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Coding & the Humanities

Week 8 | Part 1_HTML DOCUMENTS

30/11/2020

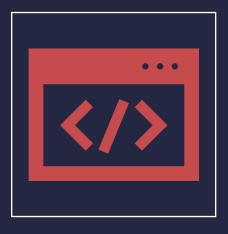


In this part ...

- You'll learn about the difference between scraping and crawling
- You'll learn what makes up the basic structure of HTML docs

Data (web) scraping vs. Data (web) crawling

Scraping	Crawling
Extracting data from sources, including the web	Iterative finding & fetching of web links from seed URLS
Any scale	Large scale
Can be done without crawling	Involves a degree of web scraping
Can be manual or programmatic	Needs crawler or bot

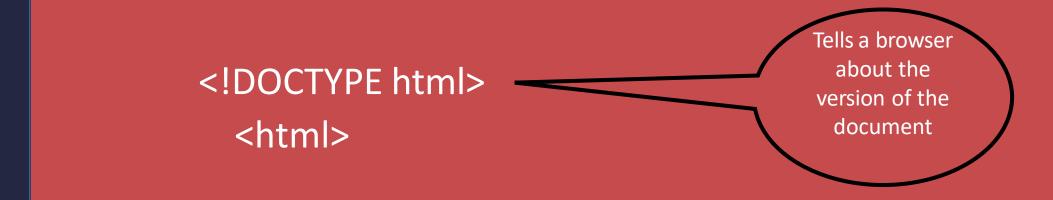


HTML

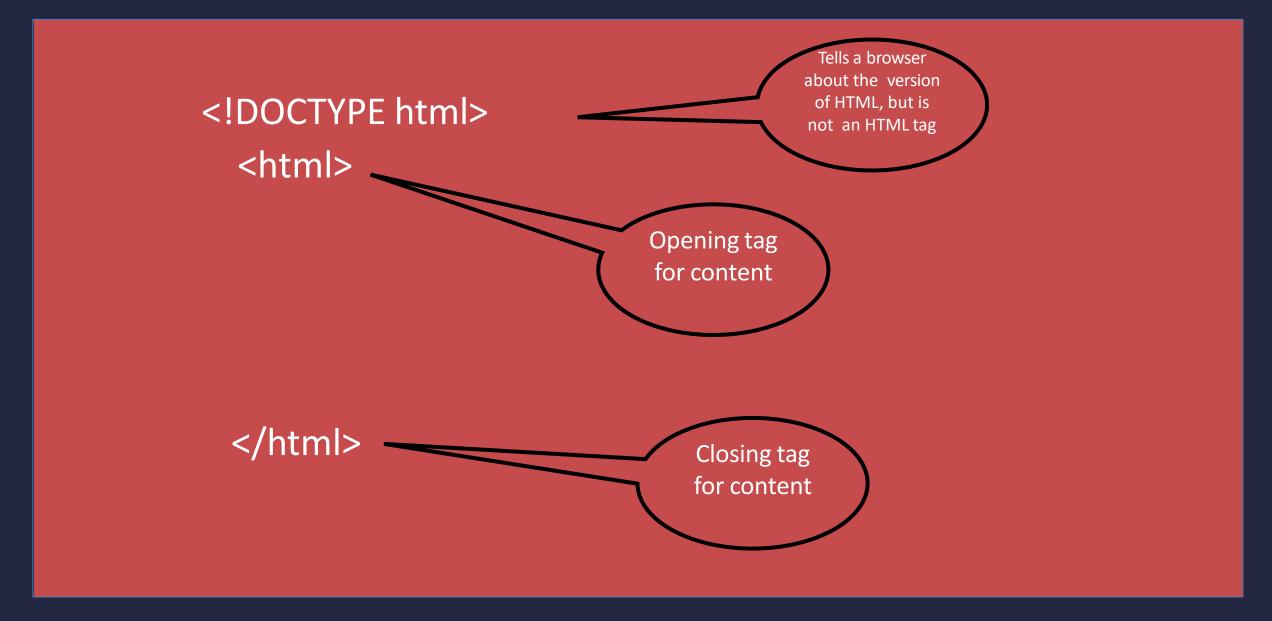
(HyperText Markup Language) Mark up language to structure content for web pages

