

My cheat sheet for vue.js most basic stuff <https://boussadjra.github.io/vue-cheat-sheet/>

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dekadentno Merge pull request #1 from serdariset/patch-1 ...

on May 30 112

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README.md

vue-cheat-sheet

My cheat sheet for vue.js most basic stuff. The goal wasn't to make another [Vue documentation](#), because the official one is already badass. Big thank you to [boussadjra](#) for making this cheat sheet available as a [website](#)

Contributions and PRs are very welcome.

"You must type each of these exercises in, manually. If you copy and paste, you might as well not even do them. The point of these exercises is to train your hands, your brain, and your mind in how to read, write, and see code. If you copy-paste, you are cheating yourself out of the effectiveness of the lessons." - Zed A.

Sources:

- [iamshaunjp](#)
- [Vue.js official guide](#)

Useful Chrome extensions:

- [Vue Devtools](#)
- [JSON Formatter](#)

Stuff that might get handy in almost every Vue.js project:

- [Auth restrictions](#)
- [Vue reactivity](#)
- [Improve Vuex performance](#)

Basic HTML and JS

```
<html>
  <head>
    <meta charset="utf8">
    <title>VueJS example</title>
    <link href="style.css" rel="stylesheet" />
    <script src="https://cdn.jsdelivr.net/npm/vue"></script>
  </head>

  <body>
    <div id="vue-app">
      <p> {{ hello() }} </p>
      <p> {{ name }} </p>
      <p> {{ age + 1 }} </p>
      <p> {{ age < 18 ? "Youngster" : "Adult"}} </p>
    </div>

    <script src="app.js"></script>
  </body>
</html>
```

```
new Vue({
  el: '#vue-app', // controled element

  data: {
    name: "Matej",
    age: 27,
    sleepy: true
  },

  methods: {
    hello: function () {
      return "Hello";
    }
  }
})
```

```
        },  
        computed: {}  
      }  
    });
```

HTML directives

Show / hide div

Hides the element (display none), doesn't delete it

where *available* is a boolean variable in the js

```
<div v-show="available">Stuff</div>
```

Toggle show / hide div

where *available* is a boolean variable in the js

```
<div v-show="available = !available">Stuff</div>
```

Render div

Deletes the element, doesn't hide it

where *available* is a boolean variable in the js

```
<div v-if="available">Stuff</div>  
<div v-else>Smth else</div>
```

Looping

array of strings

Remember to check if the element exists with v-if before looping over it

```
<ul>  
  <li v-for="(element, index) in elements">{{index}} {{element}}</li>  
</ul>
```

array of objects

```
<ul v-if="employee">
  <li v-for="employee in employees">{{employee.name}} - {{employee.age}}</li>
</ul>
```

nested arrays

```
<table>
  <tr>
    <th>Amount</th>
    <th>Asset</th>
    <th>Created</th>
  </tr>
  <template v-for="u in users">
    <tr v-for="t in u.transfers">>
      <td>{{ t.amount }}</td>
      <td>{{ t.asset }}</td>
      <td>{{ t.timestamp }}</td>>
    </tr>
  </template>
</table>
```

variables in v-for

```
<li v-for="id in users" :key="id" :set="item = getUserData(id)">
  <br />
  {{ item.name }}<br />
  {{ item.homepage }}
</li>
```

Set text for element from a variable *name*

```
<span v-text="name"></span>
```

Set html for element from a variable *name*

```
<span v-html="name"></span>
```

Two way data binding

```
<input v-model="name" type="text" />
<p>My name is: {{name}}</p>
```

```
...
data:{
  name: ""
}
...
```

