Vue Methods
&
Event Handlers

Vue Methods

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

- Just like the `computed` section, the `methods` section is JavaScript and goes inside the `<script>` section.

Vue Methods vs. Computed Properties

- Computed properties:

  - They return values based on your component's internal data (they are derived).

  - They are cached. If the value isn't different every time computed properties are a better choice.

- Methods are executed only when called and can execute code based on input parameters

Example of Adding the methods Section

```
<script>
export default {
    data() {
        // data
    },
    computed: {
        // computed properties
    },
    methods: {
        // methods
    }

}
</script>
```
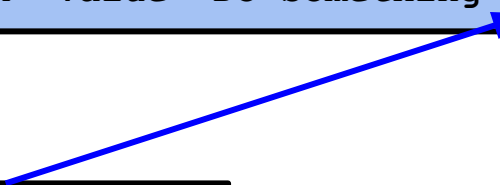
The v-on Directive

- The **v-on:** directive acts similarly to an eventListener in vanilla JavaScript

- You specify the event that you want an element to respond to using the **v-on:** syntax:

```
<input type="button" value="Do Something" v-on:click="handleButtonClick" />
```

v-on: for click event

handleButtonClick() method will be called when a click event occurs.

The v-on Directive

- You can pass the actual event to a method called by `v-on:` by passing `$event` as a parameter to the method.

```
<input type="button" value="Do Something"
   v-on:click="handleButtonClick($event)" />
```

The v-on:keyup Directive

- **`v-on:keyup`** can be used to listen for a key
  - `v-on:keyup.enter="processEnterKey"`
- Can listen for:
  - `.enter`
  - `.tab`
  - `.delete` (captures both "Delete" and "Backspace" keys)
  - `.esc`
  - `.space`
  - `.up`
  - `.down`
  - `.left`
  - `.right`
- Can listen for a specific key by using its ASCII code.
  - `v-on:keyup.74="handleJ"`

PREVENT AND STOP

- The `v-on:` directive can be modified to add the preventDefault and stopPropagation behaviors:

    - `v-on:submit.prevent="doFormSubmit"`

    - `v-on:submit.stop="doFormSubmit"`

    - Can be chained:

        - `v-on:submit.stop.prevent="doFormSubmit"`

V-SHOW VS. V-IF

- **v-show** can be used to show/hide element

  - **v-show="isSelected"** will show element if **isSelected** is **true**, hide otherwise

- **v-if** can be used to include/remove element in/from DOM

  - **v-if="isSelected"** will include element in DOM if **isSelected** is **true**, will remove otherwise.