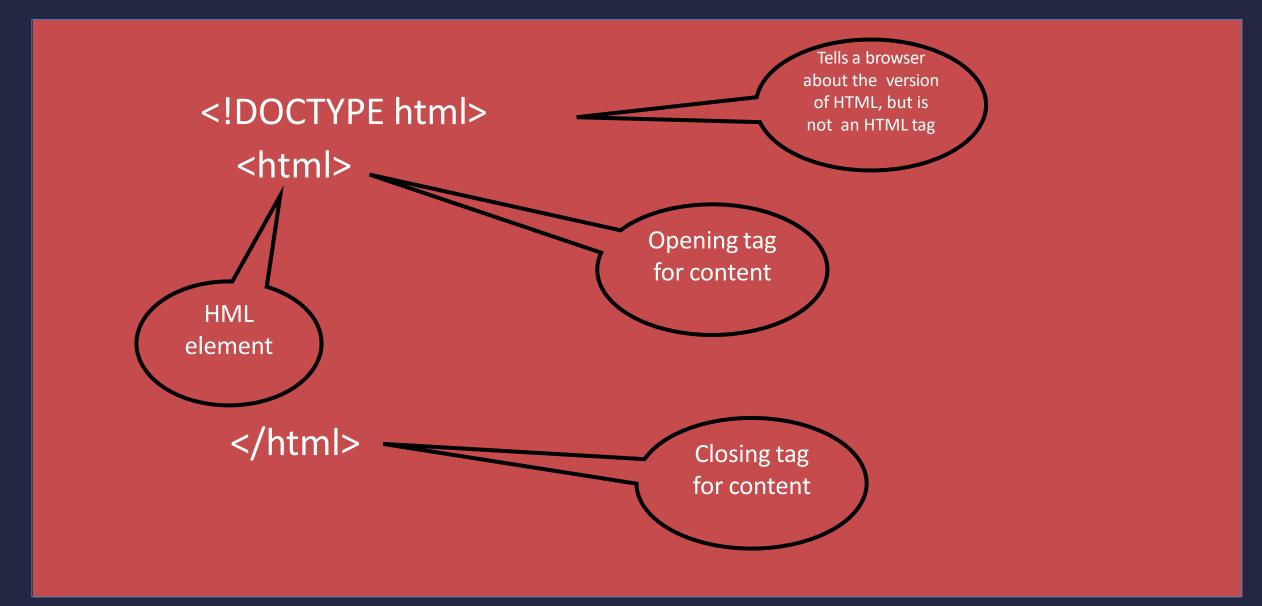
Can do a bit of formatting, but CSS is the major language to add style to structured content

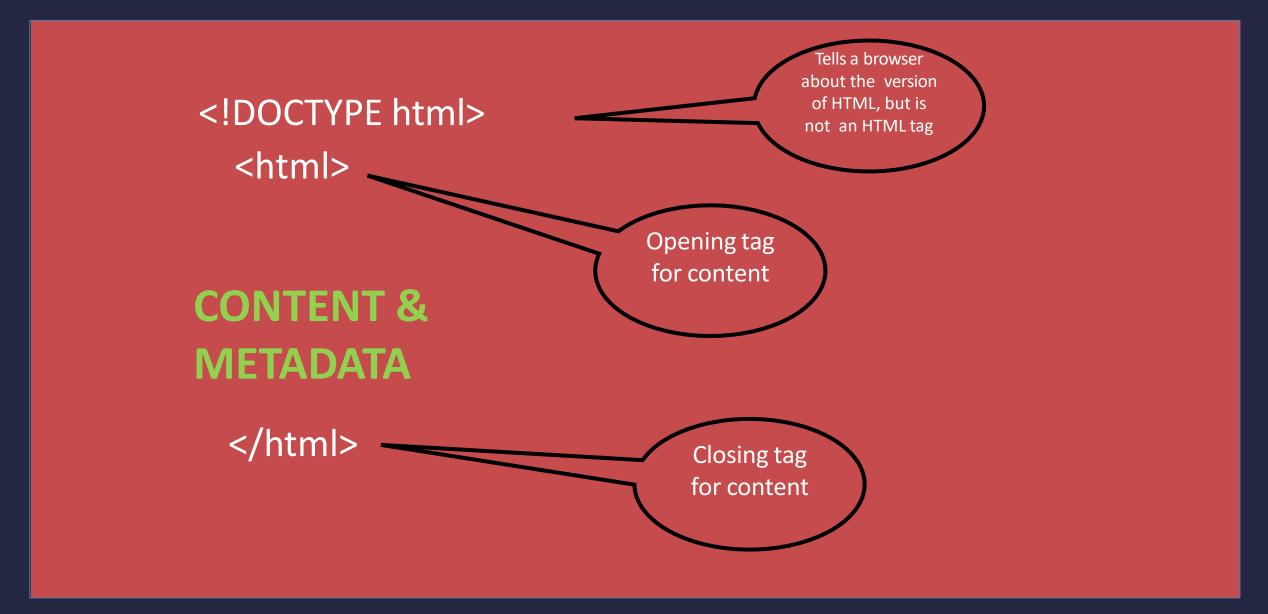
HTML documents are highly structured hierarchies with nested tags that wrap up content



