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LAB III: HYPERLINKS AND IMAGES WITH HTML

Objectives:

To become familiar with using the anchor tag to create hyperlinks interlinking websites and webpages, and to become familiar with inserting images in webpages. This look into images and hyperlinks will help us become proficient in the uses of hyperlinks and images along with formatting the tags with various attributes to acquire our desired customization of the webpage.

Theory:

A **hyperlink** is a clickable element in a digital document or webpage that directs users to another location, such as a different webpage, a specific section within the same document, an email address, or a downloadable file. Hyperlinks are typically highlighted as underlined or colored text but can also be images or buttons.

The HTML anchor tag defines the hyperlink. The **href** attribute provides the reference for where the link takes you i.e. a different website, webpage, file, etc.

The syntax of HTML **anchor** tag is given as:

- ` Link Text `

Types of hyperlinks:

- Interpage Hyperlinks

These hyperlinks lead you to a different webpage of the same website.

Eg:

`Gallery`

- Intrapage Hyperlinks

These hyperlinks lead you to a different section of the same webpage. This requires us to create a destination with the **name** attribute and the use of **#destination-name** to travel to the particular section.

Eg:

`Go to the Top`

`This is the Top`

- External Hyperlinks

These lead you to an external site i.e. the URL provided in href.

Eg:

`Google`

- Email Hyperlinks

These lead you to your default mailing app to send mails to the provided email in href.

Eg:

`Mail me here`

HTML Links - The target Attribute:

By default, the linked page will be displayed in the current browser window. To change this, you must specify another target for the link.

The **target** attribute specifies where to open the linked document.

The **target** attribute can have one of the following values:

- _self** - Default. Opens the document in the same window/tab as it was clicked
- _blank** - Opens the document in a new window or tab
- _parent** - Opens the document in the parent frame
- _top** - Opens the document in the full body of the window

The **download** attribute allows the user to download the content provided in href.

Image Tag:

An image is a visual representation of a person, object, or scene. The `` tag is used to embed an image in an HTML page.

Images are not technically inserted into a web page; images are linked to web pages. The `` tag creates a holding space for the referenced image.

The `` tag has two required attributes:

- src** - Specifies the path to the image
- alt** - Specifies an alternate text for the image, if the image for some reason cannot be displayed

Example - ``

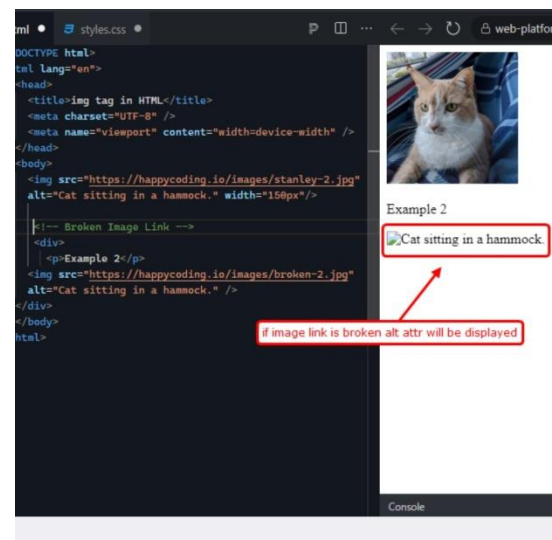


Image Tag Attribute(Img Tag):

- src**

It is a necessary attribute that describes the source or path of the image. It instructs the browser where to look for the image on the server. The location of image may be on the same directory or another server.

- alt**

The alt attribute defines an alternate text for the image, if it can't be displayed.

- width**

It is an optional attribute which is used to specify the width to display the image. It is not recommended now.

- height**

It specifies the height of the image. The HTML height attribute also supports iframe, image and object elements.

- title**

It provides a title to the image whenever the cursor hovers over the image.

