FRONT-END BASICS

DESCRIPTION & OBJECTIVES

- Simple HTML / CSS: fonts, colors, box model
- Building components: buttons, forms, tabs, etc...
- Building layouts & grids: CSS grids and Bootstrap
 - Code your profile page
 - Put it online with **Github Pages**
 - Add a fixed sidebar for most advanced

FRONT-END LANGUAGES

The languages your browser speaks





It's a **markup** language (== structure)
Your page has different contents

Some content...

Some other content...

Some third content...



HTML tags help you **identify** content

Some content... h1

Some other content... h2

Some third content... p



Browser default styles will apply





And you will also be able to apply **your own style rules** if you want



HTML SKELETON

HTML SKELETON - HEAD & GOOGLE

Max 55 characters for title & 160 characters for description

```
<head>
    <!-- Google result text-->
    <title>Ecole Supérieure du Digital</title>
    <!-- Google result description-->
    <meta name="description" content="Passionné(e) du web de l'internet, du numérique et des nouvelles technologies, vous recherchez une formation digitale à Paris, Lyon, Bordeaux, Nice ou Nancy ...">
    </head>
```

Ecole Supérieure du Digital

https://ecole-du-digital.com/ ▼

Passionné(e) du web de l'internet, du numérique et des nouvelles technologies, vous recherchez une formation digitale à Paris, Lyon, Bordeaux, Nice ou Nancy ...

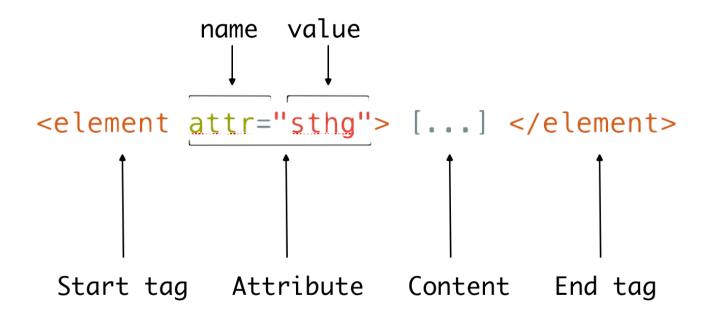
HTML SKELETON - HEAD & FACEBOOK



HTML SKELETON - HEAD

HTML SKELETON - BODY

BASIC SYNTAX



BASIC SYNTAX

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

```
<a href="https://ecole-du-digital.com/" target="_blank">
    Ecole Supérieure du Digital
</a>
```

TITLES

```
<h1>[...]</h1> <!-- Only one per page! SEO important -->

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

PARAGRAPHS

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?

EMPHASIZE

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

LISTS

```
<h2>Shopping List</h2>

    Milk
    Butter
    World Cup 2014</h2>

        Argentina
        Netherlands
        Brazil
        Col>
        Col>
```

IMAGES

TABLES

```
First Name
Last Name
 John
Doe
[...]
```

FORMS

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

More about HTML:

- codeguide.co
- MDN reference

Web without CSS?

Cut the <head> on <u>ecole-du-digital.com</u> with Chrome dev tool

This is how a website looks like without CSS

LINKING STYLESHEET TO HTML PAGE

CSS SYNTAX

```
selection of one or more elements of the page..

1 selector {
2  property: value;
3  property: value;
4  property: value;
5 }
..on which we define style rules
```

CSS VOCABULARY

```
css selector

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

style properties
```

EXAMPLE

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

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

COLORS

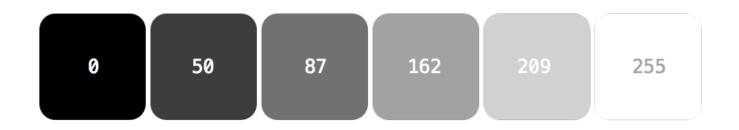
```
color: #FF530D;
color: rgb(255, 83, 13);
color: rgba(255, 83, 13, 1.0);
```

COLORS - TIPS

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

RGB stands for **Red Green Blue**Each value is between 0 and 255 For same values of R, G and B,

you are on the grey scale



TEXT VS BACKGROUND

