Hey, this is Roger from Thinkful. In this video, we are going to learn how to utilize file paths and web URLs to link to web pages and display images within our HTML websites.

Let us start by creating a link that when clicked navigates our users to an external webpage, such as the Apple.com homepage.

*<!-- Will show students the link working for context in replit-->*  
**<a** **href**='apple.com'**>**Apple Homepage**</a>**

We will accomplish this by utilizing the anchor or a tag.

*<!-- Show the students a fully develop a tag for reference before coding one out for them to see step by step -->*  
**<a** **href**='apple.com'**>**Apple Homepage**</a>**

The anchor tag has a few different parts to it that allow us to accomplish this task. The first is the opening and closing tags.

**<a></a>**

Next, we need to provide a title for the link that will be rendered on our website. This goes in the space between the opening and closing tag. Let’s make the title Apple Homepage:

**<a>**Apple Homepage**</a>**

Now if we look at our website, we can see that Apple Homepage renders on screen as normal text.

To make this anchor tag a true link we must provide it with a href attribute, or *hypertext reference* attribute which goes within the opening anchor tag:

**<a** **href**=""**></a>**

The href attribute is where you define the path or destination that the anchor leads to. Let’s set the path for this link to lead the user to the website Apple.com:

**<a** **href**="https://www.apple.com/"**></a>**

<https://www.apple.com/> is an Absolute link path because it is a full URL path that links a user to content outside of the current website.

Now if we view our webpage, you will notice that the link’s normal text Apple Homepage has changed. It now renders as a blue underlined word. This change is because the href attribute tells our browser to render our HTML anchor tag as a clickable link.

If we click the link, we are then navigated to the Apple homepage.

Now that we know how to use an Absolute link path to navigate users to an external webpage, how would we handle creating a link that navigates users to a webpage that is a part of the website we are creating?

This is where a relative link path comes into play. Relative link paths are used to connect one file to another based on their location within a server.

Let’s say you are developing a portfolio website to show all the awesome projects you have been creating while learning how to code.

You have decided that your homepage will have a link that visitors can click to view your portfolio project webpage.

*<!-- index.html -->*  
<!DOCTYPE html>  
 **<html>**  
  
**<head>**  
 **<meta** **charset**="utf-8"**>**  
 **<meta** **name**="viewport" **content**="width=device-width"**>**  
 **<title>**replit**</title>**  
 **<link** **href**="style.css" **rel**="stylesheet" **type**="text/css" **/>**  
 **</head>**  
  
**<body>**  
 **<a** **href**="./portfolio.html"**>**Portfolio Page**</a>**  
  
 **<h1>**Welcome to my home page!**</h1>**  
 **<script** **src**="script.js"**></script>**  
 **</body>**  
  
**</html>**

*<!-- portfolio.html -->*  
<!DOCTYPE html>  
 **<html** **lang**="en"**>**  
 **<head>**  
 **<meta** **charset**="UTF-8"**>**  
 **<meta** **http-equiv**="X-UA-Compatible" **content**="IE=edge"**>**  
 **<meta** **name**="viewport" **content**="width=device-width, initial-scale=1.0"**>**  
 **<title>**Document**</title>**  
 **</head>**  
 **<body>**  
 **<a** **href**="./home.html"**>**Home Page**</a>**  
  
 **<h1>**Welcome to my portfolio page**</h1>**  
 **</body>**  
 **</html>**

This would be an opportune time to deploy a link that uses a relative link path to navigate users from one HTML file to another within your website.

So, to start, let's look at our current file structure. We have two files created with some started code.

The first is an index.html file which is set up as our homepage. It has an h1 tag that says, “Welcome to my portfolio home page!” and above the h1 tag there is an anchor tag with the title “Portfolio Page”.

Our second html file is called portfolio.html which also has an h1 tag with a title.

So how do we tell the link in our index.html file to navigate users to the portfolio.html file? We do this by providing the anchor tag with a relative link path.

By modifying our href with the relative link paths ./portfolio.html our browser can locate the portfolio.html file within our portfolio project file structure.

The ./ tells our browser to look within the current folder we are within for the portfolio.html file.

Now let’s look at this in action. If we click the “Portfolio Page” link, we are navigated from the home page to the portfolio page! How cool is that?!

Now that we know how to use relative link paths and Absolute link paths to navigate users to internal and external webpages, it is time to discuss how to use them to display images.

We utilize the same logic as we did with anchor tags but instead utilize the img tag.

Let's say we want to render an image we found on google on our website. This is a prime opportunity to use an Absolute link path.

**<img** **src**="https://pixadunes.com/wp-content/uploads/2019/10/PIXA002017-U.jpg"**/>**

As you can see, rather than providing the src attribute with an Absolute link path to a different webpage we have provided it with one that leads to the location on the internet where the picture lives. Which then allows our browser to render it on screen.

The last thing we will look at is how to render an image that lives within our website’s file structure. Let’s say we saved a copy of our image within a folder called assets.

How would we write a relative link path so that the browser could render the image? We can do this by providing the following path ./assets/groot.png.

**<img** **src**="./assets/groot.png"**/>**

As you can see, we are now able to render the Groot image with a relative link path.

Now take what you have learned, how to add links and images to a website. Thanks for watching. See you in the next video!