

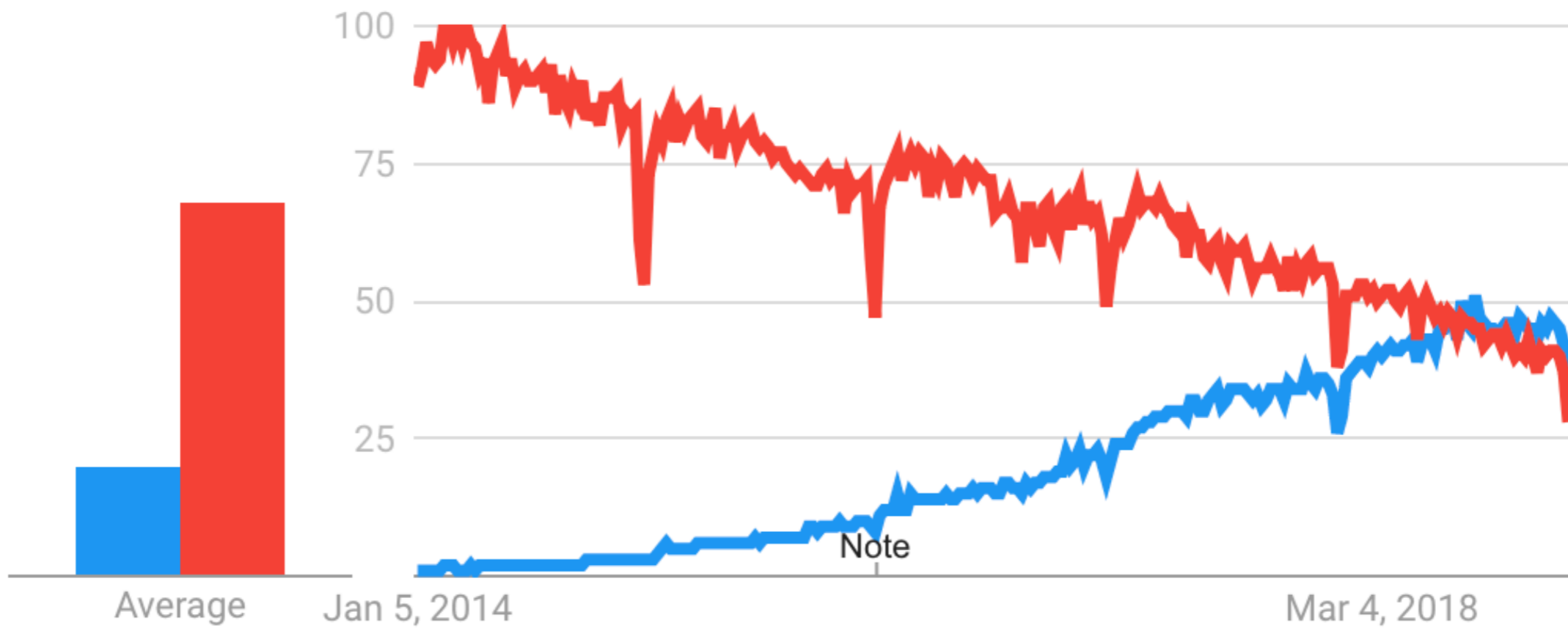
# React 4 years later, React vs Vue

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# Interest over time