Using the **anchor** tag and it's attributes

- Creating 2 files index.html and gallery.html to traverse between them

This is the **index.html** section

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Lab-3</title>
</head>
<body>
  <big><p>This is the example of inter Hyperlink</p></big>
  <a href="second.html" >Second page</a>
  <hr>
  <p>Lorem*100</p>
  <big> <a name="top">This is the example of intra Hyperlink</a></big>
  <a href="#top">goto top</a>
  <h3>Go to Gallery HTML</h3>
  <a href="gallery.html">Gallery</a>
  <hr>
  <h3>This is the example of email hyperlink </h3>
  <a href="mailto:mluja464@gmail.com">mail me</a>
  <hr>
  <h3>This is the example of external Hyperlink</h3>
  <a href="https://www.google.co.uk/">Google</a>
  <hr>
  <h3>All kind of target attribute</h3>
  <p>1>blank</p>
  <a href="https://www.google.co.uk/" target=" blank">Google</a>
  <hr>
  <p>2>self</p>
  <a
href="https://www.google.co.
uk/"
target="self">Google</a>
  <hr>
  <p>3>parent</p>
  <a
href="https://www.google.co.
uk/"
target=" parent">Google</a>
  >
```

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Incidunt quo ipsum sint, in beatae rerum cumque porro eligendi magni debitis laboriosam, id illum auter Unde labore consequatur libero ullam. Nemo suscipit culpa modi eum quasi atque perferendis sint officia numquam, qui fugiat ullam quaerat voluptatibus tenetur moll facere officia. Sed! Vitae eos voluptate fugit rerum sapiente. Et, pariat veniam enim non, laboriosam itaque harum, molestiae cum adipisci quam aspernatur modi pro numquam reiciendis error natus, aspernatur laudantium. Aspernatur quo id quasi quae consectetur laudantium neque aperiam doloribus facere quis, maiores saepe volu Veritatis perferendis cupiditate voluptates error, ullam obcaecati possimus eveniet, provident veniam incidunt nihil recusandae similique adipisci corrupti expedita mod minima fugiat perspicatis recusandae. Rerum laudantium delectus iste asperiores architecto perferendis unde, cupiditate temporibus molestiae qui. Distinctio corrupti i delectus dolorem autem quas tenetur harum quia! Vitae, perferendis sunt obcaecati voluptate commodi vel illo, voluptatem vero sed, modi facere iure! Eos sit, fugit a ij nostrum quod. Dolore! Est sapiente hic incidunt labore deserunt, soluta repellendus dolores cumque aliquid ipsam tempore nobis facilis culpa cupiditate sint unde fugi obcaecati ab molestiae? Iste laudantium natus, at esse ut hic id praesentium assumenda optio sed quasi delectus architecto sequi dicta! Est distinctio alias inventore mo

[goto top](#)

[Go to Gallery HTML](#)

[Gallery](#)

```

</hr>
<p>4>Top</p>
<a href="https://www.google.co.uk/" target=" top">Google</a>
</hr>

</body>
</html>

```

This is the **gallery.html** section

Go to index html

[Index](#)

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
  <title>Gallery HTML</title>
</head>
<body>
  <h3>Go to index html</h3>
  <a href="index.html">Index</a>

</body>
</html>

```

- Creating a file image.html with multiple pictures using and all its attributes

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Image</title>
</head>
<body>
  <h3>Images</h3>
  
  
  

```

```

•   
•   
•
•
•   </body>
•   </html>

```

Images



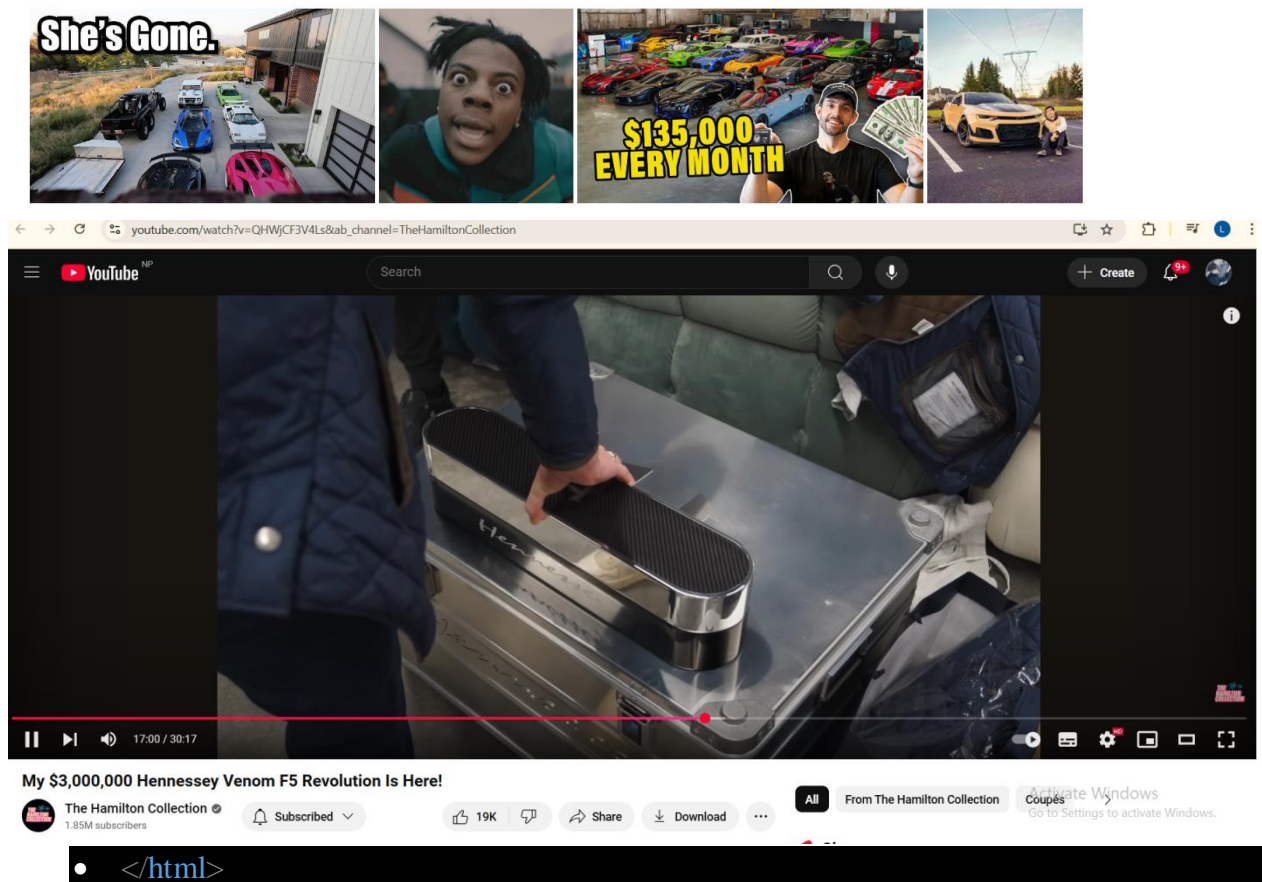
- Creating image hyperlinks

