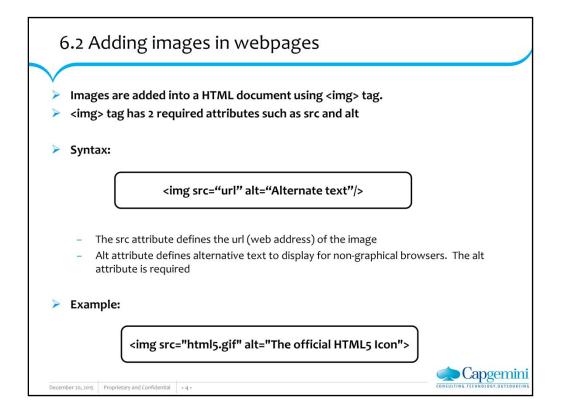


Some of the roles of images in web pages are To make web page content more interesting to be read To increase clarity on web page content by transmitting right message Provoking reactions To ensure that the user response is anticipated Some of the widely used image formats GIF: Graphical Interchangeable Format JPEG: Joint Photographic Expert Group PNG: Portable Network Graphics

GIF images are quickly downloadable, because its size is less. It is used for animated images, thumbnails, B/W image. It supports only 256 colors

JPEG images uses <u>lossy</u> compression method, meaning that some original image information is lost and cannot be restored, possibly affecting image quality.

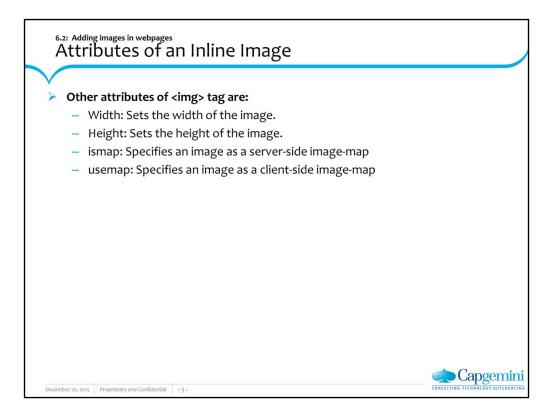
PNG images are lossless, portable, well-compressed storage of raster images. It supports image transparency



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After you have the image, save it in GIF format. Then, use the tag to include the image in your document. The tag is empty, which means that it contains attributes only and it has no closing tag.

Following list shows attributes and options you can include inside the tag: Alt: Alternative text to display for non-graphical browsers

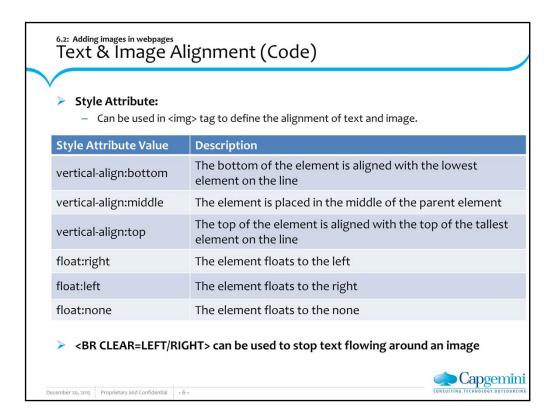
Align: Aligns graphic with surrounding text. Values include left, right, and center

Vwidth: Spacing above and below an image and surrounding text.

Hwidth: Spacing between an image and surrounding text.

Border: Sets a border around a graphic. It takes a numerical value to determine border thickness. A higher number indicates a thicker border.

Width: Sets the width of the image. Height: Sets the height of the image.



Insert the <BR CLEAR=LEFT/RIGHT> command at the spot in the descriptive text where text is to stop flowing around the image.

6.2: Adding images in webpages Demo

- ImageDemo.html
- ImageAlign.html

The Example of image alignment



HTML allows for simple aligning of text and images by adding the style attributes to the tag. HTML 5 expanded this attribute by specifying float-left and floatright options. When you use these options, text flows down the right or left side of an image aligned to them. The text flow continues until either the text passes the image, the text ends, or the browser encounters a tag.

