

Un'alternativa a ...



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# **Progressive Framework**

## **DOM Driven vs Data Driven**

```
var input = $('#text')
var btnAdd = $('#add')
var list = $('#list')
var count = $('#count')
var index = 1
btnAdd.on('click', function() {
   var btn = $('<button>').text('x')
    btn.on('click', function(event) {
       var el = $(this).parent('li')
       var id = el.attr('data-id')
       $(el).remove()
       count.text(list.find('li').length)
    $('').attr('data-id', index).text(input.val()).append(btn).appendTo(list)
    count.text(list.find('li').length)
    index++
    input.val('')
```

# Perchè Vue.js?

- Versatilità
- Performance
- Semplicità / Accessibilità

## **Rendering Dichiarativo**

- Template / Render function
- Reattività
- DOM Virtuale

```
<div id="app">
   <div>
       {{message}}
   </div>
</div>
var app = new Vue({
   el: '#app',
   data: function() {
       return {
           message: 'Not a Bug Conf'
})
```

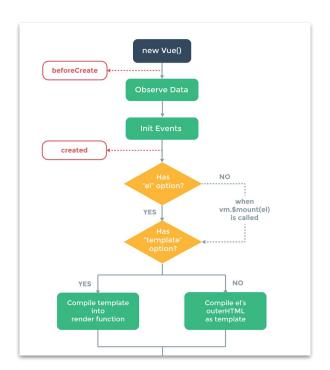
### **Direttive**

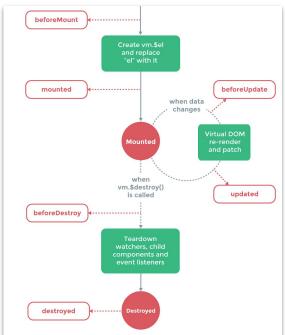
- condizionali e cicli
  - o v-if, v-else-if, v-else, v-show
  - o v-for
- binding e eventi
  - v-bind:[attr] = :[attr]
    - es: v-bind:class, v-bind:style, v-bind:disabled
  - v-on:[event] = @[event]
    - es: v-on:click, v-on:click.prevent, v-on:keyup.enter, ...
- two-way binding
  - o v-model = v-bind:value + v-on:input
  - o v-model.lazy = v-bind:value + v-on:change
- ..
- o v-html
- v-[custom-name]

```
new Vue({
    el: '#app',
    data: function() {
        return {
            items: [],
            text: ''
    },
    computed: {
        count: function() {
            return this.items.length;
    },
    methods: {
        add: function() {
            this.items.push(this.text)
            this.text = ''
        remove: function(index) {
            this.items.splice(index, 1)
})
```

## Ciclo di vita

- beforeCreate
- created
- beforeMount
- mounted
- beforeUpdate
- updated
- beforeDestroy
- destroyed





# Componenti

```
var MyComponent = {
   template: `
       <div>
           <button type="button" @click="toggle"> {{btnLabel}} </button>
            {{message}} 
       </div>
   data: function() {
       return {
           show: true,
           message: 'Hello Vue.js'
   },
   computed: {
       btnLabel: function() {
           return this.show ? 'Hide' : 'Show'
   },
   methods: {
       toggle: function() {
           this.show = !this.show
Vue.component('my-component', MyComponent)
```

# **Comunicazione tra componenti**

- props
- eventi
- slots

#### **Props + Eventi**

```
<form>
    <input type="text" v-model="name" />
    <my-button
        type="submit"
        label="Click Me!"
        @click="onClick">
        </my-button>
    </form>
```

```
Vue.component('my-button', {
    props: {
        label: {
            type: String,
            required: true
        },
       type: {
            type: String,
            default: 'button',
            validator: function (value) {
                return ['button', 'submit', 'reset'].indexOf(value) !== -1
    },
   methods: {
       click(event) {
            this.$emit('click', event)
    template: '<button :type="type" @click="click"> {{ label }} </button>'
```

#### Slot

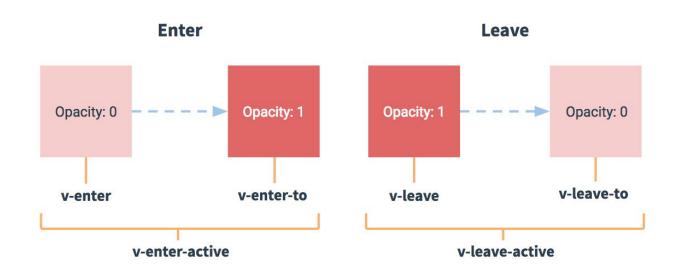
```
<form>
    <input type="text" v-model="name" />
        <my-button
            type="submit"
            @click="onClick">
            Click Me!
        </my-button>
        </form>
```

```
Vue.component('my-button', {
    props: {
        type: {
            type: String,
            default: 'button',
            validator: function (value) {
                return ['button', 'submit', 'reset'].indexOf(value) !== -1
    },
    methods: {
        click(event) {
            this.$emit('click', event)
    },
    template: '<button :type="type" @click="click"> <slot /> </button>'
})
```

## Single File Component

```
<button @click="click" :class="classType">
props: {
   type: {
        type: String,
        default: 'button',
        validator: function (value) {
            return ['button', 'submit', 'reset'].indexOf(value) !== -1
computed: {
   classType() {
        if (this.type === 'submit') {
             return 'submit-btn'
        } else if (this.type === 'reset') {
            return 'reset-btn'
        return 'default-btn'
methods: {
   click(event) {
        this.$emit('click', event)
.default-btn {
    background-color: gray;
.submit-btn {
    background-color: orange;
.reset-btn {
    background-color: green;
```

## **Animazioni / Transizioni**



```
<div id="app">
   <form @submit.prevent>
       <input type="text" v-model="text">
       <button type="submit" @click="add">Add</button>
       <transition-group name="fade">
          :style="{ 'background-color' : (index % 2 ? 'grey' : 'white')}">
              {{item}}
              <button type="button" @click="remove(index)">X</button>
   <button type="button" @click="showCount = !showCount"> Toggle </button>
   <transition name="fade">
       <div v-show="showCount">
          Count: {{count}}
```

```
.fade-enter-active, .fade-leave-active {
   transition: opacity .3s;
}
.fade-enter, .fade-leave-to {
   opacity: 0;
}
```

## **Ecosistema**

- vue-router -> routing lato client
- vuex -> state management (flux/redux)
- vue-cli -> scaffolding tool (... in arrivo la versione 3)
- vue-test-utils -> libreria per unit test abbinabile con Jest, Mocha ecc.
- nuxt.js -> server side rendering (ssr)

# Buefy

const buefy = vue + bulma



https://buefy.github.io

## **Grazie!**