Bootstrap and JQuery

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Bootstrap and JavaScript

- Bootstrap's JavaScript support is through JS Plugins
 - Plugins written based on Jquery
 - Plugins can be individually included

Bootstrap and JavaScript



Bootstrap JS Components



JQuery



JavaScript

Bootstrap JS Components

- JS components can all be used without writing a single line of JavaScript:
 - data-* attributes (e.g., data-toggle, data-spy)
 - Straightforward approach to use plugins
 - We will explore this approach in this module
- Full JS API available if needed
 - Need to know JQuery syntax and JavaScript

JQuery

- Lightweight Javascript library
- Feature-rich:
 - HTML/DOM manipulation
 - CSS manipulation
 - HTML Event methods
 - Effects and animations
 - AJAX
- Bootstrap JS components build upon JQuery

JQuery Syntax

- \$(selector).action()
 - \$: define/access JQuery
 - (selector): to query and find HTML elements
 - action(): action to be performed on the element(s)
 - e.g., \$("p").hide(), \$("#mycarousel").carousel('pause')

Bootstrap JQuery Example

```
<script>
  $(document).ready(function(){
     $('[data-toggle="tooltip"]').tooltip();
   });
</script>
```

JQuery Selectors

- Any HTML element e.g., "p", "button" etc.
- Using an #id, e.g., "#myCarousel"
- Class, e.g., ".btn", ".btn.btn-default"
- Attribute, e.g., "[href]", "[data-toggle="tooltip"]"
- Current element: \$(this).
- And a lot more . . .

JQuery Events

- User's interactions on a web page causing DOM events:
 - Mouse: click, dblclick, mouseenter, mouseleave
 - Keyboard: keypress, keydown, keyup
 - Form: submit, change, focus, blur
 - Document, Window: load, resize, scroll, unload
- JQuery Event Methods: e.g., ready(), click(), dblclick(), mousedown(), on()

Example: Bootstrap Carousel

- Data Attributes
 - data-slide="prev|next"
 - data-slide-to="0|1|2|..."
 - data-ride="carousel"
 - data-interval=5000

Example: Carousel

JavaScript based control:

```
- $('.carousel').carousel();- e.g.$('.carousel').carousel({ interval:2000});
```

Example: Carousel

Other controls:

- .carousel('cycle'): cycle items left to right
- .carousel('pause'): stops the carousel
- .carousel(number): cycles the carousel to a particular frame number specified
- .carousel('prev'): previous item
- .carousel('next'): next item

Example: Carousel

Events:

- slide.bs.carousel: fires when the slide instance method is invoked
- slid.bs.carousel: fired when the carousel has completed its slides transition

```
— Use with the .on() method:
$("#myCarousel").on('slide.bs.carousel', function() {
    // do something
  })
```

Exercise: Bootstrap and JQuery

- Add two buttons to the Carousel to pause/ resume the slide transition
- Activate the buttons using JavaScript