

Web Development

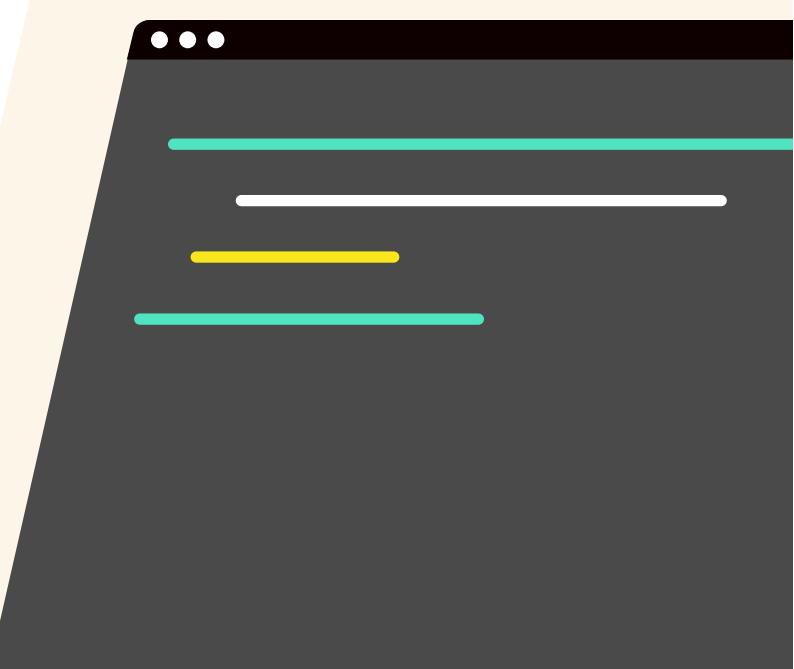
Sprint



Welcome, class !

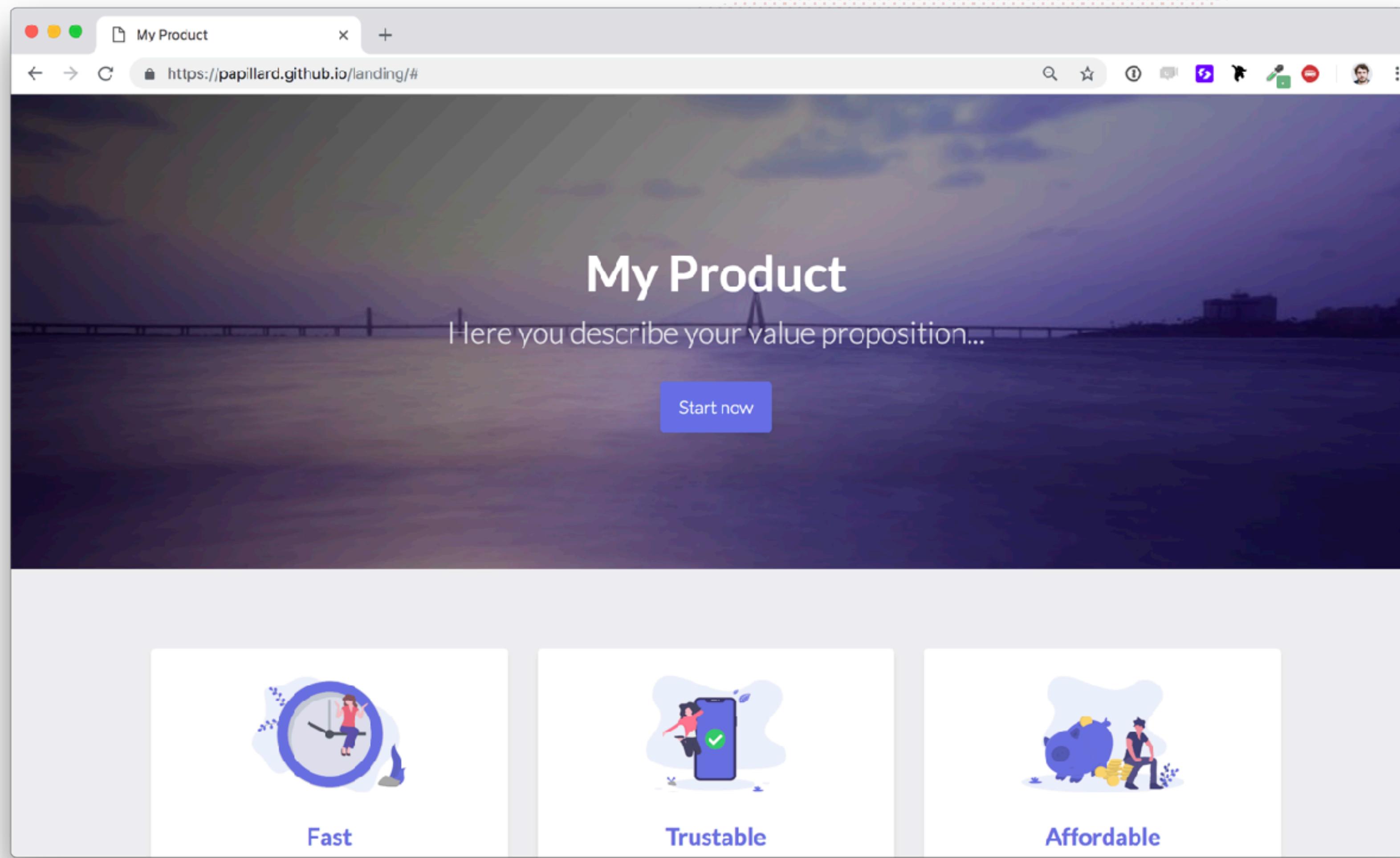
Let's learn how to code websites together 😎

