

Community is the DNA of Kong



Frontend at Kong





Problems

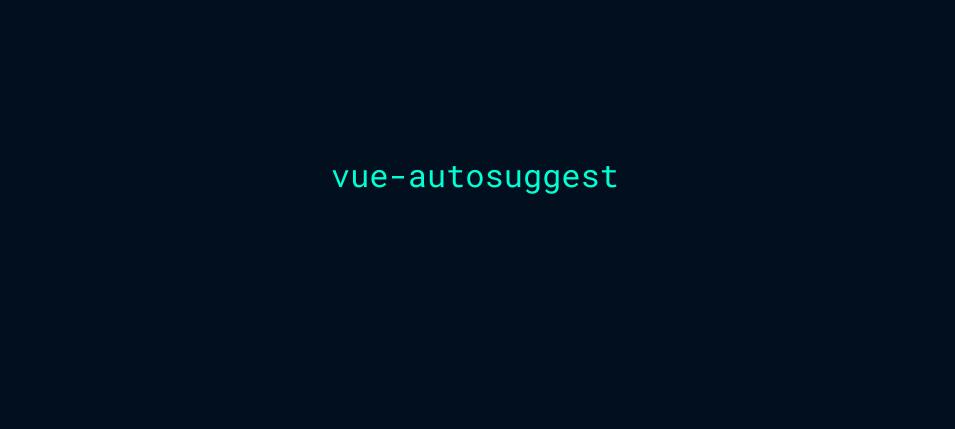
- Explosion of components
- Composability / Reusability
- Many consumers
- #oss vs. private
- Maintenance cost
- Documentation
- Design / Prototyping

Ship it!



6 Patterns For #0SS Success

- Emitting @events
- Transparent wrappers
- Slots
- SSR
- Data reducers
- 🧣 Provider Pattern



1. Emitting Events over a Function Prop

onSelected → @selected

Instead of passing *onAction* as a property, instead pass in an event, and then, emit it inside your component.

- Easier to tell which properties are functions and events
- this.\$emit('selected', item)
- 3. @selected === v-on:selected
- 4. Ergonomic for vue users

```
<template>
  <vue-autosuggest
    :suggestions="[{data:['Frodo', 'Samwise']}]"
    @selected="selectHandler" />
</template>
<script>
export default {
  methods: {
    selectHandler(item) {
      this.selected = item
</script>
```

2. Transparent Wrappers

Take events and pass them down through to the element that they should logically be applied to. Useful when you are wrapping a child component in multiple container divs.

- Utilize \$listeners
- Avoid ugly nested Object props
 - inputProps: { onClick:{}}
- Future proof by spreading ...

```
<template>
  <div>
     v-on="listeners"
     v-model="searchInput"
     type="text"/>
     v-for="item in filteredSuggestions"
         @click="$emit('selected', item)">
       {{ item.Name }}
     </div>
</template>
                 computed: {
                   listeners() {
```

return {

...this.\$listeners



3. Scoped Slots

Invert control of the template by giving users the data and letting them do the rendering.



```
<template>
  <vue-autosuggest</pre>
    :suggestions="suggestions"
    @selected="selectHandler">
</template>
```



- Home
 - **Getting Started**
- Sending And Managing Data
- Managing Results
- **Building Search UI**



What is Vue InstantSearch?

Getting started

Upgrade guides

WIDGETS

Widgets showcase Customize an existing widget

Create your own widgets

GOING FURTHER

Conditional display

Security

Algolia.com

Routing URLs

Plug analytics Improve performance

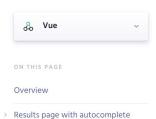
Old Algolia Docs

Dashboard

Results page with autocomplete

This is focused on integrating a ais-search-box with an autocomplete linked to a results page. To implement this we use the library Vue Autosuggest that provides a component to create an autocomplete menu. Once we have this component, we need to wrap it with our ais-autocomplete component. The component exposes three interesting props for this use case:

indices, and refine. indices contains the list of suggestions, and refine is a function that takes a query to retrieve our relevant suggestions.



```
vue
    <template>
      <div>
        <ais-instant-search
          :search-client="searchClient"
          index-name="demo ecommerce"
          <ais-configure
            :hitsPerPage="5"
            :restrictSearchableAttributes="['name']"
          />
          <ais-autocomplete>
            <template slot-scope="{ currentRefinement, indices, refine }">
              <vue-autosuggest
                 :suggestions="indicesToSuggestions(indices)"
                @selected="onSelect"
                :input-props="{
                  style: 'width: 100%',
                  onInputChange: refine,
                  placeholder: 'Search here...',
```

```
<ais-autocomplete>
  <template slot-scope="{ currentRefinement, indices, refine }">
   <vue-autosuggest
      :suggestions="indicesToSuggestions(indices)"
      @selected="onSelect"
      :input-props="{
       style: 'width: 100%',
       onInputChange: refine,
       placeholder: 'Search here...',
     }"
   >
      <template slot-scope="{ suggestion }">
       <ais-highlight
          :hit="suggestion.item"
          attribute="name"
         v-if="suggestion.item.name"
       />
       <strong>$ {{ suggestion.item.price }}</strong>
       <img :src="suggestion.item.image" />
      </template>
   </vue-autosuggest>
 </template>
</ais-autocomplete>
```

