

HYPER TEXT MARKUP LANGUAGE (HTML)

Creating Links in HTML

HTML links are also known as hyperlinks. When we click on particular links on web pages, they open other web pages. A link does not have to be a text – it can be an image or any other HTML element. It is an integral part of HTML and it is used everywhere.

What is an HTML link?

An HTML link is used to link other web pages to a document. When users click on links on web pages, they are brought to other web pages or websites. An HTML document contains many links, which are also known as hyperlinks. Web developers can link from the text, images, and other types of media.

Links are specified in HTML using <a> tags.

 Text Link

The href attribute is used to specify the link's destination.

Basic Structure of a Link:

The basic structure of a link in HTML is defined using the <a> (anchor) tag. Here's how a simple link looks:

Link Text

- <a>: This is the anchor tag used to create a link.
- href: This attribute specifies the URL (Uniform Resource Locator) of the destination where the link leads.
- Link Text: This is the visible text or content of the link that users click on to navigate to the destination.

Types of Links:

There are several types of links in HTML:

External Links: These links navigate to web pages outside of the current website. They include URLs to other websites or web resources.



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Example:

```
html Copy code  
<a href="https://www.example.com">Visit Example Website</a>
```

Internal Links: These links navigate within the same website. They usually point to other pages within the same domain.

Example:

```
html Copy code  
<a href="/about.html">About Us</a>
```

Anchor Links: Also known as fragment links or page jumps, these links navigate to a specific section of the same web page.

Example:

```
html Copy code  
<a href="#section-id">Jump to Section</a>
```

Text links and Image links

Text Links

Text links are hyperlinks that use text as the clickable element. They are the most common type of link.

Syntax:

```
<a href="URL">Link Text</a>
```

- <a>: The anchor tag that defines the hyperlink.
- href: The attribute that specifies the destination URL.

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- Link Text: The clickable text that appears on the web page.

Example: `Visit Example Website`

When users click on "Visit Example Website," they will be taken to <https://www.example.com>.

Image Links

Image links use an image as the clickable element instead of text. This can be useful for navigation buttons, banners, and more.

Syntax:

``

- `<a>`: The anchor tag that defines the hyperlink.
- `href`: The attribute that specifies the destination URL.
- ``: The image tag that specifies the image to be used as the link.
- `src`: The attribute that specifies the path to the image file.
- `alt`: The attribute that provides alternative text for the image.

Example:

`

`

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```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Favorite Websites</title>
5 </head>
6 <body bgcolor="#FFC96F">
7
8 <center> <h1>My Favourite Websites</h1> </center>
9 <h3> A website is a collection of files accessed through a web address, covering a particular
10 theme or subject, and managed by a particular person or organization.</h3>
11 <ol>
12 <li><a href="https://www.google.com" target="_blank">Google</a></li>
13 <li><a href="https://www.wikipedia.org" target="_blank">Wikipedia</a></li>
14 <li><a href="https://www.youtube.com" target="_blank">YouTube</a></li>
15 <li><a href="https://www.amazon.com" target="_blank">Amazon</a></li>
16 <li><a href="https://www.reddit.com" target="_blank">Reddit</a></li>
17 <li><a href="https://www.facebook.com" target="_blank">Facebook</a></li>
18 <li><a href="https://www.twitter.com" target="_blank">Twitter</a></li>
19 <li><a href="https://www.linkedin.com" target="_blank">LinkedIn</a></li>
20 <li><a href="https://www.instagram.com" target="_blank">Instagram</a></li>
21 <li><a href="https://www.netflix.com" target="_blank">Netflix</a></li>
22 </ol>
23 </body>
24 </html>
    