<https://pedrolane.github.io/landing/>



What **you** will build in this sprint

your responsive landing page

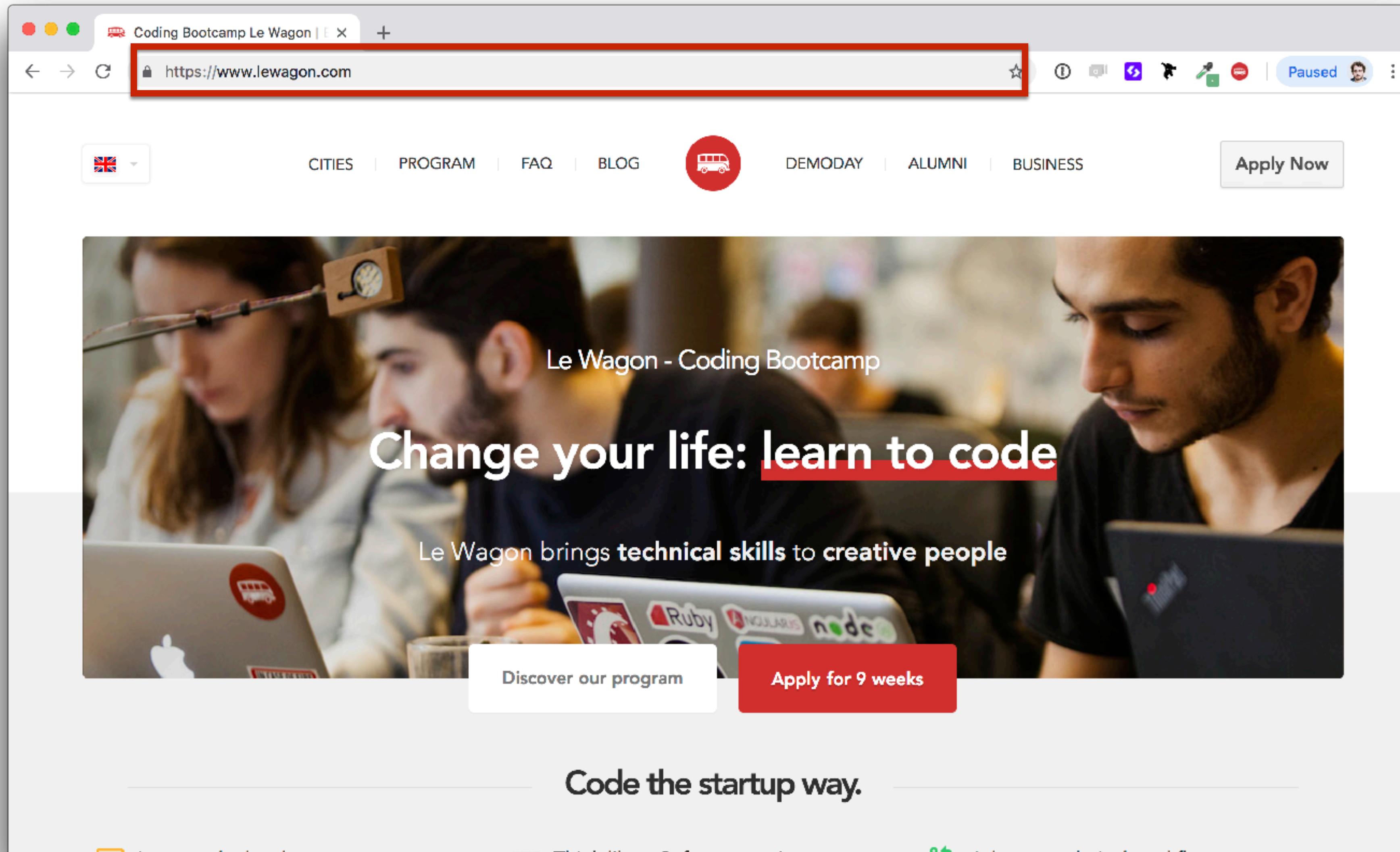


**But first,
How does a website work?**



What happens when we visit a website?

