Lecture 11: jQuery

ITP 303 Full-Stack Web Development

jQuery

What is jQuery and why use it?

- The most popular JavaScript **library**
- Makes things like DOM manipulation, event handling, animation, and AJAX much easier than vanilla JS
- Fixes many cross-browser issues
- A huge community around jQuery

Why *not* use it?

- As JavaScript and browsers improved, JavaScript can now do anything jQuery can do without much issue.
- Tends not to play well with current popular JS frameworks/libraries like Angular, Vue, etc.
- Performance - more libraries = longer load time
- http://youmightnotneedjquery.com/

In my opinion, jQuery is still worth knowing. Weigh the pros & cons and make your decision based upon your project specs.

Loading jQuery

Two methods:

1. Local File
2. Content Delivery Network (CDN)

```
<script src="jquery-3.3.1.min.js"></script>

<script src="http://code.jquery.com/jquery-3.3.1.min.js"></script>
```

Local File	CDN
Total control over the file.	File controlled by third party.
Browser caching relies on repeat visitors.	Browser caching leverages popularity.

jQuery Syntax

Two main components:

1. jQuery Object
2. jQuery Method

List of jQuery Methods: http://api.jquery.com/

```
$('CSS Selector').method();
```

A peek into what jQuery looks like

```javascript
// When a user clicks on an element with id "button"
$("#button").on("click", function() {
    // Change the element with id container's background to green
    $("#container").css("backgroundColor", "green");

    // Fade out all the img elements over one second
    $("img").fadeOut(1000, function() {
        // Remove img elements when fadeOut is done
        $(this).remove():
    });
});
```

jQuery `this` Keyword

Regular `this` keyword does <u>not</u> work with jQuery methods.

Only jQuery equivalent has access to jQuery methods: `$(this)`

```
this.innerHTML

this.html()        ✗

$(this).innerHTML  ✗

$(this).html()
```