● React ● jQuery



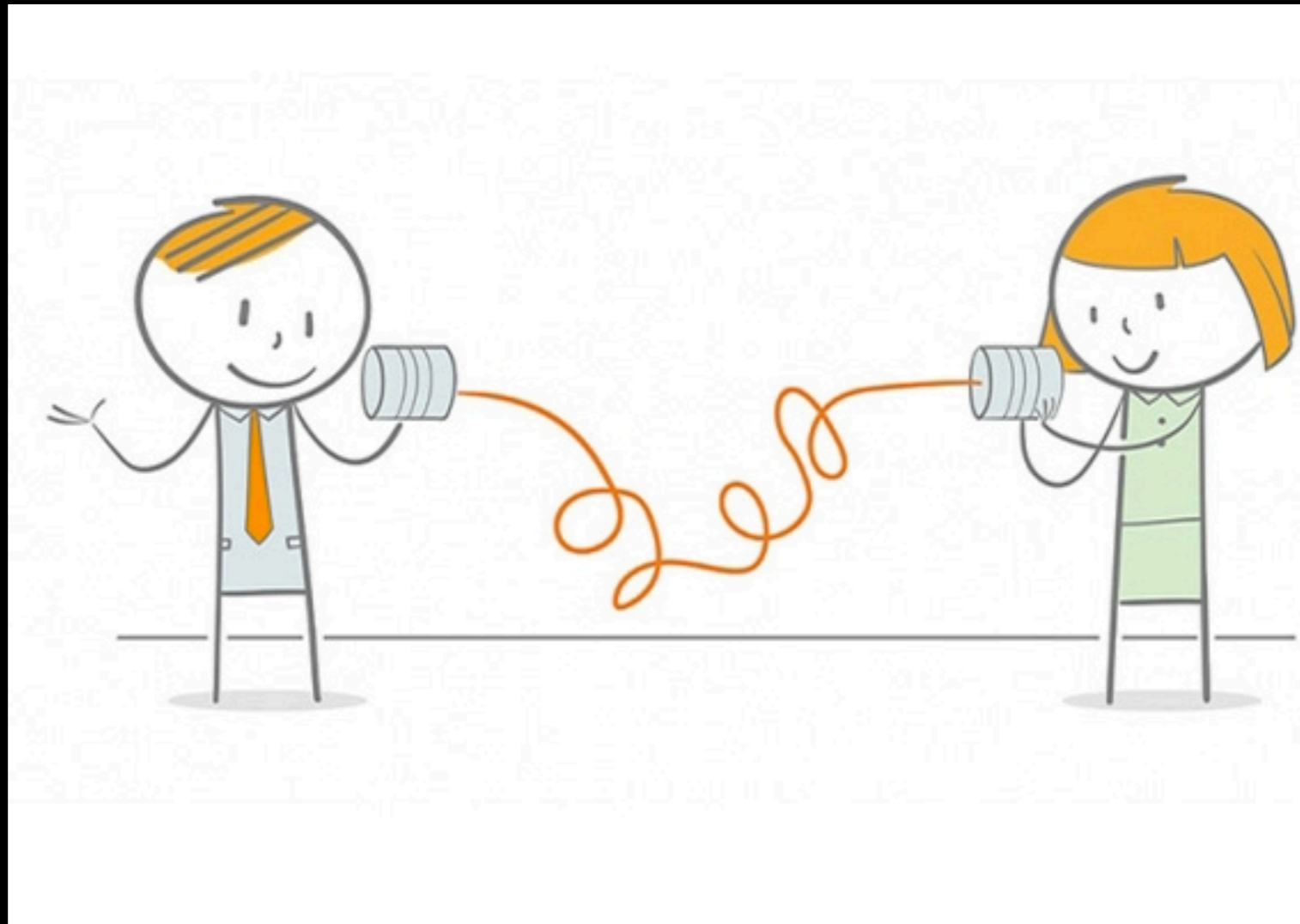
## Imperative (jQuery)

```
const div = $("div")
if(show) {
  div.append($("span").text("Hello"))
}
```

