

**Hello everyone !**



# Setup

---



**Google Chrome**



**Mozilla Firefox**

# Setup

---

C  DEPEN

**Codepen.io**



**Visual Studio Code**  
+  
**Live HTML Previewer**

# Front-end languages

---

**HTML**



**CSS**



**JS**



# Structure

---

**HTML**



# Structure

---

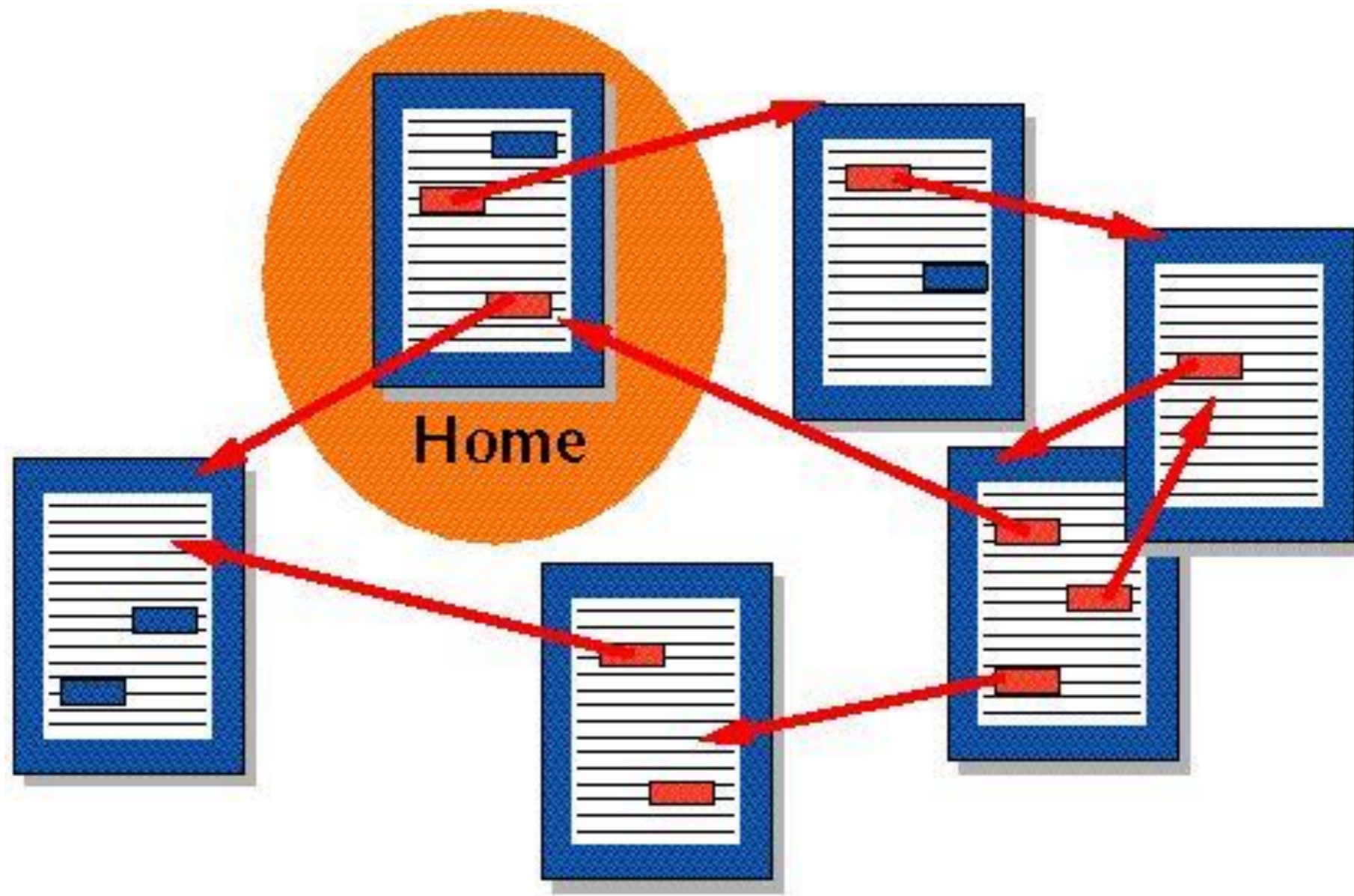
**HTML**



**HyperText Markup Language**

# The web / Hyperlinks

---



# Structure

---

**HTML**



**HyperText Markup Language**



# A Markup Language

---

some text content..

some other content..

some third content..

# A Markup Language

---

some text content..

h1

some other content..

h2

some third content..

p

# Writing HTML

---

`<!DOCTYPE html >`

`<!-- End of the file -->`

# Writing HTML

---

*←!— DOCTYPE html —→*

`<html>`

`</html>`

*←!— End of the file —→*

# Writing HTML

---

```
←!— DOCTYPE html →  
<html>  
  <head>  
    ←!— Intelligence (meta-data, ...) →  
  </head>  
  <body>  
    ←!— Actual displayed stuff →  
  </body>  
</html>  
←!— End of the file →
```

# Writing HTML

---

```
←!— DOCTYPE html →  
<html>  
  <head>  
    <title>Hack Your Future Belgium</title>  
    <meta charset="utf-8">  
  </head>  
  <body>  
    ←!— Actual displayed stuff →  
  </body>  
</html>  
←!— End of the file →
```

