



# State of the Vuenion

VueConf US, Mar.2019  
Tampa, Florida

# Usage statistics from February 2019

- ~700k weekly active devtool users
- ~800k weekly downloads on NPM
- ~461M hits/month on jsDelivr CDN

# Usage statistics from this morning

- ~780k weekly active devtool users
- ~1M weekly downloads on NPM
- ~500M hits/month on jsDelivr CDN

10% month-over-month growth

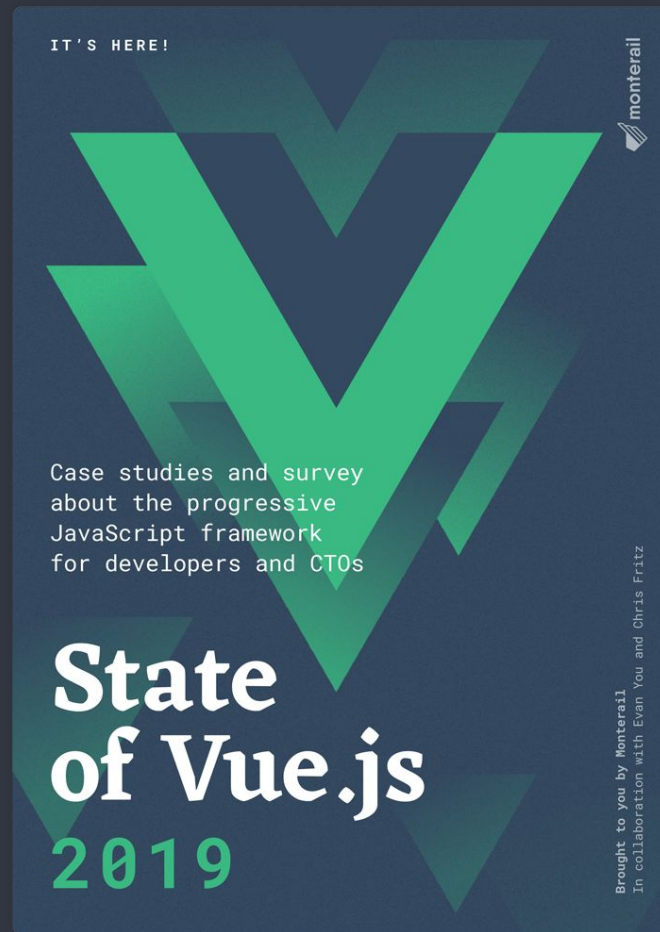


**Now the 2nd most-starred  
project on GitHub! ☐**

# Updated State of Vue.js Report

<https://www.monterail.com/state-of-vuejs-report>

Case studies from Behance, GitLab,  
Clemenger BBDO, Livestorm, IBM,  
Fathom & Laravel



# New Releases

## Vue 2.6 “Macross”

- New slot syntax / performance improvements
- Improved async error handling
- Improved compiler error messages
- Built-in data prefetch support during server-side rendering



# Vue Devtools 5.0

## [Release notes](#)

- Routing tab
- Performance tab
- Settings tab
- Editable Vuex state
- Initial NativeScript support
- ...and more!
- Shoutout to @Akryum

# Vetur 0.16

- Template intellisense support!
  - Expression autocomplete inside interpolations & directives
  - Child component tags & props
- Shoutout to @octref



Counter.vue

Parent.vue



```
<template>
  <div>
    <div>{{ msg }}</div>
    {{ | }}
  </div>
</template>

<script>
  /**
   * My basic Counter
   */
  export default {
    props: {
      /**
       * Initial counter value
       */
      start: {
        type: Number,
        default: 0
      }
    },
    data () {
      return {
        /**
         * My msg
         */
        msg: 'Vetur get much better completion',
        /**
         * My count
         */
        count: 0
      }
    }
  }
}
```

# Vue CLI 4.0 Roadmap

[vuejs/vue-cli#3649](https://github.com/vuejs/vue-cli/issues/3649)

- Jest v24
- Workbox v4
- core-js v3
- Nightwatch v1

# 3.0 RFCs

# New Slot Syntax

[RFC-0001](#)

- More succinct usage for default scoped slots

```
<foo v-slot="{ msg }">
  {{ msg }}
</foo>
```

# New Slot Syntax

[RFC-0001](#)

- More consistent & explicit when using named slots

```
<foo>
  <template v-slot:one>
    foo
  </template>
  <template v-slot:scoped="{ msg }">
    {{ msg }}
  </template>
</foo>
```

# New Slot Syntax

- Easier to associate slot scope declarations with the component providing the scope



# Slots Unification:

All slots are implicitly scoped

[vuejs/rfcs#20](#)

