

## ReactJS basic concepts



Presented by: Hau Nguyen



### Agenda

- Functional component
- Class component
- Props vs State
- Handle events
- Lab: Simple Todo App
- Q&A



### Functional vs Class component



### **Props example**

```
function TodoList(props) {
return (
  ul>
    {props.todoList.map(todo => {todo.title})}
  function HomePage() {
const todoList = [
  {id: 1, title: 'TRUST ME! ReactJS is sexy! :P'}
];
return (
  <section>
    <TodoList todoList={todoList} />;
  </section>
```

```
class Counter extends React.Component {
constructor(props) {
  super(props);
  this.state = {
                               State example
    count: 0,
handleIncreaseClick = () => {
  this.setState(prevState => ({
    count: prevState.count + 1,
  }));
};
render() {
  const { count } = this.state;
  return (
    <div>
      {count}
      <button onClick={this.handleIncreaseClick}>Increase/button>
    </div>
   );
```

# State example



```
class Timer extends React.PureComponent {
constructor(props) {
  super(props);
  this.state = {
    seconds: -1,
  };
componentDidMount() {
  const { seconds } = this.props;
  this.countDown(seconds);
countDown(currentSecond) {
   if (currentSecond > 0) {
    this.setState({ seconds: currentSecond });
    setTimeout(() => this.countDown(currentSecond - 1), 1000);
  } else {
    this.setState({ seconds: 0 });
render() {
  const { seconds } = this.state;
  return <Clock seconds={seconds} />;
```

#### React

Functional Component vs Class Component

## Functional vs Class

- Receive parameter (Props) Optional
- Stateless or dumb component.
- Just Plain old JavaScript functions.
- Shorter to write
- For UI Components

- Has local State
- Receive parameter (Props) Optional
- Statefull or smart component
- Has Lifecycle hooks.
- Can Handles fetching data via ajax calls



### Props vs. State

- ★ Immutable
- ★ Has better performance
- Can be passed to child components



- ★ Owned by its component
- ★ Locally scoped
- ★ Writeable / Mutable
- ★ Has setState() method to modify properties
- ★ Changes to state can be asynchronous
- ★ Can only be passed as props









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### Thank You And see you ;)



