React

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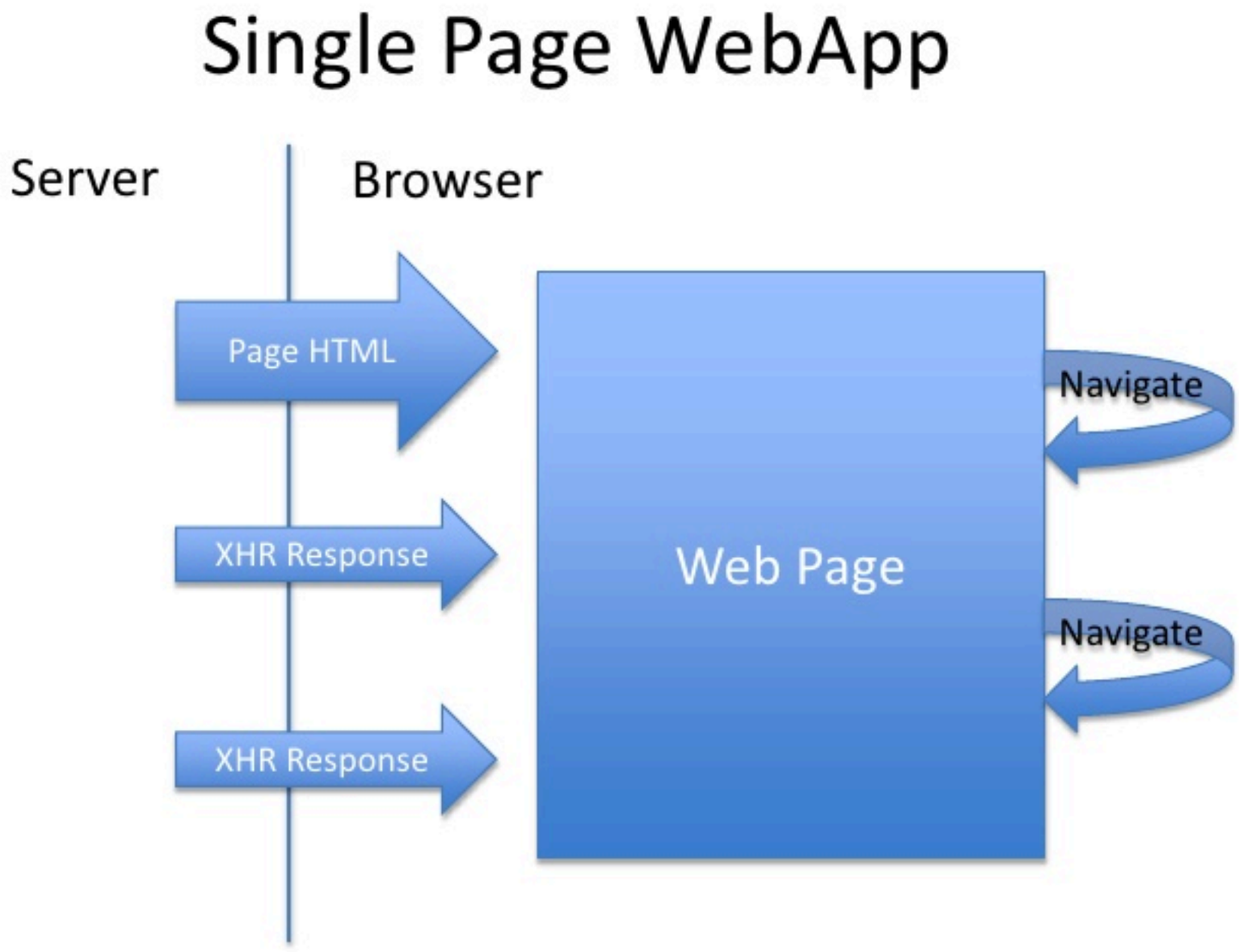
