

Image Maps

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Image Maps

- An image that contains hyperlinked, clickable regions, sometimes called "hot spots"
- Each hot spot is defined by a set of coordinates (indicating its position on the image) and a URL reference
- Two types of image maps:
 - Client-side (commonly used)
 - Server-side (rarely used)

Image Maps

- If you could see an image with its map, it might look like this:

Each area could be a separate link.

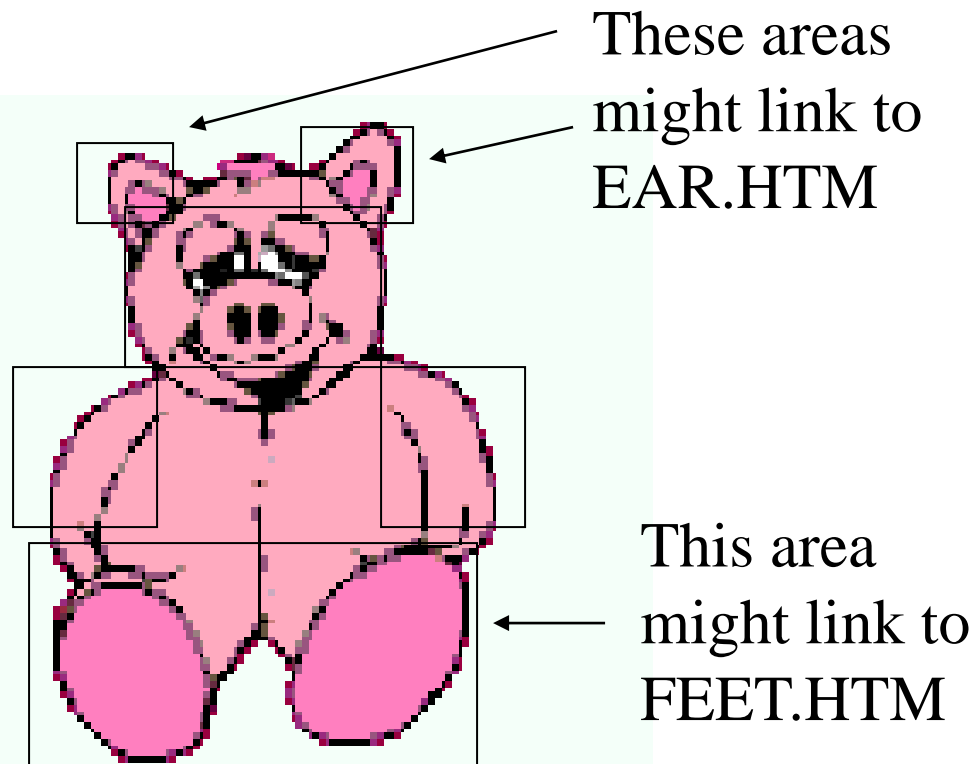
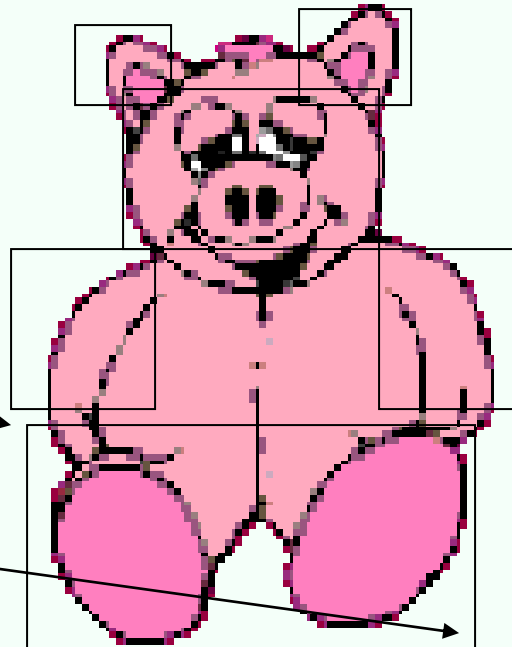