```
text color

body {
color: orange;
background-color: yellow;
}

background color
```

BACKGROUND IMAGE

FONT FAMILY

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

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

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

FONT SIZE AND SPACING

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

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

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







FONT DECORATION

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

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

sign up
sign up
```

FONT ALIGNMENT

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

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

This is a centered paragraph aligned with text-align

This is a justified paragraph aligned with text-align

FONT WEIGHT

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

Light text

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

GOOGLE FONTS

Make your shopping on **Google fonts**

Open-Sans: <body>

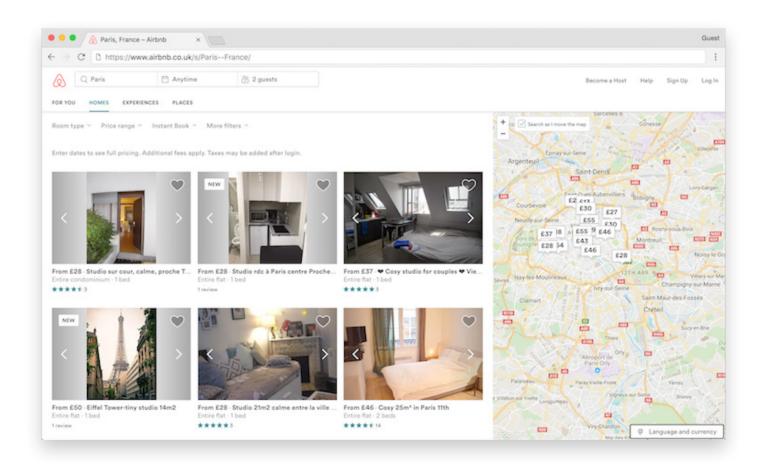
Raleway, Montserrat, Varela: <h1>, <h2>, <h3>

FONT AWESOME

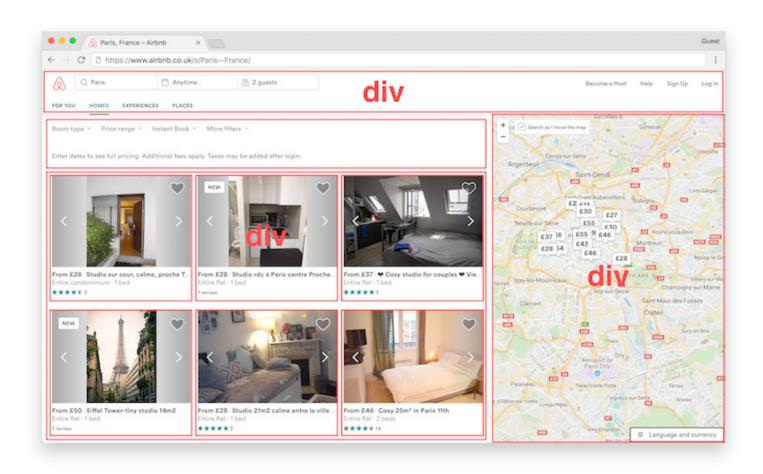
```
<!-- cdn link to paste in your <head> -->
link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.0.10/css/all.css">
```