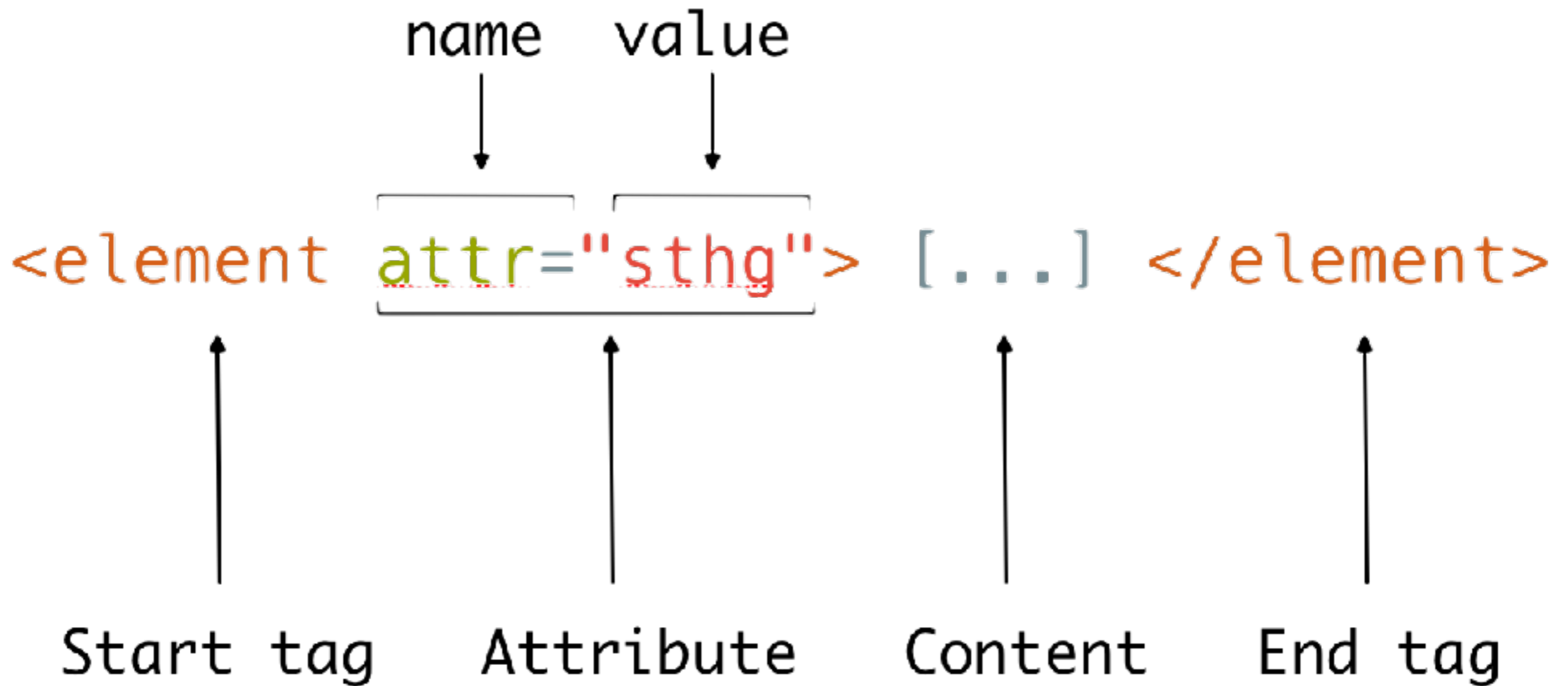
# The point of the head?

---

Let's see what a webpage looks like  
without `<head> [...] </head>`

# Writing HTML

---





# Writing HTML

---

```
<a href="http://www.hackyourfuture.be" target="_blank">  
  Hack Your Future  
</a>
```



**Hack Your Future**

What is the **tag name**?

What is the **content**?

What are the two **attributes**?

# HTML - Title

---

<h1> [...] </h1>

<h2> [...] </h2>

<h3> [...] </h3>

<h4> [...] </h4>

<h5> [...] </h5>

<h6> [...] </h6>

# HTML - Paragraph

---

`<p>`

Lorem ipsum dolor sit amet,  
consectetur adipisicing elit. Veritatis  
laboriosam autem at ab omnis iure  
quis

`</p>`

# HTML - Strong & em

---

<p>

You can emphasise <em>some words</em>, and even

<strong>more if needed</strong>

</p>

# HTML - Lists

---

```
<h2>Shopping list</h2>
```

```
<ul>
```

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

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

```
</ul>
```

```
<h2>World Cup 2018 podium</h2>
```

```
<ol>
```

```
  <li>Belgium</li>
```

```
  <li>Croatia</li>
```

```
  <li>France</li>
```

```
</ol>
```

# HTML - Image

---

```

```

**Let's write some code !**

---

# Blocks & inlines

---

<div>

<p>

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

</p>

<p>

You can also make <a href="# title="it's a link" > links</a> !

</p>

</div>



# Dividing in boxes

The screenshot displays the Airbnb interface for Paris. At the top, the Airbnb logo is on the left, a search bar with 'Paris' is in the center, and user profile 'Boris', a notification bell with '5', and an 'AIDE' link are on the right. A yellow button says 'PUBLIEZ VOTRE ANNONCE'. Below the header is a map of Paris with several red location pins. To the right of the map is a grid of four listing cards:

- Chambre d'étudiant, vue tour eiffel**: 2 reviews, 36€ Par nuit. Description: Logement entier, Tour Eiffel - Champ de Mars,...
- Very COOL flat // Heart of Paris.**: 5 reviews, 160€ Par nuit. Description: Logement entier, Invalides - Ecole Militaire, Paris.
- 2 pièces Opéra Galeries Lafayette**: 10 reviews, 130€ Par nuit. Description: Logement entier, Saint-Lazare, Paris. Includes '2 connexions sociales'.
- Cozy apartment in Paris**: 4 reviews, 71€ Par nuit. Description: Logement entier, Nation, Paris.