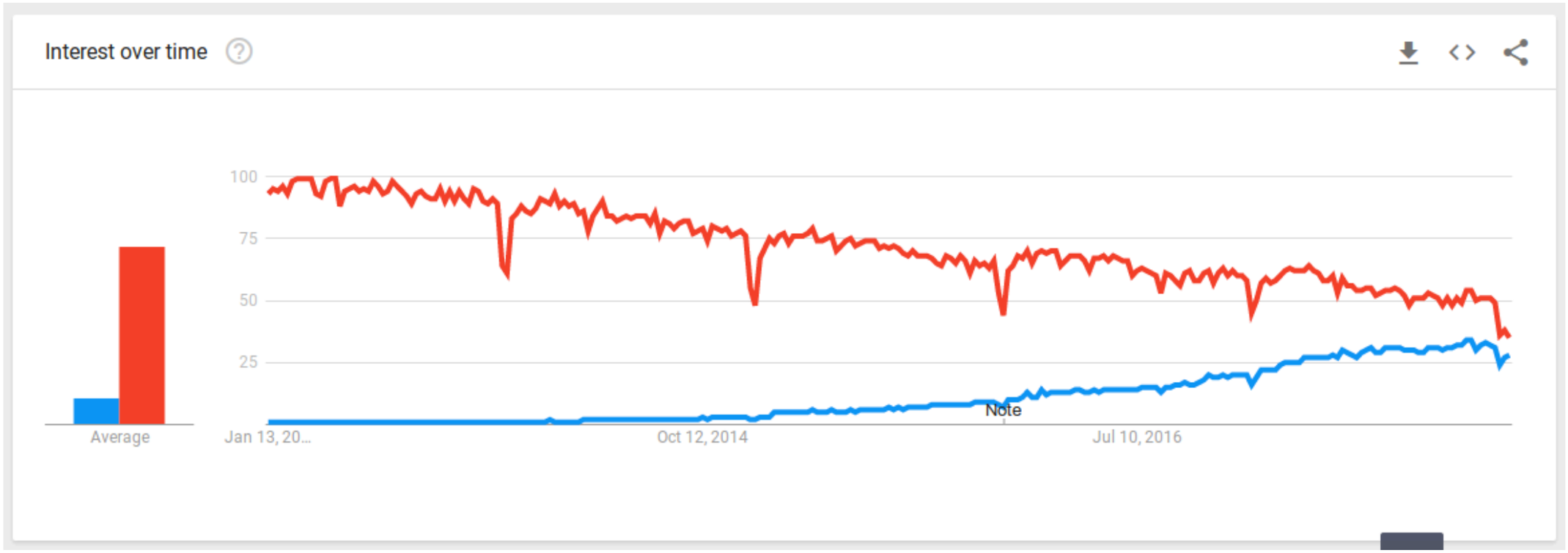
Elbrus Bootcamp, 26 nov 2018