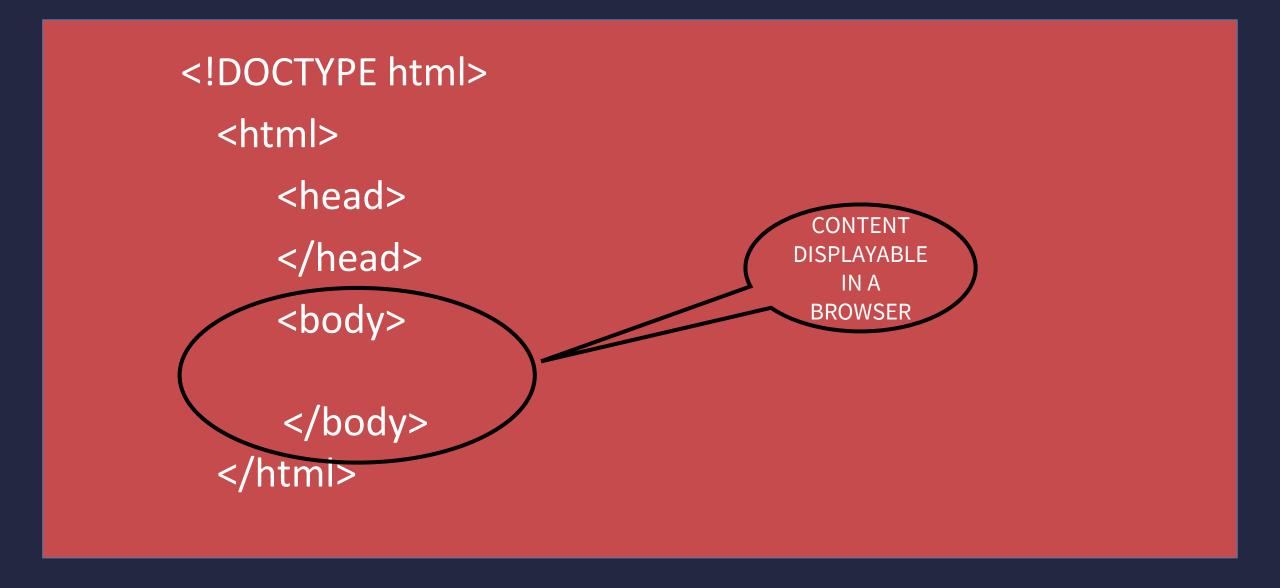
</html>



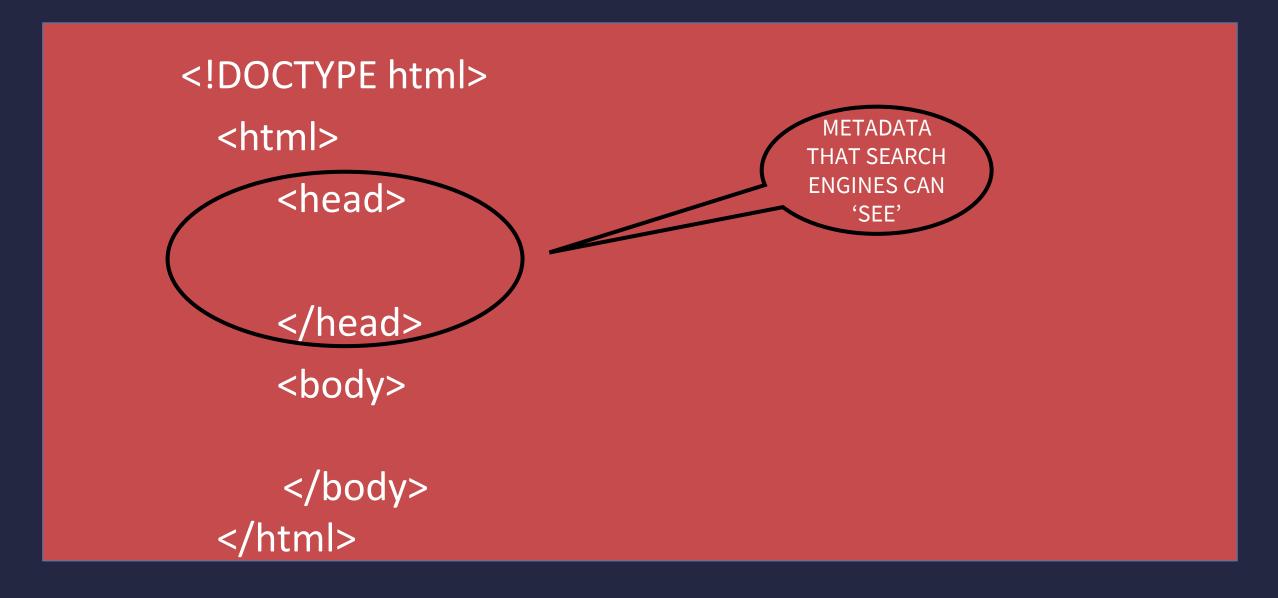




Top-level Structure of HTML5



Top-level Structure of HTML5



```
<br/><body>
<h2> This is a heading </h2>
Element <h2> to display headings
```

This is a good day to learn HTML and web scraping

</body>

```
Element  to
<body>
                                          display
                                        paragraphs
<h2> This is a heading </h2>
 This is a good day to learn HTML and web scraping
<img src="Python_logo.png">
```

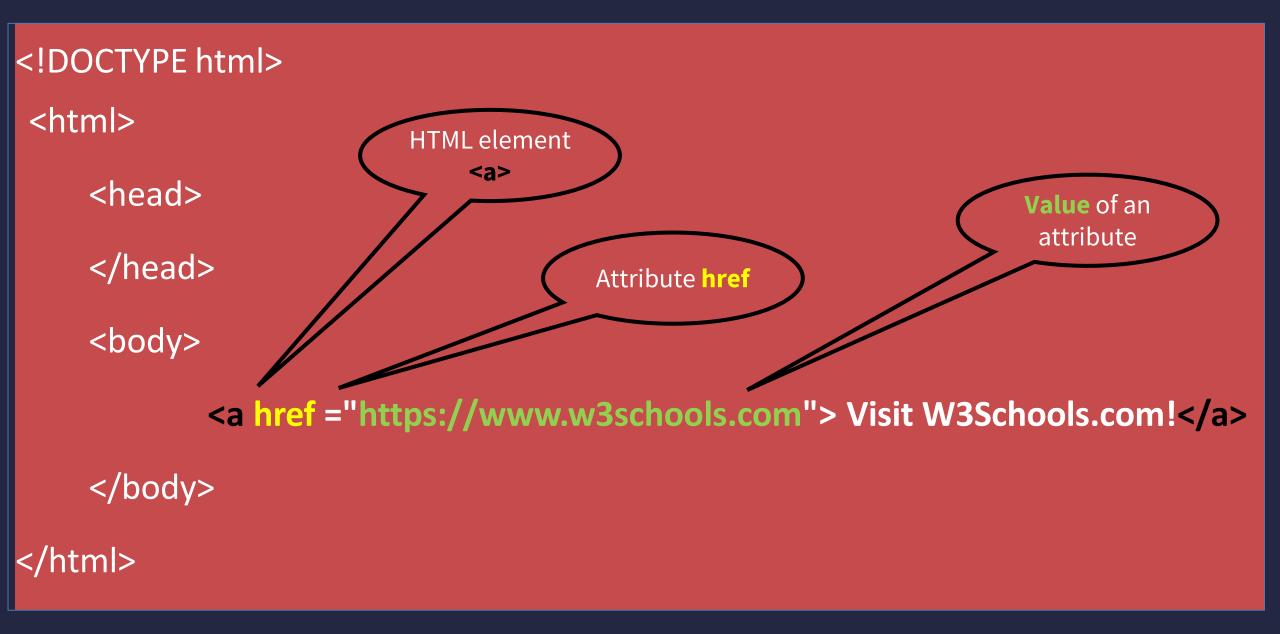
</body>

```
<body>
<h2> This is a heading </h2>
 This is a good day to learn HTML and web scraping
<img src="Python_logo.png">
                                                Empty element
                                               <img> has one tag
                                                 only to embed
                                                   images
```

```
<body>
<h2> This is a heading </h2>
 This is a good day to learn HTML and web scraping
<img src="Python_logo.png">
           Attribute
```

```
<body>
<h2> This is a heading </h2>
 This is a good day to learn HTML and web scraping
<img src="Python_logo.png">
                             Attributes are
                            set to = "values"
```

Attributes & Values





How do we access HTML content?

We can scrape web content with Python or another programming languages by:

HTML element, e.g.

Element's attributes, e.g.

Attribute's values, e.g. "first"

Family relationships between HTML elements, e.g. may be a child or parent to other elements