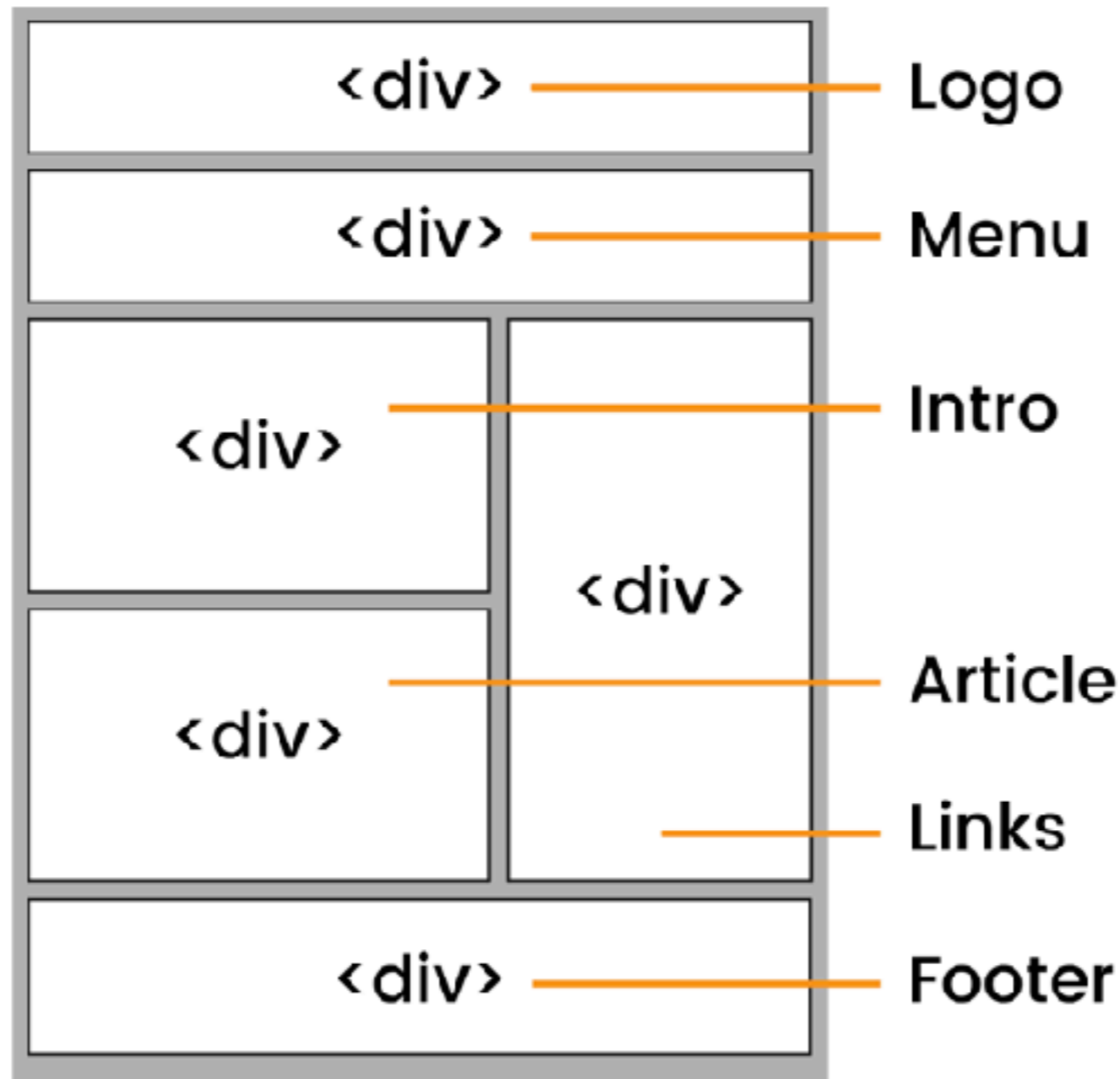
# Dividing in boxes

The image shows a screenshot of the Airbnb website interface, overlaid with a large, semi-transparent 'div' watermark. The interface includes a search bar with 'Paris' entered, a navigation menu with 'div', 'Boris', 'AIDE', and 'PUBLIEZ VOTRE ANNONCE', and a map of Paris with several location pins. Below the map are four listing cards, each featuring a photo, title, location, and price per night.

Listing Title	Location	Price per Night
Chambre d'étudiant, vue tour eiffel	Tour Eiffel - Champ de Mars, Paris	36€
Very COOL flat // Heart of Paris.	Invalides - Ecole Militaire, Paris	160€
2 pièces Opéra Galeries Lafayette	Saint-Lazare, Paris	130€
Cozy apartment in Paris	Nation, Paris	71€

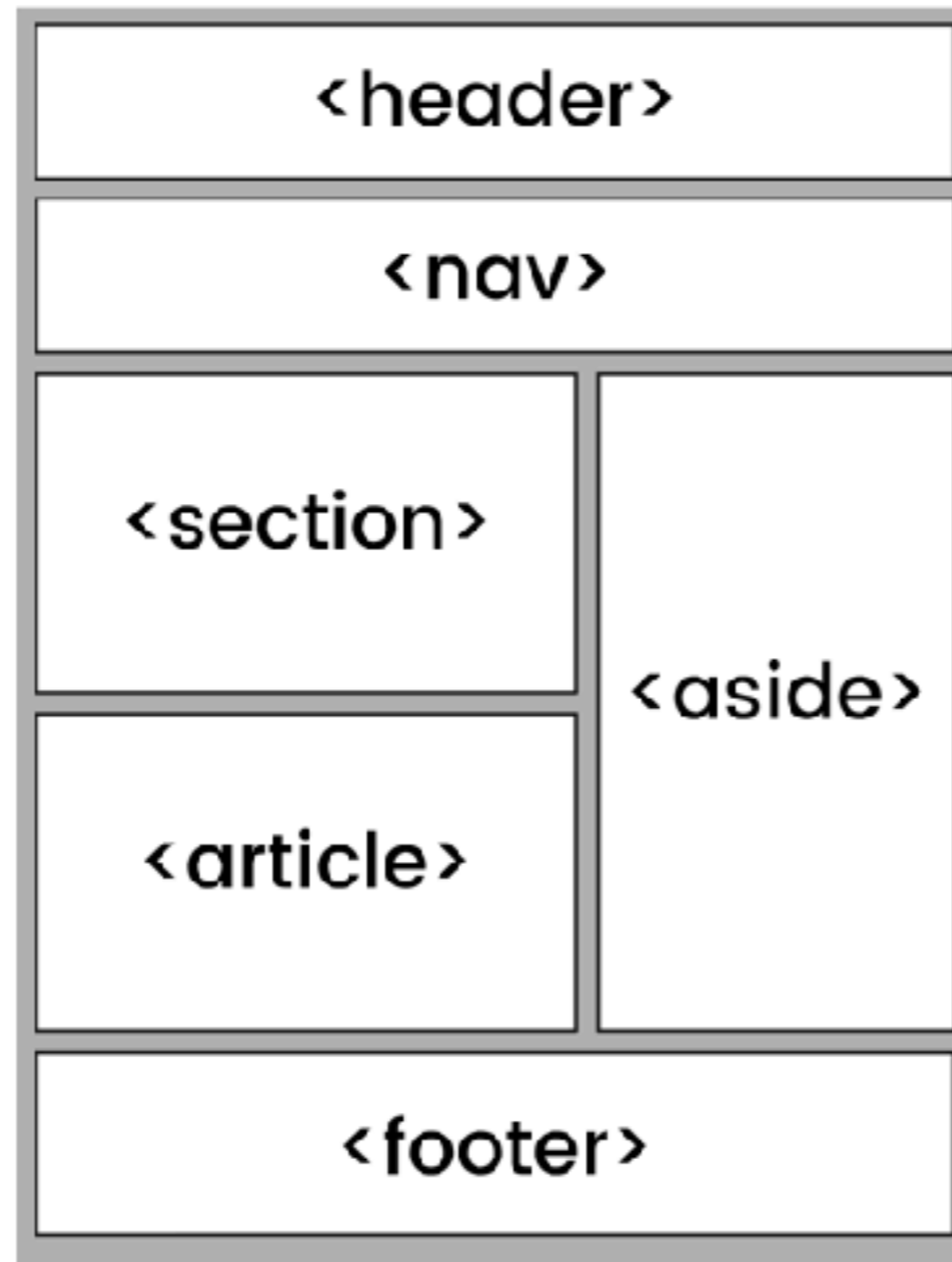
# HTML - Too much divs?