We enter a URL

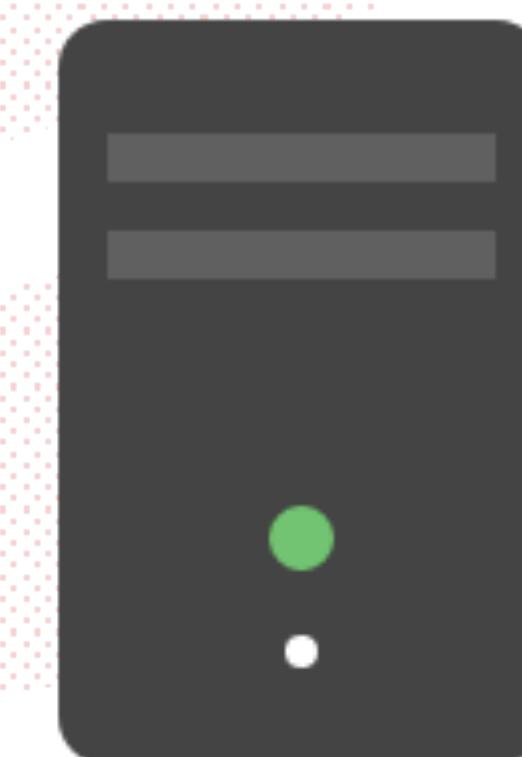


We see the result
web page

<http://www.lewagon.com>



client



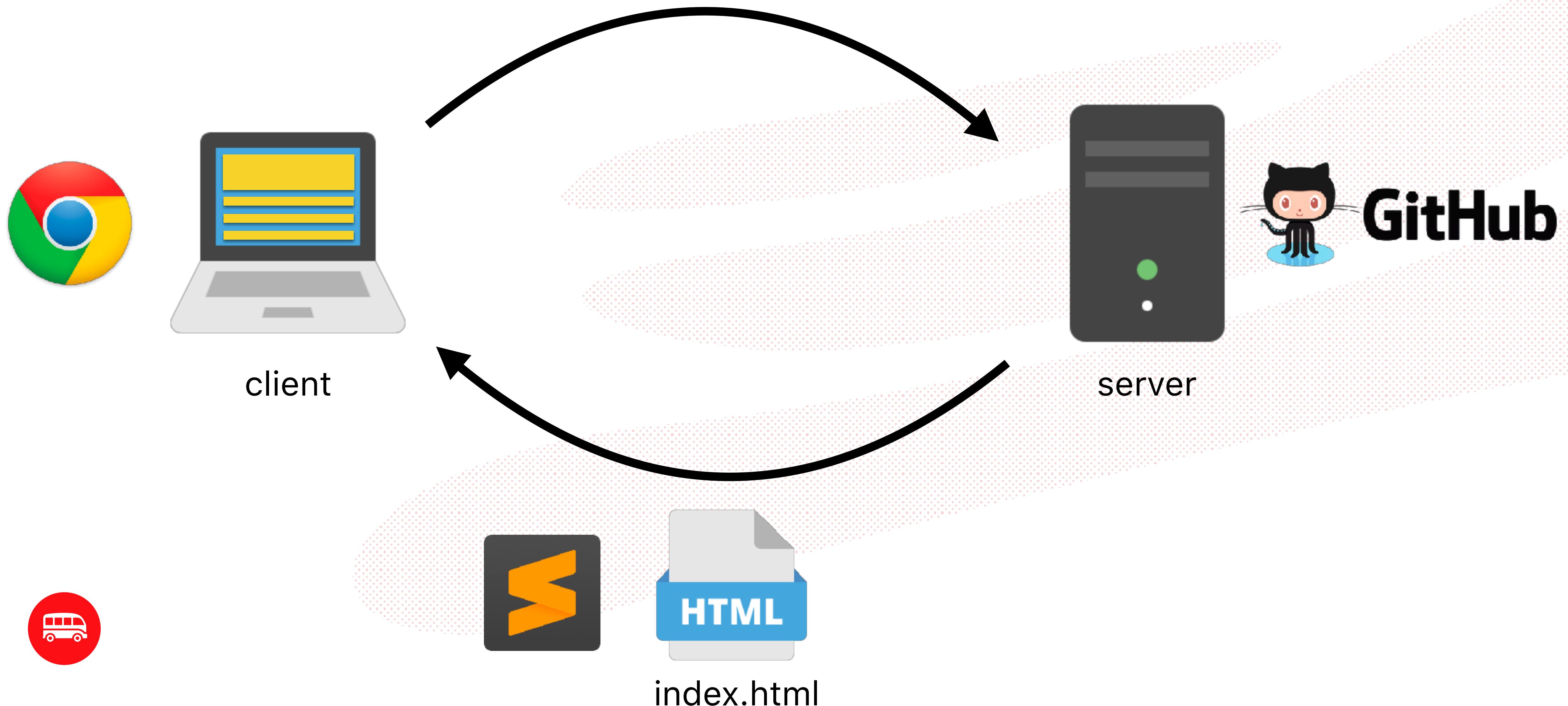
server



index.html



<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.



Hosting Service

Github

A service to put our website online.



Demo 1- Setup

Let's create our project and
learn how to work with Sublime Text / Google Chrome



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 **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>
```

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

 Lorem ipsum dolor sit amet,

 consectetur adipisicing

 elit. Veritatis laboriosam

HTML

unordered list

```
<ul>
```

```
  <li> Bread </li>
```

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

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

```
</ul>
```

HTML

ordered list

 France

 Uruguay

 Belgium

HTML

images

```

```

Demo 2- HTML content

Let's add some HTML content for our landing page



Web Development

CSS Basics



A web page =

Content and structure



+

Design



Linking a stylesheet



index.html

```
<head>  
    <link href="style.css" rel="stylesheet">  
</head>
```

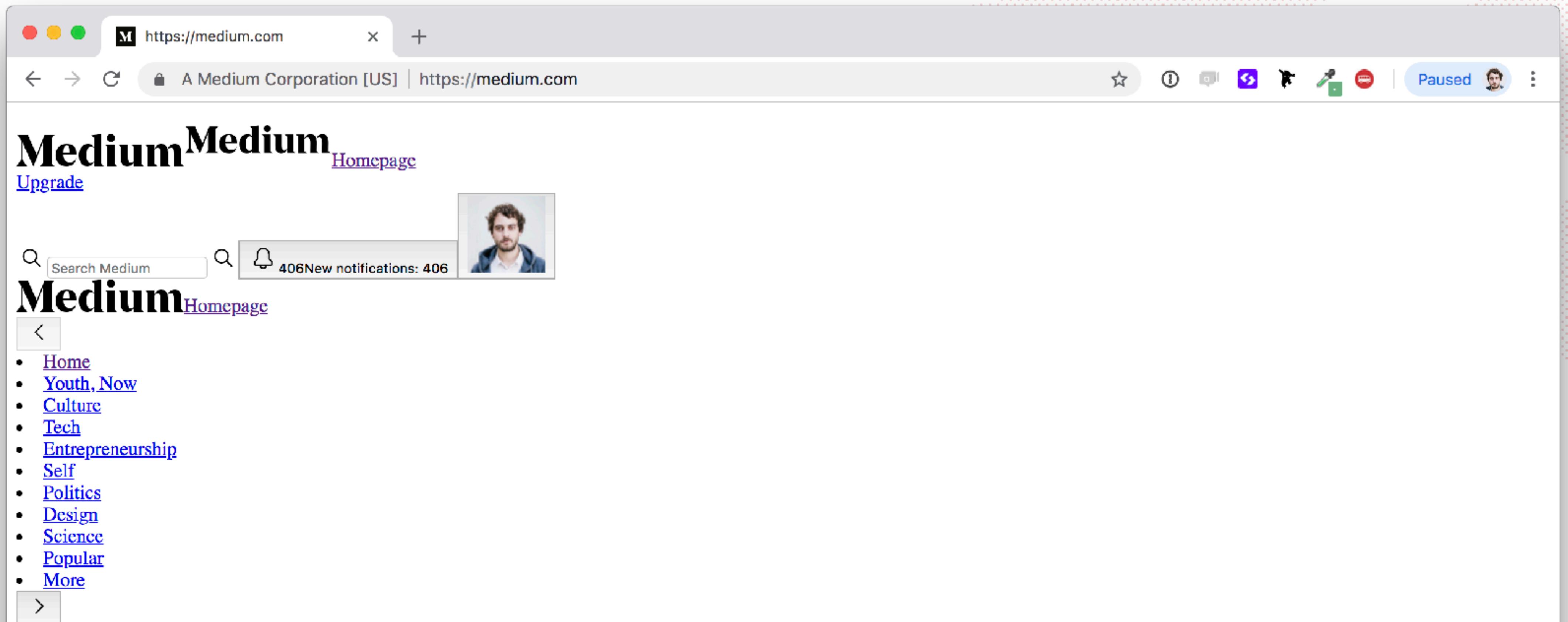


style.css