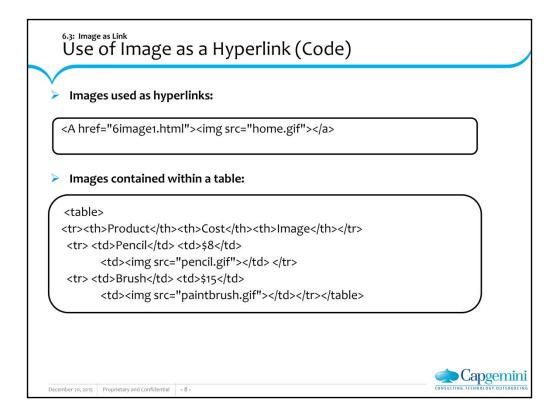


HTML5 allows vertical alignment of text and images by adding the style attribute with values as vertical-align.bottom, vertical-align.top... When you use these options, text is vertically aligned top-bottom/middle. The text flow continues until either the text passes the image, the text ends, or the browser encounters a br tag with clear attribute.





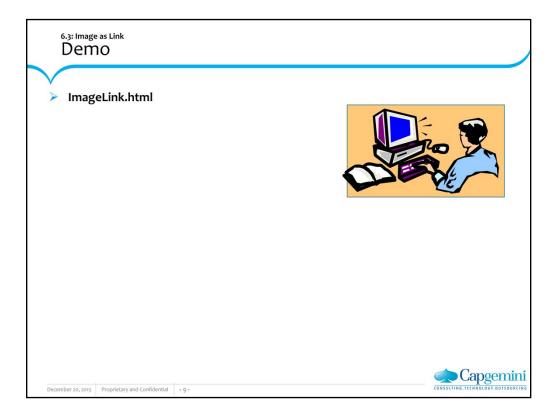
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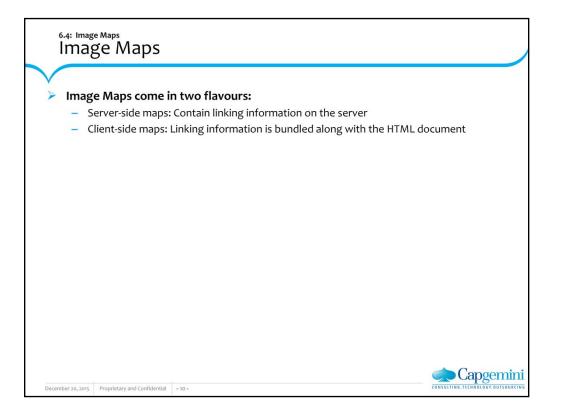


Use Image as Link

To create an image link, place the tag with the image URL between tags.

<H2>MY FIRST IMAGE LINK</H2>
Click on it to have
additional information on it.<P>





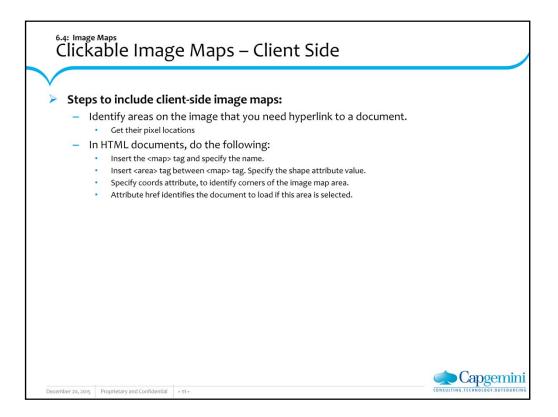
Difference Between Client Server-side Image Maps:

In Server-side image maps, when you click an image leading to multiple links, you actually invoking a cgi-bin program. The program reads a separate map file that tells it where to go based on the section of the image you click. The program returns the destination to the web browser, which opens the page. Image map is server-side because the web browser needs to contact the remote host to know which site it should contact.

Client-side image maps, in contrast, do not require a cgi-bin program to function. The image map is actually an HTML construct that can be contained on the same page as the clickable image. Rather than the program on the remote host figuring out what site to go to, the web browser itself knows what regions of the image are associated with which sites. The browser, rather than the remote host, interprets the image map.

Client-side image maps are usually faster than server-side image maps and, in general, easier to create.

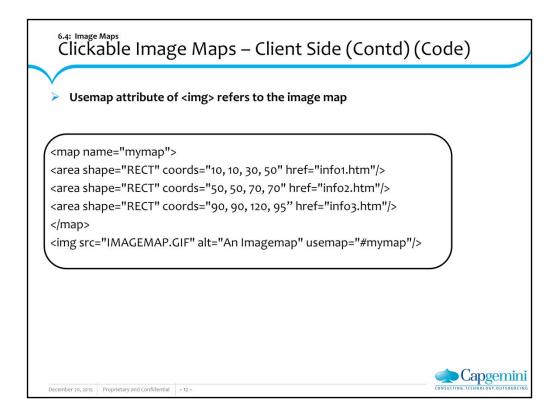
Their main disadvantage is that older browsers, and less fully featured ones, may not support them. Fortunately, it is usually possible to create a clickable image that can have both a server-side and a client-side image map.