SPA


Single Page WebApp
Server
Browser
Page HTML
XHR Response
XHR Response
Web Page
Navigate
Navigate

React vs jQuery

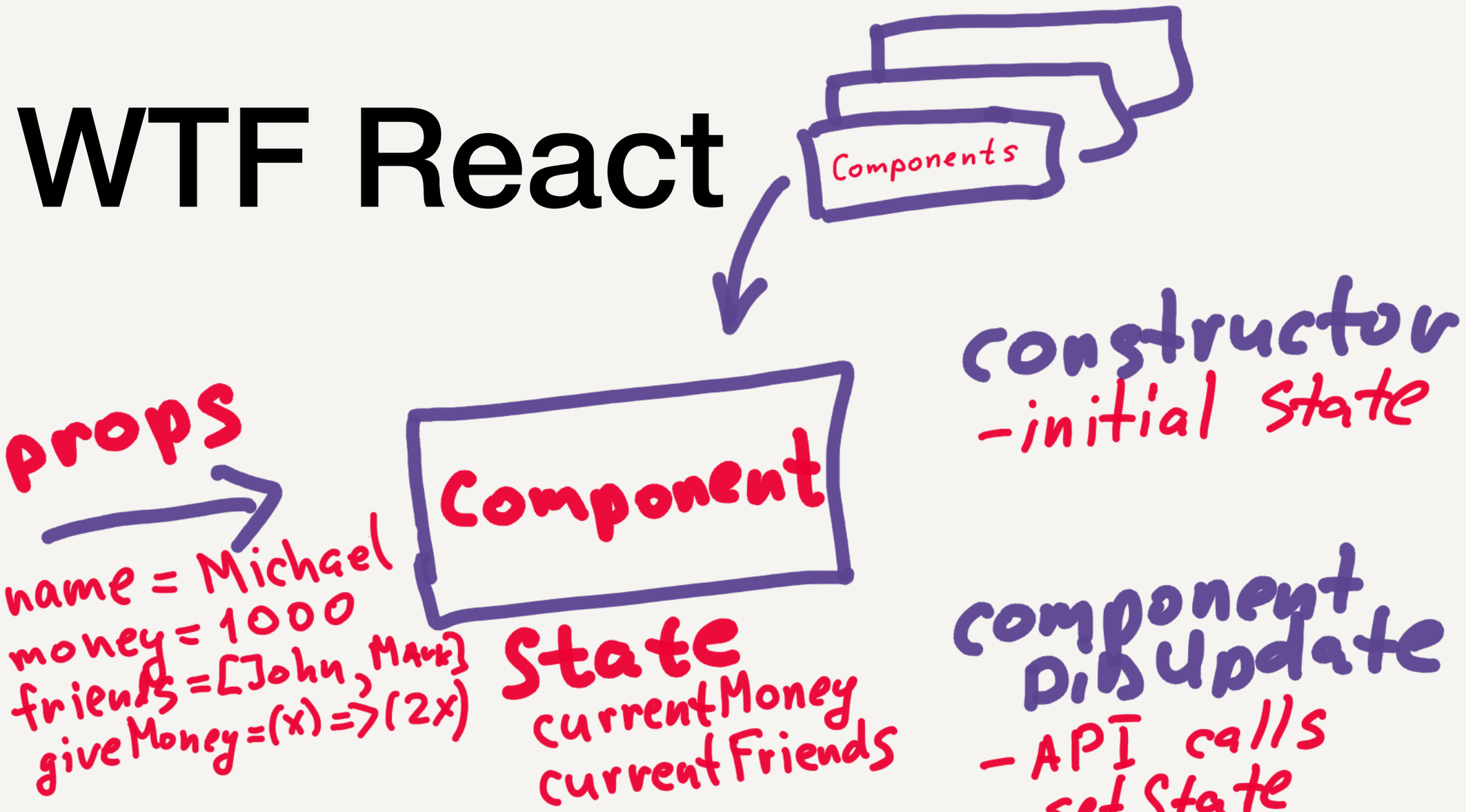


- jQuery - easy DOM manipulations
- React - helps manage the state of your pages.

Babel and Webpack

- import Common JS modules
- Transpile JSX

WTF React


Components
Component
props
name = Michael
money = 1000
friends = [John, Mark]
giveMoney = (x) => (2x)
State
currentMoney
currentFriends
constructor
-initial state
componentDidUpdate
- API calls
- setState
render
-conditional render
- events (onClick)

Component

```jsx
import React from 'react';

class Person extends React.Component {
  handleAddMoney = () => {
    this.setState({ currentMoney: this.props.addMoney(this.state.currentMoney) });
  }

  constructor(props) {
    super(props);
    this.state = { currentMoney: props.money, currentFriends: props.friends };
  }

  componentDidMount() {
    fetch('http://example.com/friends.json')
      .then((response) => {
        this.setState({ currentFriends: response })
      })
  }

  render() {
    const { currentMoney, currentFriends } = this.state;
    return (
      <div>
        <div className="money">{ currentMoney }</div>
        <div className="friends">{ currentFriends }</div>
        <button onClick={ this.handleAddMoney }>Add Money</button>
      </div>
    );
  }
}

```