Font Awesome is a font of icons

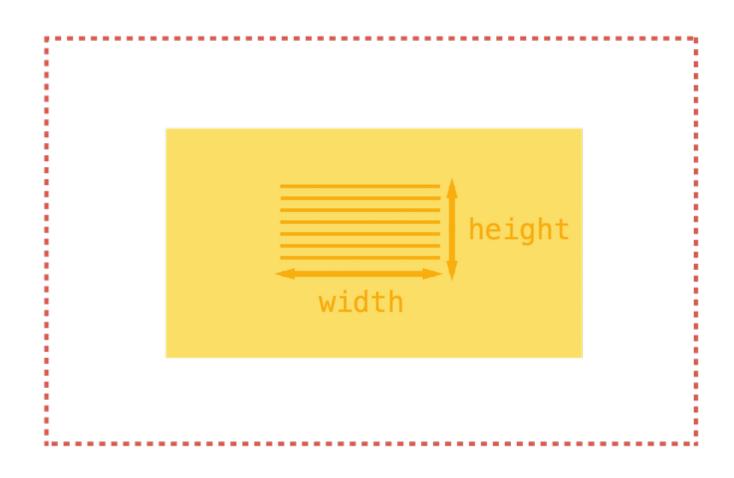
DIV AND BOX MODEL



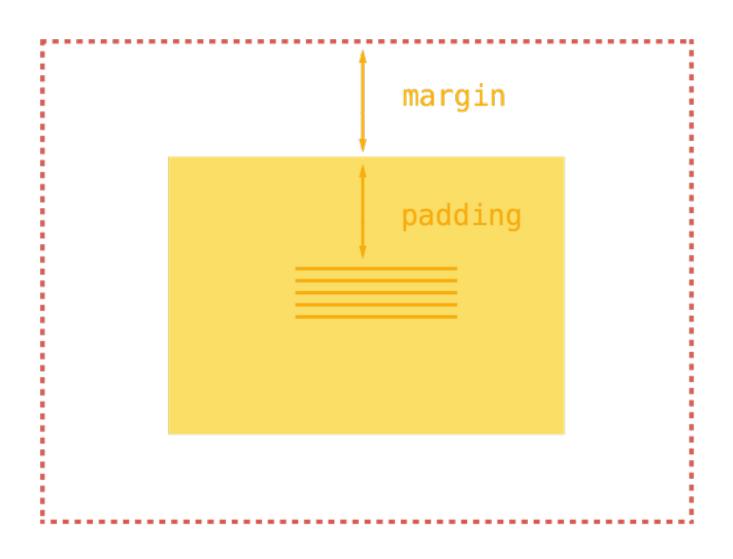
REAL LIFE IS MADE OF DIV



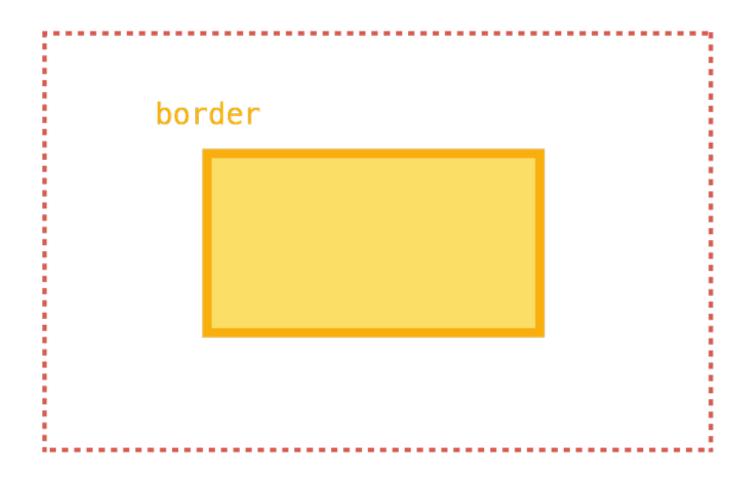
BOX MODEL - CONTENT



BOX MODEL - PADDING & MARGIN



BOX MODEL - BORDER



BORDERS

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

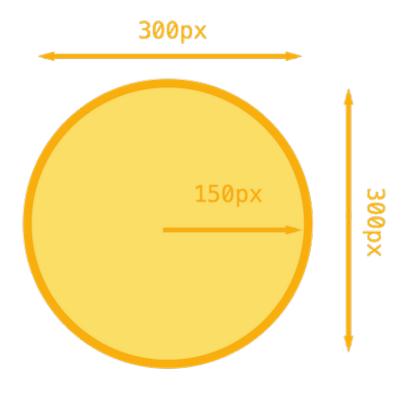
solid dashed dotted

BORDER RADIUS



border-radius: 5px;