Computed properties

Computed properties are cached, and only re-computed on reactive dependency changes. Note that if a certain dependency is out of the instance's scope (i.e. not reactive), the computed property will not be updated. In other words, imagine a computed property as a method (but it's not really a method) in the `data()` that always returns a value. That "method" will be called whenever a property (variable from `data()`) used in that method is changed.

```
<html>
<head>
  <meta charset="utf8">
  <title>VueJS example</title>
  <script src="https://cdn.jsdelivr.net/npm/vue"></script>
</head>

<body>
<div id="vue-app">
  <button v-on:click="a++">Counter 1++</button>
  <button v-on:click="a--">Counter 1--</button>
  <button v-on:click="b++">Counter 2++</button>
  <p>Counter 1: {{ a }}</p>
  <p>Counter 2: {{ b }}</p>
  <!--The result() method is invoked whenever the Counter 1 button is clicked or t
  <!--The output() method is invoked only when the Counter 2 button is clicked-->
  <p>Result: {{ result() }} | {{ output() }}</p>

</div>

<script src="main.js"></script>
</body>
</html>
```

```

new Vue({
  el: '#vue-app',
  data: {
    a: 0,
    b: 0
  },
  methods: {
    result: function () {
      // this function is not interested in the "b" variable, yet it runs ever
      console.log("methods");
      return this.a < 0 ? "Negative" : "Positive";
    }
  },
  computed: {
    // these methods are invoked like attributes, without ()
    // this method runs only when the "a" variable is changed
    output: function () {
      console.log("computed");
      return this.a < 0 ? "Negative" : "Positive";
    }
  }
});

```



Computed property methods can also have getters and setters

```

var vm = new Vue({
  data: { a: 1 },
  computed: {
    // get only
    aDouble: function () {
      return this.a * 2
    },
    // both get and set
    aPlus: {
      get: function () {
        return this.a + 1
      },
      set: function (v) {
        this.a = v - 1
      }
    }
  }
})
vm.aPlus // => 2
vm.aPlus = 3

```

```
vm.a // => 2
vm.aDouble // => 4
```

HTML properties and classes

```
<p v-bind:style="{ property: value }">...</p>
```

this div will have the *red* class if the *userFound* variable is set to *true*

```
<div v-bind:class="{ red: userFound }">...</div>
```

this div will have the *red* class if the *isAdmin* variable is set to *true*

```
<div :class="[isAdmin ? 'red' : 'blue']">...</div>
```

Events

Call *method* on click event

where *method* is a custom method in the js

```
<button v-on:click="method">Add</button>
```

or shorthand

where *method* is a custom method in the js

```
<button @click="method">Add</button>
```

method is called when ALT+ENTER is pressed

```
<input ref="name" v-on:keyup.alt.enter="method" type="text" />
```

Conditional event binding (as of Vue 2.6)

The method `sendMoney` will be called only if the condition `amount > 0` has been met.

```
<button @click="amount > 0 && sendMoney()">Send money</button>
```

Custom events

```
// fire custom event
this.$emit("eventName", data);

<!--
$event == event data
when _eventName_ event happens, call _functionName_ function
-->
<p v-on:eventName="functionName($event)"></p>
```

Event bus

communicate between child components without the parent component

consider using Vuex instead

```
// main.js
// create new event bus
export const bus = new Vue();

// Header.vue
import {bus} from "../main";

// Footer.vue
import {bus} from "../main";

// listen to bus event in first component
// usually in .created() function
bus.$on("eventName", (data) => {
  // callback
  // use data
})
```



```
// fire bus event in second component
bus.$emit("eventName", data);
```

Components

reusable inside the html

```
<div id="app">
  <!-- <component is="signature"></component> -->
  <signature></signature>
  <signature></signature>
</div>
```

```
// global registration
Vue.component('signature', {
  template: '<p>Regards. Matej.</p>'
});
```

