HTML ELEMENT

- Elements consist of:

  - **opening tag** with/without attributes
  - **content** or no content
  - **closing tag** or no closing tag

`<h1 style="color:blue" id="h_1">This is fun!</h1>`

EXAMPLES

h1 heading

`<h1>hello!</h1>`

meta

`<meta charset="utf-8">`

horizontal line

`<hr>`

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TAG <h1>

- **Open angle bracket**, **<**, then **tag name** followed by **closing angle bracket, >**

- **OPEN TAG** ➔<p>
- **CLOSING TAG** ➔</p>(indicated by a forward slash)

ATTRIBUTES

- Control the appearance of an element and actions on/by an element

- **Contained** within **opening tag** and the **style element** (deferred til CSS lectures)

- **Attribute=**followed by equal sign then attribute value then enclosed by double quotes

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ATTRIBUTE VALUES and CONTENT

<h1 style="color:blue" id="h_1"> This is fun!</h1>

<img src="UofSClogo.svg" alt="uofsc">

Text in blue indicates values you can change. There are many other attribute values and content that is modifiable.

ELEMENTS SO FAR:

•**html, head, meta, title, body**
•Paragraph <p></p>
•Preformatted Text <pre> </pre>
•<hr> and
•Headings <h1> through <h6>
•HTML Comments <!– This is Fun! -->
•HTML5 TEMPLATE html5_template

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CONTAINERS-BUILDING BLOCKS of HTML

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Anchor Element-hyperlink

Hyperlinks:

Redirects the user to "somewhere" else. Within a webpage, the user clicks *the content* linked to the *next destination*.

The *next destination* can be
•an image, pdfs or other files
•another webpage
•a section of
        • the current webpage
        •another webpage

** GoTo Index **

Where the user will visualize the next destination

The *content* can be
•text, "Go to Index"
•an image,"UofSC logo"
•or another html element

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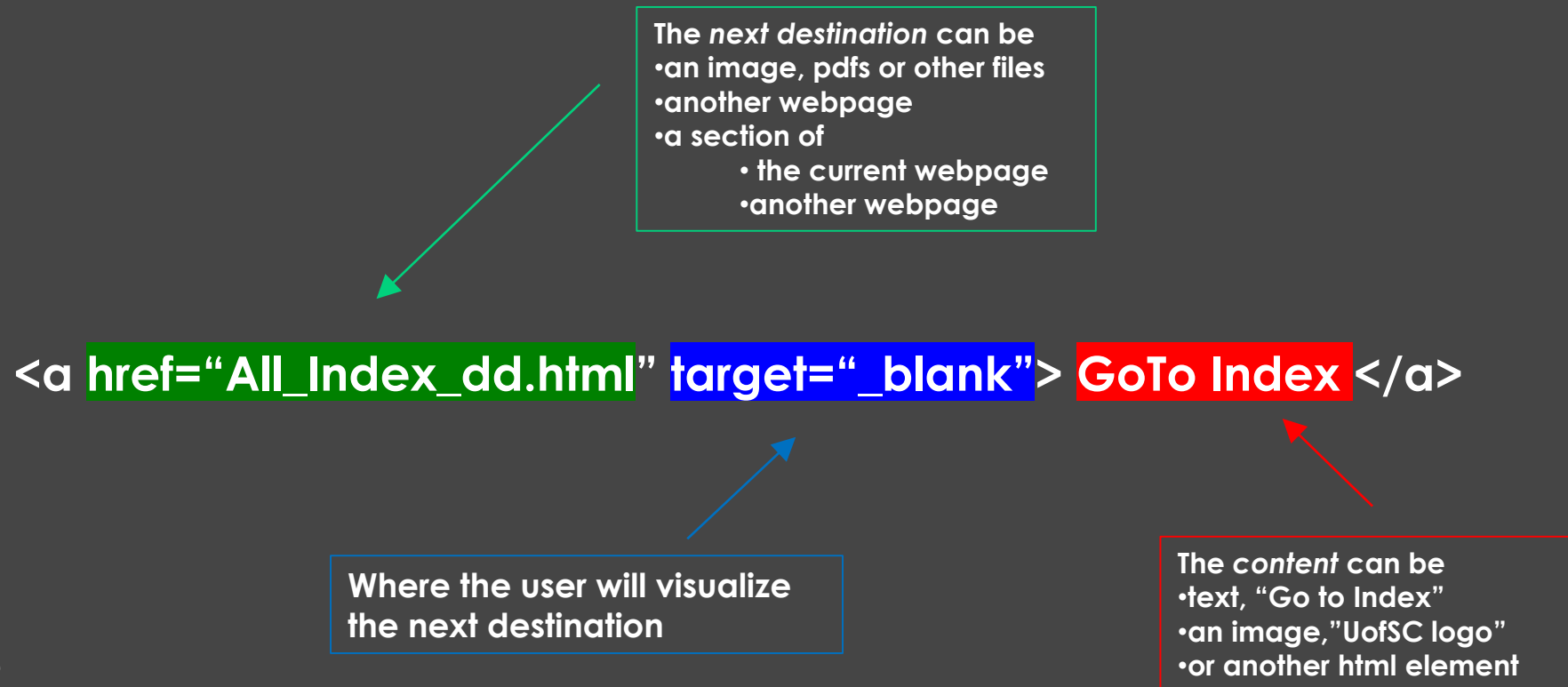
HREF –specifies the address of the destination link