Image Maps

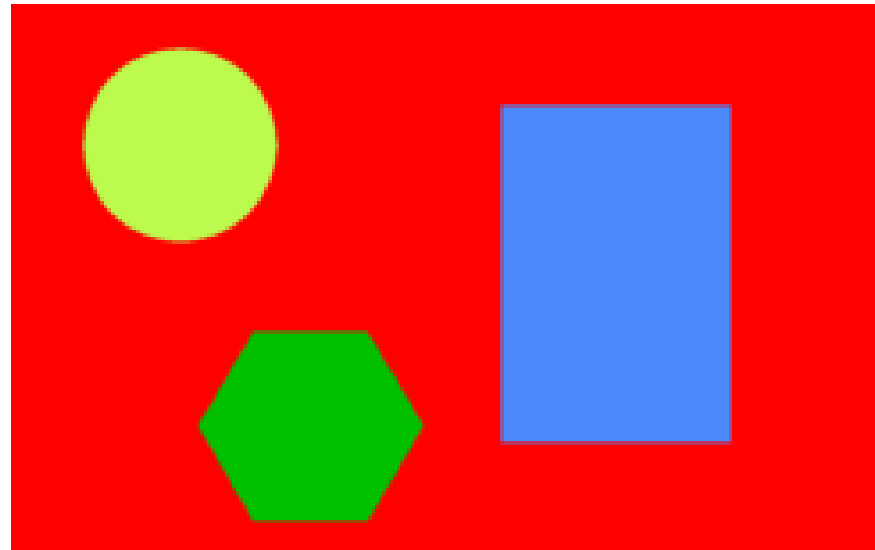
- Each area is defined by coordinates in pixels.
- For rectangular areas, it is the upper left and lower right.

This area might
be defined as
2,200 (upper
left) 205,300
(lower right)



Defining Hot Spots

- Three shapes for hot spots:
 - Rectangle
 - Circle
 - Polygon



Rectangle Hot Spot

- Any two points can define a rectangle
- Each point is represented by a horizontal (x) coordinate and a vertical (y) coordinate
- Rectangles are defined by four coordinate values representing the upper-left and bottom-right corners of the rectangle

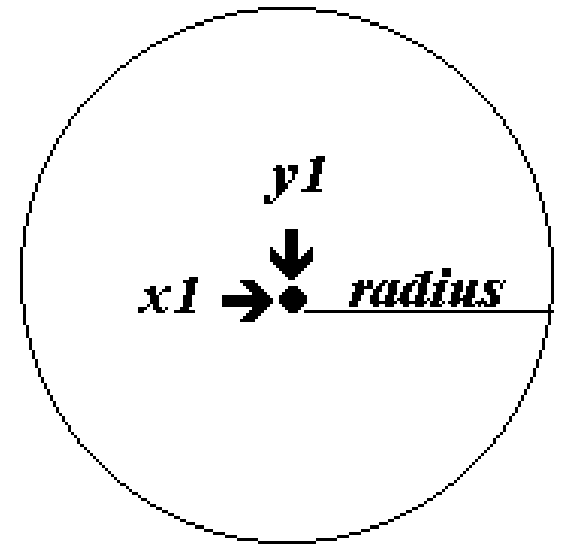
– Code:

```
<area shape="rect" coords="1,52,33,96" href="hand.htm" />
```



Circle Hot Spot

- Circles are defined by two coordinates and a radius
 - Code:
`<area shape="circle" coords="x1,y1,radius" href="url"/>`
- The pair of coordinates specifies the circle's center
- A third number specifies the desired radius



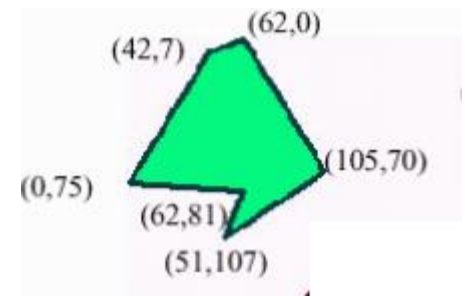
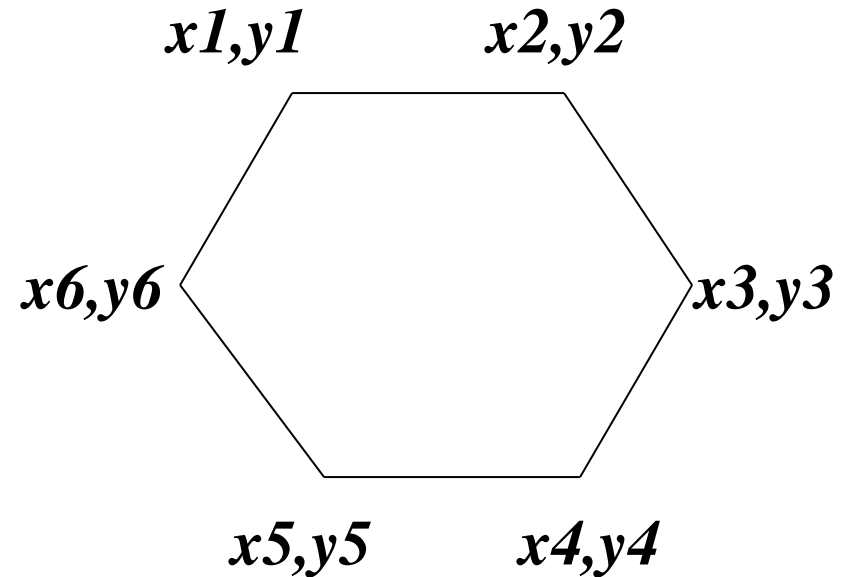
Polygon Hot Spot