# Normal vs. Scoped Slots

```
createElement(  
  Foo,  
  // evaluated in parent render function  
  // this.msg dependency registered by parent  
  [createElement('div', this.msg)]  
)
```

# Normal vs. Scoped Slots

```
createElement(  
  Foo,  
  // lazy evaluated in child render function  
  // this.msg dependency registered by child  
  () => [createElement('div', this.msg)]  
)
```

# Class API

[vuejs/rfcs#17](#)

# Class API

```
export default class App extends Vue {  
  count = 0  
  
  created() {  
    console.log(this.count)  
  }  
  
  get plusOne() {  
    return this.count + 1  
  }  
  
  increment() {  
    this.count++  
  }  
}
```

# Class API

- Primary goal: to provide a built-in & more efficient replacement for [vue-class-component](#)
- Works with both native ES2015 and TypeScript
- Object API still supported

# Advanced Reactivity API

[vuejs/rfcs#22](https://github.com/vuejs/rfcs/pull/22)

# Advanced Reactivity API

```
import { state, computed, watch } from '@vue/observer'

const obj = state({ count: 1 })

const plusOne = computed(() => state.count + 1)

watch(plusOne, value => {
  console.log(`count + 1 is: ${value}`)
})
```



# Advanced Reactivity API

- Create and observe reactive state outside of components
- Connect state into components by returning them in `data()`

# Dynamic Lifecycle Hook Injection

[vuejs/rfcs#23](#)

# Dynamic Lifecycle Injection

```
import { onMounted, onUnmounted } from 'vue'

export default {
  beforeCreate() {
    onMounted(() => {
      console.log('mounted')
    })

    onUnmounted(() => {
      console.log('unmounted')
    })
  }
}
```

Advanced Reactivity API  
+  
Dynamic Lifecycle Injection  
=  
New Composition Pattern

# Case Study: Mouse Position

# Mixins

```
const mousePositionMixin = {
  data() {
    return {
      x: 0,
      y: 0
    }
  },
  mounted() {
    window.addEventListener('mousemove', this.update)
  },
  destroyed() {
    window.removeEventListener('mousemove', this.update)
  },
  methods: {
    update(e) {
      this.x = e.pageX
      this.y = e.pageY
    }
  }
}
```

# Mixins

- When overused:
  - ✗ Namespace clash (all options)
  - ✗ Unclear property source

# Higher-order Components

```
const Demo = withMousePosition({  
  props: ['x', 'y'],  
  template: `

Mouse position: x {{ x }} / y {{ y }}

`  
})
```



# Higher-order Components

- When overused:
  - ✗ Namespace clash (props only)
  - ✗ Unclear props source
  - ✗ Extra component instances

# Renderless Components

```
<mouse v-slot="{ x, y }">  
  Mouse position: x {{ x }} / y {{ y }}  
</mouse>
```

# Renderless Components

- ✓ No namespace clashing
- ✓ Clear sources of variables
- ✗ Extra component instances

# Hooks?

```
new Vue({
  template: `
    <div>
      Mouse position: x {{ mouse.x }} / y {{ mouse.y }}
    </div>
  `,
  data() {
    return {
      mouse: useMousePosition(this)
    }
  }
})
```

# Hooks?

```
function useMousePosition(vm) {  
  const mousePosition = Vue.observable({  
    x: 0,  
    y: 0  
  })  
  
  const update = e => {  
    mousePosition.x = e.pageX  
    mousePosition.y = e.pageY  
  }  
  
  vm.$on('hook:mounted', () => {  
    window.addEventListener('mousemove', update)  
  })  
  
  vm.$on('hook:destroyed', () => {  
    window.removeEventListener('mousemove', update)  
  })  
  
  return mousePosition  
}
```

- ✓ No namespace clashing
- ✓ Clear sources of variables
- ✓ No extra component instances

# With new API

```
function useMousePosition() {  
  const x = value(0)  
  const y = value(0)  
  
  const update = e => {  
    x.value = e.pageX  
    y.value = e.pageY  
  }  
  
  onMounted(() => {  
    window.addEventListener('mousemove', update)  
  })  
  
  onUnmounted(() => {  
    window.removeEventListener('mousemove', update)  
  })  
  
  return { x, y }  
}
```

# With new API

```
new Vue({
  template: `
    <div>
      Mouse position: x {{ x }} / y {{ y }}
    </div>
  `,
  data() {
    const { x, y } = useMousePosition()
    return {
      x,
      y,
      // ... other data
    }
  }
})
```



- React-hooks like composability
- Recommended over mixins
- Only called once
  - Closer to standard JS intuition
  - No call-order constraint
  - No stale closures

# More 3.0 RFCs to be published soon...

- Global API re-design
- Render function API change
- Functional and Async components API change
- Optional Props Declaration
- Attribute fallthrough behavior change

**Thank you!**