

Write your name below and indicate your role,

Project Manager (PM), Recorder (R)

Name \_\_\_\_\_ Role \_\_\_\_\_

Name \_\_\_\_\_ Role \_\_\_\_\_

## Hyperlinks

### Your Tasks

- ☐ Reference pages
- ☐ Create an internal link to a page in your website
- ☐ Create an external link
- ☐ Create a hyperlink in a new window
- ☐ Create a hyperlink to a location on the same page
- ☐ Receive credit for the group portion of this lab

### □ Reference pages

So far, all the contents of your website have been on one page. Most websites however include many pages. The links within your webpages can send users to different websites or to different pages within your site.

Just like with images, the pages you include with your website are separate files and will need to be referenced correctly to be displayed. Webpages are referenced using the *href* attribute - short for hypertext reference. This tells the tag the location of the page to load.

Consider the following file structure. *Index.html* is in the same folder as *Contact.html*. The following code could be used to reference *Contact.html* from the *Index.html* page.

MyWebsite	
Index.html Contact.html	<code>href = "Contact.html"</code>

Now consider an example where the *Contact.html* file we are trying to reference is stored in a directory that is different than *Index.html*. In the file structure below, we have created a directory called *Info* and placed the *Contact.html* page inside it. The following code could be used to reference the *Contact.html* page from the *Index.html* page.

MyWebsite	
Index.html	<code>href = "Info/Contact.html"</code>
<div>Info</div> Contact.html	

Now consider the situation below. *Index.html* and *Contact.html* are both in separate directories in the *MyWebsite* directory. Inside the *Home* directory we have an *Index.html* page and inside the *Info* directory we have our image *Contact.html* page we want to

reference. To do this, we must first “backout” of the *Home* directory, then enter the Info directory. The “.” syntax is used to backout of a directory.

MyWebsite		<code>href = “../Info/Contact.html”</code>
Home	Info	
Index.html	Contact.html	

Write code that could be used to reference the *FavThings.html* page from the *Index.html* page

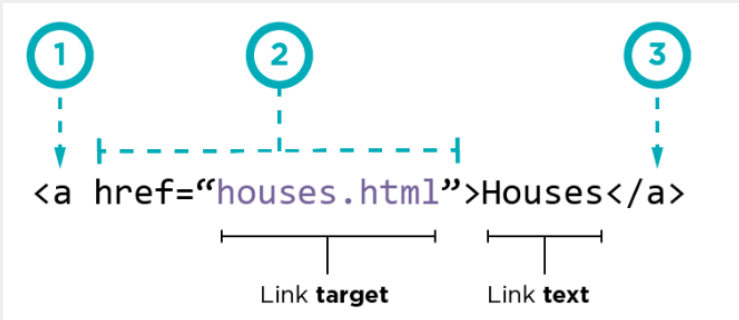
File Structure	Code														
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## □ Create an internal link to a page in your website

To link the content of your pages to one another you will use an anchor tag `<a></a>`.

To tell the browser the location and name of the file to display, you need to use the *href* attribute. The *href* attribute is added to the *a* tag inside the brackets.

How the *a* tag can be used to create a link to another page in your website is illustrated below,

<b>Media</b>	 <p>The diagram shows the HTML code <code>&lt;a href="houses.html"&gt;Houses&lt;/a&gt;</code> with three numbered annotations: 1. points to the opening <code>&lt;a&gt;</code> tag, 2. points to the <code>href="houses.html"</code> attribute, and 3. points to the closing <code>&lt;/a&gt;</code> tag. A bracket under the attribute is labeled "Link target", and a bracket under the text "Houses" is labeled "Link text".</p>
Index.html houses.html	
<ol style="list-style-type: none"><li>1. The <code>&lt;a&gt;</code> tag wraps the text that you want to turn into a clickable link. A is short for anchor.</li><li>2. The href attribute, short ofr hypertext reference, determines where your link should go to. In this case, houses.html.</li><li>3. The closing tag ends your link</li></ol>	

Write code that could be used to create a link to FavThings.html from the Index.html page.