Include Client-side Image Maps

Netscape and Microsoft's Internet Explorer support client-side image maps in which the different regions of the image are specified within the document or in another HTML document. No CGI applications are required to read client-side image maps. Therefore, they work even while not connected to the Internet. Perform the following steps:

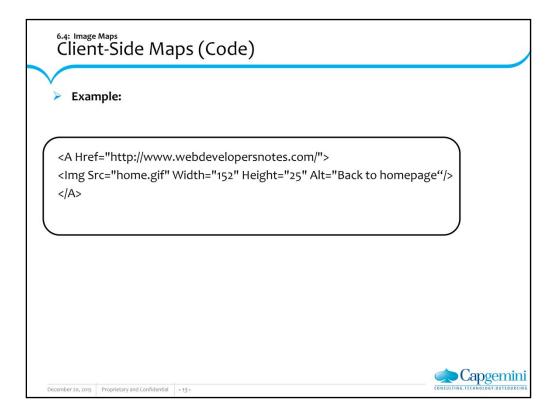
- 1. Open your document, and then load an image with a viewer such as Photoshop. This allows you to get the pixel locations from the image so you can specify them in links.
- 2. Identify areas on the image that you wish should serve as links.
- 3. Note pixel locations of the upper-left and lower-right corners of the rectangle.
- 4. In the HTML document, insert the <MAP> and </MAP> tags.
- 5. Use the NAME attribute for <MAP> to give a unique name to the image map.
- 6. Between <MAP> and </MAP> tags, insert an <AREA> tag. There should be one <AREA> tag for each link on the map.
- 7. SHAPE attribute of <AREA> identifies the shape of the area in the image map. As only rectangles are currently supported, SHAPE takes only one value, "RECT".
- 8. COORDS attribute identifies boundaries of the area on the image map. For RECT, COORD has four values, separated by commas: x and y coordinates of the upper-left and lower-right corners.



For each area, the HREF attribute identifies the URL of the document that should be loaded if the user selects that area. Document can be a local file or a document on another server

You can reference the image map information to an image on the page by adding the USEMAP attribute to the element. USEMAP is set equal to the name of map information from the NAME attribute of <MAP>.

<IMG SRC="IMAGEMAP.GIF" ALT="An Imagemap"
USEMAP="#mymap">



Create Server-side Clickable Image Map

Server side maps also have a main viewable image (IMG) like client-side maps. Instead of the usemap attribute, they set only the Boolean attribute ismap.

When a user activates a region of a server-side image map with a mouse, pixel coordinates of the click are sent to the server-side agent specified by the href attribute of the 'A' element. Server-side agent interprets the coordinates and performs some action.

For server-side image maps, the client browser just sends the coordinates of a mouse click to the server where calculations are made and the appropriate page is sent back to the client. Because of this essentially visual (and mouse) method of selecting a new page, there is no way to make server-side image maps accessible.

With server-side image maps, "active regions" in the picture only display a set of coordinates. Browsers cannot indicate to the user the URL that will be followed when a region of the map is activated. Therefore, a redundant text link is necessary to provide access to the page.

Demo clientsideimagemap.html Cipical Comparison Proprietary and Confidential 14 Proprietary and Confidential 14-

```
<!DOCTYPE html>
<html>
<head><title>Client-Side Image Map</title></head>
<body>
<map name="menu">
<area shape=rect coords="4,4,96,36" href="home.htm" >
<area shape=poly coords="5,39,95,104,95,39,5,39" href="fun.htm">
<area shape=poly coords="4,44,95,113,6,114,4,44" href="games.htm">
<area shape=circle coords="51,164,36" href="work.htm">
<area shape=circle coords="16,215,89,284" href="6clientsideimagemap.htm">
<area shape=rect coords="16,215,89,284" href="6clientsideimagemap.htm">
<area shape=default href="6clientsideimagemap.htm">
</map>
<img usemap="#menu" src="image_map_example.jpg"
height="300" width="100" />
</body></html>
```