---



# HTML - Be Semantic !

---



# If you can't, Aria is there

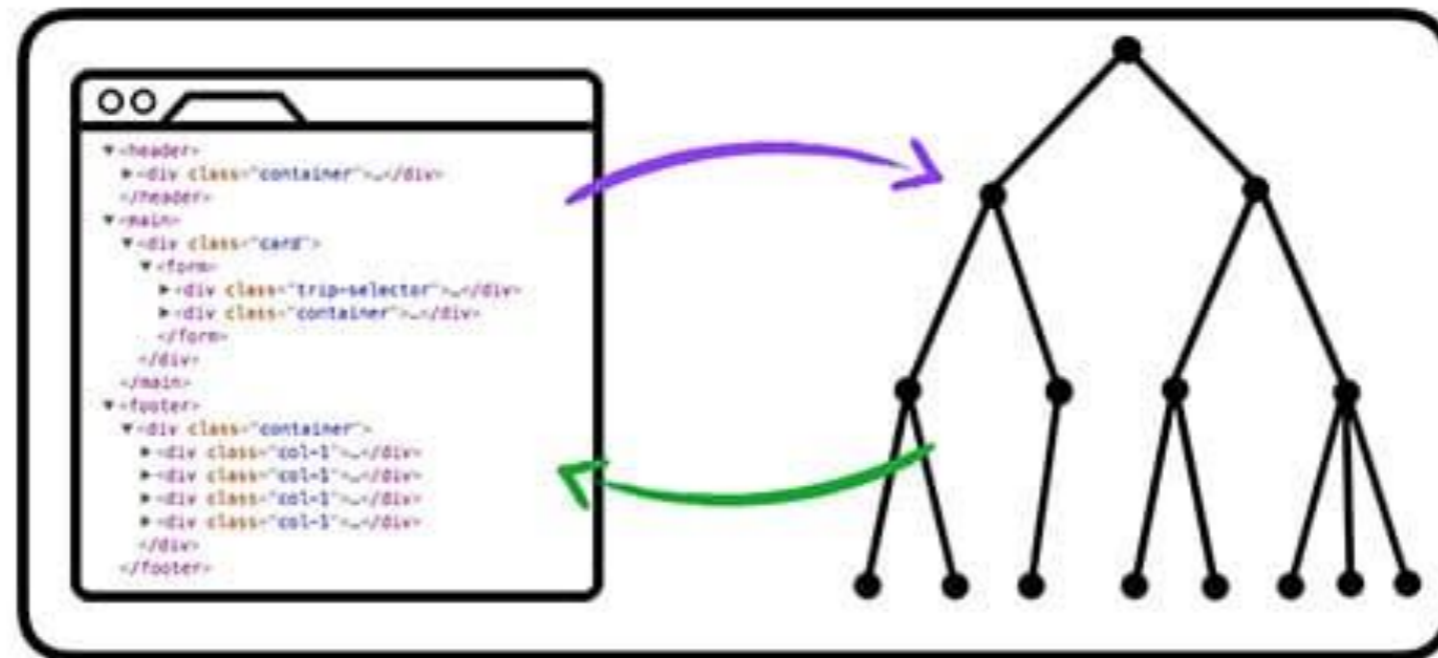
---

```
<button aria-label="screen reader only label"></button>
```

```
<div role="button">  
  <span>Click me!</span>  
</div>
```

```
<div role="progressbar" aria-valuenow="20" aria-  
valuemin="0" aria-valuemax="100">20 %</div>
```

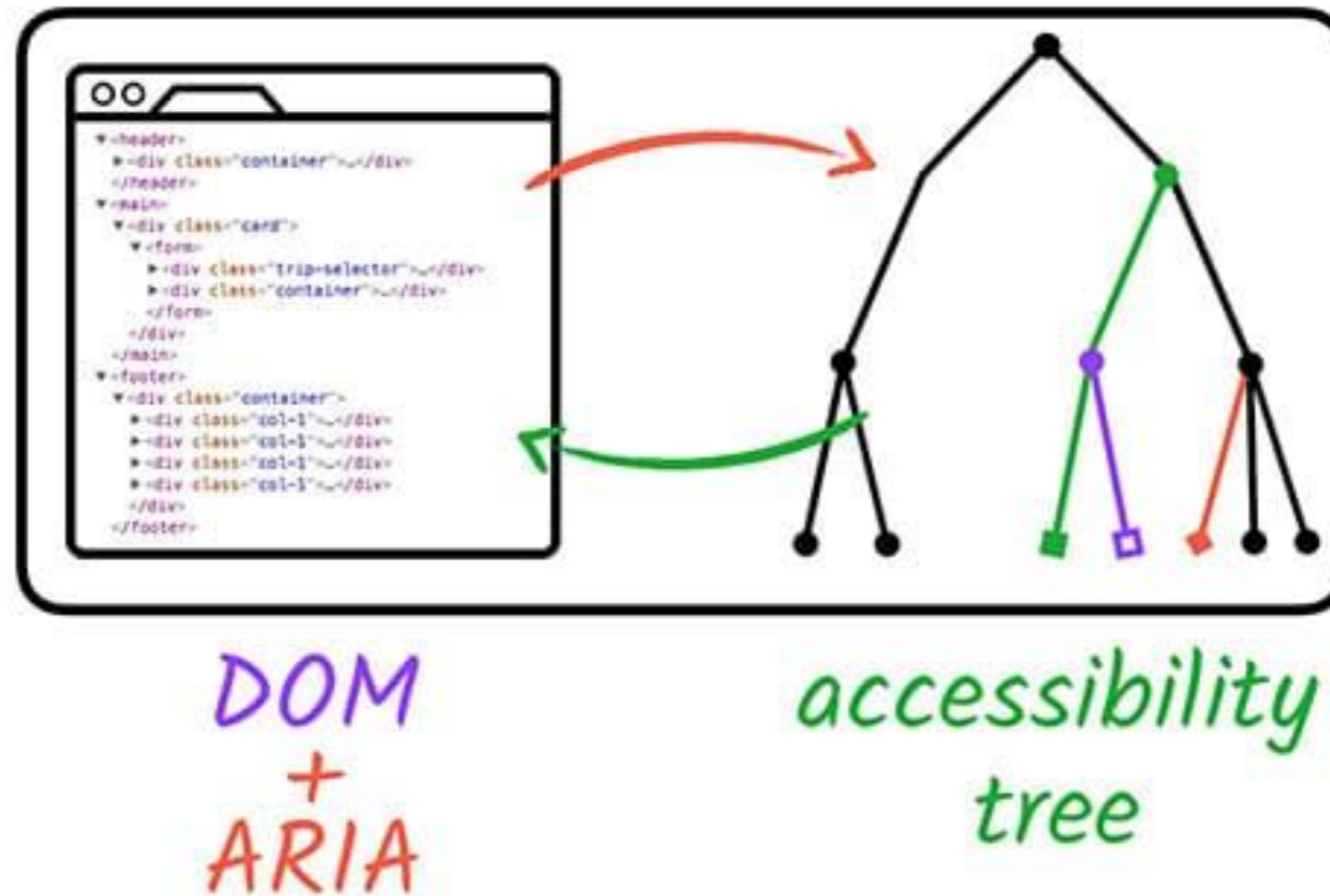
# Accessibility



DOM

accessibility  
tree

# Accessibility



Look at your accessibility panel in the inspector!

