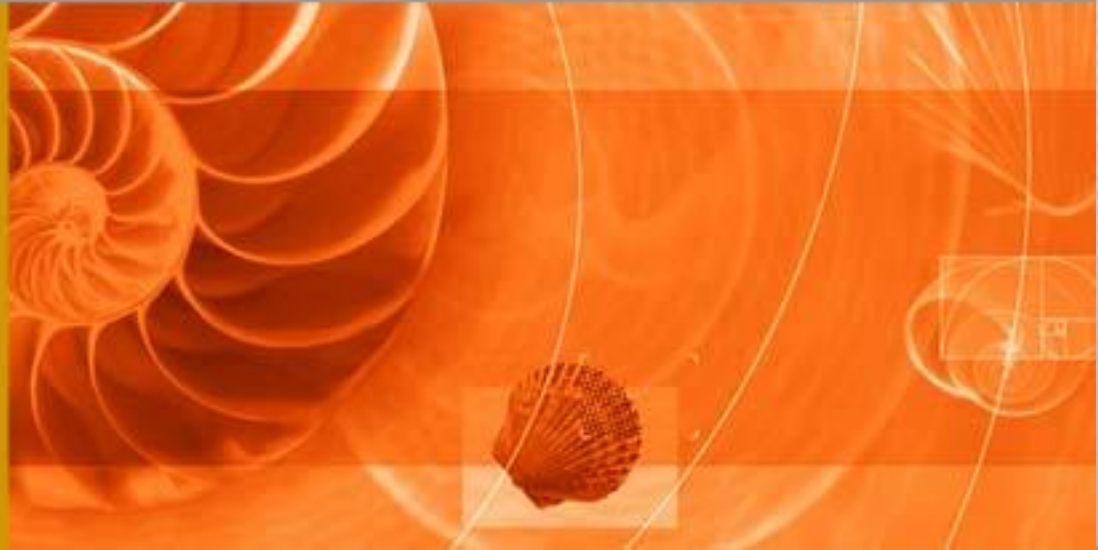


Fundamentals
of **WEB
DESIGN**



Advanced Tags

XHTML

Image Mapping

- A clickable map is an image with specific areas that link to URLs when clicked. To make a clickable map, use the "id" attribute and the "name" attribute in the <map> tag to give the map a name. The "id" attribute is the XHTML compliant one, whereas the "name" attribute is for backward compatibility.

Image Mapping

- Next, set the "usemap" attribute of the "img" tag to the map's name. This associates the map with the graphic by referencing the "name" and "id" attributes from the <map> tag. In the example below, the "#" symbol is added to the referenced map name to indicate that the map is within the same HTML file.

```
<h2>Image Mapping Example</h2>
<map id="map" name="map">
  <area shape="rect" href="anatomy1.htm" coords="103,2,188,53"
    alt="Accessory Olfactory Bulbs"
    onmouseover="window.status='Accessory Olfactory';return true"
    onmouseout="window.status='';return true">
  <area shape="rect" href="anatomy2.htm" coords="48,51,125,103"
    alt="Main Olfactory Bulbs"
    onmouseover="window.status='Main Olfactory Bulbs';return true"
    onmouseout="window.status='';return true">
  <area shape="rect" href="anatomy3.htm" coords="21,163,96,198"
    alt="Olfactory Mucosa"
    onmouseover="window.status='Olfactory Mucosa';return true"
    onmouseout="window.status='';return true">
  <area shape="rect" href="anatomy4.htm" coords="190,273,296,309"
    alt="Vomeronasal Organ"
    onmouseover="window.status='Vomeronasal Organ';return true"
    onmouseout="window.status='';return true">
</map>

