Turn into Coders

Workshop
Landing Page in HTML & CSS
for everyone

Coding Language(s)
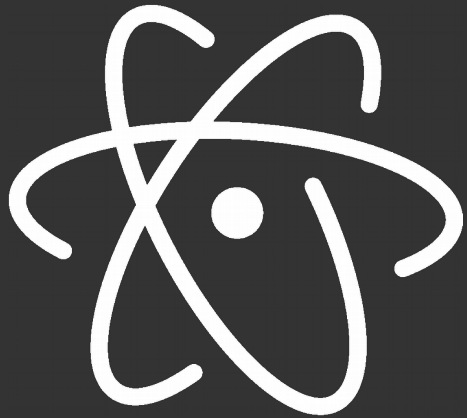
HTML   CSS   JS

Tools

ATOM.IO

Google Chrome

Structure

HTML

Content and its structure

Design

CSS

Design and **style** of your content

Animation and logic

JS

Animate your content and Implement (complex) logic

Skeleton

```html
<!DOCTYPE html>
<html>
    <!-- html code -->
</html>

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

Head and Body

```html
<!DOCTYPE html>
<html>
  <head>
    <!-- information and metadata -->
  </head>
  <body>
    <!-- content to display -->
  </body>
</html>

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

Head fundamentals

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Turn into Coders</title>
    <meta charset="utf-8">
  </head>
  <body>
    <!-- content to display -->
  </body>
</html>

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

Head Google example

```
<!DOCTYPE html>
<html>
    <head>
        <title>Turn into Coders</title>
        <meta charset="utf-8">
        <meta name="description" content="Become a web dev...">
    </head>

    ...
```
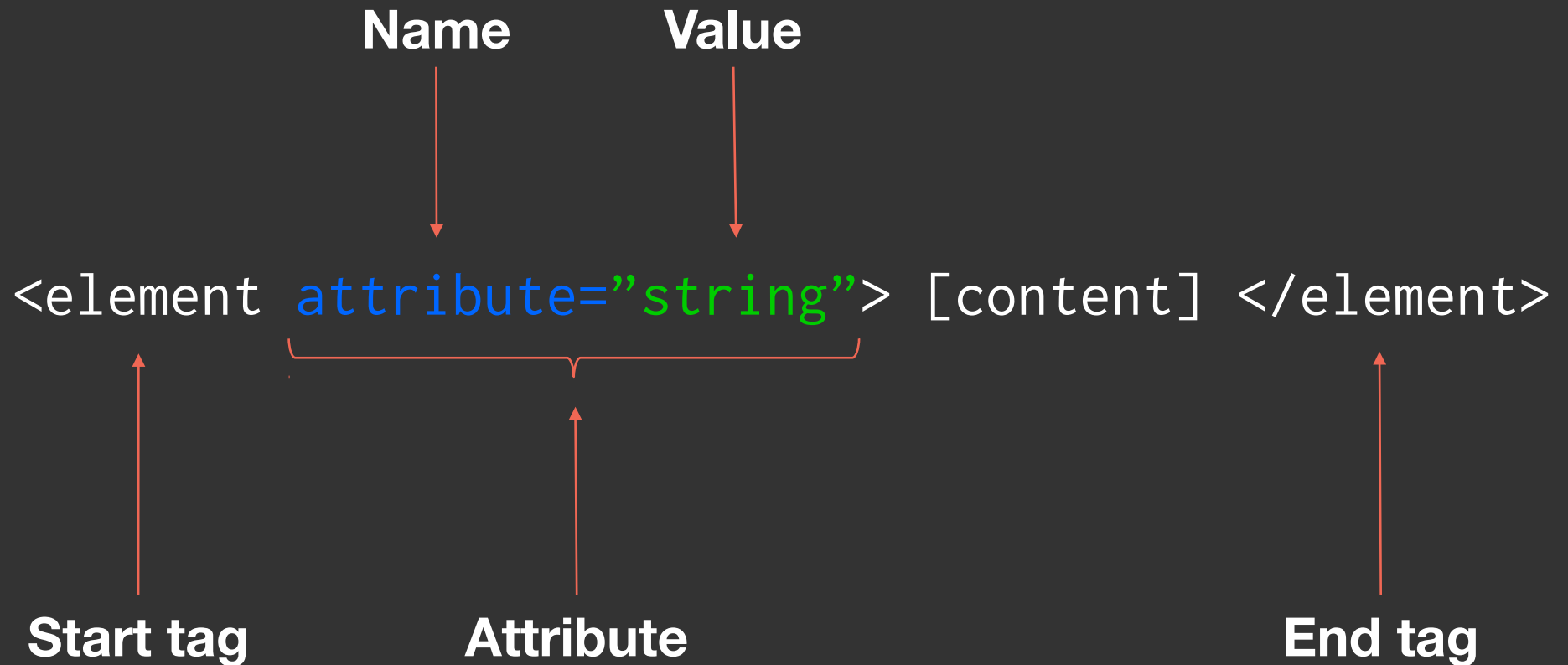
Turn into Coders
www.turnintocoders.it/en/ ▼
Become a web developer with **Turn into Coders**, an intensive training program that makes you a JavaScript ninja and helps you find your first job in the web ...

