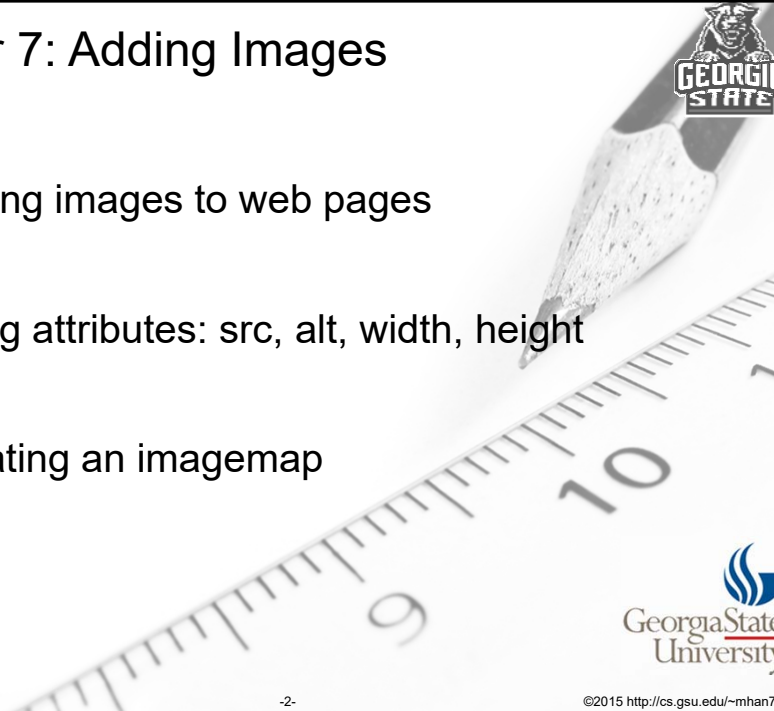



Fundamentals of Website Development

CSC 2320, Fall 2015


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The Department of Computer Science



Chapter 7: Adding Images

- Adding images to web pages
- Using attributes: src, alt, width, height
- Creating an imagemap



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The img element

- Inline element, tag: `img`
- Three ways of using:
 - As a simple image
 - As a link
 - As an imagemap
- Image format
 - Most Browsers only recognize .gif, .jpg, .jpeg, .png
 - Provide a link if other image format, downloadable, i.e., .eps, .bmp files

```
<a href="architecture.eps">Get the drawing</a>
```



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The img element

- Usage:
 - Opening tag : `` in XHTML, `` in HTML
 - ``
- `src` attribute provides the location of the file
- `alt` attribute provides alternative text that displays if the image is not available.

```
<p>I had been wanting to go to Tuscany 
for a long time, and I was not disappointed.</p>
```


I had been wanting to go to Tuscany  for a long time, and I was not disappointed.

Figure 7-1. By default, inline images are aligned with the baseline of the surrounding text, and they do not cause a line break.



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The img element

- It's an empty element, no (text) content
- In XHTML, use ``; in HTML, just use ``
- Inline element, behaves like other inlines
- Known as a *replace element*, "content" is replaced by an external file
- By default, the bottom edge of an image aligns with the baseline of text

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src attribute

- src provides the locations of image files
 - Relative path to images relative URLs+
 - Absolute path to images absolute URLs

```



```

- Tip: save image files in their own directory with folder name images or graphics.

