

## INDEX

## 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:

- <a href = "....."> Link Text </a>

Types of hyperlinks:

- **Interpage Hyperlinks**

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

Eg:

<a href="gallery.html">Gallery</a>

- **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:

<a href="#Top">Go to the Top</a>

<a name="Top">This is the Top</a>

- **External Hyperlinks**

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

Eg:

<a href=" https://www.google.com">Google</a>

- **Email Hyperlinks**

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

Eg:

<a href="mailto:luja123@gmail.com">Mail me here</a>

## 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 **<img>** 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 **<img>** tag creates a holding space for the referenced image.

The **<img>** 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** - **<img src=[www.google.com](http://www.google.com) alt="google">**

```

ml • styles.css •
DOCTYPE html
html lang="en">
<head>
  <title>img tag in HTML</title>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width" />
</head>
<body>
  
  <!-- Broken Image Link -->
  <p>Example 2</p>
  
</div>
</body>
html>

```

If image link is broken alt attr will be displayed

## 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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Cum, provident molestias perferendis autem aut aliquam atque libero similiq[ue] laboriosam! Q[ui] saepe rerum quidem esse in nostrum quis illum distinctio deserunt doloremque. Maiores volutpat, dolore quidem, explicabo a laudantium volutpatem ipsum cum facere praesentium, alias volutpaties blanditiis libero exercitatem, asperiores eaque sapiente adipisci quas porro! Magnam facere officiis autem sed necessitatibus rem consunt expedita nostrum delectus dicta porro eum, laboriosus fugiat! Perferendis corporis et sed vero? Ipsam, repellat autem necessitatibus numquam eligendi nihil, nemo i officia tenet ut recusandae. Consequuntur volutpatum placeat doloremque, possumus similiq[ue] ex, rem perferendis quo libero aliquam ab. Amet fugiat consequuntur, mi veritatis nisi saepe harum vel iure porro dolores paritiat neque asperiores quis aliquam vitia eum error. Consectetur, praesentium facere! Modi, obcaecati? Quos aliqua quasi temporibus rem, iusto velit corrupti porro, sequi consecutetur. Labore eum quam volutpat adipsici libero tempora eius! Cun, excepturi. Culpa delectus illo obcaecati. Consecutetur temporibus eveniet querat ducimus necessitatibus, autem aut sequi ullam aspernatur animi eum apriam. Officiis odit dolorum omnis laborum adipisci co sunt sed quae? Vel nesciunt magnam eaque adipisci! Quam sed quia vel repellendus odit ab reiciendis? Dolorem ratione provident labore tempore atque impedit cupiditate officiis veritatis ullam accusamus perspiciatis, repudiandae volutpat id cum nam nesciunt doloremque volutpatem! Commodi, quo reprehenderit a, volutpatibus apriam molitiae, maiores eius excepturi blanditiis assumenda iure repellat minus iusto atque vero suscipit volutpatum ab qua. Libero volutpat hic labor totam dolorem itaque apriam saepe impedit quas ex eos porro veritatis, volutpatibus qui vel iure ad aut. Atque, molestias veniam. Nobis fugiat querat repudiandae. Minima, architecto. Qua modi a animi laboriosam enim nisi iste volutpates dolorum numquam cum? Quod nulla blanditiis assumenda! Velit debits volutpatem molestias, maxime minima blanditiis consequuntur volutpatem ipsum quidem, impedit apriam quas porro atque nobis dolorum non? Deserunt sequi quod excepturi laudantium commodi? Autem minus vo quas aspernatur aliquid reprehenderit dolor odit facilis aliquid delectus corrupti ducimus aut? Consequatur atque soluta volutpatum impedit dolorum eveniet quae molem delectus delectus nisi asperiores ut, odit necessitatibus excepturi minima eumur eveniet? Velit asperiores in laboriosam! Labore libero autem, corporis odit sunt esse quae? Excepturi unde culpa vero doloribus, id perferendis eveniet nam suscipit paritiat aspernatur repellendus officiis ducimus in. Ea, nostrum eaque? Possimus, eaque nam. Incidunt qui ipsum sint in beatas rerum cumque porro eligendi magni debits laboriosam, id illum auter Unde labore consequatur libero ullam. Nemo suscipit culpa modi eum quasi atque perferendis sint officia numquam, qui fugiat ullam querat volutpatibus tenetur mollitiae facere officia. Sed! Vitae eos volutpat fugit rerum sapiente. Et, paritiat veniam enim non, laboriosam itaque harum, molestiae cum adipisci quam aspernatur modi pro numquam reiciendis error natus, aspernatur laudantium. Aspernatur quo id quasi quae consecutetur laudantium neque apriam doloribus facere quis, maiores saepe volutpatem Veritatis perferendis cupiditate volutpat error, ullam obcaecati possimus eveniet, provident veniam incidunt nihil recusandae similiq[ue] adipisci corrupti expedite mod minima fugiat perspiciatis recusandae. Rerum laudantium delectus iste asperiores architecto perferendis unde, cupiditate tempore molestias qui. Distinctio corrupti i delectus delectus autem quas tenetur harum quia! Vitae, perferendis sunt obcaecati volutpatem commodi vel illo, volutpatem vero sed, modi facere iure! Eos sit, fugit a i nostrum quod. Dolore! Est sapiente hic incidunt labore deserunt, soluta repellendus dolores cumque aliquid ipsam tempore nobis facilis culpa cupiditate sint unde fugit 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

```

<!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>

