



# REDUX

## 1. Cài đặt stage-0

```
npm install babel-preset-stage-0
```

```
presets: ['react', 'es2015', 'stage-0']
```

## 2. Spread operator ES6

```
var person = {name: 'Pho', age: 18, height: 180}  
var person2 = {...person, name: 'Son'}  
console.log(person2); // {name: Son, age: 18, height: 180}
```

```
var arrNum = [5, 3, 6, 1, 9];  
var arrNum2 = [8, ...arrNum];  
console.log(arrNum); // [5, 3, 6, 1, 9]  
console.log(arrNum2); // [8, 5, 3, 6, 1, 9]
```

## 3. Cài đặt redux

```
npm install redux --save
```



## 4. Pure function

```
function add(a, b){  
  return a + b;  
}
```

No side effect

Same argument(s) – same result

No async action

## 5. Tạo pure function

```
const reducer = (state = defaultState, action) => {  
  switch (action.type) {  
    case 'CHANGE_NAME':  
      return {...defaultState, name: action.name};  
    case 'ADD_AGE':  
      return {...defaultState, age: state.age + 1};  
    default:  
      return state;  
  }  
}
```

## 6. Tạo store

```
const store = redux.createStore(reducer);
```



## 7. Dispatch an action

```
store.dispatch({type: 'CHANGE_NAME', name: 'Hanoi'});  
  
store.dispatch({type: 'ADD_AGE'});
```

## 8. Subscribe state changes

```
store.subscribe(() => {  
  const state = store.getState();  
  var inner = state.name + ': ' + state.age;  
  document.getElementById('p-redux').innerHTML = inner;  
});
```

## 9. Redux devTools

```
const store = redux.createStore(reducer, redux.compose(  
  window.devToolsExtension? window.devToolsExtension(): f => f  
));
```