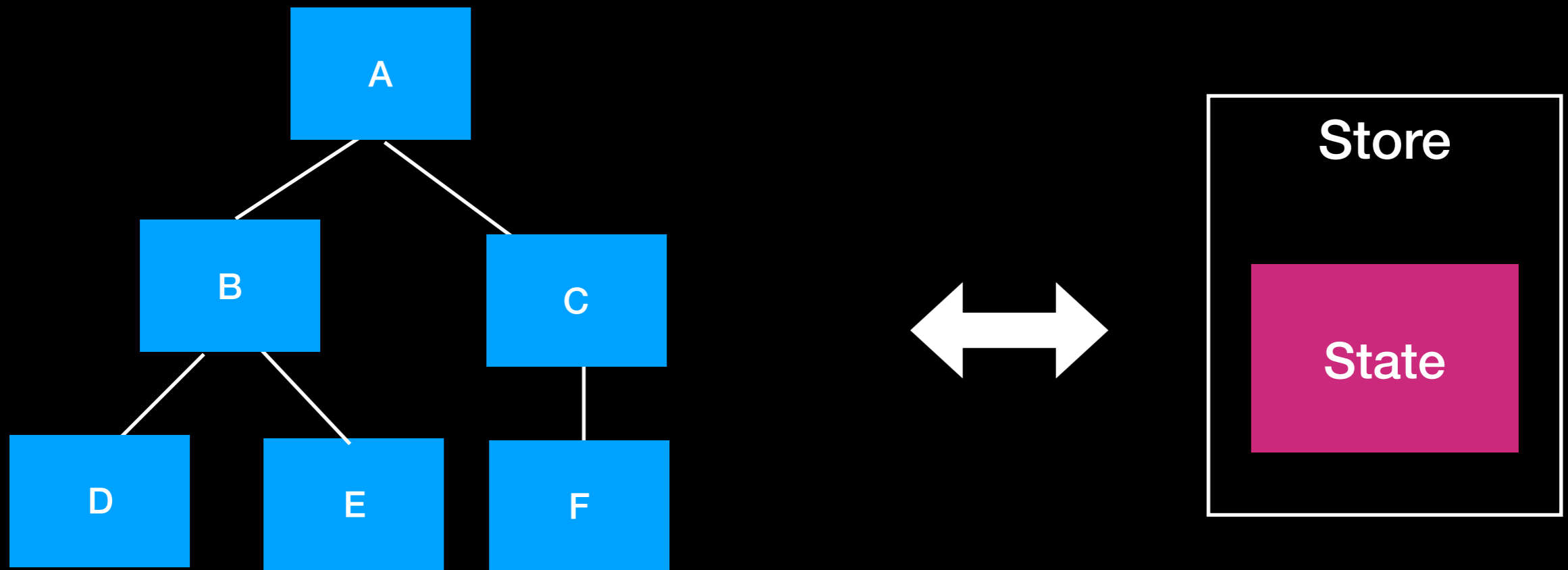
## Declarative (React)

```
<div>
  {show &&
    <span>Hello</span>
  }
</div>
```