<AREA SHAPE="poly"

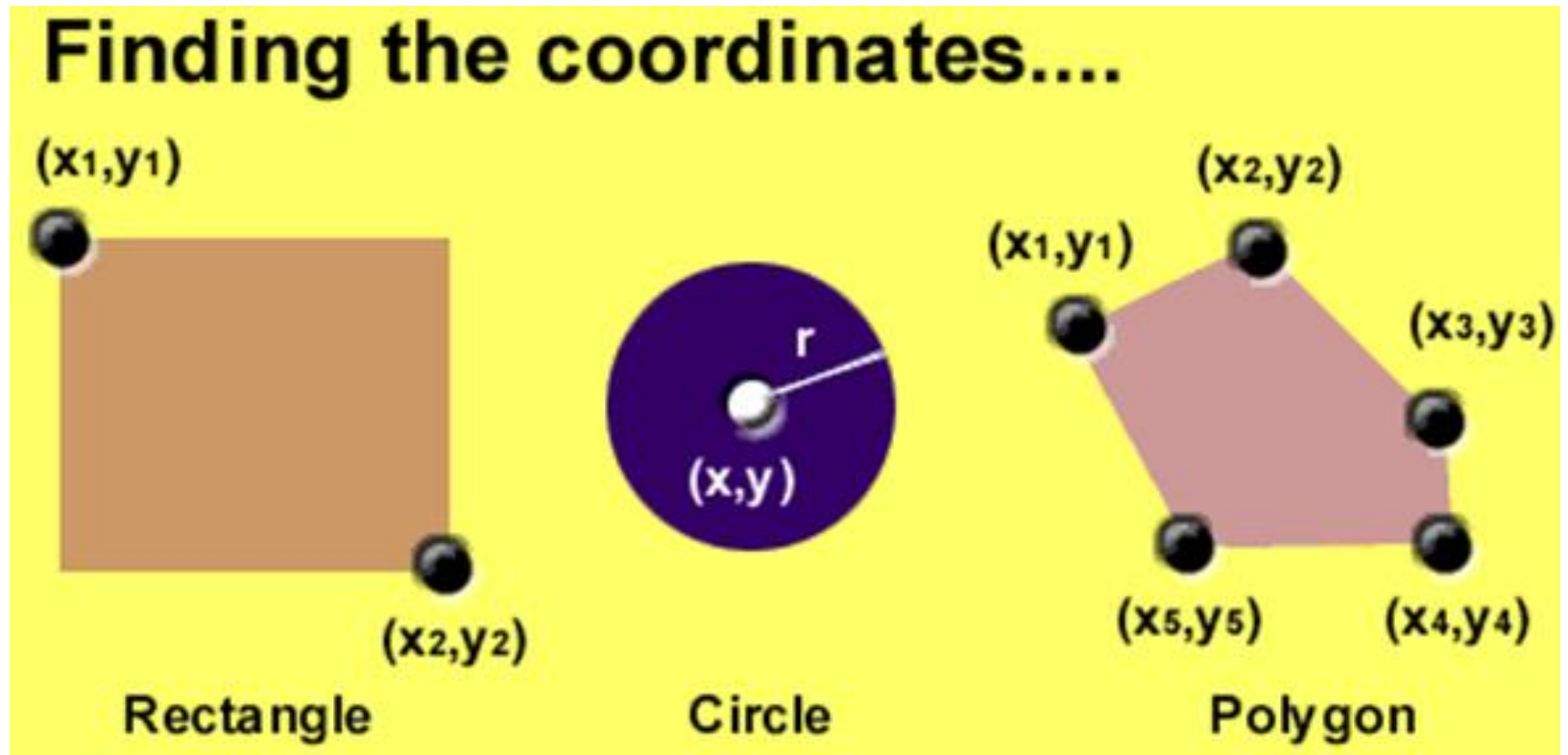
COORDS="x1,y1,x2,y2,x3,
y3,x4,y4,..."