.vue components and props

Props - passing data from parent component to child component

```
<!--App.vue-->
<template>

<div>
  <app-header></app-header>
  <app-ninjas v-bind:ninjas="ninjas"></app-ninjas>
  <app-footer></app-footer>
</div>

</template>

<script>
  // import
  import Header from './components/Header.vue';
  import Footer from './components/Footer.vue';
  import Ninjas from './components/Ninjas.vue';
  export default {
    // register components
    components:{
      // added app- prefix
```

```

    // because header and footer tags already exist
    "app-header": Header,
    "app-footer": Footer,
    "app-ninjas": Ninjas
  },

  data () {
    return {
      ninjas:[
        {name: "ninja1", speciality: "vuejs", show: false},
        {name: "ninja2", speciality: "nodejs", show: false},
        {name: "ninja3", speciality: "react", show: false},
        {name: "ninja4", speciality: "js", show: false},
        {name: "ninja5", speciality: "css3", show: false},
        {name: "ninja6", speciality: "ps", show: false}
      ]
    }
  }
}

</script>

<!--Ninjas.vue-->
<template>
<div id="ninjas">
  <ul>
    <li v-for="ninja in ninjas" v-on:click="ninja.show = !ninja.show">
      <h2>{{ninja.name}}</h2>
      <h3 v-show="ninja.show">{{ninja.speciality}}</h3>
    </li>
  </ul>
</div>

</template>

<script>

export default {
  // what is it receiving
  props: ["ninjas"],

  data: function () {
    return {

    }
  }
}

```

```
}

</script>

<!--Header.vue-->
<template>
  <header>
    <h1>{{title}}</h1>
  </header>
</template>

<script>

  export default {

    data: function () {
      return {
        title: "Welcome!"
      }
    }

  }

</script>

<!--Footer.vue-->
<template>
<footer>
  <p>{{copyright}}</p>
</footer>

</template>

<script>

  export default {

    data: function () {
      return {
        copyright: "Copyright 2017 "
      }
    }

  }

}
```

```
</script>
```

Validate props

```
export default {
  props: {
    ninjas: {
      type: Array,
      required: true
    }
  }
}
```

Filters

Change the output data to the browser. They do not change the data directly.

```
<h1>{{title | to-uppercase}}</h1>
```

```
// main.js
Vue.filter("to-uppercase", function ( value ) {
  return value.toUpperCase();
});
```

Mixins

Reuse some piece of code (or function) so that it doesn't need to be written in more separate files.

References

An object of DOM elements and component instances

```
<input ref="name" type="text" />
```

```
var name = this.$refs.name;
```

Dynamic components

dynamically change component based on variable *component* value remember to use *keep-alive* tag to remember data from the destroyed component

```
<template>

<div>
  <component v-bind:is="componentName"></component>
</div>

</template>

import formOne from "../components/formOne.vue";
import formTwo from "../components/formTwo.vue";

...
data: function() {
  return {
    component: "form-two"
  }
}
```

Vue CLI

make new project

```
$ vue init webpack-simple my-project
$ cd project-name
```

install dependencies and start local server

```
$ npm install
$ npm run dev
```

build app for production

this will make a dist folder with minified js

```
$ npm run build
```

Vue lifecycle

- new Vue();
- .beforeCreate();
- .created();
- .beforeMount();
- .updated();
- .beforeUpdate();
- .beforeDestroy();
- .destroyed();

Checkboxes

with v-model, the *categories* array will be appended with the values

```
<div>
  <label for="">Newsletters</label>
  <input type="checkbox" value="newsletter" v-model="categories">
  <label for="">New posts</label>
  <input type="checkbox" value="post" v-model="categories">
  <label for="">New DMs</label>
  <input type="checkbox" value="dm" v-model="categories">
  <label for="">New pokes</label>
  <input type="checkbox" value="pokes" v-model="categories">
</div>

data: function () {
  categories: []
}
```

Select box binding

hardcoded and looped select

```
<div>
  <select v-model="town">
    <option value="osijek">Osijek</option>
```

```

      <option value="zagreb">Zagreb</option>
      <option value="varazdin">Varazdin</option>
    </select>

    <select v-model="town">
      <option v-for="t in towns">{{ t }}</option>
    </select>
  </div>

  data: function () {
    town: "",
    towns: ["Zagreb", "Osijek", "Varazdin", "Split", "Rijeka", "Dubrovnik"]
  }

```

POST requests with vue-resource

Important: if sending nested objects, be sure to JSON.stringify first!