```
h1 {  
    color: red;  
}
```

Web without CSS

Let's check a website without CSS



[Conservatives Hate Postmodernism, and Liberals Don't Understand Why](#)

Right-leaning intellectuals toss around the artsy term both as an attack and defense of their values.

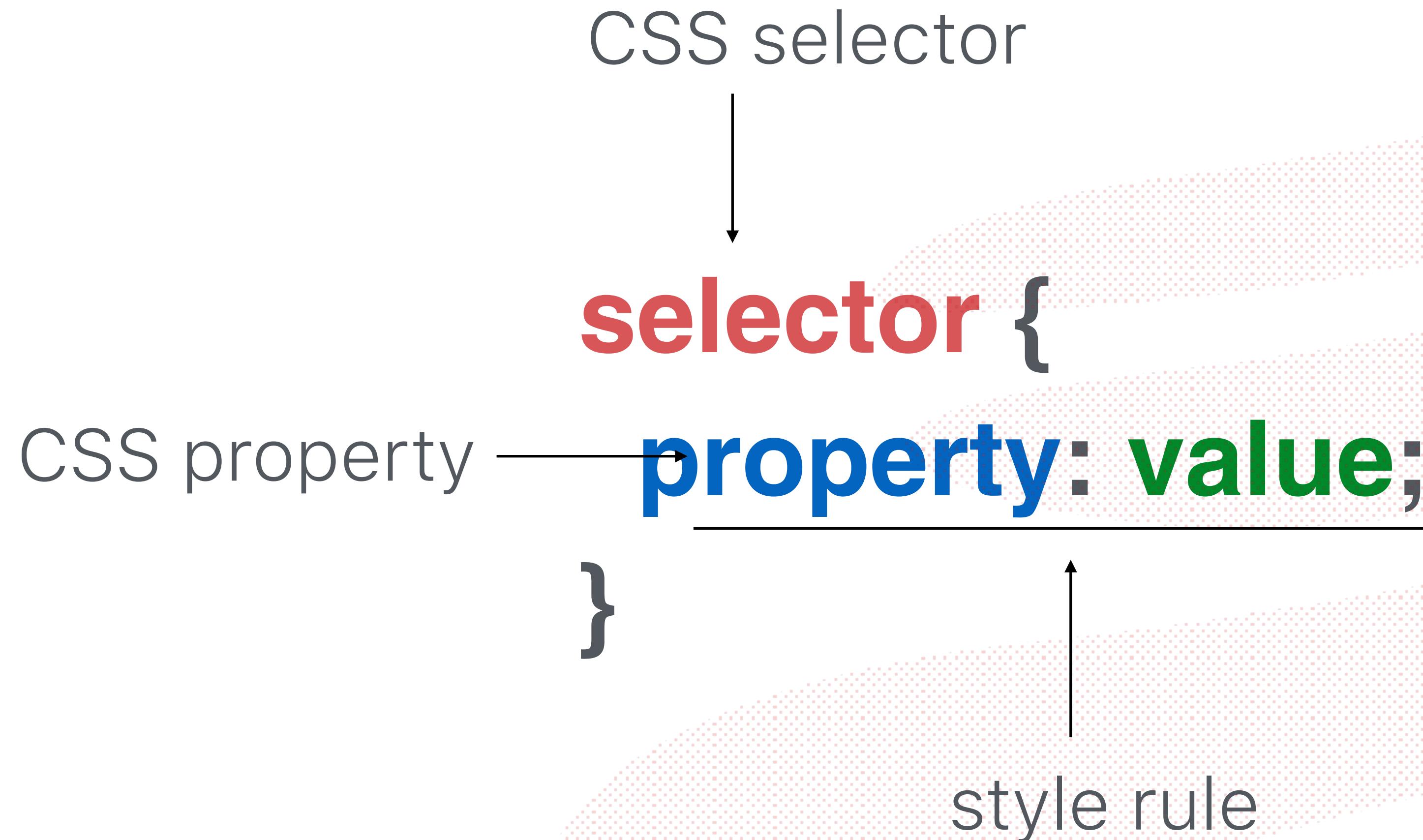
CSS

syntax

```
selector {  
    property: value;  
    property: value;  
}  
  
h2 {  
    color: red;  
    font-size: 24px;  
}
```

CSS

vocabulary



CSS

colours

```
h2 {  
color: red;  
background-color: yellow;  
}
```

CSS

colours

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



CSS

grey scale

```
h2 {
```

```
    color: rgb(0, 0, 0);
```

```
    color: rgb(255, 255, 255);
```

```
    color: rgb(30, 30, 30);
```

```
    color: rgb(230, 230, 230);
```

```
}
```

CSS

font-family

```
body {
```

```
  font-family: Times, serif;
```

```
  font-family: Arial, serif;
```

```
  font-family: Courier, monospace;
```

```
}
```

A
B
C

A
B
C

A
B
C

CSS

font size and spacing

```
body {
```

```
  font-size: 30px;
```

```
  line-height: 1.6;
```

```
  letter-spacing: 10px;
```

```
}
```

A diagram showing the word "Abc" in red font. A vertical double-headed arrow labeled "font-size" indicates the height from the baseline to the top of the letters. Dashed horizontal lines above and below the letters define the font's bounding box.

A diagram showing the word "Abc" in red font. A vertical double-headed arrow labeled "line-height" indicates the total height from the baseline to the baseline of the next line. Dashed horizontal lines above and below the letters define the line's bounding box.

A diagram showing the letters "A", "b", and "c" in red font. Horizontal double-headed arrows labeled "letter-spacing" indicate the distance between the centers of each letter. Dashed horizontal lines above and below the letters define the letters' bounding box.

CSS

font weight