- **Can link to another website**
  - href="https://sc.edu/"
  - href="All_102_submissions/All_index_dd.html/"
- **Can link to a section in this webpage or to another webpage.** Incorporates id element within the destination html element
  - href="All_102_submissions/lab_02_dd.html#links/"
  - href="#favorites/"
- **Can link to a picture**
  - href="All_102_submissions/happy_face.jpg/"

HREF-Jump to a section within the current webpage or another webpage

1. Create an **id** within the html element to jump to:
   a. <h1 **id**="links"> My favorite Links </h1>
   b. The **id** is chosen by you and is unique. **Id**'s cannot start with a number!

2. Now, reference this **id** within your anchor element.
   a. Go to My Links or
   b. Go to My Links

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TARGET –where to visualize the link

- **Default – opens in current tab overwriting current webpage or frame**
- **_blank –opens in a new tab or window**
- _top
- Iframe and _parent
- You should familiarize yourself with the different target values. Create a hyperlink to UofSC website and then modify target value and observe where the new webpage opens.

Filepaths: Absolute and Relative?

- Go to this demo to practice and review the differences between absolute filepaths and relative filepaths. You will see this frequently in lab.

  - W3 Schools File Path Demo

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LISTS in HTML5

- **List Container Elements**
  - Unordered List
  - Ordered List
  - Description List <dl></dl>

- The open and close tags indicate the start and end of the LIST structure

- **List content:**
  - **itemized** with the list item element <li> for **unordered lists**
  - **enumerated** with list item element <li> for **ordered lists**
  - **described** with term element <dt> and data element <dd> for **description lists**<dl>
  - **<li>** contains anchor tags, text, images and more
  - **<dd>** contains only text

- Nesting lists (list within a list) are only applicable to unordered lists and ordered lists. Nesting lists is similar to creating a multi-level outline.

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LISTS EXAMPLES

Ordered List

```
<h1>School Supplies</h1>
<ol><!--Start List-->
      <li>Paper</li>
      <li>Pencils</li>
      <li>Pens</li>
</ol><!--End List-->
```

Description List

```
<dl><!--Start List-->
      <dt>Vegetables</dt>
            <dd>kale</dd>
            <dd>asparagus</dd>
      <dt>Fruits</dt>
            <dd>blueberries</dd>
            <dd>bananas</dd>
</dl><!--End List-->
```

**Unordered List with hyperlinks: <a> contained within **

```
<ul> <!--Start List-->
      <li><a href="https://sc.edu" target="_blank"> go to sc dot edu</a></li>
      <li><a href="https://cse.sc.edu/~denisesd" target="_blank">goto 102</a></li>
</ul> <!--End List-->
```

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LISTS EXAMPLES

NESTING LISTS

4 lists or 4 leveled outline

GOTO DEMO OF LISTS

```
<h1>Nesting Lists</h1>
<ul> <!-- Start Main List-->
        <li>Gamecock Coaches
        <ul> <!—Start List 2 →
                <li> Basketball
                <ul> <!-- Start List 3-->
                        <li>Dawn Staley</li>
                        <li>Frank Martin</li>
                </ul> <!--End List 3-->
                </li> <!--Close Basketball-->
                <li> Baseball/Softball
                <ul> <!-- Start List 4-->
                        <li> Mark Kingston</li>
                        <li> Beverly Smith</li>
                </ul> <!--End List 4-->
                </li> <!--Close Baseball-->
        </ul> <!--End List 2-->
        </li> <!--Close Gamecock Coaches-->
</ul> <!--End Main List-->
```

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