



Module 4 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



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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



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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?



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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>



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