Register it in main.js

```

import VueResource from 'vue-resource'

Vue.use(VueResource);

```

Usage in custom function

```

post: function () {
  this.$http.post("http://localhost:3000/users", {
    title: this.blog.title,
    body: this.blog.body,
    userId: 1
  }).then( res => {
    // promise
    console.log("Response: ", res);
  }, error => {
    console.log("Error: ", error);
  });
}

```

GET requests

Usage in custom function

```
post: function () {
    this.$http.get("http://localhost:3000/users").then( function ( res ){
        // promise
        console.log("Response: ", res)
    });
}
```

Routes with vue-router

```
// router.js
import login from "./components/login.vue";
import registration from "./components/Registration.vue";
import user from "./components/user.vue";

// main.js
import VueRouter from 'vue-router';
import { routes } from "./routes";
Vue.use(VueRouter);

const router = new VueRouter({
    routes
});

new Vue({
    el: '#app',
    router: router,
    render: h => h(App)
})

// routes.js
import Login from "./components/Login.vue";
import Registration from "./components/Registration.vue";
import User from "./components/User.vue";

export const routes = [
    { path: "", component: Login },
    { path: "/registration", component: Registration },
    { path: "/users/", component: Users, children: [
        { path: "", component: UserStart },
        { path: ":id", component: UserDetail },
        { path: ":id/edit", component: UserEdit }
    ]
    }
```



```

] },
  {path: "*", redirect: "/"} // handle all uncovered routes
]

```

mark the place with router-view where the component of the currently active route will be loaded

```

<template>
  <router-view></router-view>
</template>

```

handling route parameters

```

<!-- user.vue -->
<template>
  <div id="user">
    <h1></h1>
    <div></div>
  </div>
</template>
<script>

  export default {
    data: function () {
      return {
        id: this.$route.params.id,
        user: {}
      }
    },

    created(){
      this.$http.get("http://url/user/" + this.id).then(function(res){
        this.user = res.body;
      });
    }
  }
</script>

```

navigating around

```

<ul class="nav">
  <router-link to="/" tag="li" active-class="active" exact><a>Home</a></router>
  <router-link to="/users" tag="li" active-class="active" ><a>Users</a></route>
</ul>

```

dynamically route over user details

```
<router-link v-bind:to='"/user/" + user.id' tag="li" v-for="(user, index) in users">
```

navigate home

```
this.$router.push({ path: "/home"});
```

watch for route changes

```
watch: {
  "$route": function (to, form){
    this.id = to.params.id
  }
}
```

watch if object is changed

```
watch: {
  picked: {
    handler(val, oldVal) {
      console.log('changed: ', oldVal);
      console.log('new: ', val);
    },
    deep: true,
    immediate: true
  }
}
```

auth restrictions

To not let someone access e.g. /dashboard if the user is not logged in.

```
// add requiresAuth to certain components
export const routes = [
  { path: "", component: Login },
```

```

    { path: "/dashboard", component: Dashboard, meta: {requiresAuth: true} }
  ];

  // configure vue-router
  // important: do not turn on history mode
  const router = new VueRouter({
    routes,
    // mode: "history"
  })

  router.beforeEach((to, from, next) => {
    if (to.matched.some(record => record.meta.requiresAuth)) {
      if ( CHECK_FOR_USER_IN_LOCALSTORAGE_ETC ) {
        // handle restricted access
        next({
          path: '/login',
        });
      } else {
        next();
      }
    } else {
      // do nothing with components without meta: {requiresAuth: true}
      next();
    }
  })
})

```

table search + sort

multiple column search

```

<!--input field for search query-->
<input type="text" v-model="searchQuery" placeholder="Search...">
<!--loop like this, instead of classic for user in users-->
<tr v-for="user in filterUsers">

  // users array and search query variable
  data: function () {
    return {
      searchQuery: "",
      users: []
    };
  },
  ...

