Basic HTML:

- HTML consists of two components: text and tags
- Tags
 - · How to format and display webpages
 - · Creates an element on the page
 - · Constructed of two elements: core tag and additional attributes
- Text
 - · Content of the page
- Attributes
 - · Modifiers for a tag or object
 - · EX: href on an anchor tag

▼ HTML Skeleton

```
<html>
<head> //Contains the title of the page, and can link to Javascript
<title> Title of Page </title>

<style>
    //where CSS goes
</style>

</head>

<body>

//This is where we find all the body information

</body>
</html>
```

Common Tags

```
<strong> //Used to make text bolded
<em> //Used to emphasize text with italics
```

```
<br >br> //Creates a line break
<a> //An anchor tag that is used to create links between pages; needs an HREF to tell it where to go
<a href="test.html">Home</a>
<h1> <h2> <h3> <h4> <h5> <h6> //Used to create headings; <h1> is largest and boldest, <h6> is the opposite
<\!p> //Used to define a paragraph on a page, can also center with:
//inherently double space themselves
//cannot out block elements or other  inside them
<hr> //Used to create a horizontal line across the page; can set it's width:
<hr style = "width: 90%">
<img>: //Used to place images on a page; must also contain the src attributes
<img src="test.png">
//src - file name and path
//alt - alternate text for the image
//class or id - label for the image
Common CSS tags:
<width>
<height>
<border-width> //the width in pixels of the border around the image, with
0 being no border
<audio> //used to bring audio to a page; audio is embedded in sub tag
<audio autoplay="1" controls="1" loop="1"> <source type="audio/mpeg" src="song.mp3"></audio>
//autoplay
//controls
//loop
ul> and //creates an unordered list
ul>
Vords
```

Form Quicksheet

- Allows you to collect info from users for activities such as survey's and feedback pages
- · Can submit to a page but this requires scripting
- Form objects include:
 - Text boxes (input type="text")
 - checkboxes (input type="checkbox")
 - •
 - radio buttons (input type="radio" name="reuse" value="what appears"
 - can do multiple by keeping the name the same
 - textareas
 - <textarea name=box>
 - submit/reset buttons
 - <input type="submit" name="passed" value="what appears in box" >
 - <input type="reset" name="passed" value ="what appears in box">

- · image submit buttons
- hidden text boxes
- non-functional buttons (used for scripting)

```
<form method="post" action="/CGI-BIN/mailform.cgi">
//action: where is the form sent, who receives and processes it?
//method: Set to =get or =post depending on security concerns
<input type="text" style="width: 65px" maxlength:"5" name="ZipCode" placeholder="90089"/>
//input: core tag for soliciting input from consumer; ranges from textual
input to radio to check boxes; use name attribute for form processing
and JavaScript
<input type="text"> // basic type for getting text info only;
<input size=""> //defines the physical width of the box
<input maxlength=""> //defines the max number of characteristics the
user can input
<input value> //makes text already present in the field
<input name> //sets the name of the form for use in JavaScript
<input type="email" name="emailaddress"/> //textbox with basic
data validation
//requires an @ sign and data on either side
<input type="url" name="favoritesite"/> //textbox with required http:
<input type="tel" name="phone"> //textbox for phone #; some browsers don't
support data validation, so it would basically just be text
<input type="color"> //text box with color picker UI
<input type="date" and type="datetime"> //text box with date picker/calendar UI
<input type="number" min="10" max="100" value="20" step="5"> //text box with data validation for number
```

```
increment/decrement arrows
//can also set min and max values
//giving it a value gives it a default
//step sets up how much it increments on click
<input type="range"> //slider UI for number data; needs an output as
well, and scripting if you want the use to see the value
<input name="topspeed" type="range" id="rangeinput" value="65"onchange="slidedata.value=this.value"/>
<output name="slidedata"></output>
<input type="password"> //identical to type text except that letters
<input type="checkbox"> //creates a checkbox; values will either be
Yes or No depending on whether the user checks the box;
<input type="checkbox" checked="1"> //textbox starts checked
<input type="radio"> //radio buttons a user can select
//can only select one
//create multiple names by listing multiple lines with the same name
<input type="radio" name="animals" value="dog"/> Dog
<input type="radio" name="animals" value="cat"/> Cat
<input type="radio" name="animals" value="bird"/> Bird
<input type="reset" value="Start Over"> //creates a button that will clear all the contents
of the form if the user clicks it; lets them start over
<input type=submit value="Submit Survey"> //creates a submit button
that causes the form to be submitted when the user clicks it
//the value explains what is inside the button
<input type="image" src="button.gif"> //loads an image that when the user
clicks it the user clicks to submit the contents of the form
//need to provide an src tag
<input type="hidden"> The incarnation of the input tag is for passing
information along to the form processor; the user never sees the contents
```

```
of this tag, and is used wit the pair of name or value
<input type="button" value="Show Survey"> //main use of this tag is JavaScript
<textarea name="story" style="width: 400px; height:200px;"></textarea>
//creates a large, multi-lined areas of text input
//use rows and cols to define the textarea's physical dimensions
//other attributes include wrap, wihch defines how text wraps inside
the box
<select name="colors">
 <option value="red">Red</option>
 <option value="#000077" selected="1">Blue</option>
 <option value="#444444">Gray</option>
</select>
//creates a drop down menu; define an area by opening/closing the select
//each individual drop down item is created used option tags
//include selected="1" to set the default object
<input name="favsport" type="text" list="sports" id="favsport">
<datalist id="sports">
 <option value = "Hockey">
 <option value = "Baseball">
 <option value = "Fooseball">
</datalist>
//creates a drop down menu that you can type in, which can autocomplete
like a google search box
<input placeholder="user@usc.edu">
//puts a gray, placeholder text in the box, which disappears when a user
enters input
<input required="1">
//data validation that requires the user to fill out/pick a selection
<input title="Enter valid email address">
```

//sets an official title for an object; most often displayed as a

tool tip when hovering over an object

```
//also commonly used when an object fails a h5 data validation
```

```
pattern="\d{3} [\-] \d{4}"

//patterns give a regular expression to give a formula to compare data against

//the pattern will only validate if a user enters a phone number with dashes
```

```
<input autofocus="1">

//preselects the form object for the user, such as putting the cursor
there to start
```

File Folder Paths/References

```
<a href="images/pic2.jpg">
//goes from the folder it is saved in to the images folder and gets pic2.jpg

<a href="../classpage.html">
//goes from the folder it is saved in up a folder and finds classpage

<a href="/homepage.html">
//goes up to the highest folder and then starts looking for files
//would work well on a server but perhaps not on a laptop
```