CSCI 165
Introduction to the Internet and the World Wide Web
Lecture 2: HTML 2

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Overview

- Focus: Course Introduction

- Architecture: WWW

- Core Ideas:

  1. Attributes

More Tags

- Previously, we've discussed numerous tags one could use in HTML

  - `<h#>`, `<p>`: heading, and paragraph

  - Bullet points, Italic, Bold, Underscore

  - These tags serve descriptive functions, similar to specifying specific parts and kinds of text in a text document

  - There a much more tags, however not all of them are commonly used.

Concept

More Tags

- What should I do?

  - All programmers and IT professionals need to be familiar with looking up API references. HTML is no exception.

  - Here's a good source for HTML: https://developer.mozilla.org/en-US/docs/Web/HTML/Element

  - Read through the above page at least once to get a rough idea on what's out there

Concept

Types of Tags

- Root: `<html>`; Sectioning root: `<body>`

- Document metadata: `<title>`, `<head>`, `<meta>`, etc.

- Content sectioning: `<h#>`, `<section>`, etc.

- Text content: `<p>`, etc.

- Inline text semantics: `<br>`, `<code>`, `<i>`, etc.

- Images and multimedia: `<img>`, etc.

- Forms: `<button>`, `<form>`, etc.

- …

Concept

Example:

- : unordered list

    - : Individual items within the list

    - Unordered list can be layered

- Always checkout the reference for full usage

The `<ul>` HTML element represents an unordered list of items, typically rendered as a bulleted list.

Try it

HTML Demo: <ul>   RESET

| HTML | CSS | OUTPUT

```
1  <ul>
2    <li>Milk</li>
3    <li>
4      Cheese
5      <ul>
6        <li>Blue cheese</li>
7        <li>Feta</li>
8      </ul>
9    </li>
10 </ul>
11
```

- Milk
- Cheese
    - Blue cheese
    - Feta

Technical

1. https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ul

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Concept

Attribute

- Some tags have additional attributes, often optional

  - Example: specifying image source in `<img>`

  - For example:
    `<img src="https://jetic.org/download/example.jpg" />`

    - `<img>` is a self closing tag

    - `src` is an attribute, indicating the source of the image for `<img>`

    - attributes are to be followed immediately with "=", with values enclosed within quotes