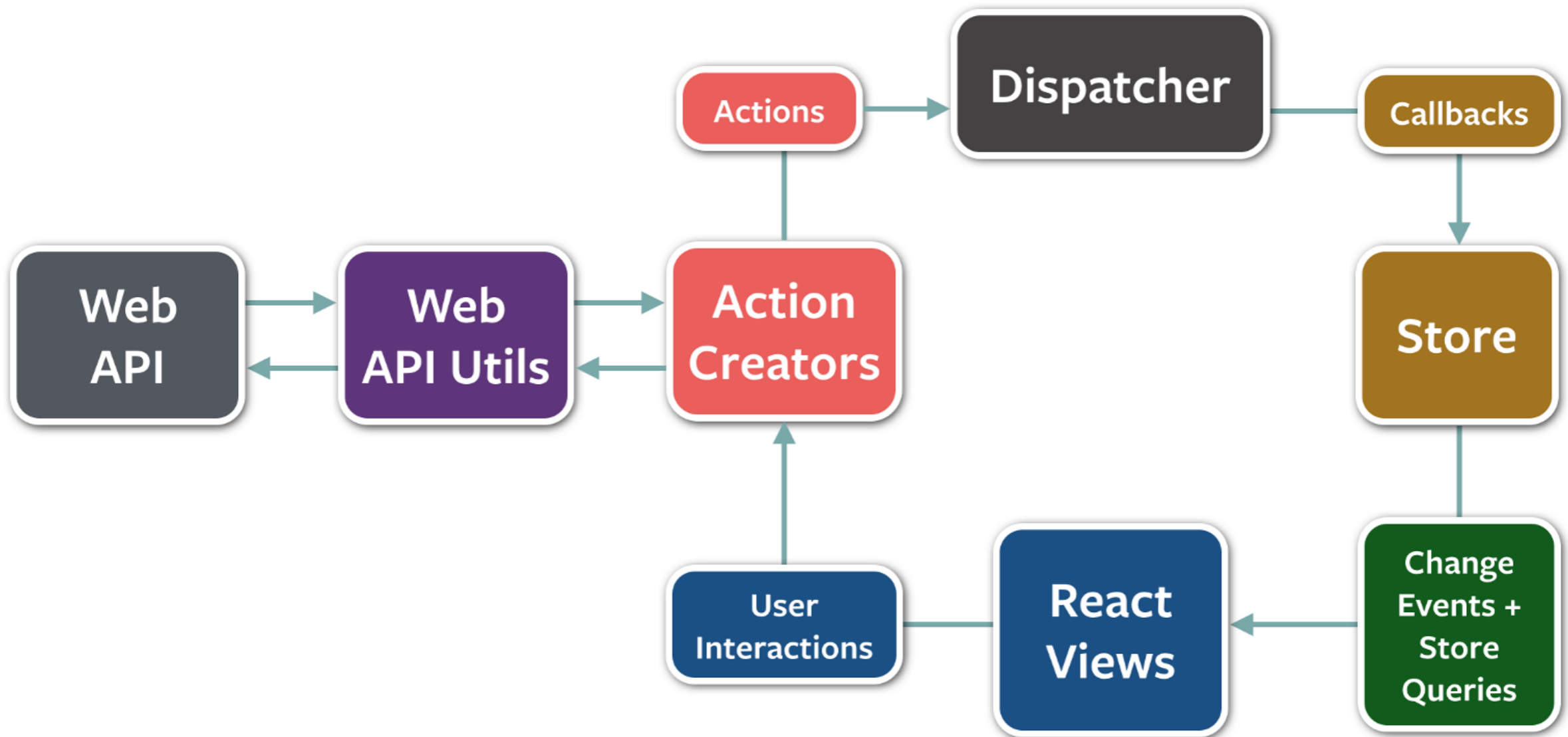
# The problem



# Communication

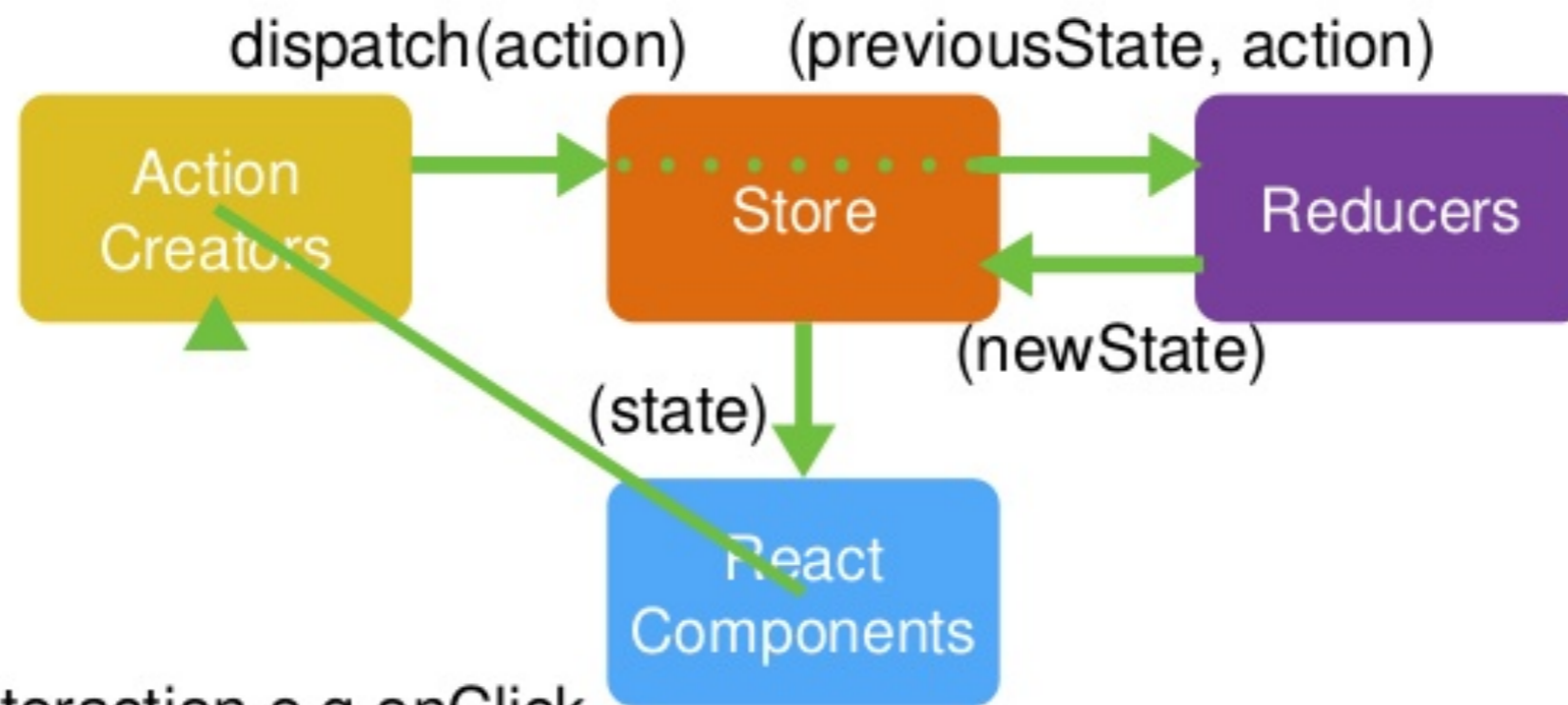


# Flux



# Redux

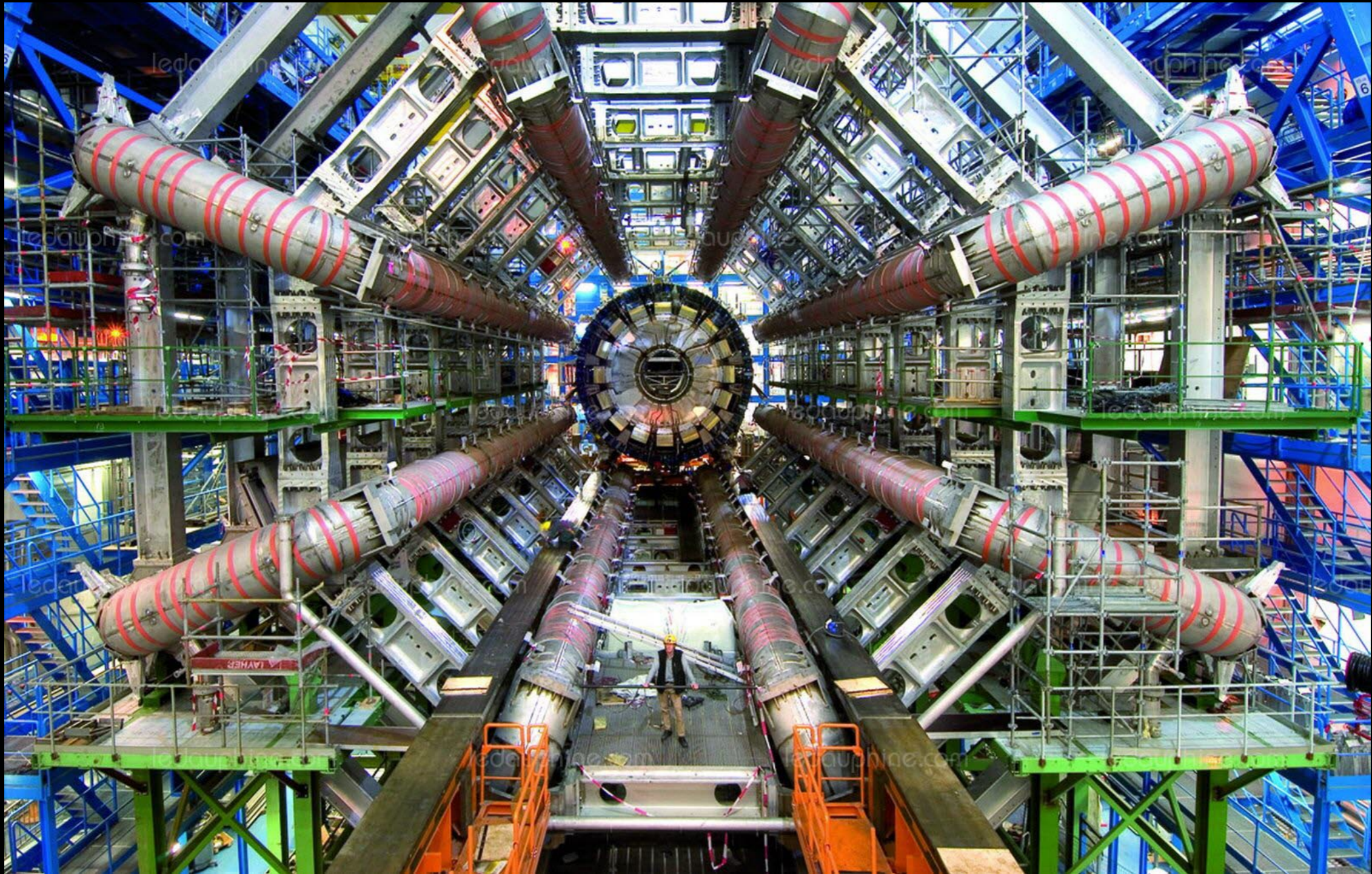
## Redux Flow



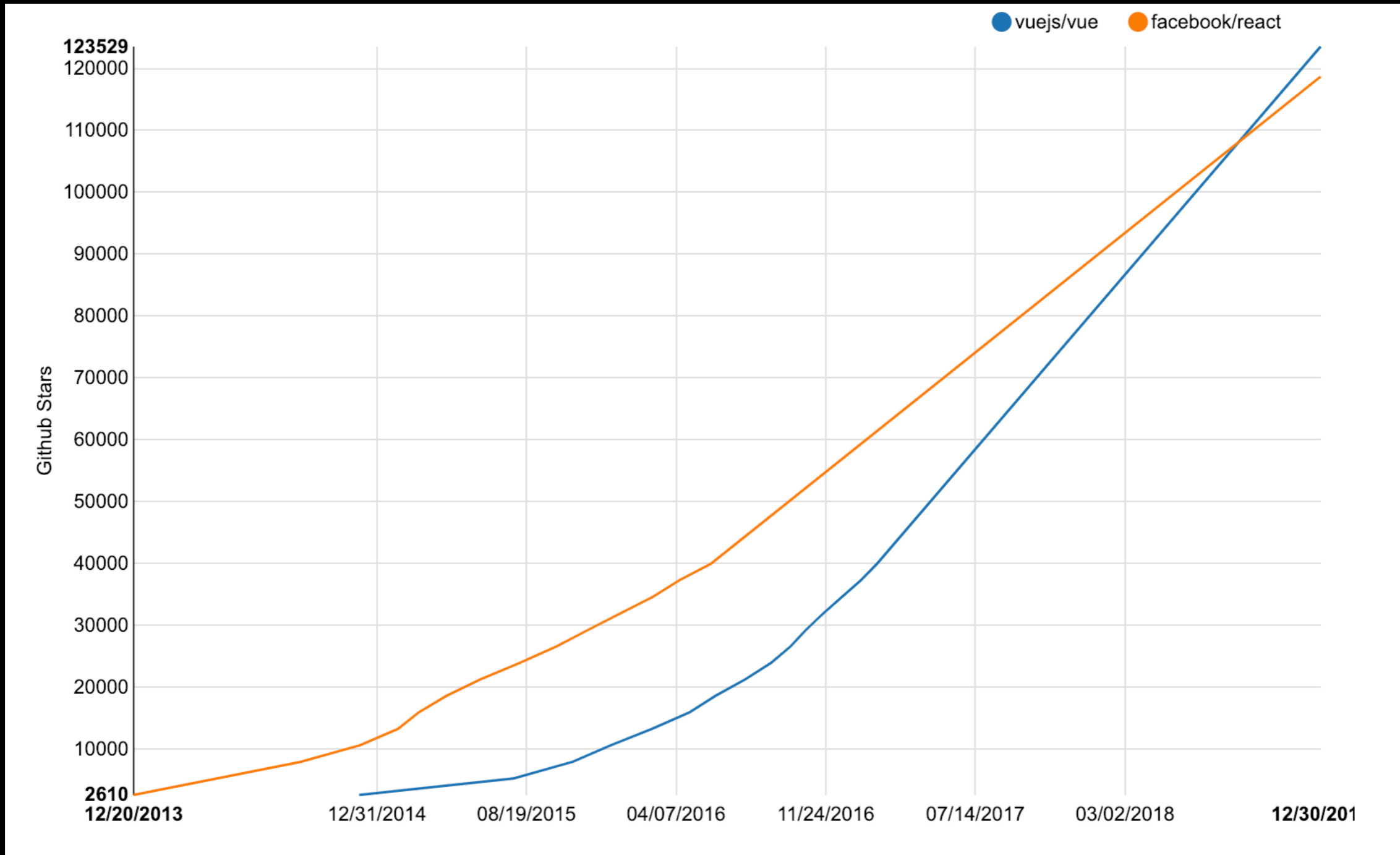
Interaction e.g. `onClick`







# github stars



# Vue

- Templating language
- Patterns of best practise
- Solution for communication

# Templating language

## React (JSX)

```
function Hello({loading, name, age}) {  
  return (  
    loading ? (  
      <div>Loading</div>  
    ) : (  
      <div>  
        {name} && <div>{name}</div>  
        {age} && <div>{age}</div>  
      </div>  
    )  
  )  
}
```

## Vue

```
<template>  
  <div v-if="loading">Loading</div>  