HTML syntax fundamental

Name   Value

`<element attribute="string"> [content] </element>`

Start tag   Attribute   End tag

HTML examples

```html
<body>
    <div>
        <h1>Turn into Coders</h1>
    </div>
    <div>
        <img src="./logo.png" alt="Turn into Coders logo">
    </div>
</body>
```

CSS syntax fundamental

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

One or more elements can be selected to apply style rules

Application of CSS rules

There are three ways to apply style rules to HTML content:

- In-line
- <style> section (internal stylesheet)
- Separate .css file (external stylesheet)

Application of CSS rules

In-line:

style **is an** attribute **of HTML elements**

```
<h1 style="font-family: HelveticaNeue;

        font-size: 48px">Turn into Coders</h1>
```

Application of CSS rules

Internal stylesheet:
`<style>` can be a section of the HTML file

```html
<!DOCTYPE html>
<html>
    <head>
        <style>
            body {
                background-color: #333333;
            }
            h1 {
                color: white;
                font-family: HelveticaNeue;
            }
        </style>
    </head>
```

Application of CSS rules

**External stylesheet:
A .css file can be linked to the HTML file**

index.html

```
<head>
    <link rel="stylesheet" href="./style.css">
</head>
<body>
    <h1>Turn into Coders</h1>
</body>
```

style.css

```
h1 {
    color: rgb(255, 255, 255);
    font-family: HelveticaNeue;
}
```
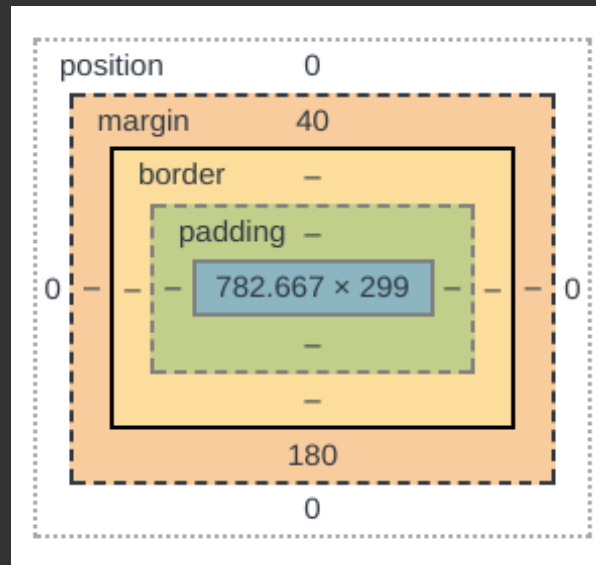
Colors

```css
h2 {
    color: red;
    color: #FF0000;
    color: #F00;
    color: rgb(255, 0, 0);
    color: rgba(255, 0, 0, 1.0);
}
```

background-color **property applies to the background of the element**

Font properties

```
font-size
font-weight
font-family
font-style
color
text-align
text-decoration
text-transform
line-height
letter-spacing
```

Div and Box model

Everything on a web page is a **box**

(or it is inside a box)

```
* {
    border: 1px solid red !important;
}
```

Positioning

Relative position:

- Offset from **initial** position
- Use it **to pin an element**

Positioning

Absolute position:

- Offset from **1ˢᵗ positioned** parent
- If there is no pinned parent **offset from body**

id(s) and class(es)

```html
<body>
    <div>
        <img src="./logo.png" alt="Turn into Coders logo">
    </div>
    <div>
        <ul>
            <li><img src="./turin.png" alt="Turin"></li>
            <li><img src="./milan.png" alt="Milan"></li>
            <li><img src="./florence.png" alt="Florence"></li>
            <li><img src="./rome.png" alt="Rome"></li>
        </ul>
    </div>
</body>
```

How to resize the logo only ?

id(s) and class(es)

How to resize the logo **only** ?

style.css

```css
img {
    width: 100px;
    height: 100px;
}
```

id(s) and class(es)

How to resize the logo **only** ?

id(s) and class(es)

How to resize the logo only ?

```
<body>
    <div>
        <img id="logo" src="./logo.png" alt="Turn into Coders logo">
    </div>
    <div>
        <ul>
            <li><img src="./turin.png" alt="Turin"></li>
            <li><img src="./milan.png" alt="Milan"></li>
            <li><img src="./florence.png" alt="Florence"></li>
            <li><img src="./rome.png" alt="Rome"></li>
        </ul>
    </div>
</body>
```

id(s) and class(es)

How to resize the logo only ?

style.css

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

id(s) and class(es)

How to resize the logo only ?

