

Redux Cheat Sheet (3.2.1)

const greetingReducer = (state='', action) =>
 switch (action.type) {
 case 'SAY_HELLO': return 'Hello '
 case 'SAY GOODBYE': return 'Goodbye '

return state

const nameReducer = (state='John', action) => {
 switch (action.type) {
 case 'CHANGE_NAME': return 'Joel'
 }

return state

const actionLogger = ({dispatch, getState}) =>
 (next) => (action) =>
 { console.log(action); return next(action) }

const reducers = combineReducers({
 greeting: greetingReducer,
 name: nameReducer
})

const middleware = applyMiddleware(actionLogger)
const store = createStore(
reducers,
{ greeting: '(Roll over me) '},
middleware

const changeName = () => {return { type: 'CHANGE_NAME' }}
const hello = () => {return { type: 'SAY_HELLO' }}
const goodbye = () => {return { type: 'SAY_GOODBYE' }}

const Hello = (props) =>
 <div
 onMouseOver={props.hello}
 onMouseOut={props.goodbye}
 onClick={props.changeName}>
 {props.greeting}{props.name}
 </div>
const render = () => {
 ReactDOM.render(
 <Hello
 greeting={store.getState().greeting}
 name={store.getState().name}</pre>

document.getElementById('root'

render()
store.subscribe(render)

Welcome to the egghead.io Redux cheat sheat! On your left you will find a full-fledged Redux application with a React.js front-end (React is not required).

function **reducer(STATE), ACTION**) ⇒ State

Takes the previous state and an action, and returns the next state.

Splitting your app into multiple reducers (greetingsReducer, nameReducer) allows for a clean separation of concerns when modifying your application's state.

function middleware({DISPATCH, GETSTATE}) ⇒ next ⇒ action

Receives Store's **dispatch** and **getState** functions as named arguments, and returns a function. That function will be given the next middleware's dispatch method, and is expected to return a function of action calling **next(action)** with a potentially different argument, or at a different time, or maybe not calling it at all. The last middleware in the chain will receive the real store's **dispatch** method as the next parameter, thus ending the chain.

combineReducers({REDUCERS}) → Function

Combines multiple reducers into a single reducing function with each reducer as a key/value pair. Can then be passed to **createStore()**.

applyMiddleware(...MIDDLEWARES) ⇒ Function

Extends Redux with custom functionality by wrapping the store's dispatch method.

createStore(Reducer, ?INITIALSTATE, ?enhancer) → Store

Creates a Redux store that holds the complete state tree of your app. There should only be a single store in your app.

store = { ... }

Brings together your application's state and has the following responsibilities:

- Allows access to state via getState();
- Allows state to be updated via dispatch (action);
- Registers listeners via subscribe(listener);
- Handles unregistering of listeners via the function returned by Subscribe(listener).

action = { type: String, ...payload: any }

Holds action payloads in plain javascript objects. Must have a type property that indicates the performed action, typically be defined as string constants. All other properties are the action's payload.

function actionCreator(?MY) → Action|AsyncAction

Creates an action with optional payload and bound dispatch.

bindActionCreators(ACTIONCREATORS, DISPATCH) ⇒ Fn | Obj

Turns an object whose values are action creators, into an object with the same keys, but with every action creator wrapped into a dispatch call so they may be invoked directly.

Redux's Three Principles

Single source of truth State is read-only Changes are made with pure functions

Glossary

State type State = any Action type Action = { type: String , PayLoad: any } Reducer type Reducer<State, Action> = (STATE , ACTION) => State **Dispatching Functions** type BaseDispatch = (ACTION) => Action type **Dispatch** = (Action | AsyncAction) => any Action Creator type ActionCreator = (ANY)) => Action | AsyncAction Asvnc Action type AsyncAction = any Middleware type **MiddlewareAPI** = { dispatch: Dispatch , getState: () => State } type **Middleware** = (**MiddlewareAPI**)) => (**Dispatch**) => **Dispatch** Store type Store dispatch(Action | AsyncAction) => any, getState() => State, replaceReducer(Reducer) => void Store Creator type StoreCreator = (Reducer , ?initialState , ?enhancer) => Store Store Enhancer type StoreEnhancer = (StoreCreator) => StoreCreator