Get started

To embed jQuery in your project, download source code from https://jquery.com/download/ or include jQuery CDN in the head of html file.

Selectors $()

In addition to similar CSS selectors, jQuery selectors include:

- index selectors: :eq(index), :lt(index), :gt(index)
  $("li:lt(3)") /*Selects <li> elements with index 0, 1, 2*/
- content selectors: :contains(text), :has(selector), :empty, :parent

  $("p:contains(hello)") /*Selects <p> elements that contain text "hello"*/

  $("p:has(button)") /*Selects all <p> elements that contain <button>*/
- form selectors type(:button, :file, :input, etc)/status(:selected, :checked, :disabled, :enabled, :focus)
  $(":button") /*Select all <button> elements and elements of type button*/

Traversing $(selector).method([param])

In addition to methods shown in slides, jQuery traversal methods include:

- **Ancestors**
  - .closest(selector [, context])

    $("div#selected").closest("div") /*The closest <div> ancestor (including itself) of <div> element with id "selected".*/
  - .offsetParent()

    $("p").offsetParent() /*The closest ancestor of <p> elements that have a position attribute*/
- **Filtering**
  - .not(selector)
    $("p").not(".test") /*All <p> elements that do not have a class "test"*/
  - .slice(start_index [, end_index])
    $("li").slice(0, 3) /*The first three <li> elements*/
- **.**add(selector [, context])
  $("p").add("button") /*All <p> and <button> elements*/

CSS/HTML Manipulation

Structure Manipulation

Get	Update	Add	Remove
.text()	.text(new_text)	.append(content)	.remove(filter)
.html()	.html(new_html)	.prepend(content)	.detach(filter)
.val()	.val(new_val)	.after(content)	.empty()
.attr(attr_name)	.attr(attr_name, new_value)	.before(content)	.removeAttr(attr_name)
		.wrap(wrapper)	.unwrap()

Style Manipulation

Class	Style	Dimension (get or set)
.hasClass(class_name)	.css(property_name)	.width() .height(400)
.addClass(class_names) .addClass("first second")	.css(property_name, value)	.innerWidth() .innerHeight()
.removeClass(class_names)	.css(property_object) .css({backgroundColor:"red", ... })	.outerWidth() .outerHeight()
.toggleClass(class_names)		.outerWidth(true) .outerHeight(true)

Event & Animation

- jQ Event
  - Properties: .target / .pageX / .pageY / .which
  - Create an Event
    - var e = $.Event("click");   //Same as jQuery.Event("click")
    - var e = $.Event("keydown", {keyCode: 64})
  - Trigger an Event: $("body").trigger(e);
  - Add/Remove Listener
    - $("selector").eventName(function);
    - $("selector").on("eventName", function);
    - $("selector").off(["eventName", handler]);
    - eventName example: click, keypress, mouseenter
- Effect and Animation
  - Effect
    - e.g. $("selector").fadeIn([speed, callback]);
    - Toggle: If element currently shown, execute the effect to hide element; vise-versa
    - effect list: show/hide, fadeIn/fadeOut/fadeToggle/fadeTo, slideDown/slideUp/slideToggle
  - Animation
    - $("selector").animate({CSSparameters} [, speed, callback]);
    - Stop Animation: $("selector").stop([stopAll, goToEnd]);

AJAX

Helper	Core
$.get(url [,payload, success, dataType])	$.ajax({ url: "server/location" })
$.post(url [,payload, success, dataType])	$.ajax().done(function(data){ }) $.ajax().fail(function(xhr, status, error){ }) $.ajax().always(function(xhr, status){ })
$(selector).load(url [, payload, success])	