4. Server Side Rendering

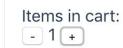
Even if you are not using it today, users of your components might use SSR.

DOs and **DO NOT**s

- **DO** remember that Node.js and the Browser are two different environments so things like window and document are not available on the server.
- DO put global side-effects in mounted such as addEventListener or setTimeout.
- **DO NOT** put anything in beforeMount or mounted() that changes the template or alters the state.
- **DO** use Nuxtjs as it gives you a ton of behavior out of the box such as prefetching, html generation, and component caching. Use Codesandbox Nuxt.js template to try it out.



5. Data Reducers



Even more control!

```
<template>
  <counter :data-reducer="counterReduce"/>
</template>
<script>
import counter from "./components/counter";
export default {
  components: { counter },
  methods: {
    counterReduce(state, changes) {
      return {
        ...changes,
        count: changes.count > 3 ? 3 : changes.count
</script>
```

<button @click="crement(-1)">-</button> {{ count }} <button @click="crement(1)">+</button> function setData(vm, changes) { for(let item in changes) { vm[item] = changes[item] vm.\$nextTick() export default { name: "counter", props: { dataReducer: { type: Function, default: (state, changes) => { return { ...changes data() { return { count: 0 methods: { crement(amount) { const changes = this.dataReducer(this.\$data, { count: this.count + amount }) setData(this, changes)

6. Provider Pattern

Component that renders another component to provide or inject some context or state.

- Composition over inheritance
- Child components can remain the same.
- Turn on/off functionality
- Renders child using default slot

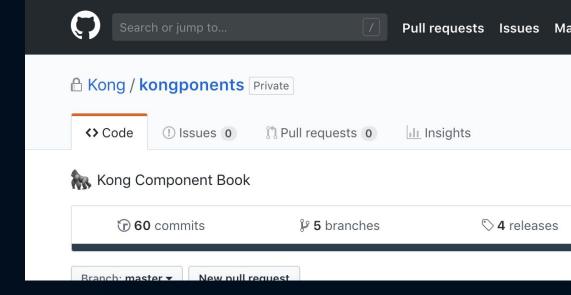
```
<RbacValidate :restricted="[{</pre>
    path: '/services',
    actions: ['read']
  }]">
  <template scope="{ isAllowed }">
    <div v-if="isAllowed">
      <Entity />
    </div>
    <div v-else>
      <EmptyState />
    </div>
  </template>
</RbacValidate>
```



Kongponents 🔭



- Internal Kong Vue Component library
- Published privately to NPM
- Independent Versioning
- Monorepo
 - Lerna
 - Yarn Workspaces
- Storybook
- `kpm` CLI for better DX
- Jest, vue-test-utils
- Future:
 - **UMD**
 - css variables, theming
 - #oss
 - enhanced CLI
 - Vuepress
 - ???







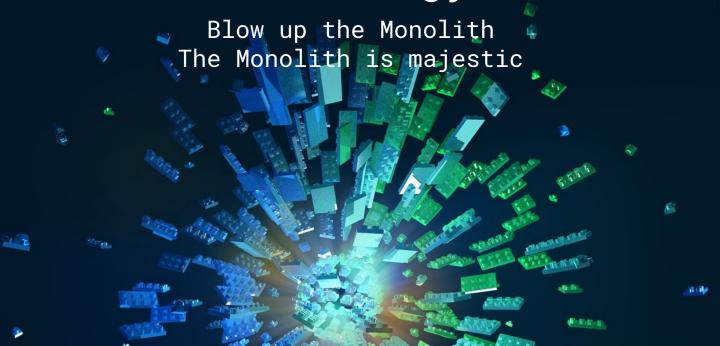
Thanks Niji!

"If we don't talk about what we love and why, we're doomed."

@DavidDark

Without patterns:

My technology rocks Your technology sucks



With patterns: Benefits, Drawbacks Choices

Microservices fit our business needs. Monoliths are right for our organization at this time.



Demo

We're Hiring!

https://konghq.com/careers/

Questions?