```
body {
```

```
  font-weight: 100;
```

```
  /* from 100 to 900 */
```

```
  font-weight: lighter;
```

Light text

```
  font-weight: bold;
```

Bold text

```
}
```

CSS

decoration and alignment

```
a {  
    text-decoration: none;  
}
```

sign up
↓
sign up

```
p {  
    text-justify: center;  
    text-justify: justify;  
}
```

This is a centered
paragraph aligned
with text-align

This is a justified
paragraph aligned
with text-align

Demo



3- First CSS rules

Let's design **fonts** and **colors** for body, headers, links

Let's use Google Fonts (**Lato**) + a color picker

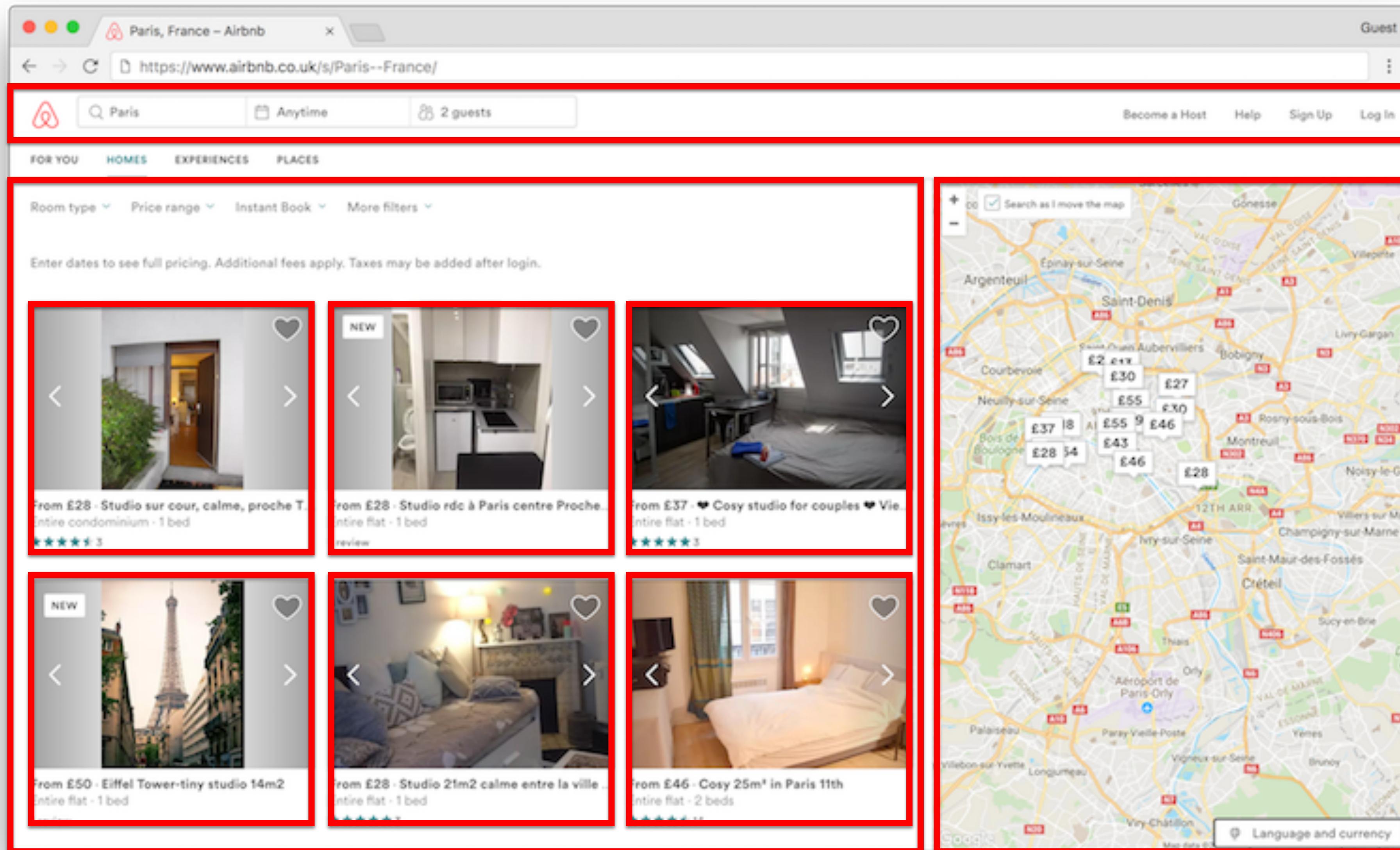


Web Development

Div structure

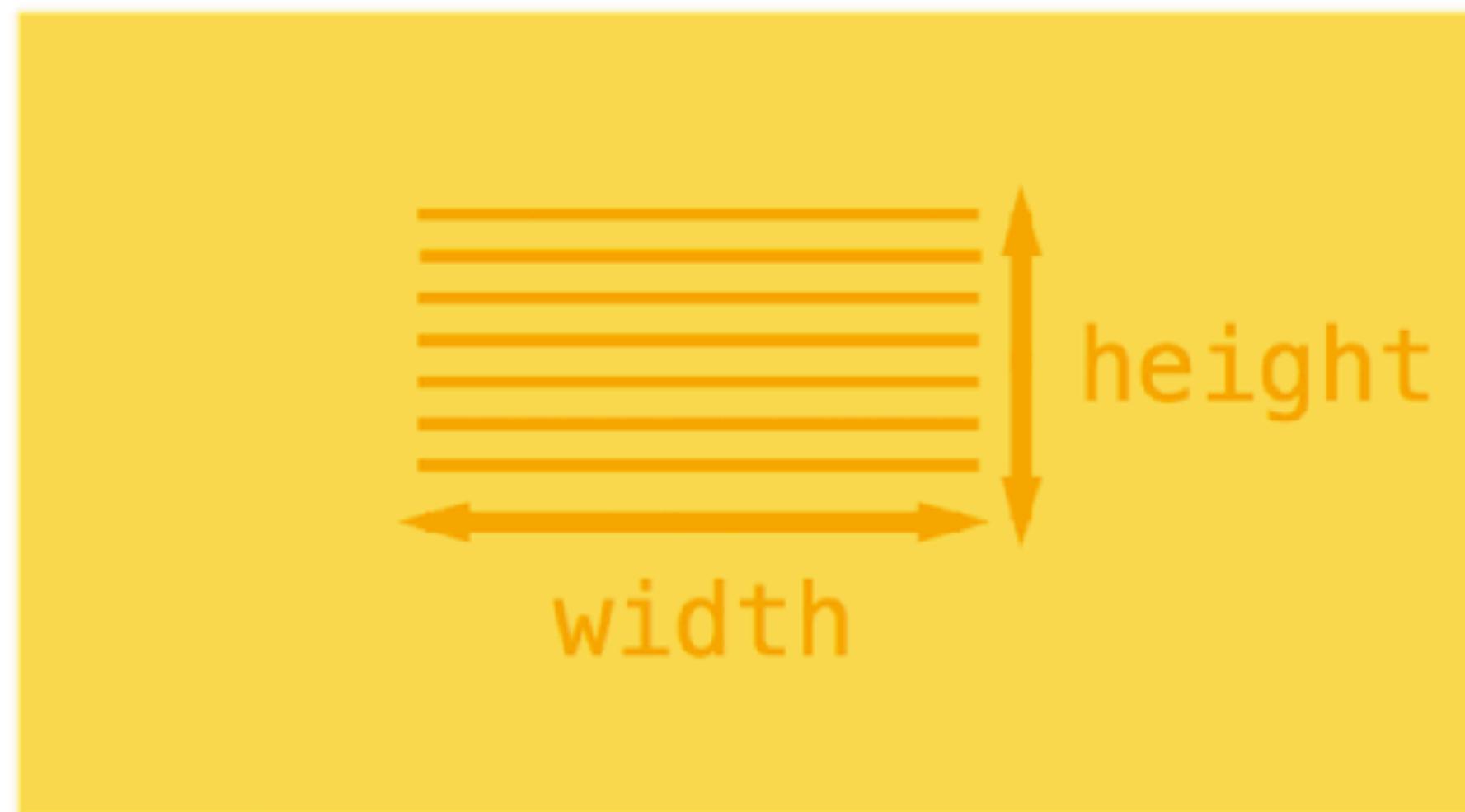


A real website is made of <div>



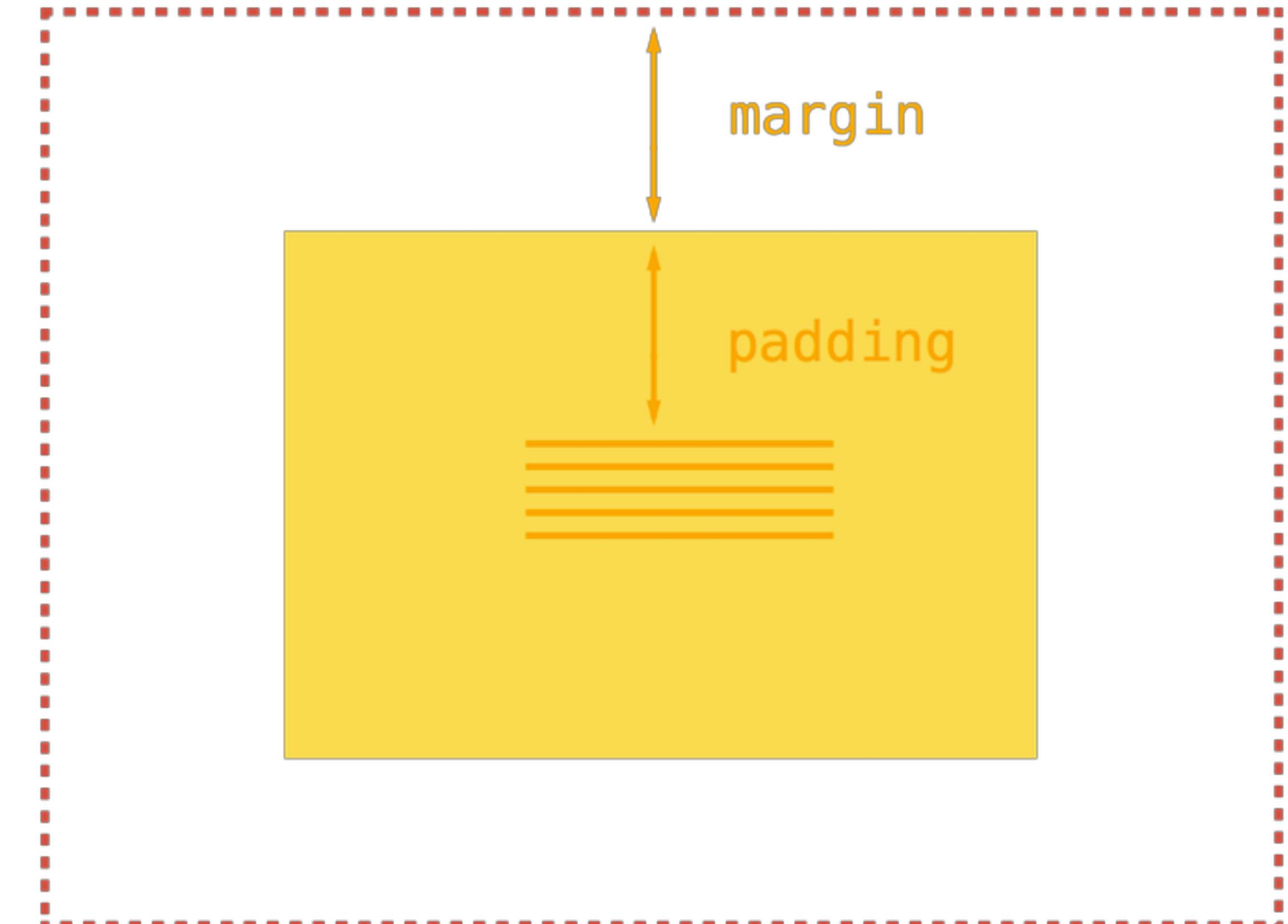
div width and height