Concept

Attribute: <img>

- References will contain a full list of all attributes supported

- Common attributes for `<img>`

  - `alt`
    Textual description, shows when you hover your mouse over

  - `width`
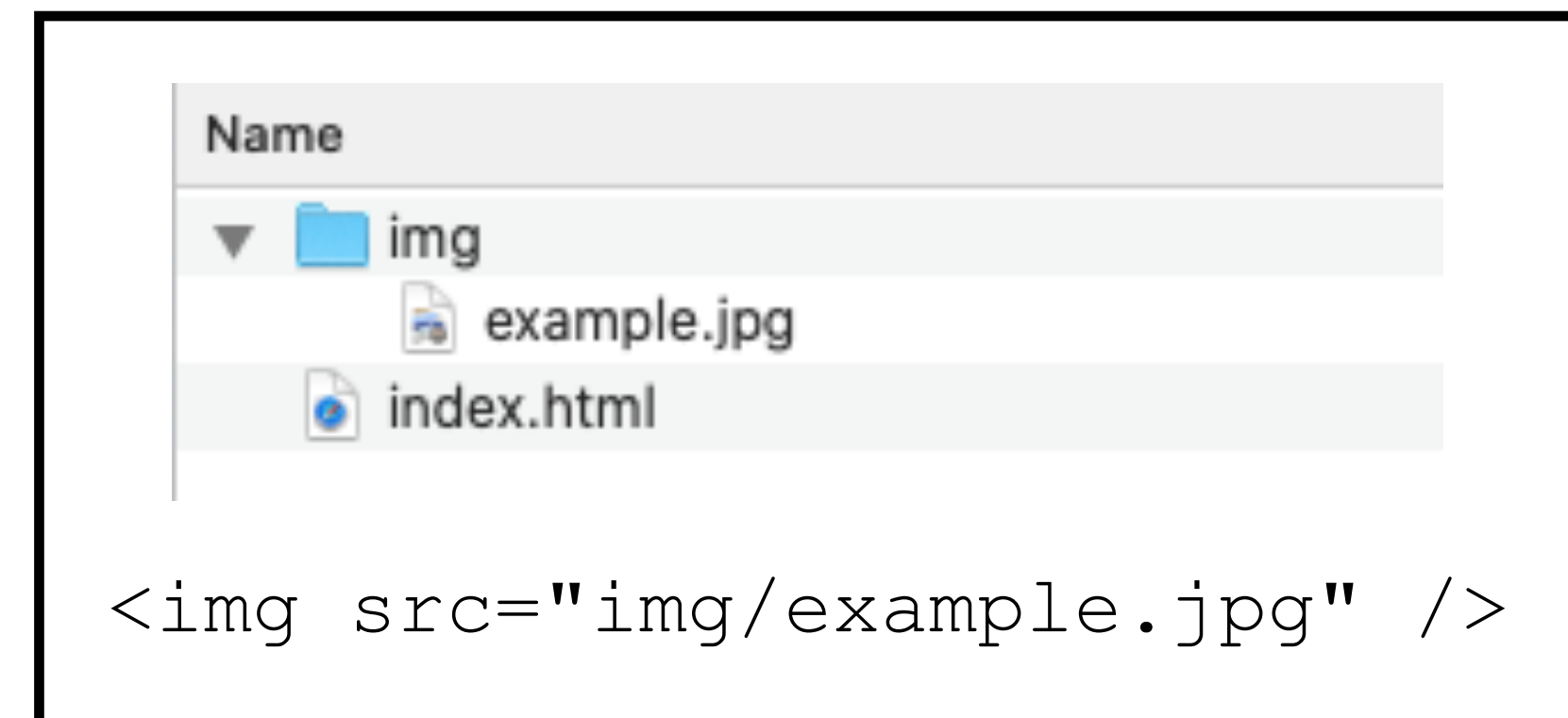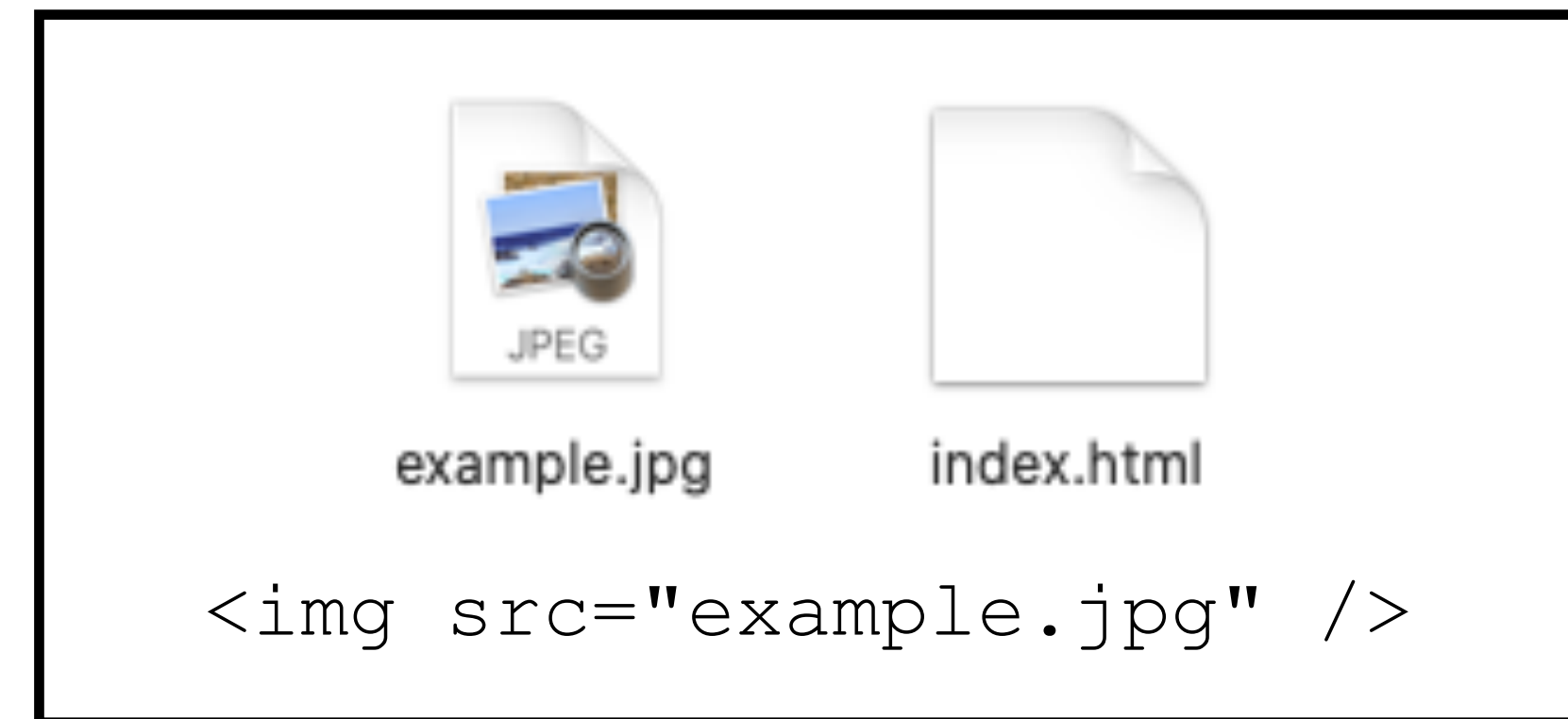   The width of the image to be displayed, in number of pixels

Attributes

This element includes the global attributes.

`alt`

Defines text that can replace the image in the page.

Concept

1. https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img

Attribute: <img>

- Attention!

  - Wanna include an image locally?

  - Make sure to use <u>relative path</u>

  - e.g.
    `<img src="example.jpg" />`

  - Your browser will look at the source html file location for the image

`<img src="example.jpg" />`

`<img src="img/example.jpg" />`

Technical

1. https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img

Attribute: \<a\>

- Tag \<a\> is for hyperlinks

- Enclose clickable element within the tag

- Use attribute `href` for the address URL

- Examples

```
<a href="http://
example.com">Website</a>

<a href="mailto:
firstname@domain.com">Send
email</a>
```

Concept

1. https://developer.mozilla.org/en-US/docs/Web/HTML/Element/a