Introduction to

Max Design - Hands-on CSS

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What will we cover in this lesson?

Lesson 3: Scripts & styles

LANG attribute

<meta> element

<script> element

Adding styles

STYLE attribute

<style> element

k> element

HTML comments

Open the exercise folder

Open the folder called "start" and then open the file called "lesson03.htm" using some sort of HTML editor.

Step 1: LANG attribute

The LANG attribute can be applied to the <HTML> element to define the primary language for the entire document.



You can also specify a language for sections of your document using the LANG attribute.

It could be for a block of content... ("fr" defines the block as French content)

```
<div lang="fr">
    ça m'est égal...
<div>
```

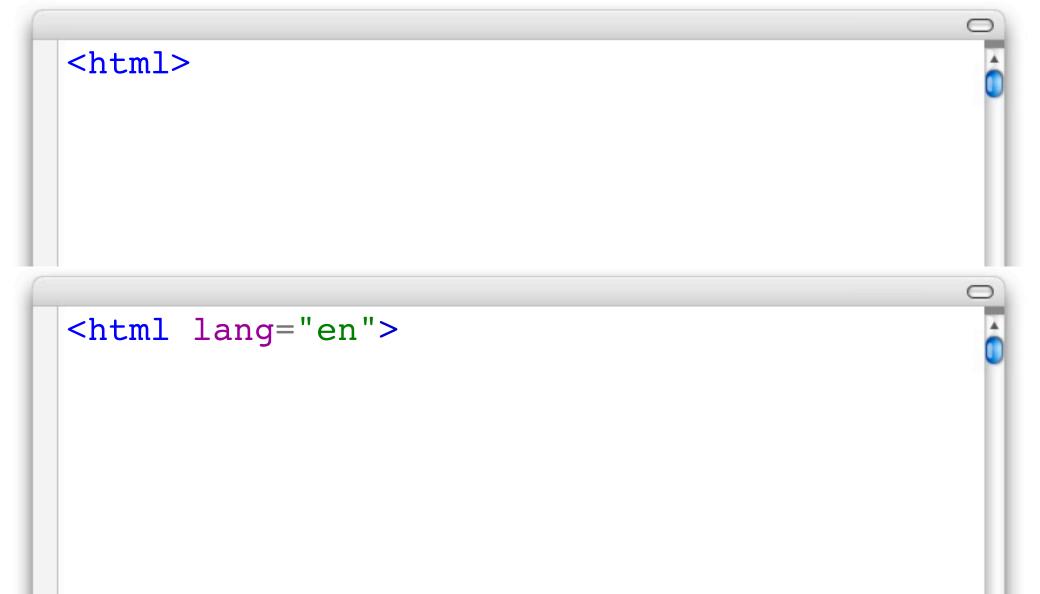
Or an inline span of content for a short phrase ("pt" defines the content as Portuguese).

All language subtags are all defined in the Language Subtag Directory:

http://www.iana.org/assignments/ language-subtag-registry/languagesubtag-registry

Exercise

Let's add a LANG attribute for our entire document.



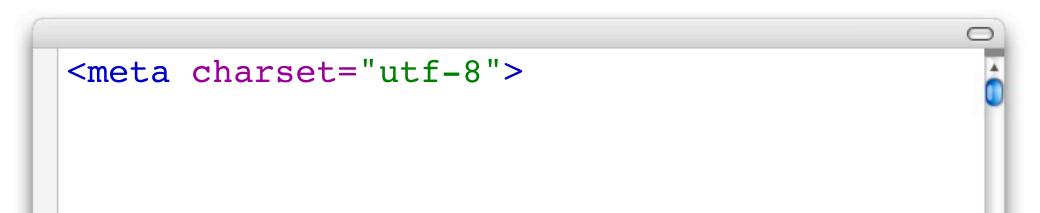
Step 2: <meta> element

The <meta> element provides metadata (or "information") about the HTML document.

This metadata will not be displayed in the browser, but will be used by things like search engines.

The <meta> elements can be used to specify a range of information about the document including description, keywords, author, modified date and character encoding.

All HTML documents must include character encoding. This information is defined with a CHARSET attribute.



The character encoding declaration must be within the first 512 characters of your document. It should appear before the <title> element.

All HTML documents should include a description. This describes the information inside the document to search engines.

<meta name="Description" content="Short
description goes here">



Exercise

Let's add some metadata...

```
<title>Lesson 3</title>
<meta charset="utf-8">
<title>Lesson 3</title>
<meta name="Description" content="Short</pre>
```

description goes here">

Step 3: <script> element

The <script> element is used to define a client-side script, such as a JavaScript.



The <script> element can contain scripting statements.

```
<script>
  document.write("Hello World!")
</script>
```

Or the <script> element can be used to point to an external script file.

The <script> element can be placed inside the <head> element or inside the <body> element.

To make the page load faster scripts can be moved to the bottom of the page - just above the </body> tag.

```
<script src="lesson03.js"></script>
</body>
```

There are a range of attributes you can use within the <script> element.

The SRC attribute specifies the location of the script file.



