MIS3690 WEB TECHNOLOGIES

BABSON COLLEGE
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BASICS OF JQUERY

WHAT IS JQUERY?

- A library (or collection) of JavaScript functions
 - Created using JavaScript
 - Functions that we typically write and pre-created for you
 - Must know how to refer to and use functions
 - It is open-source (free for developers and users)
- Where is this library?
 - Can download from : http://jquery.com/download/ and linked as a local file.
 - Other place to get it: <u>Github</u>
 - Can also be linked as a remote file (see template for how)

JQUERY SYNTAX

```
$(selector).action()
```

- action() is a jQuery function
- Selector a HTML tag
 - Defines the element that triggers the action ()
 - Also defines the element that is changed/manipulated by the action ()
- Examples of selectors:
 - "h1" applies the action to all h1 elements
 - "#one" applies the action to the element with id="one"
 - ".me" applies the action to the element with class="me"

JQUERY ACTION EXAMPLES

- Change all <h l> elements to have a Navy font
 - \$("h1").css ("color", "Navy");
- Add a border (3px, black, solid) to a paragraph with id "one"
 - \$("p#one").css ("border", "3px solid black");
- Change font color and font weight of all elements with the class "fcfw"
 - \$(".fcfw").css ({"color": "Navy", "font-weight" : "bold"});
 - Notice the use of the curly parenthesis within the regular parenthesis (only needed when multiple CSS definitions are defined in a single statement).
 - Notice the difference between the first example (where only one CSS definition was defined) and this example

DEFINING EVENTS WITH SELECTORS

Element that is changed by

the function

```
$ (Selector).event (function ()
                                                                         This does not change when
                                  // Actions here
                                                                         you write the actual code
                           } );
Element that triggers
the function
   Example: Change the text within a <h | > tag when the <button > element
   is clicked.
              $ ("button").click ( function ()
                  $("h|").text("New Text Here");
            });
```

DEFINING EVENTS WITH SELECTORS

```
$ (Selector).event ( function ()
{
     $(this).action()
    });
```

```
Example: Change the text within a <h I > tag when the <h I > element is clicked.

$ ("h I").click (function ()
{
$ (this).text("New Text Here");
});
```

In this example, we are interacting with an element <h1> and changing the same element <h1> . jQuery uses "this" selector to refer to the same element

A SHORT SAMPLE LIST OF SELECTORS

- \$("h1") selects all <hl> elements
- \$ ("#one") selects all elements with id = "one"
- \$(".two") selects all elements with class = "two"
- \$("p#one") selects all elements with id="one"
- \$("h1.two") selects all <hl> elements with class = "two"
- \$("p:first") selects the first element
- \$("ul li:first") selects the first element under the first element
- \$ ("*") selects ALL elements on the page (wild card)
- \$("[href]") selects all elements with the "href" attribute defined.
- \$("tr:even") selects even elements ("tr:odd" selects all odd elements)

SAMPLE JQUERY ACTION FUNCTIONS – THESE COME FROM THE LIBRARY

- .hide() Hide an element on the page
- .show() Unhide an element on the page
- .toggle() Hide/unhide toggle
- .fadeIn(speed) Unhide in slow motion
 - Speed options: "fast", "slow", # milliseconds
- .fadeOut (speed) Hide in slow motion
 - Speed options: "fast", "slow", # milliseconds
- .fadeTo(speed, opacity) unhide to some extent
 - Smaller the "opacity" number (between 0 and 1), the more faded it looks
- .alert("message") Same as for JS
- .css("property","value") Apply CSS to an element
 - Example: css("color", "blue")

NEXT WEEK

■ More examples on using jQuery.