# A tasty recipe

---

- Proper HTML document
- A main header (My recipe book) (h1)
- A sub-header with the name of the recipe (h2)
- A paragraph with a tiny description (p)
- A list of 5 ingredients minimum (ul, li)
- An image of the evening's dinner (img)  
(locally if possible)
- A link to the delicious recipe ! 🍷 (a)
- PERFECT INDENTATION
- Be semantic when you can



# CSS

---

CSS



Cascading **S**tyle **S**heet

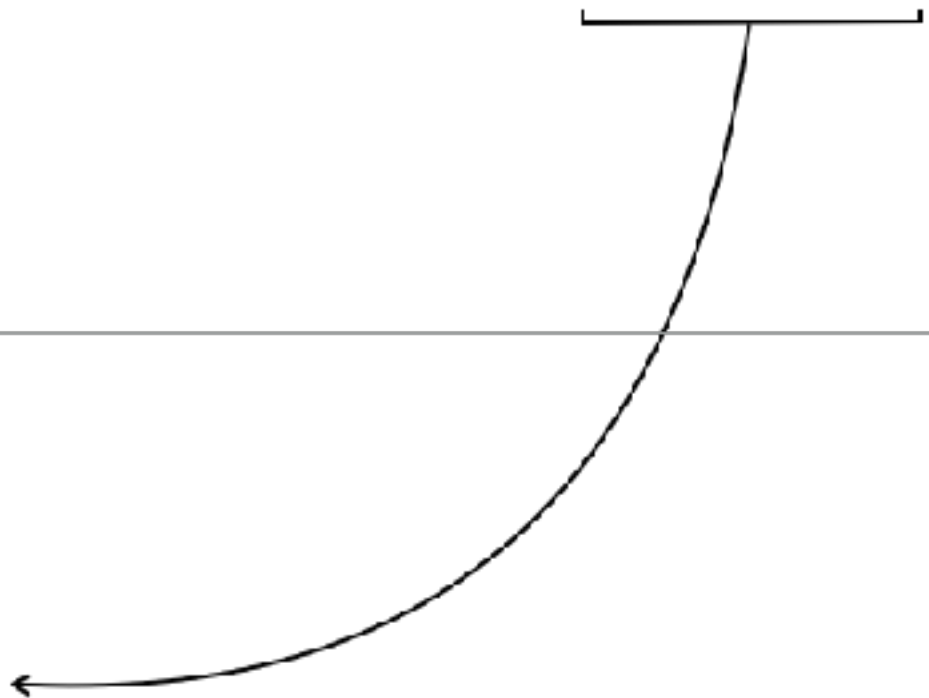
# Where to link CSS ?

---

📄 index.html

---

```
1 <head>
2   <link rel="stylesheet" href="style.css">
3 </head>
4 <body>
5   <h1>Hello</h1>
6 </body>
```



