la carte
Paris
Versailles
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
2 pièces Opéra Galeries Lafayette
Logement entier
Saint-Lazare, Paris
130 €
Par nuit
Cozy apartment in Paris
Logement entier
Nation, Paris
71 €
Par nuit

… IS MADE OF `<DIV>`