```

• <!DOCTYPE html>
• <html lang="en">
• <head>
•   <meta charset="UTF-8">
•   <meta name="viewport" content="width=device-width, initial-scale=1.0">
•   <title>image hyperlink</title>
• </head>
• <body>
•   <center> <h1>Fav youtuber</h1></center>
•   <a href="https://youtu.be/out69pqM3EI?si=K3Yx-34X-JOzbcLD"
    target="_blank"></a>
•   <a href="https://youtu.be/JyVae6nu0HI" target="_blank"></a>
•   <a href="https://youtu.be/QHWjCF3V4Ls" target="_blank"></a>
•   <a href="https://youtu.be/OeMYKzapWlQ" target="_blank"></a>
•
• </body>

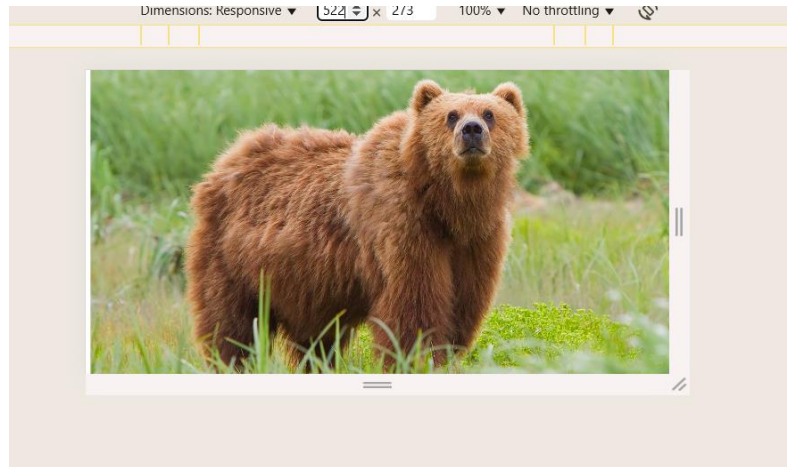
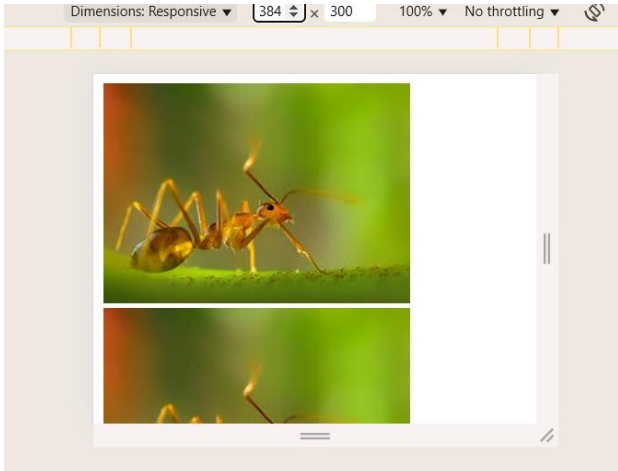
```

Fav youtuber



- Using the srcset attribute with the <source> tag to adjust images according to the window size

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Source.antman</title>
</head>
<body>
  <picture>
    <source media="(min-height: 400px)" srcset="ant.jpg">
    
    <source media="(min-height: 300px)" srcset="bear.jpeg">
    
  </picture>
</body>
</html>
```



Conclusion

This was a session about the anchor tag and the image tag in HTML. We dived into the different types of hyperlinks. We used the `<a>` with its attributes like href, target, download, etc. and `` tag with its attributes: src, height, width, title, alt, etc. became proficient in its uses. This was an important practical application of what we learned about images and hyperlinks which has helped further grasp how webpages/ websites are created and customized.