HREF="url">

- Replace $x1,y1$ with two numbers: horizontal and vertical position of a point on the edge of the polygon
- Add more x,y pairs until you have traced around the desired shape



3 types of Hot Spot



Four Steps to Create a Client-Side Image Map

1. Select image to use
2. Define areas of image map
 - Three shapes: circle, rectangle, polygon
 - X and Y coordinates in pixels
 - Get coordinates from a graphics program such as Paint Shop Pro or Photoshop
 - <AREA> tags identify shapes in map
 - SHAPE attribute – circle, rect, poly
 - HREF attribute – URL to load
 - COORDS – x and y coordinates of shape

Four Steps to Create a Client-Side Image Map

3. Include map information in HTML document:
 - `<MAP></MAP>` - NAME attribute names the map
 - `<MAP NAME="books">`
4. Connect image with map information
 - USEMAP attribute in `` tag
 - USEMAP value is map name with a # symbol before it
 - ``

Creating Client-Side Image Maps

- Can use target=window_name for frames

```
<map name="books">
```

```
<area shape="poly" coords="70,0, 0,37, 0,183, 27,192,  
27,48, 103, 9" href="file.html" alt="Books"  
title="Books">
```

```
</map>
```

```

```

alt: Specifies an alternate text.

title: hover: display the text on hover

onClick=fun(): Include Script function

Example 1



Example 1

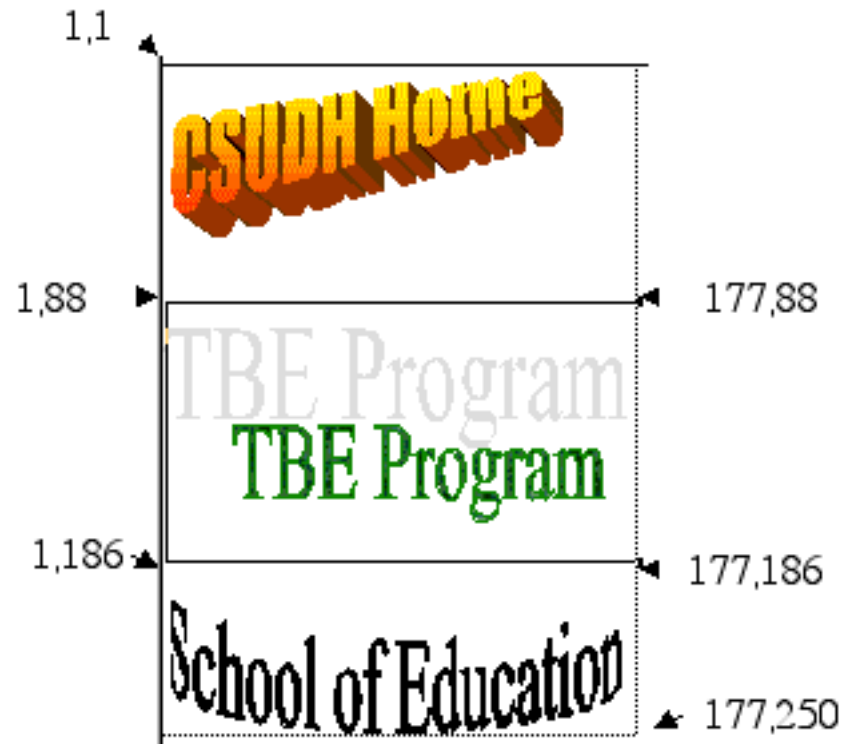
```
  
<map name=imgmap>  
<area shape=Rect Coords=30,30,59,59  
Href="taj.jpg" Target="_blank">  
<area shape=Rect Coords=100,60,129,80  
Href="elephant.gif" Target="_blank" >  
</map>
```

Find Coordinates

- use a graphics program, if it shows the position of the cursor with “pixels”.
- Move the cursor over the picture and write down the appropriate coordinates.
- <https://imagemap.org/>
- <https://www.image-map.net/>

Example 2

- Here is a simpler graphic with coordinates:



Example 2

- The accompanying HTML code for the image map:

