

# State Management with Vuex

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## STORING AND RETRIEVING STATE WITH VUEX



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# Overview



What state management is

What Vuex is

Create a Vuex store

Retrieve data from store's state

Change data with mutations

Create and use getters



# What is State Management?



# State

**Data** that describes the **current state** of your application.



# Different Types of State

Local

isMenuOpen



Shared

Shared

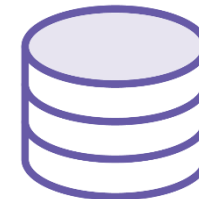
cartItems



Server

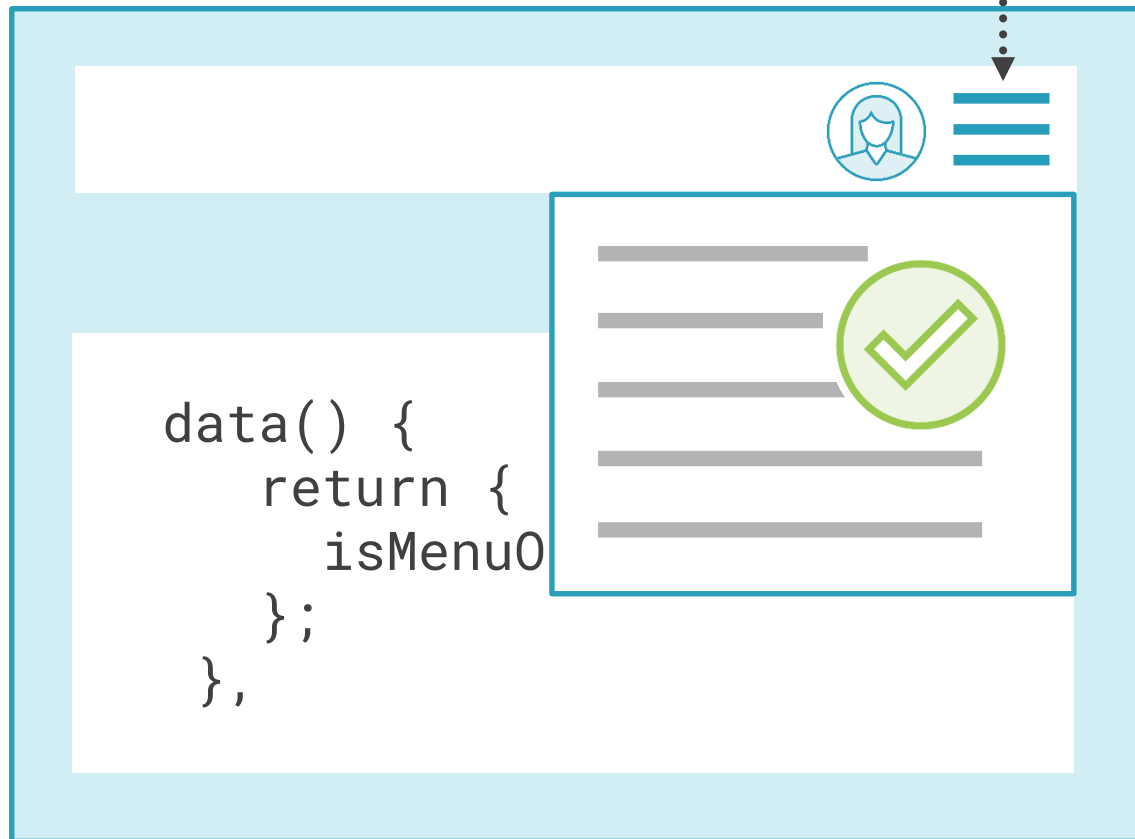
Server

userAccount



# Local State and Encapsulation

## Account Menu



## Shared State

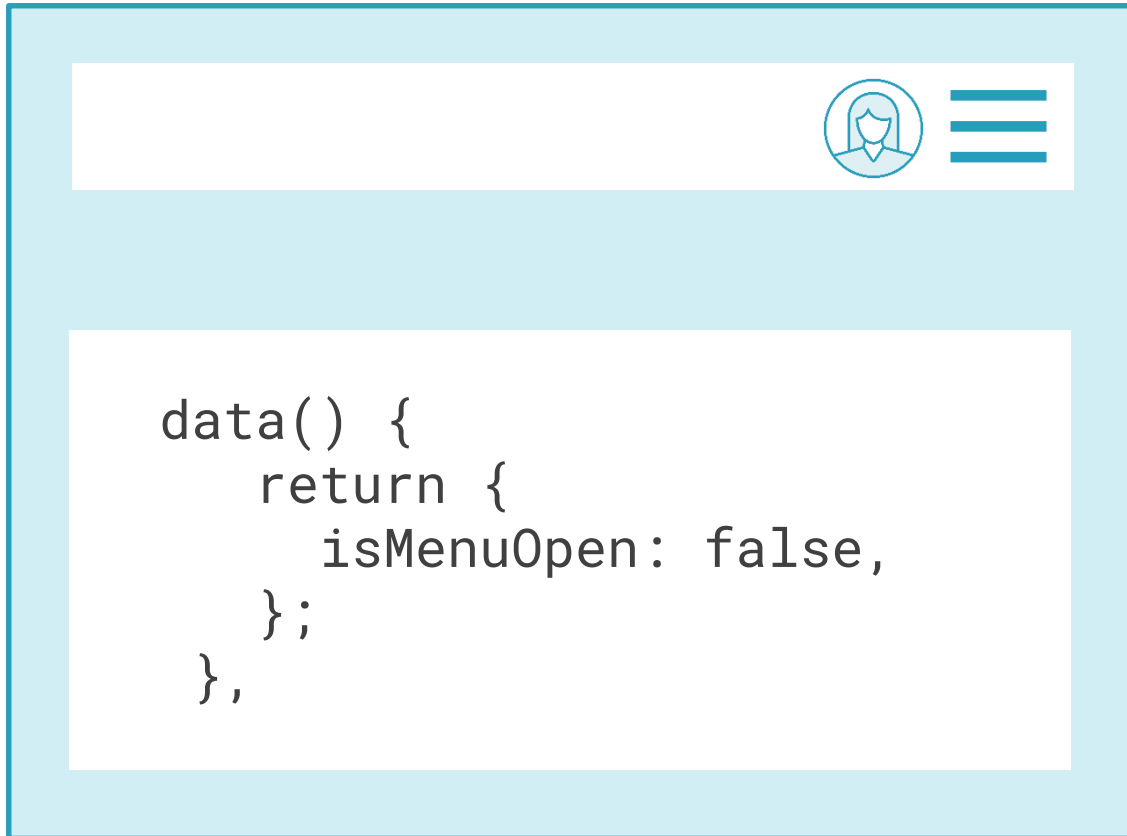


If you don't need to  
share it, don't!

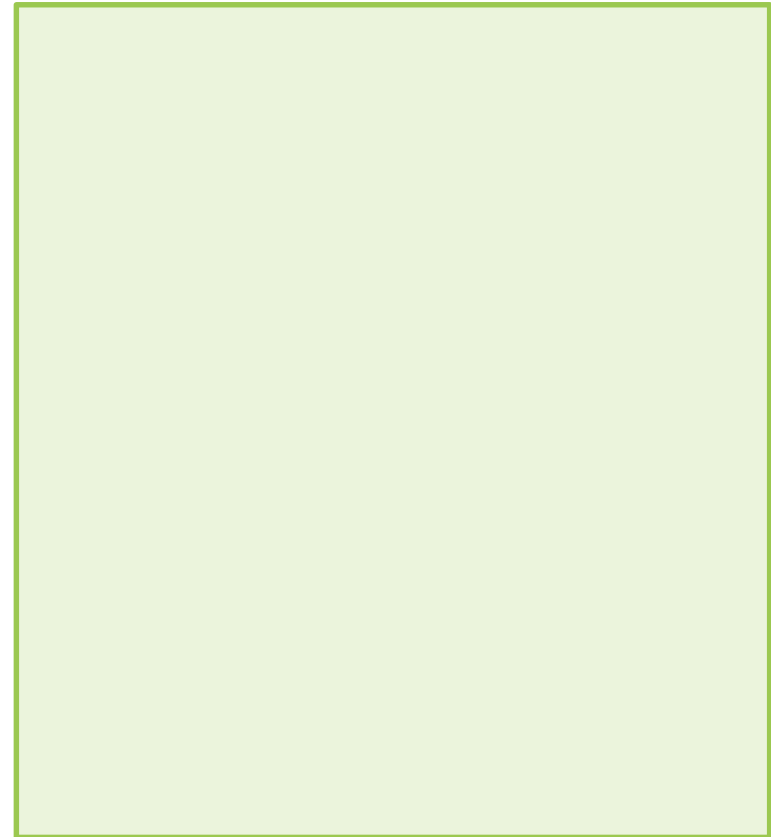


# State Management

## Account Menu



## Shared State





# State Management

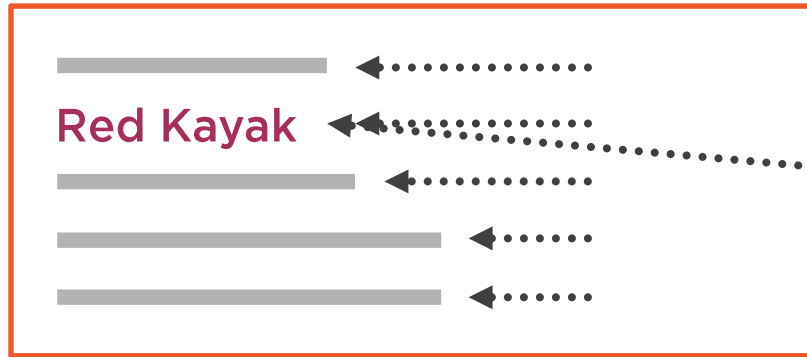
## Shared State

```
products: [  
  {name: "Blue Kayak"},  
  {name: "Boots"},  
]
```

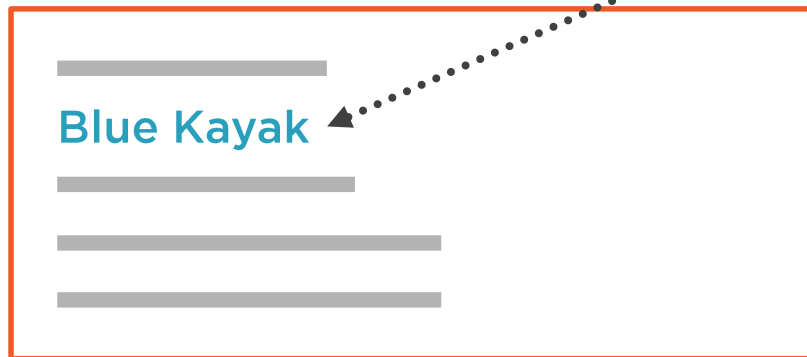


# State Management

## ProductListing.vue



## Cart.vue



## Shared State

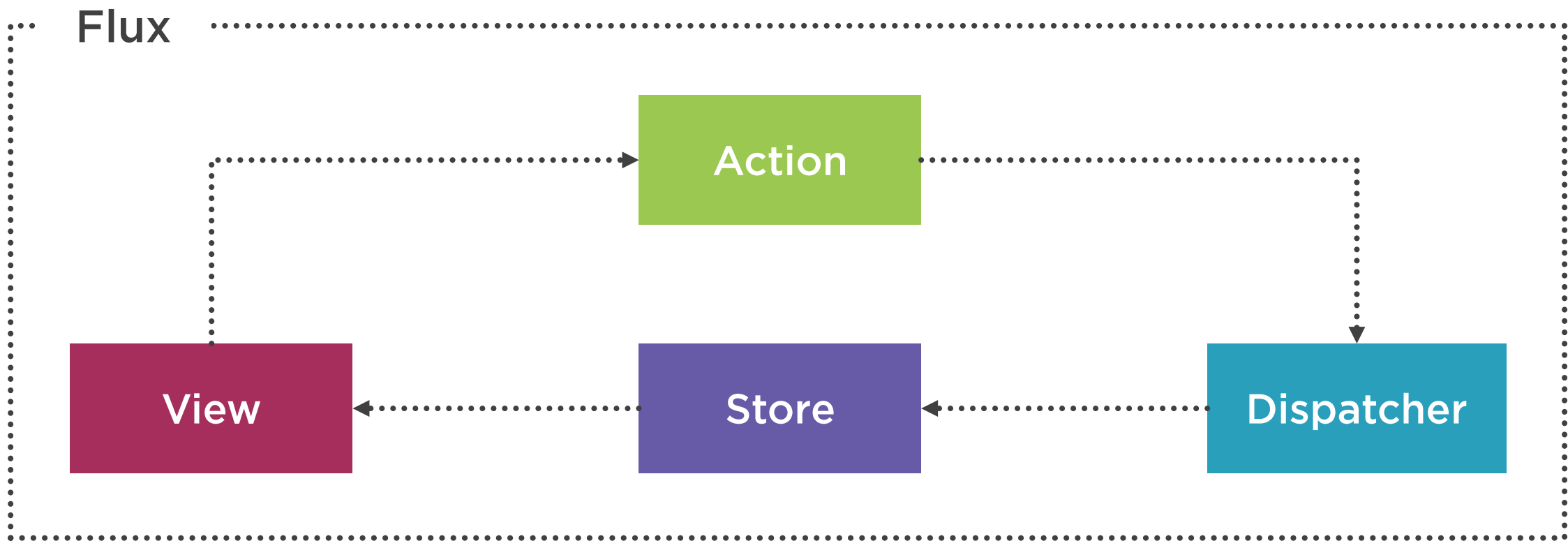
```
products: [  
  {name: "Blue Kayak"},  
  {name: "Boots"},  
]
```



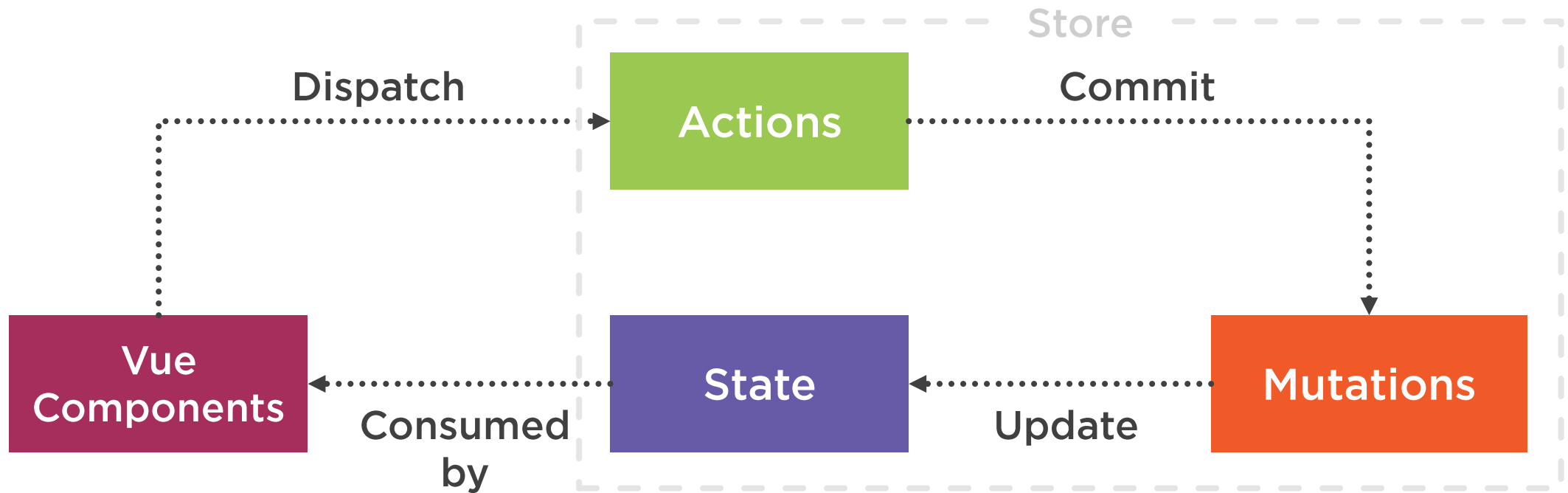
# What is Vuex?



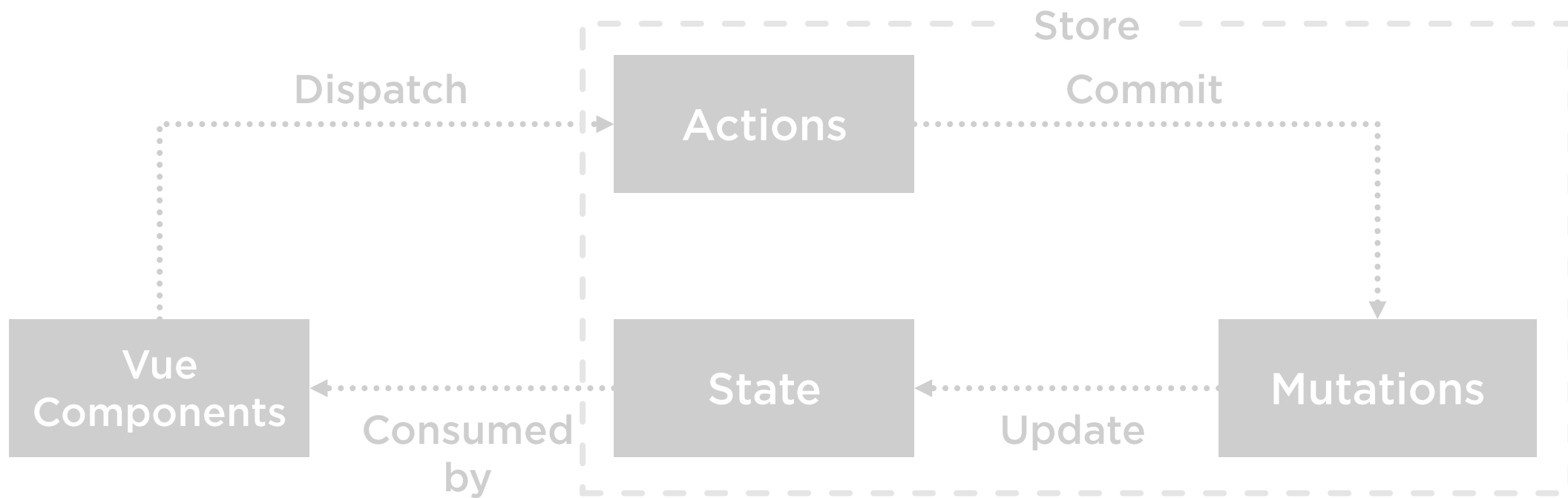
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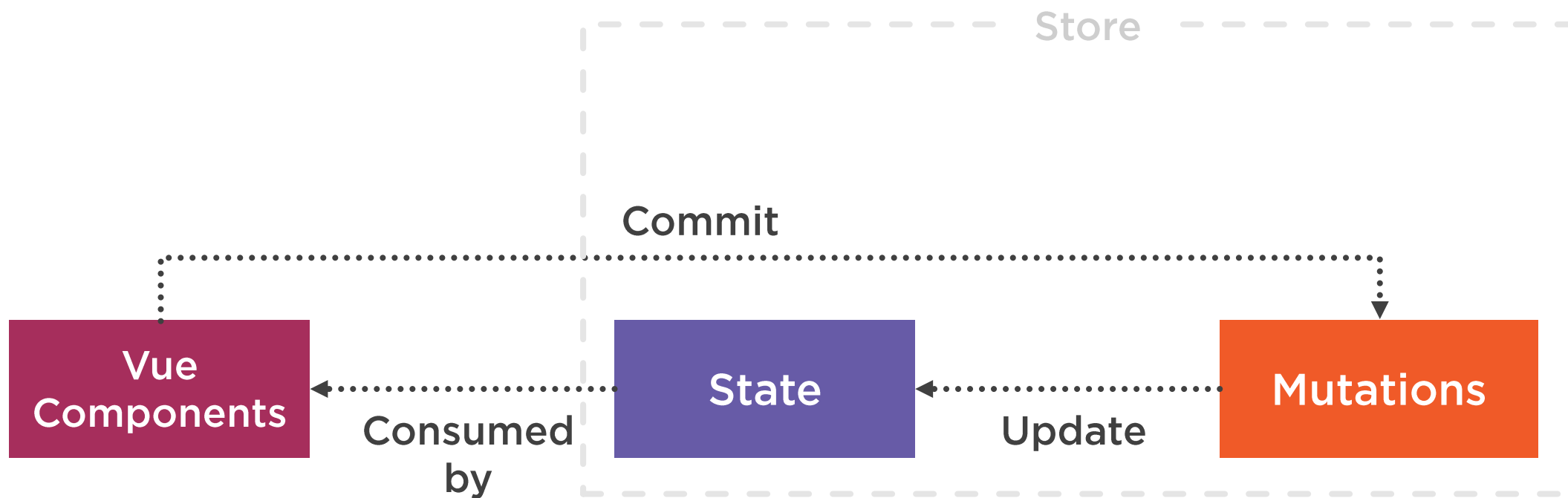
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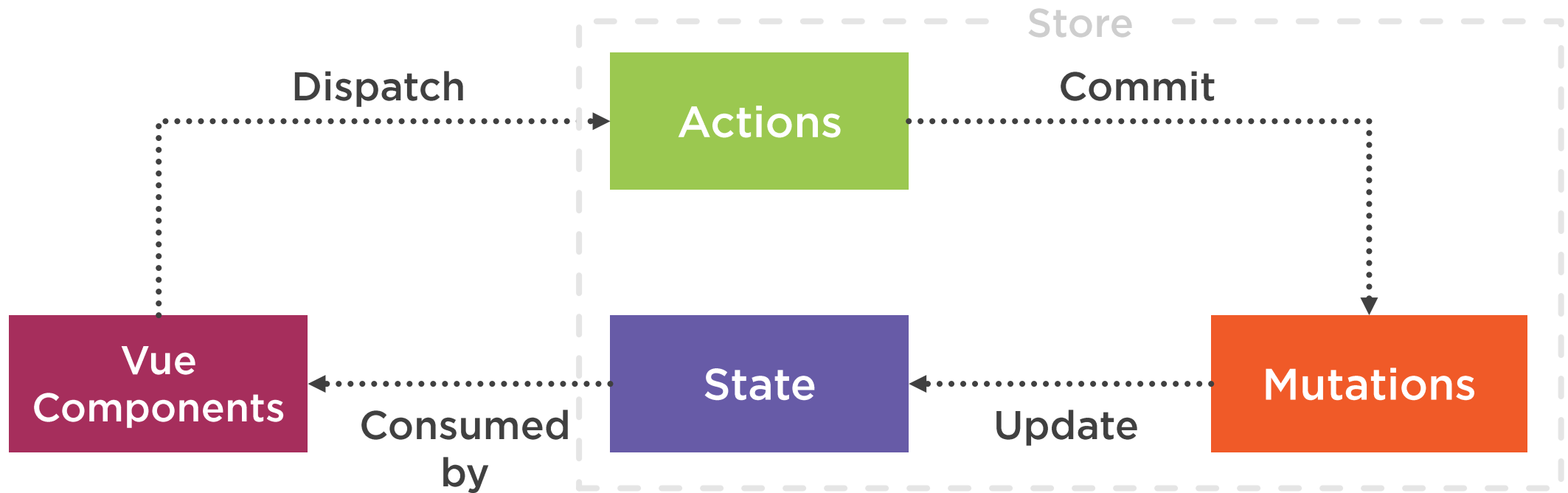
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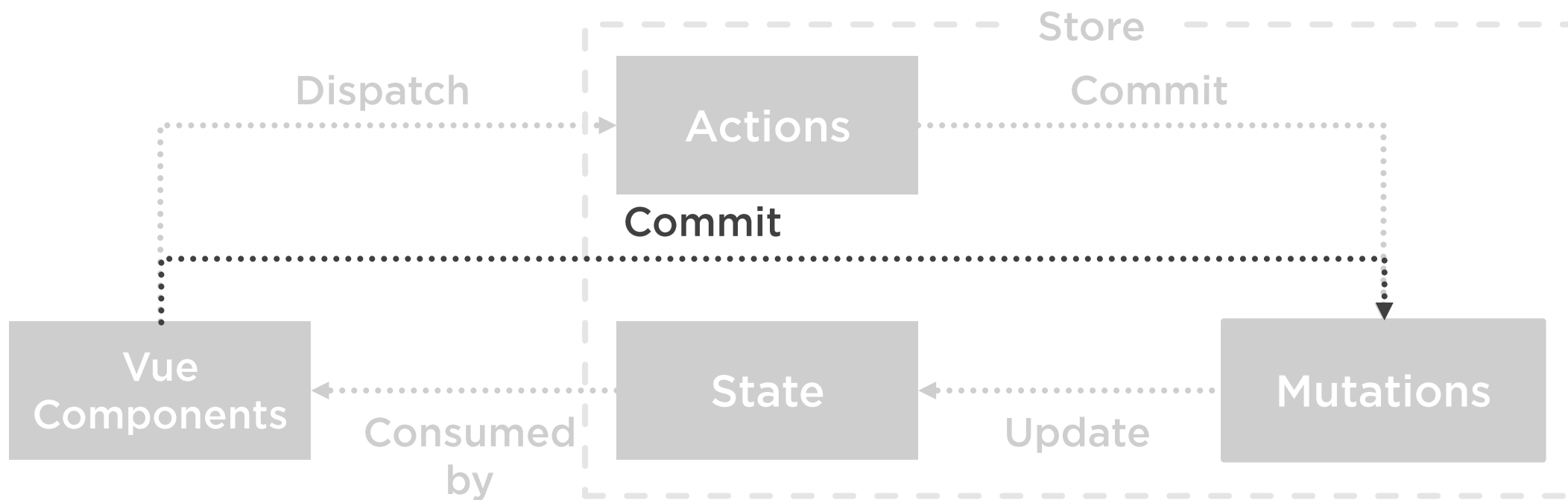


# What is Vuex?





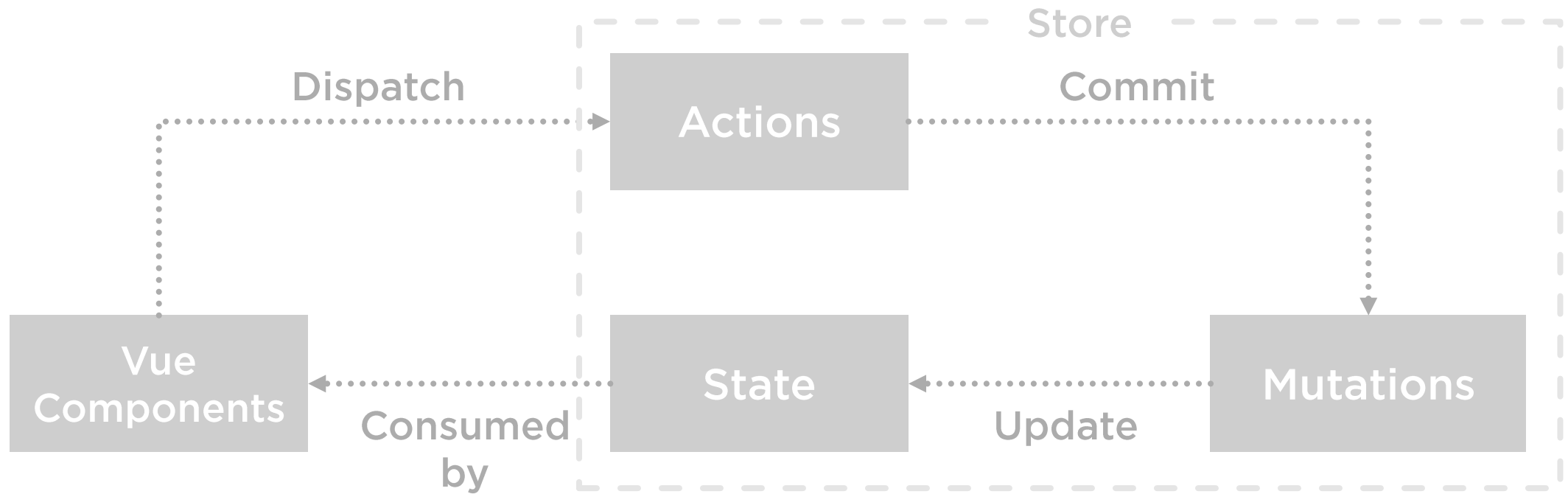
# What is Vuex?





Let's review





# Creating a Store

## store/index.js

```
import { createStore } from 'vuex';  
const store = createStore({  
  state() { ... },  
  getters: { ... },  
  mutations: { ... },  
});
```

## main.js

```
import store from './store';  
  
Vue.createApp(App)  
  .use(router)  
  .use(VuelidatePlugin)  
  .use(store)  
  .mount('#app');
```

# Retrieving Data From State

## store/index.js

```
const store = createStore({  
  state() {  
    user: {...},  
  },  
});
```

## Register.vue

```
computed: {  
  user() {  
    return this.$store.state.user;  
  },  
},
```

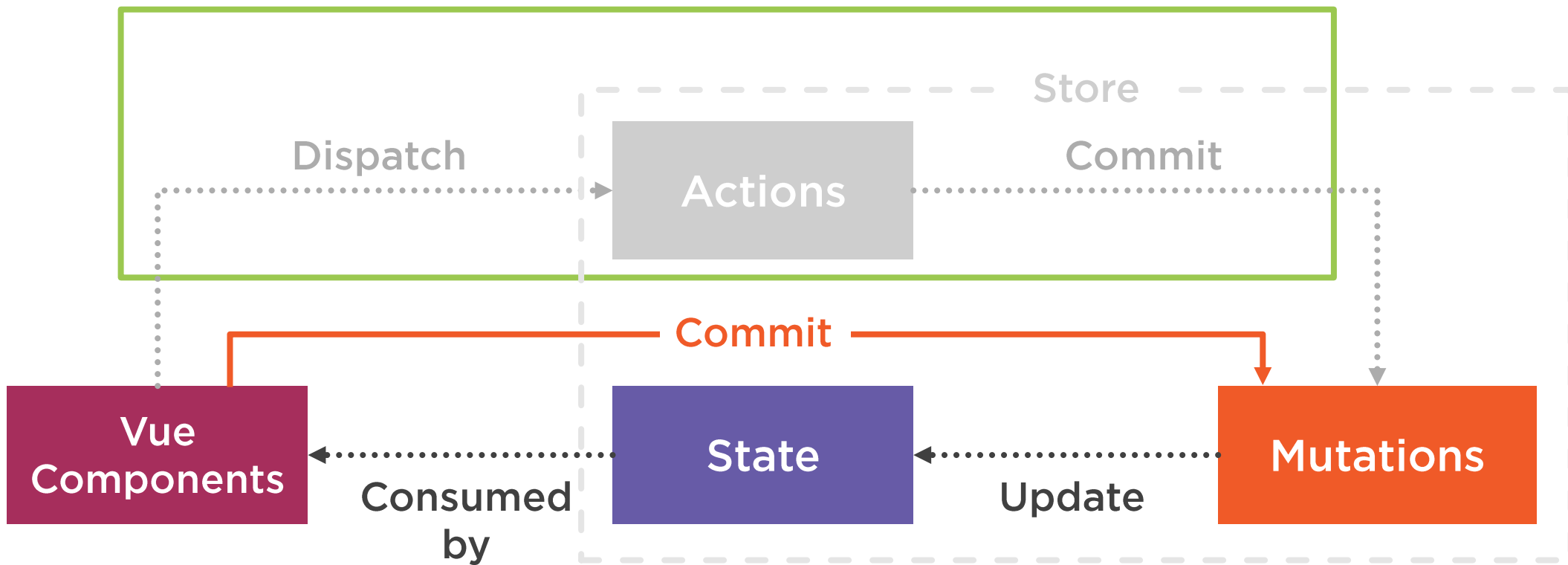
# Changing Data With Mutations

store/index.js

```
mutations: {  
  setUser(state, user) {  
    state.user = user;  
  },  
},
```

AccountMenu.vue

```
registerUser() {  
  const user = { ... };  
  this.$store.commit('setUser', user);  
},
```





So now let's go see how  
to dispatch actions in  
our next module!