📄 style.css

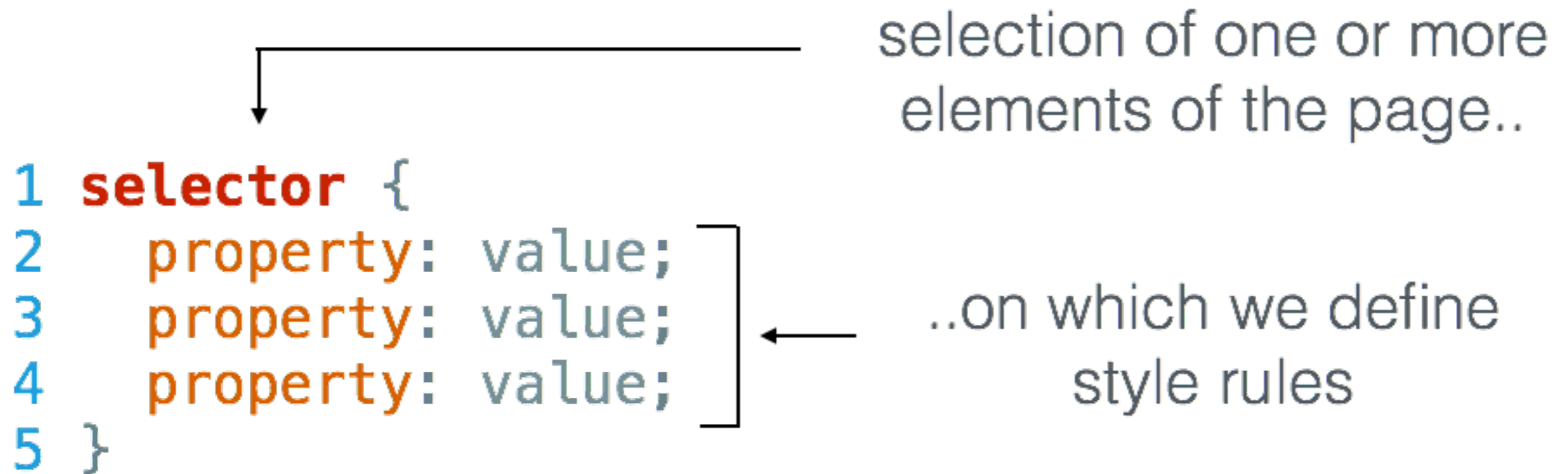
---

```
1 h1 {
2   color: red;
3 }
```

---

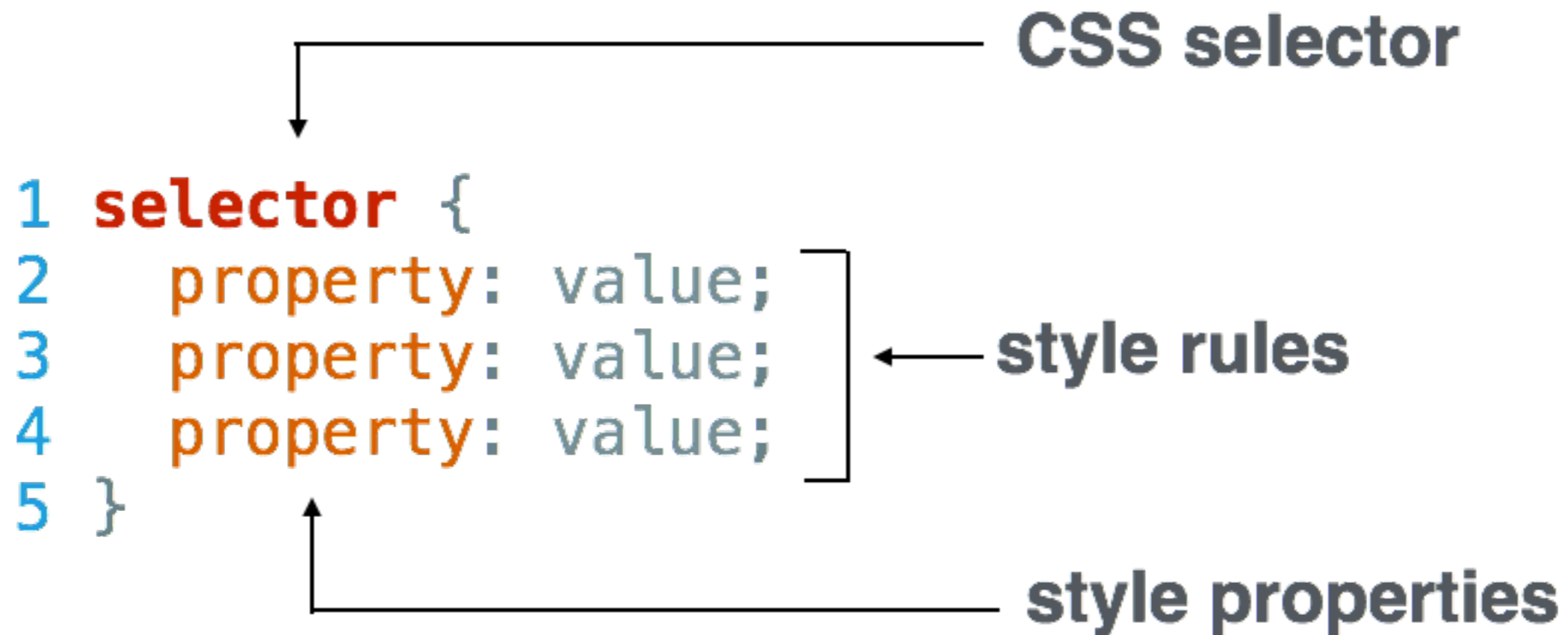
# Write CSS

---



# Write CSS

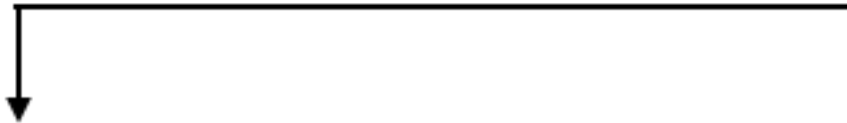
---



# Write CSS

---

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



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

# Colors

---

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

# RGB Tips

---



# Text or background ?

---

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

text color

background color

The diagram shows a CSS code block with four lines. The first line is '1 body {', the second is '2 color: orange;', the third is '3 background-color: yellow;', and the fourth is '4 }'. The word 'body' is highlighted in green. The word 'color' is highlighted in orange, and 'orange' is highlighted in green. The word 'background-color' is highlighted in orange, and 'yellow' is highlighted in green. An arrow points from the text 'text color' to the 'color' property. Another arrow points from the text 'background color' to the 'background-color' property.



