

Concise Notes on Chapter 1: Structure (HTML Basics) ☒

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This chapter introduces the importance of structure in documents, particularly for web pages, and explains how HTML (HyperText Markup Language) is used to create structured web content. Below are concise notes summarizing the key points, organized for clarity and understanding. ☒

Key Concepts

1.

Importance of Structure in Documents ☒ :

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Structure organizes content (e.g., headlines, text, images) to make it easier for readers to understand and navigate.

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Examples: Newspapers use headlines and subheadings; insurance forms use sections and checkboxes. Web pages mirror these structures electronically.

2.

What is HTML? ☒ :

- **HTML (HyperText Markup Language):** A markup language that annotates text to define its structure and presentation on a web page.
- **HyperText:** Allows linking between pages for easy navigation.
- **Markup:** Tags surround content to give it meaning, which browsers use to display the page correctly.

3.

HTML Structure ☒ :

- HTML uses **tags** (enclosed in < and >) to describe the structure of a web page.
- Tags usually come in pairs:
 - **Opening tag:** <tagname> (e.g., <p> for paragraph).
 - **Closing tag:** </tagname> (includes a forward slash).

- An **element** consists of an opening tag, content, and a closing tag (e.g., `<p>Hello</p>`).
- Tags act like containers, defining the role of the content they enclose.

4.

Common HTML Elements ☒ :

- `<html>`: Wraps all HTML content, indicating the start and end of the HTML code.
- `<body>`: Contains content displayed in the main browser window.
- `<head>`: Contains metadata about the page (not displayed in the main window).
- `<title>`: Sets the page title, shown in the browser's title bar or tab.
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<h1>: Main heading.

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<h2>: Sub-heading.

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<p>: Paragraph.

5.

Attributes :

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Provide additional information about an element.

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Appear in the opening tag, consisting of a **name** and **value** (e.g., <p lang="en-us">Text</p>).

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lang is the attribute name; "en-us" is the value.

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Attribute names should be lowercase, and values should be in quotes (HTML5 allows uppercase and no quotes, but this is not recommended).

- Example: The lang attribute specifies the language of the content (e.g., en-us for US English, fr for French).

6.

Creating a Web Page ☒ :

- On a PC: Use Notepad or Notepad++ to write HTML code, save as .html (e.g., first-test.html), and open in a browser.
- On a Mac: Use TextEdit or TextWrangler, save as .html, ensure "Ignore rich text commands" is enabled in TextEdit preferences, and open in a browser.

- Example code:

```
<html>
  <head>
    <title>This is the Title of the Page</title>
  </head>
  <body>
    <h1>This is the Body of the Page</h1>
    <p>Anything within the body of a web page is displayed in the main browser window.</p>
  </body>
</html>
```

7.

Content Management Systems (CMS) ☒ :

- CMS platforms (e.g., for blogs or e-commerce) use templates to structure pages.
- Users edit specific fields (e.g., title, article) without directly handling <html>, <head>, or <body> tags.
- Text editors in CMS add HTML markup behind the scenes. Some allow viewing/editing the HTML code.
- Editing templates requires caution, as errors can break the site.

8.

Viewing Source Code ☒ :

- To learn HTML, view the source code of web pages via the browser's "View Source" option.
- Example: Visit a site, select "View Source" from the browser menu to see the HTML code.

9.

Summary ☒ :

- HTML pages are text documents using tags to structure content.
- Tags are paired (opening/closing) and may include attributes (name-value pairs).
- Key elements include `<html>`, `<body>`, `<head>`, `<title>`, `<h1>`, `<h2>`, `<p>`.
- Learning HTML involves understanding available tags, their purpose, and their placement.

Common Doubts Clarified ☒

1.

What's the difference between a tag and an element?

- A **tag** is the markup (e.g., <p> or </p>).
- An **element** includes the opening tag, content, and closing tag (e.g., <p>Hello</p>).
- The terms are often used interchangeably, but "element" refers to the complete structure.

2.

Why is structure important?

- Structure organizes content, making it easier to read and navigate, just like in newspapers or forms. On the web, HTML tags provide this structure for browsers to render correctly.

3.

What does the lang attribute do?

- The lang attribute specifies the language of the content (e.g., en-us for US English). It helps browsers and screen readers process the content correctly.

4.

Why save files with a .html extension?

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The .html extension tells the browser to interpret the file as an HTML document. Without it (e.g., saving as .txt), the browser may display the raw code instead of rendering the page.

5.

Why might my web page not display correctly?

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Common issues:

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Incorrect file extension (e.g., .txt instead of .html).

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Missing or mismatched tags (e.g., forgetting `</body>`).

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For Mac TextEdit users, rich text settings may interfere; enable "Ignore rich text commands" in preferences.

6.

How does a CMS differ from writing raw HTML?

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A CMS uses templates to apply consistent formatting across pages. Users edit specific fields (e.g., title, content) without directly writing HTML, but the CMS generates HTML behind the scenes.

7.

Can I edit HTML in a CMS?

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Yes, many CMS platforms have a text editor with an HTML view (e.g., a "Visual/HTML" tab or angle bracket button). Check the CMS documentation for specifics.

8.

How can I learn more about HTML? ☒

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Practice writing HTML in a text editor and testing in a browser.

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View the source code of existing websites to see how they're built.

- Use online resources or books (like this one) and experiment with the provided examples.

Key Takeaways ☒

- HTML structures web pages using tags and elements.
- Tags like `<html>`, `<body>`, `<head>`, `<title>`, `<h1>`, `<h2>`, and `<p>` define the page's structure.
- Attributes (e.g., `lang`) add extra information to elements.
- Create and test HTML files using text editors (Notepad, TextEdit) and browsers.
- CMS platforms simplify content creation but still rely on HTML behind the scenes.

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Viewing source code is a great way to learn HTML.