

How to read these codes snippets

Vue components contain in the same place `<script>`, `<template>` and `<style>` data contents. In order to distinguish them: *Italic code is for script*. Regular code is for template.

Directives

v-if / v-else-if / v-else	Condition	<code><section v-show='var == true'>show me</section></code>
v-show	Condition (no alternative)	<code><section v-if='var == true'>show me</section></code>
v-for	Loop (iterate dataStore elt)	<code><li v-for='elt in dataStoreElt'>...</code>
v-on:event (@event)	Event listener	<code><button v-on:click='function'>Click!</button></code>
v-bind:elt (:elt)	Bind	<code><li v-bind:href='dataStoreElt.prop'>...</code>
v-model	Bind forms	<code><input type='text' v-model='dataStoreElt' /></code>

Share data between parent/child components

Direct data sharing between 2 linked components is possible in 3 ways: **props & slot** for *parent* communicating to *child*, and **\$emit** for *child* communicating to *parent*.

props (Parent > Child)

Parent /	Child /
<i>import Child from './url'</i>	<i>props : ['url'] or props : {url : 'url'}</i>
<i>components : {Child}</i>	
<code><Child url= 'url' /></code>	<code><a :href= 'url'></code>

slot (Parent > Child)

Parent /	Child /
<i>import Child from './url'</i>	
<i>components : {Child}</i>	
<code><Child v-slot:slotName >anything to replace default content </Child></code>	<code><button> fixed data</code>
	<code><slot name='slotName'>default free content </slot>{{[n]}} </button></code>

Slots are **free areas** that can be named to use more than one. Default content of slots set in *child component* can be replaced as needed.

\$emit (Child > Parent)

Parent /	Child /
<i>import Child from './url'</i>	<i>methods : { eventPerso(){ this.\$emit('event-perso',{msg : 'hello'}) }}</i>
<i>components : {Child}</i>	
<i>data() { return{ msg : "" } }</i>	
<i>methods : { setMsg(event) { this.msg = event.msg } }</i>	
<code><Child @event-perso = 'setMsg' /></code>	<code><button @click = 'eventPerso'></code>



Router

Install: `vue add router` // *App.vue* will be erased!

`route = { path: '/', name: 'Name', component: ImportedName OR () => import('./path/Component') }`

`<router-view />` - Display point

`<router-link to="/path"></router-link>` - Link using routes (no reload page)

Lifecycle

`beforeCreate()/created() beforeMount()/mounted() beforeDestroy()/destroyed()`

Function used in `export default {...}` to define the moment some operations must be initiated.

Vuex - General dataStore

State (dataStore)

Paths: `$store.state`

plugin: `{ mapState }` - use spread operator ...

Plugin must be used in **computed**

Vuex store/ `state: {key: 'value'}`

* **objects** can be used in place of **strings** to rename variables

Component/ `Import { mapState } from 'vuex'`

`computed: { ...mapState(['var1', 'var2']) }` *

Getters (computed)

Path: `$store.getters`

plugin: `{ mapGetters }` - use spread operator ...

Plugin must be used in **computed**

Vuex store/ `getters: { setDate(state) { return `${state.day} :${state.month} ${state.year} } }`

Component/

direct/ `computed: { date() {this.$store.getters('setDate')}} }`

plugin/ `import { mapGetters } from 'vuex'`

`computed: { ...mapGetters(['setDate']) }`

Mutations (change State)

Path: - no access from components -

Plugin: - none -

Isolated from components

Vuex store/ `state: { count: 0 }`

CAPITALIZED_NAME

`mutations: { INCREASE_COUNT(state, amount) {state.count += Number(amount)} }`

args: `state, payload`

Actions (commit changes to State)

Path: `$store.dispatch`

Plugin: `{ mapActions }` - use spread operator ...



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Vuex - General dataStore (cont)

Pluggin must be used in **methods**
Apply mutators to State
args: *context, payload*

```
Vuex store/ actions: { updateCount(context, amount) {context.commit('INCREASE_COUNT', amount)} }
```

Component/

```
direct/ methods: { update() {this.$store.dispatch('updateCount')} }
```

```
pluggin/ import { mapActions } from 'vuex'
```

```
methods: { ...mapActions(['updateCount']) }
```

All data contained in this dataStore is accessible and changeable to any component.

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