# Text or background ?

---

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

background-image



# Font-Family

---



**serif**

**font-family**

font-size

line-height

font-weight

letter-spacing

color

text-decoration

text-align

font-style

text-transform

# Font-Family

---



**sans-serif**

**font-family**

font-size

line-height

font-weight

letter-spacing

color

text-decoration

text-align

font-style

text-transform

# Font-Family

---



a b

**monospace**

## **font-family**

font-size

line-height

font-weight

letter-spacing

color

text-decoration

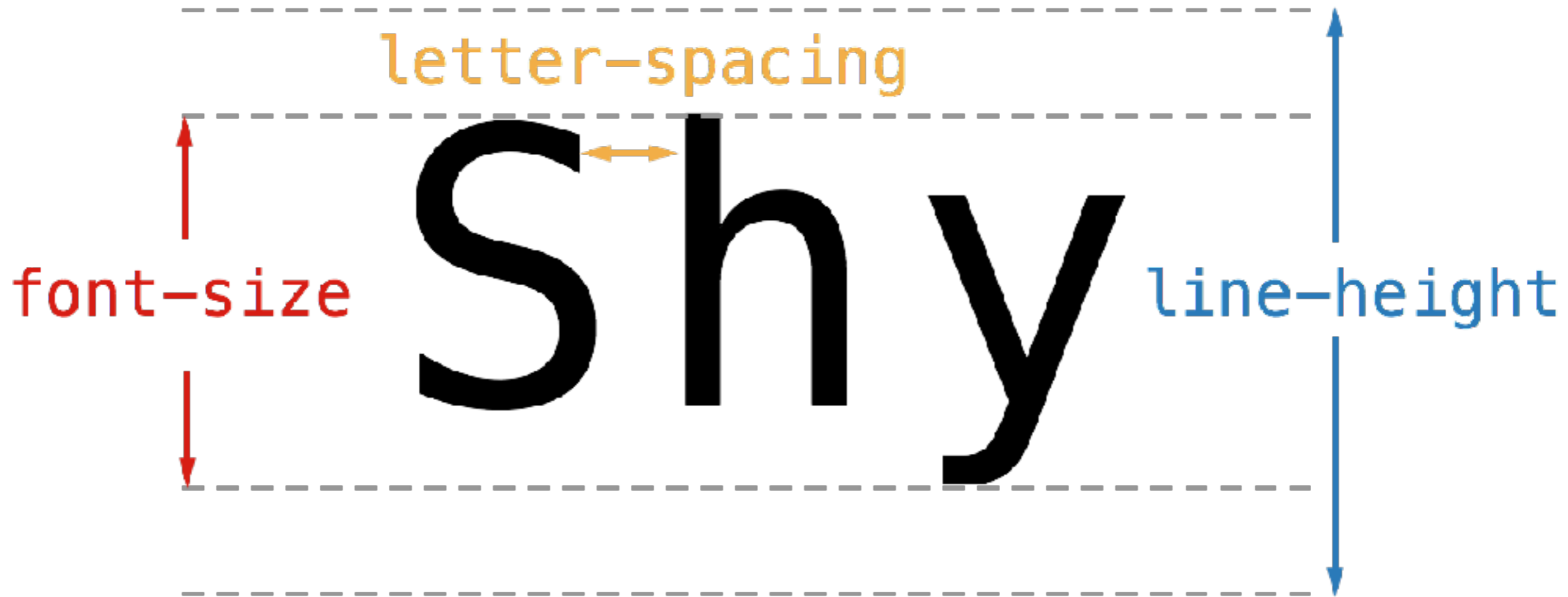
text-align

font-style

text-transform

# Font-size & spacing

---



# Font color

---

ab

**color:** green;

font-family

font-size

line-height

font-weight

letter-spacing

**color**

text-decoration

text-align

font-style

text-transform

# 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

# 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



# Font weight

---

Helvetica Neue 25 Ultra Light

Helvetica Neue 35 Thin

Helvetica Neue 45 Light

Helvetica Neue 55 Roman

Helvetica Neue 65 Medium

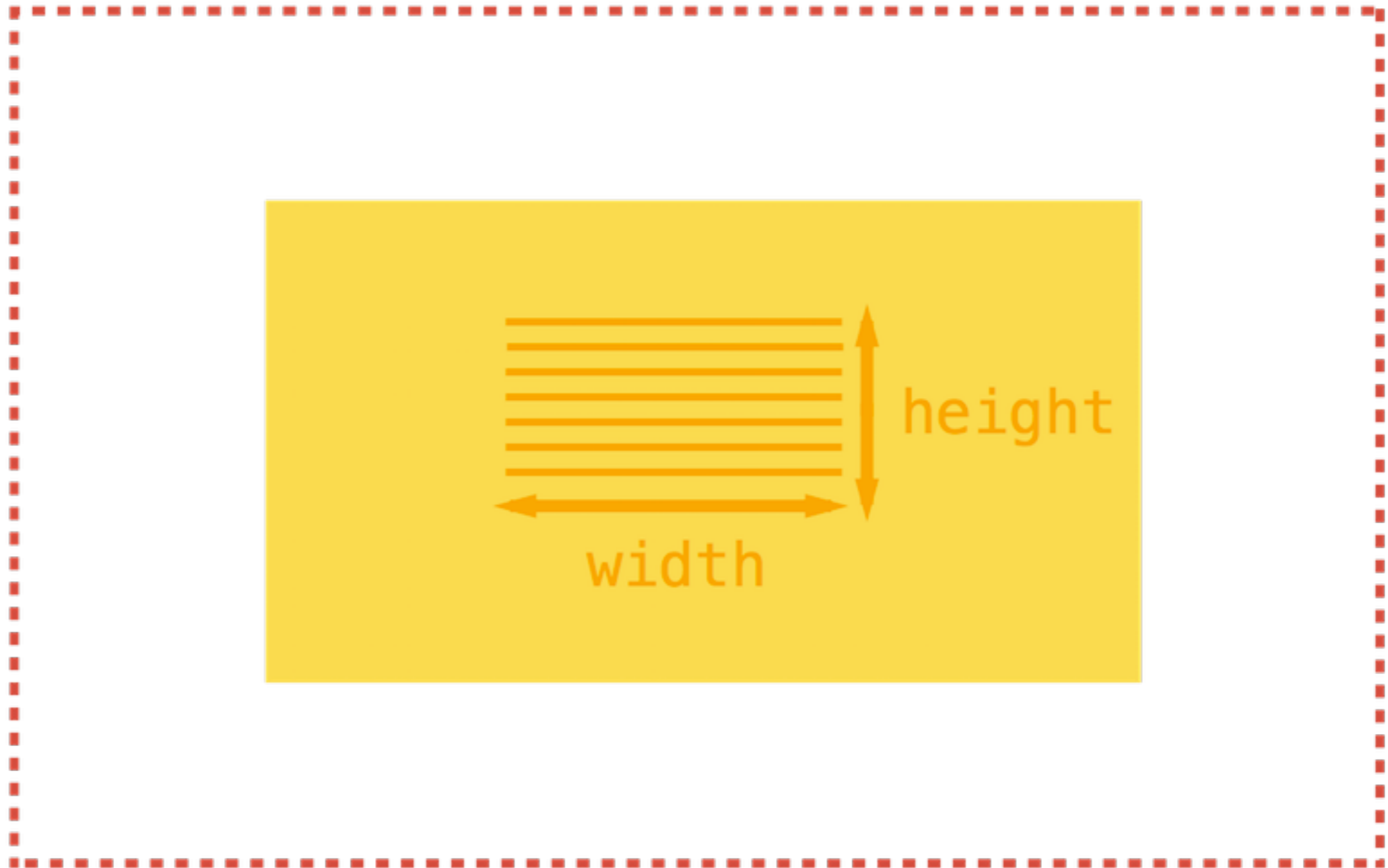
Helvetica Neue 75 Bold

Helvetica Neue 85 Heavy

Helvetica Neue 95 Black

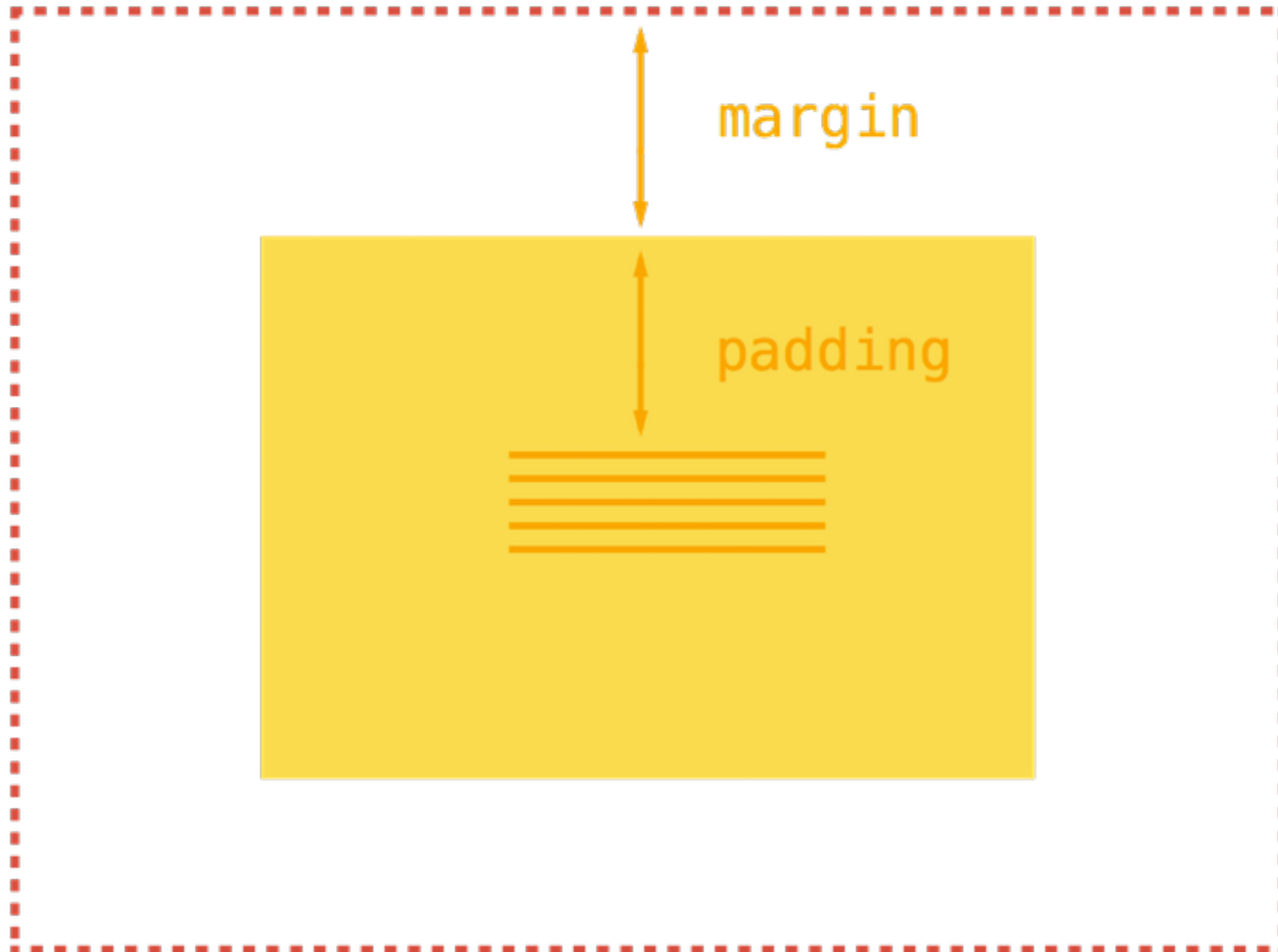
# Box - content

---



# Box - spacing

---



# Box - border

---

border



# Box – border

---

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



