# Lab: Methods, Computed Properties and Watchers

## Popup date

Make a button that when you press it appears date now.

### Code

|  |  |  |
| --- | --- | --- |
| **HTML** | **JS** | **CSS** |
| <div id="app">  <button @click="hitme">Hit me</button>  <p>{{ message }}</p>  </div> | new Vue({  el: '#app',  data() {  return {  message: null  }  },  methods: {  hitme() {  this.message = Date()  }  }  }) | #app {  margin: 50px;  } |

## Players list

Make a list with players.

### Code

|  |  |  |
| --- | --- | --- |
| **HTML** | **JS** | **CSS** |
| <div id="app">  <h1>Players</h1>  <ul>  <li v-for="name in names">  {{ name }}  </li>  </ul>  </div> | new Vue({  el: '#app',  data() {  return {  names: [  'John Snqg',  'Evan Jones',  'Rachel Looper',  'Dan Rendle',  'Nicole Susane' ]  }  }  }) | body {    display: flex;  justify-content: center;  }  h1 {  text-align: center;  } |

## Players list - Expansion

Make a list with players and filter them while typing using computed property.

### Example buttons

|  |  |  |
| --- | --- | --- |
| **HTML** | **JS** | **CSS** |
| <div id="app">  <h1>Players</h1>    <div class="sorting">  <label for="filtername">Find your player:</label>  <input v-model="findName" id="filtername" type="text" />  </div>    <ul>  <li v-for="name in filteredNames">  {{ name }}  </li>  </ul>  </div> | new Vue({  el: '#app',  data() {  return {  findName: '',  names: [  'John Snqg',  'Evan Jones',  'Rachel Looper',  'Dan Rendle',  'Nicole Susane'  ]  }  },  computed: {  filteredNames() {  let filter = new RegExp(this.findName, 'i')  return this.names.filter(el => el.match(filter))  }  }  }) | body {  display: flex;  justify-content: center;  }  h1 {  text-align: center;  } |

## Measuring units converter

Make a calculator which converts kilometers into centimeters and millimeters with watcher.

|  |  |  |
| --- | --- | --- |
| **HTML** | **JS** | **CSS** |
| <body>  <div id="app">  <label>km: <input type="text" v-model="km2"></label><br/>  <label>cm: <input type="text" v-model="cm"></label><br/>  <label>mm: <input type="text" v-model="mm"></label><br/>  </div>  </body> | new Vue({  el: '#app',  data: {  km2: 0,  cm: 0,  mm: 0  },  watch: {  km2: function(val){  this.km2 = val;  this.cm = val \* 100000;  this.mm = val \* 1000000;  },  cm: function(val){  this.km2 = val / 100000;  this.cm = val;  this.mm = val \* 10;  },  mm: function(val){  this.km2 = val / 1000000;  this.cm = val / 10;  this.mm = val;  },  }  }); | label { display: block; margin: 0 0 1em 0; } |

## Searching…

Make a search box and when you search something set delay until the result appears. The result does not have to be right.

### Code

|  |  |
| --- | --- |
| **HTML** | **JS** |
| <div id="app">  <input type="text" v-model="searchQuery">    <p v-if="isSearching">Searching...</p>  <div v-else>  <ol>  <li v-for="result in results">{{ result }}</li>  </ol>  </div>  </div> | new Vue({  el: '#app',  data: {  searchQuery: '',  results: [],  isSearching: false  },  watch: {  searchQuery: function(query) {  this.isSearching = true;  var vm = this;    setTimeout(function() {  vm.results = ['SoftUni', 'Vue.js', 'JavaScript'];  vm.isSearching = false;  }, 500);  }  }  }); |