Introduction to jQuery

CSE 264

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jQuery (core)

- JavaScript Library that greatly simplifies:
 - DOM manipulation, event handling, etc
 - Handling differences between browsers
- Easy to build plug-ins

jQueryUI

- Built on jQuery core
- Provides
 - Widgets
 - Effects
 - Themes

How to Load

- <script type="text/javascript" src="jquery-
 2.0.3.min.js"></script>
- Two versions
 - Development/Full version: jquery-2.0.3.js
 - Easy to read, understand, debug
 - Min version: jquery-2.0.3.min.js
 - Compact, quick to load

jQuery Function

- jQuery(/* selector */)
 - Returns jQuery "enhanced" object(s)
- \$(/* selector */)
 - Alias for jQuery()
 - Used all the time

Ready Event

- \$(function() {// initialization code});
- Enhanced version ofwindow.onload = function() { /* ... */ };

Selecting Elements

Element name

$$(p')$$
 – all p elements

Element id

```
$('#age') – the element with id="age"
```

CSS Class

\$('.odd') – all elements with class=''odd''

Selecting Elements (continued)

Attributes

- \$('[width]') all elements with a width attribute
- \$('img[width]') all images with a width element
- \$('img[width=100]') all images with a width of 100

Selecting Elements (continued)

Combinations

- \$('div p span') all span elements within p
 elements within div elements
- \$('div > p > span') all span elements that are children of p elements that are children of div elements
- \$('div, p, span') all div, p, and span elements

Traversing Elements

- each()
- first()
- last()
- prev()
- parent()
- children()
- siblings()

each()

```
$("#mydiv p").each(
    function(index, element) {
        $(element).css("color", "red")
    }
);
```

first()

\$("#mydiv p").first().css("color", "red");

CSS Manipulation

- Reading
 - var color = \$('myEle').css('color');
- Setting
 - \$('myEle').css('color', 'red');

DOM Manipulation

- text()
- html()
- val()
- attr()
- removeAttr()
- prepend()
- append()
- before()

- after()
- insertBefore()
- insertAfter()
- wrap()
- replaceWith()
- replaceAll()
- empty()
- clone()

DOM Element Data

- var myObject = { property : "value" };
- \$("#myEle").data("key", myObject);
- var myObject = \$("#myEle").data("key");

Events

- \$(document).ready()
- click()
- dblclick()
- mouseenter()
- mouseleave()
- mouseover()
- mouseout()
- mousedown()
- mouseup()

- mousemove()
- hover()
- toggle()
- focus()
- blur()
- keydown()
- keyup()
- keypress()

Effects

- show()
- hide()
- toggle()
- slideDown()
- slideUp()
- slideToggle()
- fadeIn()
- faceOut()

- fadeToggle()
- fadeTo()
- animate()