Module 3 Day 13

Vue Event Handling

Vue Components – JS Properties

- data()
  - Function that returns an object that contains the component's "properties"
- computed:
  - An object full of functions that return computed values and then are treated as property getters on the component
- props:
  - An object with properties for data that is passed in from the "parent" component when created
- methods:
  - An object full of functions to be treated as methods on the component

Let's Code

Event Handling (v-on)

- v-on:*event-name*="*methodCode*"
- Shortcut is
  - @*event-name*="*methodCode*"
  - Incidentally, shortcut for v-bind is ":". E.g.,
    - :class="{'completed' : completed}"
- Modifiers
  - Keyboard events: handle only a special key
    - v-on:keyup.esc="*handleEscapeKey*"
    - .enter, .tab, .esc, .delete, .space, .up, .down, .left, .right
  - Mouse event: handle only click or right-click
    - v-on:click.right="*showContextMenu*"
    - .left, .middle, .right
- More modifiers at https://vuejs.org/v2/guide/events.html#Event-Modifiers
- Key codes: https://developer.mozilla.org/en-US/docs/Web/API/KeyboardEvent/key/Key_Values

v-on Method Calls

- Inline code
  - v-on:click="console.log('Clicked!')"

- Method name
  - v-on:click="handleClick"
  - Method handleClick called, and the event object passed in implicitly

- Method invoke (call)
  - v-on:click="handleClick('message', parameter2, $event)"
  - $event is a special variable that holds the Event object

Let's Code

Even more v-on modifiers

- .prevent
  - Same as calling event.preventDefault() in the event handler
  - Prevents the default behavior (e.g., for form submit or click on an anchor tag)
- .stop
  - Same as calling event.stopPropagation() in the event handler
  - Stops "bubbling" an event to each successive parent for handling
- .once
  - Un-registers the event handler after the event has been handled one time
  - Maybe a submit button after a post?

Let's
Code

Conditional Display

- v-if: completely removes the element (and its children) from the DOM
  - v-else-if
  - v-else

- v-show: Changes the display: attribute and leaves the element in the DOM

Generally speaking, v-if has higher toggle costs while v-show has higher initial render costs. So prefer v-show if you need to toggle something very often, and prefer v-if if the condition is unlikely to change at runtime. -
https://vuejs.org/v2/guide/conditional.html

Let's Code