```

**Go to index html**

[Index](#)

- Creating a file image.html with multiple pictures using `<img>` and all it's 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/OeMYKzapWIQ" target="_blank"></a>
•
•      </body>

```

## Fav youtuber



[youtube.com/watch?v=QHWjCF3V4Ls&ab\\_channel=TheHamiltonCollection](https://www.youtube.com/watch?v=QHWjCF3V4Ls&ab_channel=TheHamiltonCollection)

My \$3,000,000 Hennessey Venom F5 Revolution Is Here!

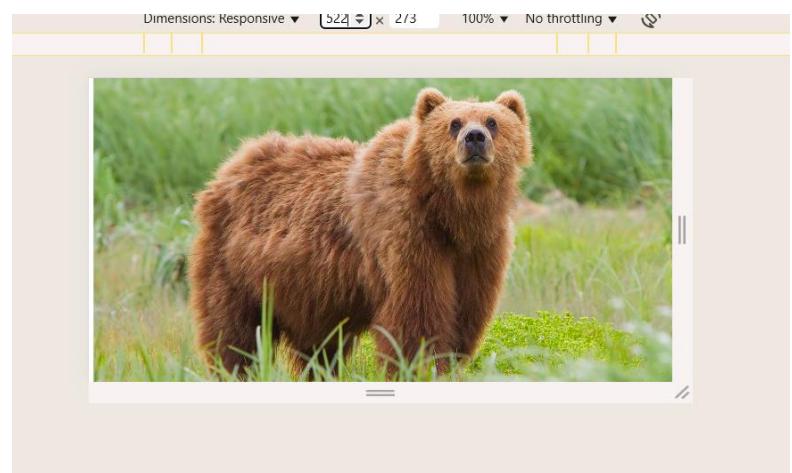
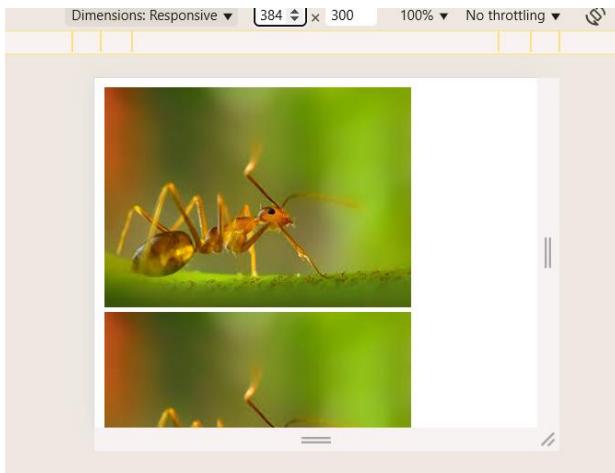
The Hamilton Collection 1.85M subscribers Subscribed 19K Share Download ...

All From The Hamilton Collection Activate Windows Go to Settings to activate Windows.

• </html>

- 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></a>` with its attributes like href, target, download, etc. and `<img>` 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.