

# OIM3690 - Web Technologies



# Intorduction to jQuery

# What is jQuery

- **jQuery** is a fast, small, and feature-rich JavaScript library.
  - It simplifies HTML document traversing, event handling, animating, and Ajax interactions.
  - **jQuery** is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications.
  - It is an open-source library and available on [GitHub](#)
- To use jQuery
  - It can be downloaded and included in a web page from [official website](#).
  - It can linked as a remote file via [Google CDN](#).
- Although **jQuery** has been widely used for many years, it is kind of outdated in modern web development.

# jQuery Syntax

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

- `action()` is a jQuery function that performs some operation on the selected element(s)
- `selector` specifies which element(s) to select
  - the **element** that **triggers** the **action**
  - also could be the **element** that is changed/manipulated by `action()`
  - Examples of selectors:
    - `"h1"` – **all** `h1` elements
    - `"#one"` – the element with `id="one"`
    - `".me"` – **all** the elements with `class="me"`

# jQuery Examples

- Change all `<h1>` 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 "nav"

```
$(".nav").css ({ "color": "Navy", "font-weight": "bold" });
```

# Defining Events with Selectors

- Syntax

```
$(selector).event(function ()  
{  
    // actions here  
});
```

- Example:

```
// change the text within a <h1> tag when <button> is clicked  
$("button").click(function ()  
{  
    $("h1").text("New Text Here");  
});
```

# jQuery Action Function Examples

- `.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"`, # of milliseconds
- `.fadeOut (speed)` – hide in *slow* motion
- `.fadeTo(speed, opacity)` – adjust the *opacity*
- `.css("property", "value")` – apply CSS to an element
  - e.g. `css("color", "blue")`



# Questions?