  <div v-else>  
    <div v-if="name">{{name}}</div>  
    <div v-if="age">{{age}}</div>  
  </div>  
</template>
```

# loop

## React

```
<ul>  
  {names.map(name =>  
    <li>{name}</li>  
  )}  
</ul>
```

## Vue

```
<ul v-for="name in names">  
  <li>{{name}}</li>  
</ul>
```

# CSS class-toggling

## React

```
<div className={`foo ${enable ? 'bar' : ''}`} />
```

## Vue

```
<div class="foo" :class="{ 'bar': enable}" />
```

# Two-way binding

## React

```
render() {  
  return (  
    <input type="text"  
      value={this.state.name}  
      onChange={this.setName}/>  
  )  
}
```

```
setName(event) {  
  this.setState({name: event.target.value});  
}
```

## Vue

```
<input type="text"  
  v-model="name"/>
```

# Patterns for best practise

```
<template>  
  <button @click="increaseCounter">  
    Click me: {{ doubleCounter }}  
  </button>  
</template>
```

```
<script>  
  export default {  
    data: () => ({  
      counter: 0,  
    }),  
    methods: {  
      increaseCounter() {  
        this.counter++;  
      },  
    },  
    computed: {  
      doubleCounter() {  
        return this.counter * 2;  
      },  
    },  
  }  
</script>
```



# State management

## React

```
state = {  
  counter: 0  
};  
  
increaseCounter() {  
  this.setState({  
    counter: this.state.counter + 1  
  });  
}
```

## Vue

```
const state = {  
  counter: 0  
}  
  
export default {  
  data: () => ({  
    state,  
  }),  
  method: {  
    increaseCounter() {  
      this.state.counter++;  
    }  
  },  
}
```

```
import store from './store';

export default {
  data() {
    return {
      privateState: {a: 1},
      globalState: store.state,
    },
  },
  method: {
    increaseCounter() {
      store.increaseCounter();
    },
  },
  computed: {
    counter() {
      return this.globalState.counter;
    },
  },
}
```

```
export default new class Store {
  state = {
    counter: 0
  }

  increaseCounter() {
    this.state.counter++;
  }
}
```

# Summary

- The problem with React
- Compared React and Due
- The solution for communication