```
div {  
  width: 300px;  
  height: 150px;  
}
```



div margin / padding

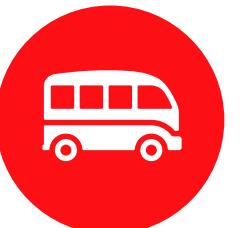
```
div {  
  margin: 30px;  
  padding: 10px 20px;  
}
```



div border



border: 1px solid yellow;



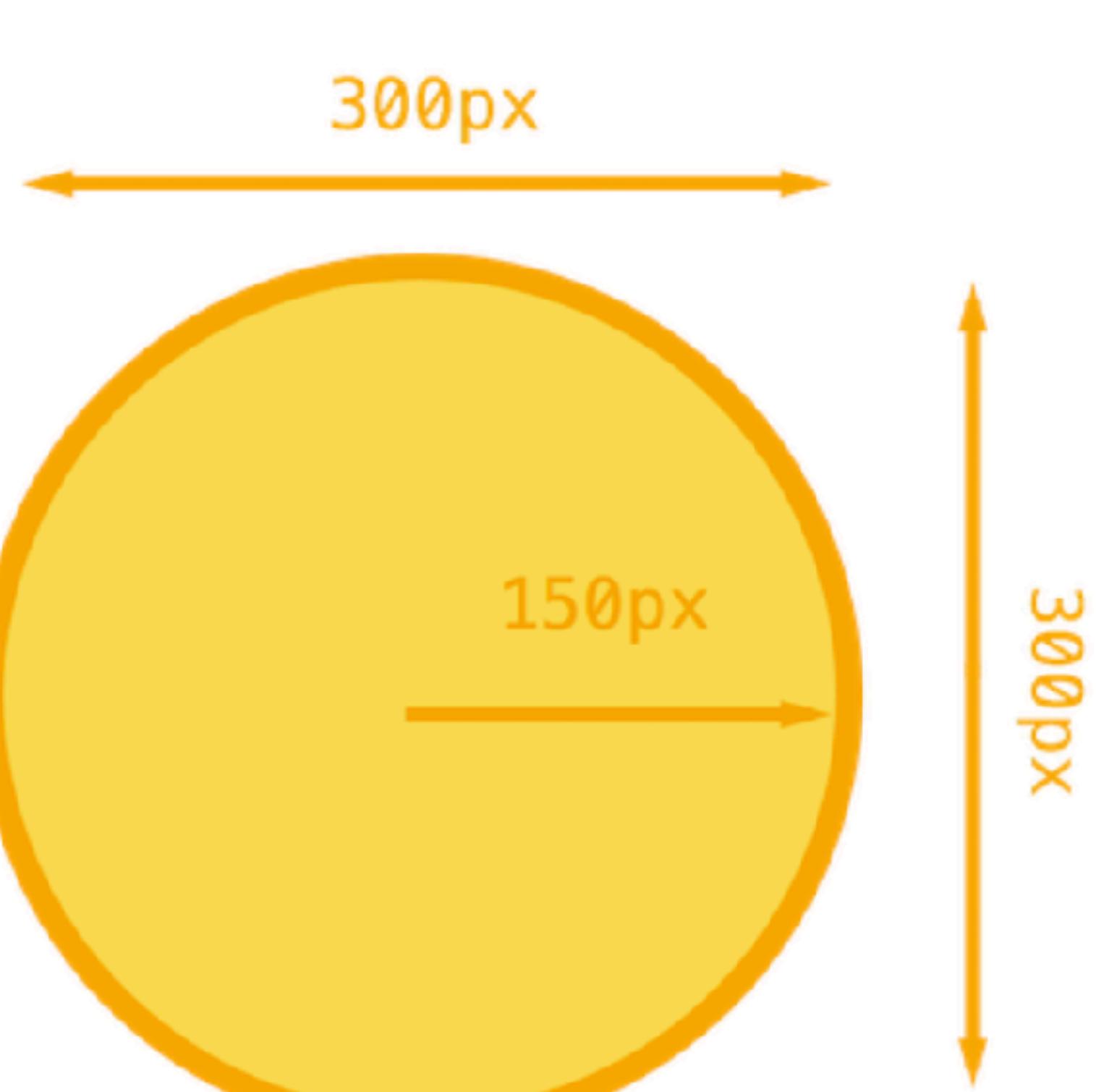
div border radius



border-radius: 5px;



div border radius



border-radius: 50%;



div box shadow



box-shadow: 10px 20px 30px blue;



Demo



4- Adding div

Let's add div for the different page sections.



Web Development

Id and class



How to resize the logo **only** ?



index.html

```
  
  
<ul>  
  <li></li>  
  <li></li>  
  <li></li>  
  <li></li>  
</ul>
```



style.css

~~img {
 width: 100px;
}~~

How to resize the logo **only** ?



index.html

```
  
  <li></li>  
  <li></li>  
  <li></li>  
  <li></li>  
</ul>
```



style.css

```
#logo {  
  width: 100px;  
}
```



How to resize staff pictures **only** ?



index.html

```
  
<ul>  
  <li></li>  
  <li></li>  
  <li></li>  
  <li></li>  
</ul>
```



style.css

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



unique adjustment

10% of your CSS



```

```

```
<ul>
  <li></li>
  <li></li>
  <li></li>
  <li></li>
</ul>
```

re-usable design

90% of your CSS



Combining classes



