

# Vue.js

Introduction and comparison with React.js

# Introduction

Share same philosophy with React:

- Using Virtual DOM manipulation, both supporting JSX
- Provide reactive and view components
- Focusing on view layer, routing and state management handled by other tools/libraries

# Vue - Intuitive and easy to learn template

How React does it:

```
<!DOCTYPE html>
<html>
  <head>
    <title>React Hello World</title>
    <script src="https://fb.me/react-15.0.0.js"></script>
    <script src="https://fb.me/react-dom-15.0.0.js"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/babel-core/5.8.34/browser.min.js"></script>
  </head>
  <body>
    <div id="greeting"></div>
    <script type="text/babel">
      var Greeting = React.createClass({
        render: function() {
          return (
            <p>Hello from React</p>
          )
        }
      });
      ReactDOM.render(
        <Greeting/>,
        document.getElementById('greeting')
      );
    </script>
  </body>
</html>
```

# Vue - Intuitive and easy to learn template

How Vue does it

```
<!DOCTYPE html>
<html>
<head>
  <title>Vue Hello World</title>
  <script src="https://vuejs.org/js/vue.min.js"></script>
</head>
<body>
  <div id="app">
    {{ message }}
  </div>
  <script>
    new Vue({
      el: '#app',
      data: {
        message: 'Hello from Vue'
      }
    });
  </script>
</body>
</html>
```

# Simple Iteration

React:

```
// React.js (.jsx)

const array = [1, 2, 3, 4];
const Iteration = ({ items }) => <div> {items.map(item => <span>{item}</span>)} </div>;

ReactDOM.render(<Iteration items={array}/>, document.getElementById('array'));
```

Vue:

```
var Iteration = new Vue({
  el: '#array',
  data: {
    array: [1,2,3,4]
  }
});
```

```
<!-- Vue.js (html) -->

<div id="array">
  <span v-for="value in array">{{value}}</span>
</div>
```

# Vue - better performance

- Less overhead in DOM manipulation than React
- Optimized update of web components - partial update
- Light-weight framework, less time spent to learn and build

# Conclusion

## React:

Mature and large ecosystems

Good for large and high profile  
tech companies

More tools and having a larger  
community of developers

## Vue:

Good performance and easy to learn

Good for small companies and startup

Great potential and trend up in a

consistent rate, much more popular in

Asia

# Reference

<https://vuejs.org/v2/guide/comparison.html>

<https://rlafranchi.github.io/2016/05/03/vue-vs-react/>

<https://about.gitlab.com/2016/10/20/why-we-chose-vue>