```

<area /> Tag

- Between the opening and closing <map> </map> tags, use the <area /> tag to define each of the clickable areas. There is no limit to the number of clickable areas that can be defined. Areas can overlap, but the earlier defined areas take precedence.
- The <area /> tag has no closing tag, thus the " /" (there is a space before the slash) is placed at the end of the tag to make it XHTML compliant.

```
<map id="map" name="map">
<area shape="rect" href="anatomy1.htm" coords="103,2,188,53"
  alt="Accessory Olfactory Bulbs"
  onmouseover="window.status='Accessory Olfactory';return true"
  onmouseout="window.status='' ;return true" />
<area shape="rect" href="anatomy2.htm" coords="48,51,125,103"
  alt="Main Olfactory Bulbs"
  onmouseover="window.status='Main Olfactory Bulbs';return true"
  onmouseout="window.status='' ;return true" />
<area shape="rect" href="anatomy3.htm" coords="21,163,96,198"
  alt="Olfactory Mucosa"
  onmouseover="window.status='Olfactory Mucosa';return true"
  onmouseout="window.status='' ;return true" />
<area shape="rect" href="anatomy4.htm" coords="190,273,296,309"
  alt="Vomeronasal Organ"
  onmouseover="window.status='Vomeronasal Organ';return true"
  onmouseout="window.status='' ;return true" />
</map>
```

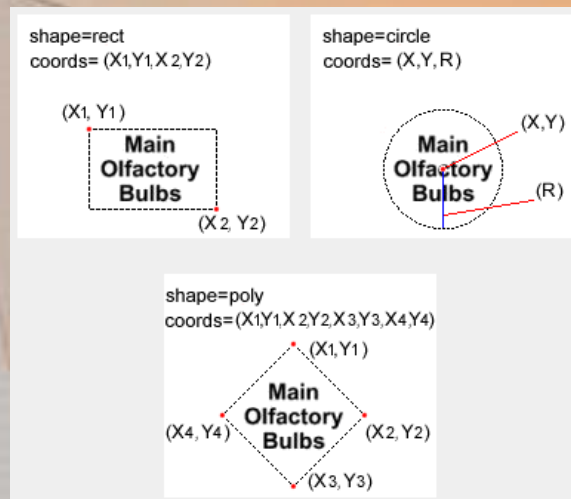
<area /> Tag

- The <area /> tag requires a number of attributes to function properly. Similar to the <a> tag, you use the "href" attribute to point to the URL to be visited when the defined area is clicked. The "shape" attribute defines what shape the clickable area will be, and the "coords" attribute defines the coordinates of the shape.

```
<map id="map" name="map">
<area shape="rect" href="anatomy1.htm" coords="103,2,188,53"
  alt="Accessory Olfactory Bulbs"
  onmouseover="window.status='Accessory Olfactory';return true"
  onmouseout="window.status='';return true" />
<area shape="rect" href="anatomy2.htm" coords="48,51,125,103"
  alt="Main Olfactory Bulbs"
  onmouseover="window.status='Main Olfactory Bulbs';return true"
  onmouseout="window.status='';return true" />
<area shape="rect" href="anatomy3.htm" coords="21,163,96,198"
  alt="Olfactory Mucosa"
  onmouseover="window.status='Olfactory Mucosa';return true"
  onmouseout="window.status='';return true" />
<area shape="rect" href="anatomy4.htm" coords="190,273,296,309"
  alt="Vomeronasal Organ"
  onmouseover="window.status='Vomeronasal Organ';return true"
  onmouseout="window.status='';return true" />
</map>
```

Shape Attribute

- The "shape" attribute has values of "rect," "circle," and "poly." The examples below illustrate how the coordinates are defined for each shape. To find the coordinates for an area use a graphics editor. Simply open PSP and load the graphic. As you move the mouse pointer across the graphic, the coordinates of the cursor position are displayed on the status bar near the bottom left of the graphic.