The **TYPE attribute** specifies the MIME type of the script file. This used to be required in HTML 4.01 but is not in HTML5.

```
<script src="lesson03.js" type="text/
javascript"></script>
```

Exercise

Let's add an external script...

```
</pd>

<p
```

</body>

</html>

Note: Adding styles

If you look at our exercises in a browser, you will see that the overall page and all of the elements appear to be "unstyled".

So, how do we change the appearance of the overall page and individual HTML elements? We can use CSS (Cascading Style Sheets).

CSS is a language that defines the presentation of web pages and individual elements.

There are three methods that we can use to apply CSS to our web documents.

1. Inline styles

Apply our CSS directly to an individual HTML element via the STYLE attribute.

```
   This is a paragraph of text.
```

2. Header styles

Apply our CSS in the head of the document via the <style> element. This allows us to style the entire document.

```
<style>
   div { color: red; }
</style>
```

3. External style sheets

Apply our CSS in the head of the document via the link> element. This allows us to style numerous documents.

```
k rel="stylesheet" href="lesson03.css">
```

Inline and header styles are inefficient. If you want to make a change, you have to make it to every web document or even multiple instances within a single document.

External style sheets allow us to make a change once and every web document that links to this file will automatically be updated.

For this reason, we should avoid inline and header styles, and use links to CSS files instead. However, we will cover all three of these techniques here.

Step 4: STYLE attribute

The STYLE attribute is used to apply CSS styles to a specific HTML element.

```
   A paragraph with a style.
```

One or more CSS rules can be added into the STYLE attribute.

```
   This is a paragraph of text.
```

Exercise

Let's add an inline style...

```
A paragraph with a style.
```

A paragraph with a style.

Step 5: <style> element

The <style> element is used to define style information for a single HTML document.



Cascading Style Sheet or CSS rules are be written inside the <style> element.

```
<style>
  h2 { color: blue; }
</style>
```

The <style> element is placed inside the <head> element.

There are a range of attributes you can use within the <style> element.

The **TYPE attribute** specifies the MIME type of the CSS rules.

```
<style type="text/css">
  h2 { color: blue; }
</style>
```

The MEDIA attribute specifies in which devices the CSS rules will be displayed.

```
<style type="text/css" media="screen">
   h2 { color: blue; }
</style>
```

The preferred method is to link to an external style sheet, which means you can apply these styles to any number of pages.

Exercise

Let's add a style element and a <div>...

```
</head>
<style>
  div { color: red; }
</style>
</head>
```

Step 6: <pr

The link> element allows us to link to external resources.



The <link> element is most commonly used to link to stylesheets. These stylesheets contain Cascading Style Sheet rules (or CSS rules).

There are a range of attributes you can use when linking to stylesheets.

```
<link rel="stylesheet" href="sample.css"
type="text/css" media="screen">
```



The REL attribute (required), specifies the relationship between the current document and the linked resource.

```
rel="stylesheet">
```

In this case, the relationship of the resource is defined as a "stylesheet".

The HREF attribute specifies the location of the linked resource.

```
k rel="stylesheet" href="sample.css">
```

The **TYPE** attribute specifies the MIME type of the linked resource. This used to be required in HTML 4.01 but is not in HTML5.

```
k rel="stylesheet" href="sample.css"
type="text/css">
```

The MEDIA attribute specifies in which devices the linked resource will be displayed.

```
<link rel="stylesheet" href="sample.css"
type="text/css" media="screen">
```



While there are ten possible media values we could use, the three most common are "all" (used by all devices), "print" (print devices only) and "screen" (screen devices only).

If there is no media type defined, the default value (media="all") will used.

```
k rel="stylesheet" href="sample.css"
type="text/css">
```



Exercise

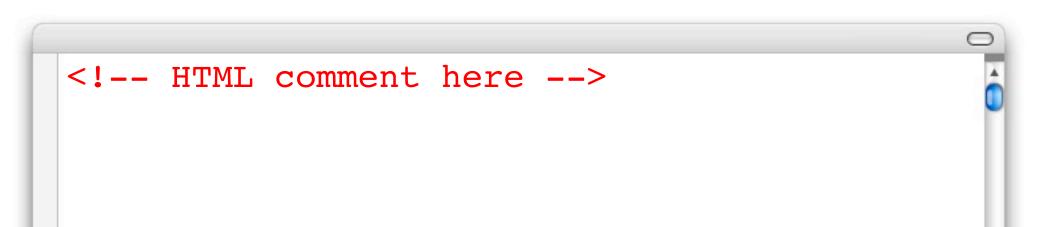
Let's add a link to a stylesheet...

```
<style>
    div { color: red; }
    </style>
    </head>
```

```
<link rel="stylesheet" href="lesson03.css">
<style>
   div { color: red; }
</style>
</head>
```

Step 7: HTML comments

Your can add comments into your markup. These comments are not rendered by browsers.



Exercise

Let's add a comment...

```
<script src="lesson03.js"></script>
</body>
</html>
```

```
<!-- HTML comment here -->
<script src="lesson03.js"></script>
</body>
</html>
```



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