```

```

// computed method for filtering users by
// email, last name and first name
computed: {
  filterUsers () {
    return this.users.filter(user => {
      return (user.email.toLowerCase().indexOf(this.searchQuery.toLowerCase()
        user.lastName.toLowerCase().indexOf(this.searchQuery.toLowerCase()
        user.firstName.toLowerCase().indexOf(this.searchQuery.toLowerCase()
      })
    })
  }
}

```



sort columns asc and desc

```

// add needed variables
data: function () {
  return {
    ascending: false,
    sortColumn: '',
    users: [],
  };
},
methods: {
  // sort method
  "sortTable": function sortTable ( col ) {
    if ( this.sortColumn === col ) {
      this.ascending = !this.ascending;
    } else {
      this.ascending = true;
      this.sortColumn = col;
    }

    let ascending = this.ascending;

    this.users.sort(function ( a, b ) {
      if ( a[col] >= b[col] ) {
        return ascending ? 1 : -1
      } else if ( a[col] < b[col] ) {
        return ascending ? -1 : 1
      }
      return 0;
    })
  }
}

```

```

<!--call sortTable method on column with corresponding property in users object-->
<tr>
  <th @click="sortTable('email')">Username</th>
  <th @click="sortTable('firstName')">First Name</th>
  <th @click="sortTable('lastName')">Last Name</th>
  <th @click="sortTable('address')">Address</th>
  <th>Phone number</th>
</tr>

```

Search + filters + sort

```

searchVideos() {
  let filtered = this.videos;
  // search by keyword
  if (this.filters.searchQuery) {
    filtered = this.videos.filter(
      v => v.title.toLowerCase().indexOf(this.filters.searchQuery) > -1
    );
  }
  // filter by date range
  if (this.filters.startDate && this.filters.endDate) {
    filtered = filtered.filter(v => {
      var time = new Date(v.created_at).getTime();
      return (new Date(this.filters.startDate).getTime() < time && time < new Date(this.filters.endDate).getTime());
    });
  }
  // filter by property value
  if (this.filters.filterVal) {
    if (this.filters.filterVal === 'female') {
      filtered = filtered.filter(
        v => v.gender === this.filters.filterVal
      );
    }
  }
  // sort by property
  if (this.filters.sortValue === 'most_popular') {
    filtered.sort(function(a, b) { return a.views - b.views; });
  }
  return filtered;
}

```

async await

An `async` function returns a promise. When you want to call this function you prepend `await`, and the calling code will stop until the promise is resolved or rejected.

```
// example
const doSomethingAsync = () => {
  return new Promise((resolve) => {
    setTimeout(() => resolve('I did something'), 3000)
  })
}

const doSomething = async () => {
  console.log(await doSomethingAsync())
  console.log('I did something again!')
}

doSomething()
// result:
// I did something!
// I did something again!
```

async await with fetch in vuex

```
// example
import Vue from 'vue'
import Vuex from 'vuex'

Vue.use(Vuex)

export default new Vuex.Store({
  state: {
    data: null
  },
  mutations: {
    setData: (state, payload) => {
      state.resource = payload
    }
  },
  actions: {
    async getData({ commit }) {
      let res = null
      try {
        res = await fetch(
          'https://api.coindesk.com/v1/bpi/currentprice.json'
        )
      } catch (err) {
```

```

        console.log('err: ', err)
        return
    }

    // Handle success
    console.log('waiting for data...');
    const data = await res.json()
    console.log('data: ', data)
    commit('setData', data)
  }
}
})

```

import config file

```

// config.js
// example config file
var apiPort = 5566;
var currHost = window.location.protocol + '//' + window.location.hostname + ':' + ap
var url = window.location.host !== 'localhost:8080' ? 'http://PROD-URL/' : currHost;

export var cfg = {
  version: "0.1.0",
  api: {
    endpoint: url
  }
};

```

```

// main.js
import * as config from './config'
window._cfg = config.cfg

```

Focus on a field

```

mounted() {
  this.$refs.myInput.focus();
}

```

Stuff that might get handy

- *v-once* - render the element and component only once
- *v-if* - conditionally render the element
- [Difference between computed and methods](#)
- watch - specify what property to listen for changes and then execute some code without returning values
- v-model modifiers
 - .lazy - fire event when user leaves the field
 - .number - force the value to be converted to a integer
 - .trim - delete whitespace

Releases

No releases published

Packages

No packages published

Contributors 2



dekadentno Matej



serdariset Mahmut Serdar İset

Languages

● **Vue** 100.0%