More Attributes

- The `<area />` tag has some attributes that aren't required, but are recommended. The value assigned to the "alt" attribute displays in the image's absence. The "onmouseover" and the "onmouseout" attributes use JavaScript, first to display text on the status bar at the bottom of the browser window, and then to remove the text from the status bar. It isn't important to fully understand the JavaScript used in this example, as long as you recognize where the text goes within the syntax.

```
<map id="map" name="map">
<area shape="rect" href="anatomy1.htm" coords="103,2,188,53"
  alt="Accessory Olfactory Bulbs"
  onmouseover="window.status='Accessory Olfactory';return true"
  onmouseout="window.status='' ;return true" />
<area shape="rect" href="anatomy2.htm" coords="48,51,125,103"
  alt="Main Olfactory Bulbs"
  onmouseover="window.status='Main Olfactory Bulbs';return true"
  onmouseout="window.status='' ;return true" />
<area shape="rect" href="anatomy3.htm" coords="21,163,96,198"
  alt="Olfactory Mucosa"
  onmouseover="window.status='Olfactory Mucosa';return true"
  onmouseout="window.status='' ;return true" />
<area shape="rect" href="anatomy4.htm" coords="190,273,296,309"
  alt="Vomer nasal Organ"
  onmouseover="window.status='Vomer nasal Organ';return true"
  onmouseout="window.status='' ;return true" />
</map>
```

<meta /> Tag

- The <meta /> tag has no closing tag, thus the " /" (there is a space before the slash) is placed at the end of the tag to make it XHTML compliant.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html lang="en-us">
<head>
<title>Meta Refresh Slide Show - File #1</title>
<meta http-equiv="refresh" content="5; URL=ancient2.htm" />
</head>

<body><center>

</center></body>
</html>
```

Refresh or Redirect Graphic Slide Show

- The `<meta />` tag with the attribute `http-equiv="refresh"` is used to autoload a new page. The `<meta />` must be located within the `<head></head>` tags. In the slide show example below, the "content" attribute is set to "5; URL=ancient2.htm" to provide a 5 second delay before the page `ancient2.htm` is loaded into the browser. To make a slide show run continuously, each file must point to the next file in the series with the last file pointing back to the first one as follows.

```
<meta http-equiv="Refresh"  
  content="10;URL=http://www.someurl.com/" />
```

Search Engine Help

- This `<meta/>` tag with the `name="Keywords"` and `content="keywords"` is one way search engines list your pages.
- Put as many variations as needed to make your page accessible.

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html>
<head>
<title>welcome</title>
<meta name="Keywords" content="Cisco Networking Academy, Cisco Networking,
Cisco, Cisco Academy, Burlson, Burlson High School, Burlson Texas,
Scott Stephenson, Technology, Elks, Burlson Elks />
</head>
<body>
</body>
</html>
```

Search Engine Help

- If you use this tag, not only will some search engines count the words in this as more important than otherwise, some of them will use the descriptions as the page description summary on the results list.

```
<meta name="description" content="Describe your site" />
```

Web_Author

- This tag sets information about the author of the document.

```
<meta name="web_author" content="Your Name Here" />  
<meta name="copyright" content="name of owner" />  
<meta name="reply-to" content="email address" />
```

More Metatags

```
<meta name="robots" content="index, nofollow" />
```

```
<meta name="googlebot" content="index, follow" />
```

```
<meta name="googlebot" content="noarchive" />
```

```
<meta name="revisit-after" content="1 day" />
```

```
<meta http-equiv="cache-control" content="no-cache" />
```

```
<meta http-equiv=" pragma " content="no-cache" />
```

```
<meta http-equiv=" expires" content="-1" />
```

```
<meta http-equiv="expires" content="Fri, 01 Jan 2009  
00:00:01 GMT" />
```

```
<meta name="generator" content="Dreamweaver" />
```

Rollover Effect

- This tag allows you to create a rollover effect when you hover over a link.

```
<style>a:hover {color: #FF0000; font-weight: bold}</style>
```

Page Transition

- This `<meta/>` tag make your page dissolve onto the page.
- It is not supported by all browsers.

```
<meta http-equiv="Page-Enter"  
content="blendTrans(Duration=1.0) "/>
```

Favicon

- This tag places an icon in your favorites next to the page name when you save it.
- <http://www.chami.com/html-kit/services/favicon/>

```
<link rel="shortcut icon" href="favicon.ico" />  
<link rel="icon" href="animated_favicon1.gif" />
```