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

id(s) and class(es)

```html
<body>
    <div>
        <img src="./logo.png" alt="Turn into Coders logo">
    </div>
    <div>
        <ul>
            <li><img src="./turin.png" alt="Turin"></li>
            <li><img src="./milan.png" alt="Milan"></li>
            <li><img src="./florence.png" alt="Florence"></li>
            <li><img src="./rome.png" alt="Rome"></li>
        </ul>
    </div>
</body>
```
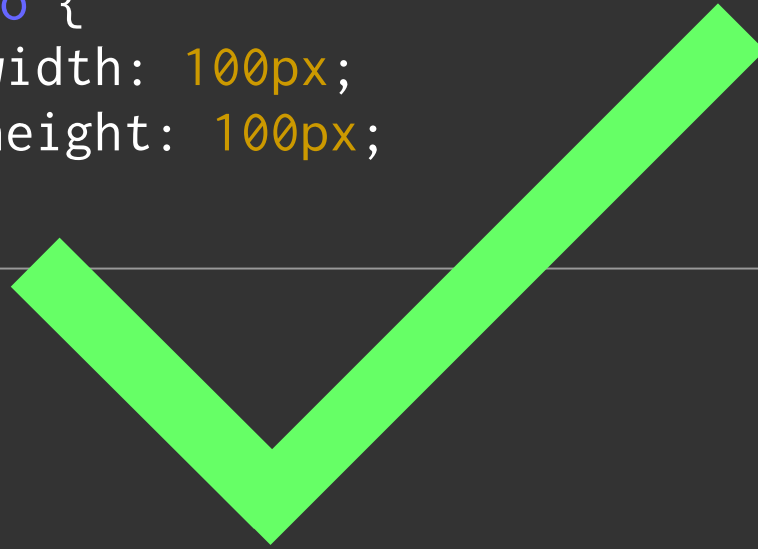
How to resize **all** and only the **cities** ?

id(s) and class(es)

How to resize all and only the cities ?

```html
<body>
    <div>
        <img id="logo" src="./logo.png" alt="Turn into Coders logo">
    </div>
    <div>
        <ul>
            <li><img class="city" src="./turin.png" alt="Turin"></li>
            <li><img class="city" src="./milan.png" alt="Milan"></li>
            <li><img class="city" src="./florence.png" alt="Florence"></li>
            <li><img class="city" src="./rome.png" alt="Rome"></li>
        </ul>
    </div>
</body>
```

id(s) and class(es)

How to resize all and only cities ?

style.css

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

.city {
    width: 200px;
    height: 200px;
}
```

id(s) and class(es)

How to resize **all** and only **cities** ?

style.css

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


.city {
    width: 200px;
    height: 200px;
}
```

id(s) or class(es) ?

unique element

```
<body>
    <div>
        <img id="logo" src="./logo.png" alt="Turn into Coders logo">
    </div>
    <div>
        <ul>
            <li><img class="city" src="./turin.png" alt="Turin"></li>
            <li><img class="city" src="./milan.png" alt="Milan"></li>
            <li><img class="city" src="./florence.png" alt="Florence"></li>
            <li><img class="city" src="./rome.png" alt="Rome"></li>
        </ul>
    </div>
</body>
```

Recurrent elements

Combine id(s) and class(es)

```
.  .  .
<li><img class="city shadow" id="hq" src="./turin.png" alt="Turin"></li>
<li><img class="city shadow" src="./milan.png" alt="Milan"></li>
<li><img class="city shadow" src="./florence.png" alt="Florence"></li>
<li><img class="city shadow" src="./rome.png" alt="Rome"></li>

.  .  .
```

style.css

```css
#hq {
    border: 2px solid red;
}
.city {
    width: 200px;
    height: 200px;
}
.shadow {
    Box-shadow: 3px 3px 1px black;
}
```

Media queries

Use the `@media` rule to include a **block** of CSS properties **only if a certain condition is true.**

```css
@media (max-width: 760px) { /*mobile*/

    /*set of CSS rules for screens smaller than 760 pixel (width)*/

}

@media (min-width: 761px) { /*desktop*/

    /*set of rules for screens wider than 761 pixels*/

}
```