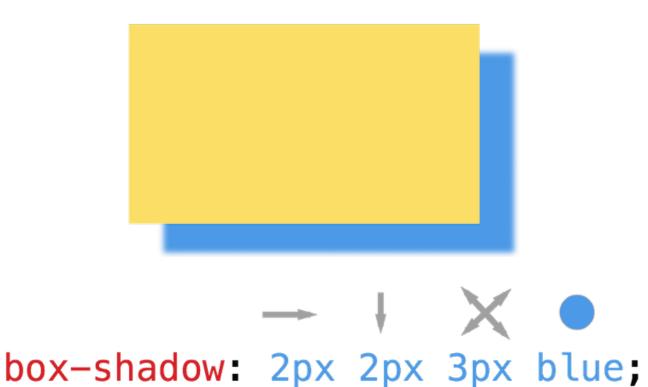
BORDER RADIUS



width: 300px;
height: 300px;

border-radius: 150px;

BOX SHADOW



UNITS

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

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

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

DIV DESIGN TIPS

Result:

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eos voluptatibus, quis iure vel aliquam veritatis architecto fugiat necessitatibus? Quidem error explicabo nemo maiores voluptatem odio delectus ad, esse reprehenderit animi.

DIV CENTERING TECHNIQUE

width: 300px; /* Set the width */

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Eos voluptatibus, quis iure vel aliquam veritatis architecto fugiat necessitatibus? Quidem error explicabo nemo maiores voluptatem odio delectus ad, esse reprehenderit animi.

ID & CLASS

```
1 <img src="logo.png">
2
3 
4 <img src="paul.png">
5 <img src="ringo.png">
6 <iii><img src="george.png">
7 <iii><img src="john.png">
8 
CSS

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

How do you style only the logo?

NAME YOUR TAG WITH ID

```
1 <img src="logo.png" id="logo">
2
3 
4 ><img src="paul.png">
5 <iimg src="ringo.png">
6 <iimg src="george.png">
7 <iimg src="george.png">
8 
CSS
1 #logo {
2 width: 40px;
3 }
```

HOW DO YOU STYLE YOUR STAFF PICTURES?

```
1 <img src="logo.png" id="logo">
2
3 
HTML 4 <img src="paul.png">
5 <img src="ringo.png">
6 <img src="john.png">
7 <img src="george.png">
8
```

NAME YOUR TAGS WITH CLASS

ID OR CLASS?

```
unique

| composite the second content of th
```

COMBINE (1)

```
HTML 1 <img src="paul.png" class="img-circle">
```









COMBINE (2)

HTML 1

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









COMBINE (3)

```
HTML 1 <img src="paul.png" class="img-circle shadowed" id="leader">

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

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

CLASS NAMING - CONVENTION

.component-shape

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

ELEMENT SELECTOR

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

Combined with:

```
/* style.css */
h1 {
   color: red;
}
```

Makes the h1 elements red

CLASS SELECTOR

```
<!-- index.html -->
[...]

<body>
    This paragraph is not justified
    This one is
    This one also
</body>
```

Combined with:

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

Will make only the second and third paragraphs justified

ID SELECTOR

Combined with:

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

Will put an image background on the **unique** div with **id="banner"**

DESCENDANT SELECTOR

Combined with:

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

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

DIRECT CHILDREN

Combined with:

```
/* style.css */
#navigation > li > a {
  color: blue;
}
```

A **direct children** of li direct children of **id="navigation"** will be blue

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 CLASSES

```
/* style.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 class



Combined with:

```
p {
  color: black;
}
.text-red {
  color: red;
}
```

QUIZZ #2

Combined with:

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

SPECIFICITY OF SELECTORS

RESSOURCES

Fonts:

- Get the Font
- Fontface Ninja

Icons:

- Material Design Icons
 - The Noun Project
 - Flaticon
 - Nucleo App

Inspiration:

- <u>Dribbble</u>
- Awwwards
 - FWA

Colors:

- Coolors
- Color Hunt
- Install <u>ColorZilla</u>
 on Chrome

Pictures:

- Picsum
- Placeholder

HTML/CSS snippets:

Codepen