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alt attribute

- Provides alternative text to describe the image

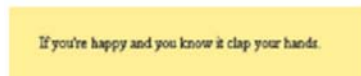
```
<p>If you're  and you know it  
clap your hands.</p>
```



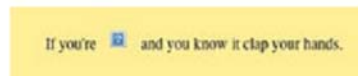
With image displayed



IE 6 and 7 (Windows)



Firefox 1.5 and 2; Netscape 7 (Windows and Mac)



Safari (Mac)

- Tip: if use same images in multiple places of your website, make sure each img element is pointing to the same image file on the server; images will be cached locally and displayed fast after downloaded

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Width and height dimensions

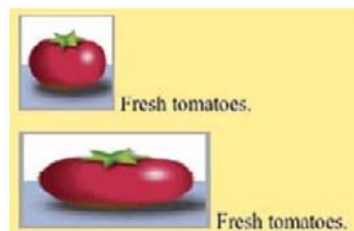
- Indicate the dimensions of image in number of pixels

width="number"
Image width in pixels

height="number"
Image height in pixels

```
<p></p>
```

- Defining width and height will overwrite the original dimensions of images, resulting in a fuzzy and blurring image



width="72" height="72"
(actual size of image)

width="144" height="72"

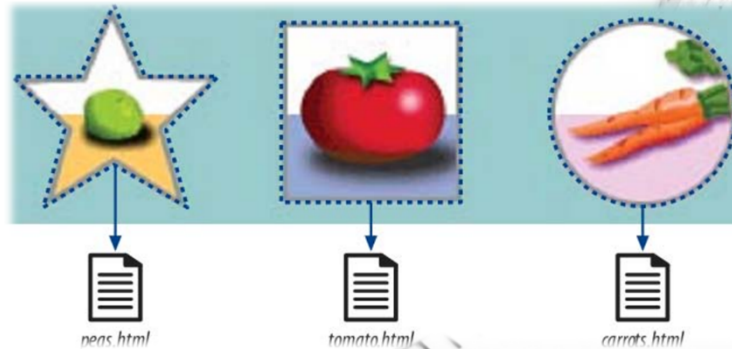
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Imagemaps

- Single image with multiple “hotspots”, links...



- Still one ordinary image, but many places are “hot”

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The parts of an image map

- Three components for Client-side image maps
- An ordinary image file, pointed within an **img** element
 - The **usemap** attribute within that **img** element
 - A **map** element that contains some **area** elements.
 - i.e.,

```

<map name="mapA" id="mapA">
  <area shape="circle" coords="222,30,40" href="apple.html" />
  <area shape="circle" coords="467,30,20" href="orange.html" />
</map>
```

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Creating the map

- Example:

```

1 <map name="veggies" id="veggies">
2
3 <area shape="poly" coords="56,5,45,32,18,32,39,52,30,80,56,64,85,82,76,5
  1,97,33,68,31,58,4,55,5" href="peas.html" alt="pea icon" />
4
5 <area shape="rect" coords="127,9,196,79" href="tomato.html" alt="tomato
  icon" />
6
7 <area shape="circle" coords="270,46,37" href="carrots.html" alt="carrot
  icon" />
8
9 </map>
10
11 <p></p>

```

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Creating the map

- Example:

- 1 This marks the beginning of the map. I gave the map the name **veggies**. Dreamweaver has used both the **name** and **id** attributes to identify the map element. Both attributes have been included in order to be both backward (**name**) and forward (**id**) compatible. Within the **map** element there are **area** elements representing each hot spot in the image.
- 2 Each **area** element has several attributes: the shape identifier (**shape**), pixel coordinates (**coords**), the URL for the link (**href**), and alternative text (**alt**). In this map there are three areas corresponding to the rectangle, circle, and polygon that I drew over my image:
 - A The list of x,y coordinates for the polygon (**poly**) identifies each of the points along the path of the star shape containing a pea.
- 3 The **img** element now sports the **usemap** attribute that tells the browser which map to use (**veggies**). You can include several imagemapped images and their respective maps in a single (X)HTML document.

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Homework

- Reading through Chapter 7
- **Assignment 2**
- a html exactly named **assignment2.html** containing at least the following elements
 - A heading
 - A paragraph
 - An ordinary image with link
 - An imagemap with two clickable areas/hotspots, link one to assignment1 and link the other to an available picture
- Send to TA by email as a **LastNameFirstName_AS2.zip** package
- Due on Sep 23rd 11:59pm

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Questions



Thank You!

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