# Box - radius

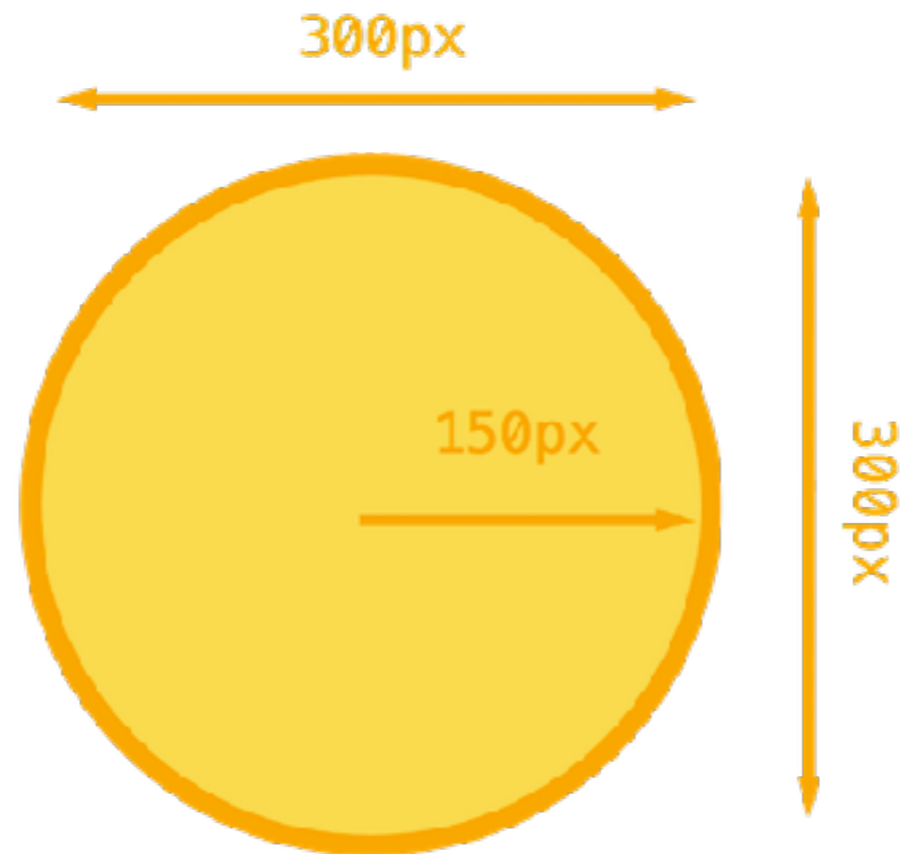
---



```
border-radius: 5px;
```

# Box - radius

---



```
width: 300px;  
height: 300px;  
border-radius: 150px;
```

# Box - shadow

---



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



# ID & Classes

---

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 }
```



How do you resize the logo only ?

# ID & Classes

---

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 }
```



# ID & Classes

---

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

How do you style staff pictures **only** ?

# ID & Classes

---

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

```
CSS 1 .staff {
      2   border-radius: 50%;
      3 }
```



# ID or classes ?

---

unique



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

HTML

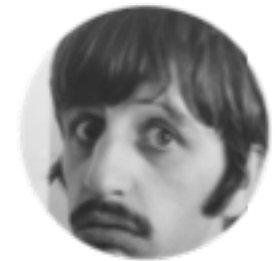
↑  
recurrent

# Combine !

---

HTML 1 ``

CSS 1 `.staff {`  
2 `border-radius: 50%;`  
3 `}`



# Combine !

---

HTML 1 ``

CSS

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



# Combine !

---

HTML 1 ``

```
1 .staff {  
2   border-radius: 10px;  
3 }
```

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

```
8  
9 #lead {  
10  border: 5px solid red;  
11 }
```





# Combine !

---

Can you select elements nested in ID  
divs ?

# Naming

---

<div class="beatles-band"></div>

or

<div class="picture-rounded  
border-red"></div>