```

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My Favourite Websites

A website is a collection of files accessed through a web address, covering a particular theme or subject, and managed by a particular person or organization.

1. [Google](#)
2. [Wikipedia](#)
3. [YouTube](#)
4. [Amazon](#)
5. [Reddit](#)
6. [Facebook](#)
7. [Twitter](#)
8. [LinkedIn](#)
9. [Instagram](#)
10. [Netflix](#)



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Image Maps

When users click on the image, image maps in HTML allow you to create clickable areas on an image, linking different parts of the image to different destinations. This can be useful for creating interactive images, such as maps, diagrams, or any image where different regions link to different pages.

How to Create an Image Map

To create an image map, you need to use the <map> and <area> tags in conjunction with the tag.

Step-by-Step Example

Define the Image and Use Map Attribute:

- Use the tag to display your image and the 'usemap' attribute to reference the map you will define.

Define the Map:

- Use the <map> tag to define the clickable areas on the image.
- The 'name' attribute of the <map> tag must match the 'usemap' attribute of the tag.
- Use the <area> tag within the <map> tag to define the clickable areas.
- The 'coords' attribute specifies the coordinates of the area, and the 'shape' attribute specifies the shape of the clickable area., they will be taken to <https://www.example.com>.

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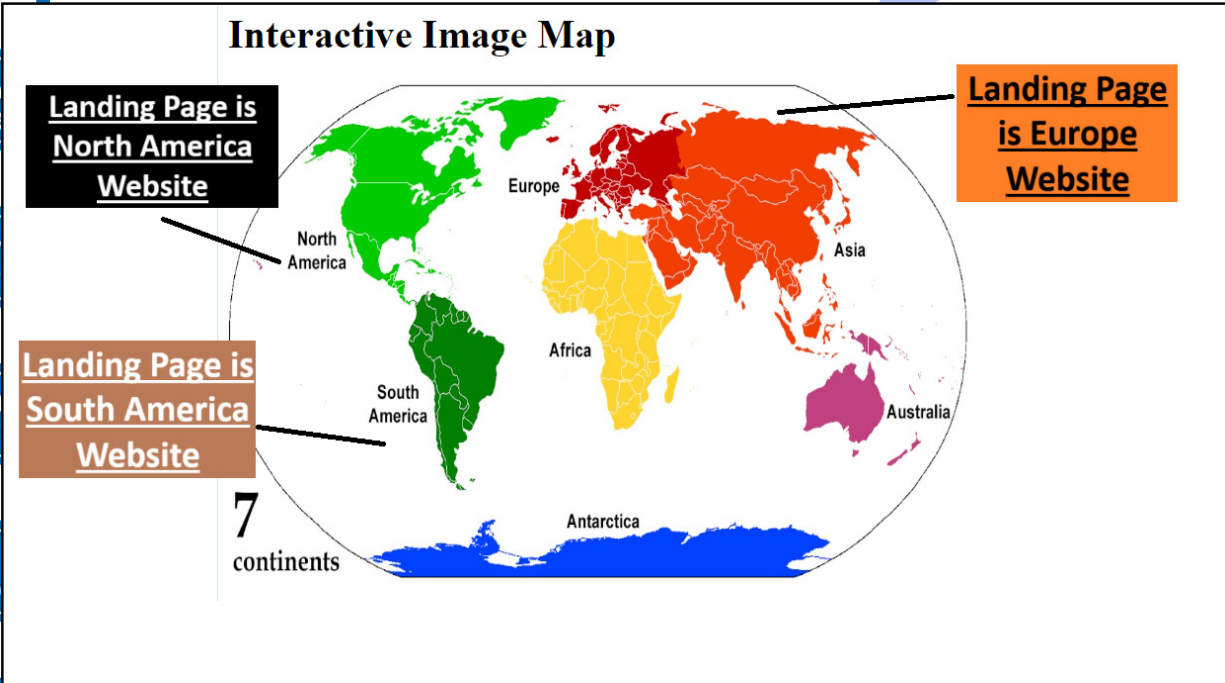
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```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Image Map Example</title>
5 </head>
6 <body>
7 <h1>Interactive Image Map</h1>
8 
10
11 <map name="worldmap">
12 <area shape="rect" coords="34,44,270,350" href="https://www.example.com/north-america"
13 alt="North America">
14 <area shape="circle" coords="337,300,44" href="https://www.example.com/south-america"
15 alt="South America">
16 <area shape="poly" coords="400,100,420,140,400,180,360,160" href="https://www.example.com/europe"
17 alt="Europe">
18 </map>
19 </body>
20 </html>
21
    
```



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Explanation:

Image Tag with Usemap Attribute:

```

```

- The usemap attribute refers to the map named worldmap.
- The width and height attributes are optional but help to resize the image appropriately.

Map Tag with Name Attribute:

```
<map name="worldmap">
  <area shape="rect" coords="34,44,270,350"
  href="https://www.example.com/north-america" alt="North America">
  <area shape="circle" coords="337,300,44"
  href="https://www.example.com/south-america" alt="South America">
  <area shape="poly" coords="400,100,420,140,400,180,360,160"
  href="https://www.example.com/europe" alt="Europe">
</map>
```

- The <map> tag defines a map with the name worldmap.
- The <area> tags define clickable areas within the image:
 - shape: Specifies the shape of the area (rect for rectangle, circle for circle, poly for polygon).
 - coords: Specifies the coordinates of the area. The format depends on the shape.
 - href: Specifies the URL to navigate to when the area is clicked.
 - alt: Provides alternative text for the area.

Shapes and Coordinates

- Rectangle (rect): Coordinates are in the format x1,y1,x2,y2, representing the top-left and bottom-right corners.
- Circle (circle): Coordinates are in the format x,y,r, representing the center (x,y) and the radius (r).
 - Polygon (poly): Coordinates are in the format x1,y1,x2,y2,x3,y3,..., representing each vertex of the polygon.

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Assignment

Ques 1: Write an HTML code to create a menu using an unordered list with each item linking to different social media pages (e.g., Facebook, Twitter, Instagram). Use appropriate social media icons as the link text.

Ques 2: Write an HTML code to create an unordered list of books, where each book title is a link to purchase the book. Add a description under each book title in a nested list.

Ques 3: Write an HTML code snippet to create a nested list where the main list contains three categories (e.g., Programming Languages, Web Technologies, Databases), and each category is an unordered list containing five related items. Each item should be a link to a relevant page.

Ques 4: Write an HTML code to create a definition list of seven computer science terms, and for each term, provide a clickable link to more information about the term.

Ques 5: Write an HTML code to create a menu using an unordered list with each item linking to different social media pages (e.g., Facebook, Twitter, Instagram). Use appropriate social media icons as the link text.

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