ReactJs

1. App creation npx create-react-app my-react-app
   1. Single page application
   2. Everything is component
   3. React create virtual DOM
   4. Invented by facebook
   5. React is library
2. State vs props
3. Stateless component or functional component

import React from 'react';

import ReactDOM from 'react-dom/client';

class Header extends React.Component {

constructor(props) {

super(props);

this.state = {favoritecolor: "red"};

}

static getDerivedStateFromProps(props, state) {

return {favoritecolor: props.favcol };

}

render() {

return (

<h1>My Favorite Color is {this.state.favoritecolor}</h1>

);

}

}

1. Statefull component or class component

import React from 'react';

import ReactDOM from 'react-dom/client';

function Car(props) {

return <h2>I am a { props.brand }!</h2>;

}

const myElement = <Car brand="Ford" />;

1. React lifecycle

Mounting

1. constructor()
2. getDerivedStateFromProps()
3. render()
4. componentDidMount()

Update

1. getDerivedStateFromProps()
2. shouldComponentUpdate()
3. render()
4. getSnapshotBeforeUpdate()
5. componentDidUpdate()

Unmounting

* componentWillUnmount()

1. Routes
2. Hook
   1. useState
   2. useEffect
   3. useContext
   4. useRef
   5. useReducer
   6. useCallback
   7. useMemo
   8. custom hook