```

```

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

```
.img-bordered {  
    border: 5px solid red;  
}
```

img-circle

img-bordered

Class naming convention

class=“element-design”

Examples

class=“text-center”

class=“button-red”

class=“list-inline”

class=“img-circle”

class=“form-horizontal”

Demo



5- Designing with class

Let's design the following elements

`id="banner"`

`class="btn-blue"`

`class="card-white"`

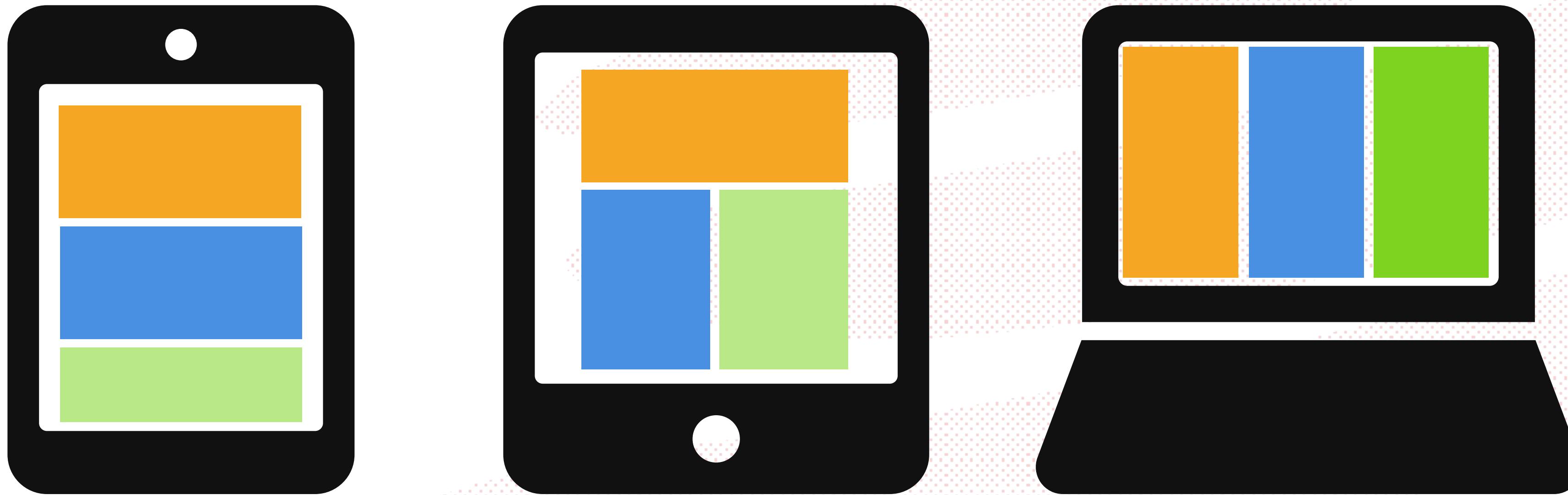
`id="footer"`

Web Development

Responsive Design



What is responsive design?



Let's use Bootstrap grid

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



How do we fill a row?



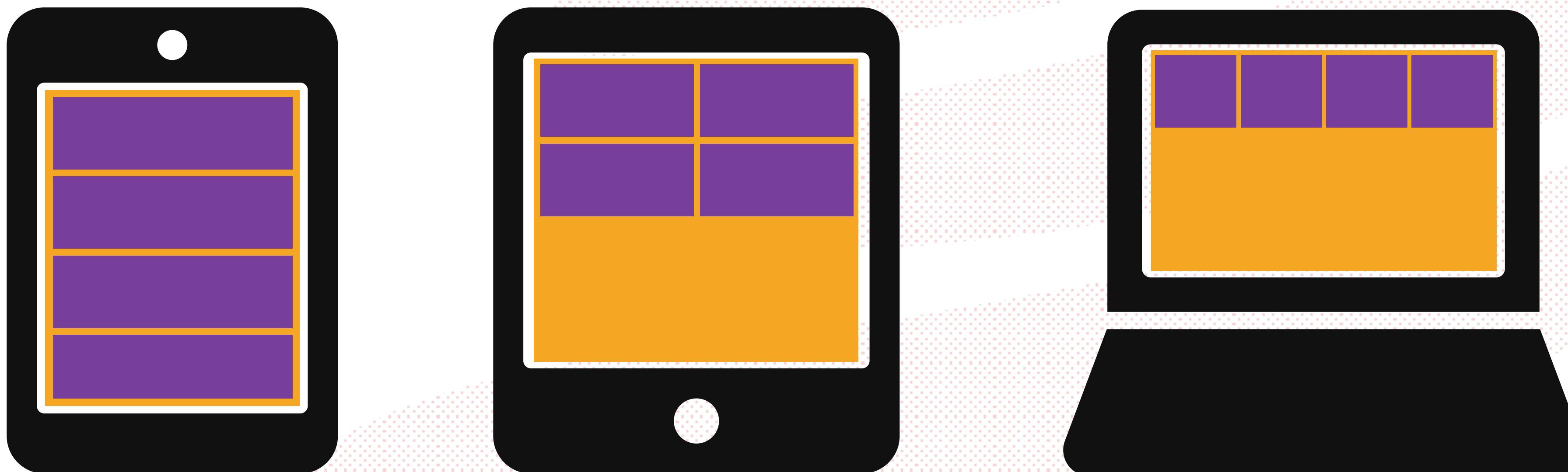


```
<div class="row">  
  <div class="col-6">...</div>  
  <div class="col-2">...</div>  
  <div class="col-4">...</div>  
</div>
```

How do we make a **.col** responsive?



```
<div class="col-12 col-sm-6 col-md-3">...</div>
```



Demo



7- Bootstrap grid

Let's inject our cards in a responsive grid.

Web Development

Pushing to GitHub



 GitHub Desktop | Simple collaborator

https://desktop.github.com

The new native

Extend your GitHub workflow beyond your browser with GitHub Desktop, completely redesigned with Electron. Get a unified cross-platform experience that's completely open source and ready to customize.

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