File Structure	Code
<div><div><b>MyWebsite</b></div><div>Index.html FavThings.html</div></div>	
<div><div><b>MyWebsite</b></div><div>Index.html<div><div><b>Files</b></div><div><div><div><b>AboutMe</b></div><div>FavThings.html</div></div><div><div><b>Videos</b></div><div>Dog.mp4</div></div></div></div></div></div>	
<div><div><b>MyWebsite</b></div><div><div><b>Home</b></div><div>Index.html</div><div><div><b>Files</b></div><div><div><b>AboutMe</b></div><div>FavThings.html</div></div></div></div></div>	

## □ Create an external link

An external link is a link to a page outside of your website. To create an external link to a page, simply replace the contents of *href* attribute with the url of the site you want to direct your users. The text between the anchor tags ( `<a>` `</a>` ) should also be replaced with a descriptive name of the link. Below is an example,

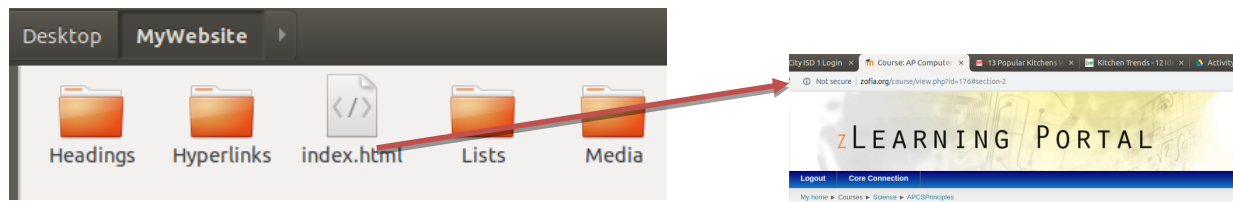
MyWebsite	Link to external site
Index.html	<code>&lt;a href="http://youtube.com" &gt;Click here to go to YouTube!&lt;/a&gt;</code>

Write code that could be used to create links to the following websites from the Index.html page.

Website	Code
Netflix	
Reddit	

## □ Create a hyperlink in a new window

If you want to direct your user to a link outside your current website, it is good practice to open this page in a window. You can do this using a attribute called target. By specifying the target as “\_blank”, you can force the link to open in a new window. Below illustrates how to do this.



```
<a href = "../index.html" target="_blank"> A link to my hyperlinks page</a>
```

Write code that could be used to create links to the following websites from the Index.html page. Have each website open in a new window.

Website	Code
Google	
Amazon	

## ■ Create a hyperlink to a location on the same page

Hyperlinks can also be used to navigate within a page. In fact, you do this everytime you use my website! Links to sections within a page are also referred to as bookmarks.

Consider the links below, taken directly from our course website. Notice the reference for each link is preceded by the # sign. This tells the browser that the reference is to the current page. The location of the reference is specified by the *id* attribute.

```
<ul>
  <li><a href="#tedTalks">Ted Talks</a></li>
  <li><a href="#knowledgeCelebrations">knowledge celebrations</a></li>
  <li><a href="#labs">labs</a></li>
</ul>

<h1 id="tedTalks">Ted Talks</h1>
<ul>
  <li>
    <a
href="https://www.ted.com/talks/raffaello_d_andrea_meet_the_dazzling_flying_machines_o
f_the_future?utm_campaign=tedsread&utm_medium=referral&utm_source=tedcomshare">Week
0: Dazzling Flying Machines of the Future</a>
  </li>
  <li>
    <a
href="https://www.ted.com/talks/maurice_conti_the_incredible_inventions_of_intuitive_a
i">Week 1: The Incredible Inventions of Intuitive AI</a>
  </li>
</ul>
```



Consider a webpage with the following sections, “My Hobbies”, “Proudest moments”, “Favorite vacations”. Rewrite the code between the `<body></body>` tags so that the items listed under the *Menu* heading link to the correct locations on the page.

```
<!DOCTYPE html>
<html>
  <head>
  </head>
  <body>
    <h1>Menu</h1>
    <ul>
      <li>My Hobbies</li>
      <li>Proudest moments</li>
      <li>Favorite vacations</li>
    </ul>

    <h1> My Hobbies </h1>
    <h4> Soccer </h4>
    <ul>
      <li> 5 years </li>
    </ul>
    <h1> Coding </h1>
    <ul>
      <li> 2 years </li>
    </ul>

    <h1> Proudest moments </h1>
    <h4> Finishing a marathon </h4>
    <ul>
      <li> 3:45:00 </li>
    </ul>

    <h1> Favorite vacations </h1>
    <h4> Belize </h4>
    <ul>
      <li> Summer 2018 </li>
    </ul>
  </body>
</html>
```

## ❑ Receive Credit for the group portion of this lab



- Indicate the names of all group members.
- Have Ms. Pluska check your Headings
- Submit your lab to the needs to be graded folder to receive credit for the group portion of this lab.
- Do not submit your lab until you have Ms. Pluska’s (or her designated TA’s) signature

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