Module 4-10

VUE Methods
VUE Event Handling

VUE Methods

Before tackling handlers we will introduce one more tool to our repertoire, the VUE method.

 A VUE method is similar to a function or method in other languages - they are called when needed, optionally taking in parameters and providing some kind of output.

 Just like with the computed section, the methods section is comprised of JavaScript, thus should be part of the script section in a VUE component.

VUE Methods vs Computed Properties

Methods and Computed properties were designed for different purposes.

- You use a computed property, to generate "derived data" in which your output is based on the data in your JSON data model.
 - Computed values are cached once encountered.

- You use a method when you want a tool that resembles a functions in other languages.
 - Methods are executed only when called.

Defining VUE Methods

VUE methods go into their own section, they are a peer of the data and computed section.

```
<script>
export default {
    name: "product-review",
    data() {
    computed: {
    methods: {
      //your methods go here
</script>
```

Defining VUE Methods

VUE methods are defined in a similar fashion as computed properties, with successive methods split by a comma:

```
methods:
    numberOfReviews(reviews, starType) {
        return reviews.reduce( (currentCount, review ) => {
            return currentCount + ( review.rating === starType ? 1 : 0);
        1, 0);
    },
    addNewReview() {
        this.reviews.unshift(this.newReview);
        this.resetForm();
    },
    resetForm() {
        this.showForm = false:
        this.newReview = {};
```

- Here we have three distinct methods being defined.
- The first method shows that a method can take on parameters and return a value.

Calling VUE Methods

VUE methods work flexibly and can be called in the following contexts:

Within a v-on directive in the template section (more on this later)

 By a computed property: When we do this, the computed property needs to take a parameter called "vm" which stands for the current VUE instance: i.e. vm.myMethod();

By another function.

Let's Create Some Methods

Event Handling Review

 Recall that a few lectures ago we added event listeners to DOM elements so that certain actions might be taken in response to events that take place on the web page.

The VUE framework provides a directive to facilitate this.

The **v-on** directive

• The v-on directive takes on the following pattern:

```
v-on: <<event>>= '<<action to take>>'
```

Here are some examples:

Here we saying: when the user clicks on the span, set the JSON data property to 0.

```
<span class="amount" v-on:click="filter = 0">{{ averageRating }}</span>
```

Here we saying: when the user submits the form, call the method addNewReivew

```
<form v-if="showForm === true" v-on:submit.prevent="addNewReview">
```

Event modifiers: prevent

 The v-on directive can be modified with a prevent keyword, which prevents the default behavior of a HTML element from executing:

```
<form v-if="showForm === true" v-on:submit.prevent="addNewReview">
```

Note that on the previous example we are overriding the default behavior of the form submission, and instead choosing to handle the scenario ourselves with our own method.

Event Modifiers: stop

• The v-on directive can be modified with a stop keyword, disabling event bubbling up the DOM.

Let's Implement Some Event Handlers