

Hypertext Markup Language (HTML) – Part 1

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#### Document Structure

```
<!DOCTYPE html>
```

```
<html lang="en-US">
```

<head>

```
<meta charset="UTF-8">
```

<title>This the title of the document</title>

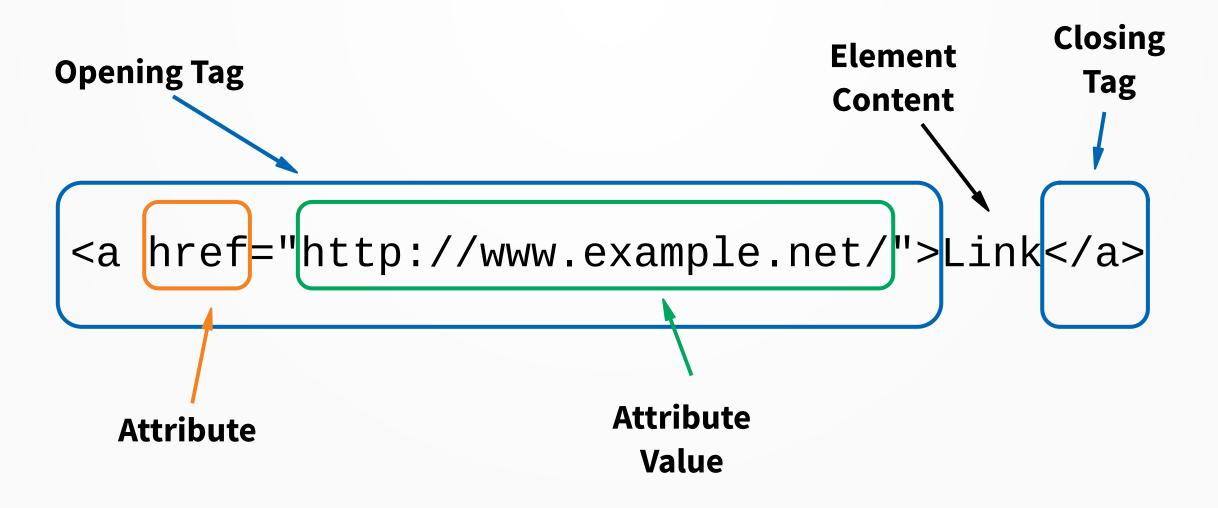
</head>

<body>

This is a paragraph in the body of the document.

</html>

### Anatomy of an Element



#### General Guidelines

- Use lowercase.
- Always check for opening and closing tags.
- You can use spaces, tabs and empty lines to clarify your code; those are ignored.

#### Headers

- <h1>Main Header<h1>
- <h2>, <h3>, <h4>, <h5>, <h6>
- You should have only one <h1> element in a document.
- Use headers in order: first <h1>, next <h2>, then <h3>, ...

## Paragraphs

#### This is a paragraph.

#### Line Breaks & Horizontal Rules

- Line Break: <br>
- Horizontal Rule: <hr>
- Those are empty elements, they don't have a closing tag.
- When using XHTML, they must be closed internally:
   <br />, <hr />.

#### Lists

- Ordered Lists
- Unordered Lists
- Definition Lists
- Lists can be nested

### Ordered Lists

#### <01>

Item #1Item #2Item #3

By default, ordered list elements are prefixed with numbers (1, 2, 3, ...).

#### Unordered Lists

Item #1Item #2Item #3

By default, ordered list elements are prefixed with bullets.

## Definition Lists

#### <d1>

<dt>Term #1</dt>
<br/>
<dd>Term #1 Definition</dd>
<br/>
<dt>Term #2</dt>
<br/>
<dd>Term #2 Definition</dd>
</dl>

By default, definition list elements are not prefixed with any character.



Tables are builds with rows, including headers or data cells.

 Header 1Header 2 Cell 1Cell 2 Cell 3Cell 4

# Hyperlinks

- The a tag ('a' for 'anchor') requires to have the *href* attribute defined:
- <a href="http://www.example.net/">Link</a>
- Links into the same document can be created by using fragments:
  - Target paragraph
  - <a href="#target">Click to go to the target
    paragraph</a>
- Links can be used for "non-web" targets:
  - <a href="mailto:email@example.com">E-mail</a>
  - <a href="tel:3115552368">Phone</a>

### Absolute and Relative Links

- An absolute link will use a full URL; an external link is always an absolute link.
- A relative link will point to a file to the same directory or related directory (parent or child).
- <a href="../file.html">Link to a file in a parent folder</a>
- <a href="directory/file.html">Link to a file in a child folder</a>



- The img element requires additional attributes:
  - src: source of the image (file name or URL)
  - alt: description
  - height and width: dimensions, in pixels

<img src="file.png" alt="My picture"
height="40" width="120">

### File Name References

- When using file names in a link or to display an image, make sure that the name follows the rules used on the hosting server.
- On Mac OS X and Linux systems, file names are case-sensitive.
- Avoid spaces and special characters; use only Latin alphabet if possible (A-Z, a-z, 0-9).
- Do not forget the filename extension (.html, .jpg, .png, ...)