Flux Architecture with Alt



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Overview

- What is Flux?
- Why use Alt?
- Install and configure
- Add login functionality
- Refactor the channel list
- Refactor the message list

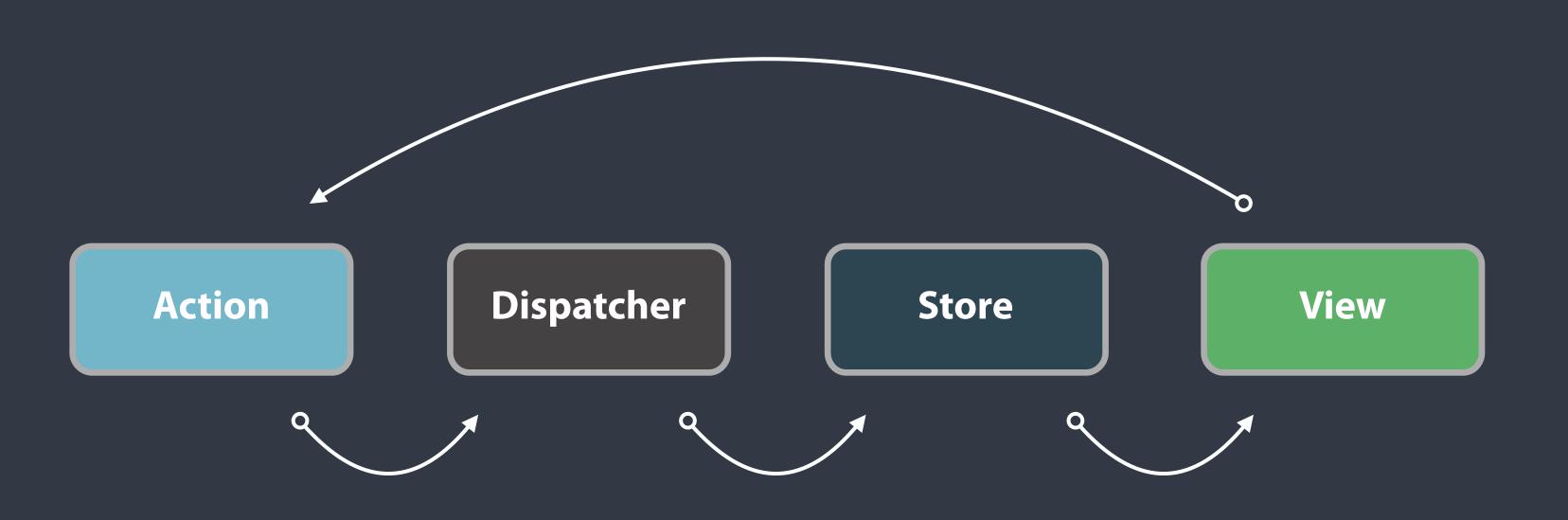


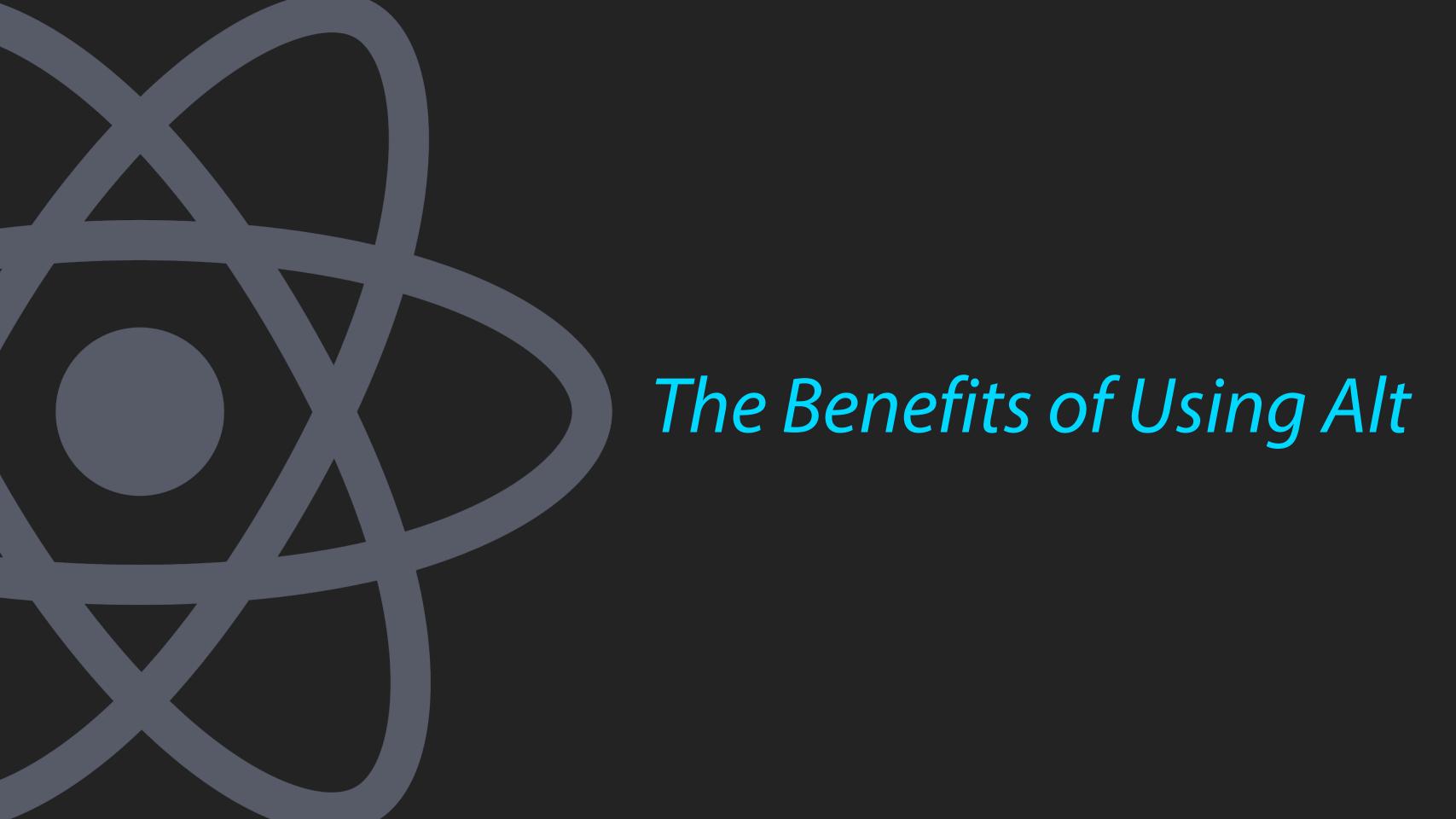
Facebook Architecture to

Structure React Applications

http://facebook.github.io/flux/



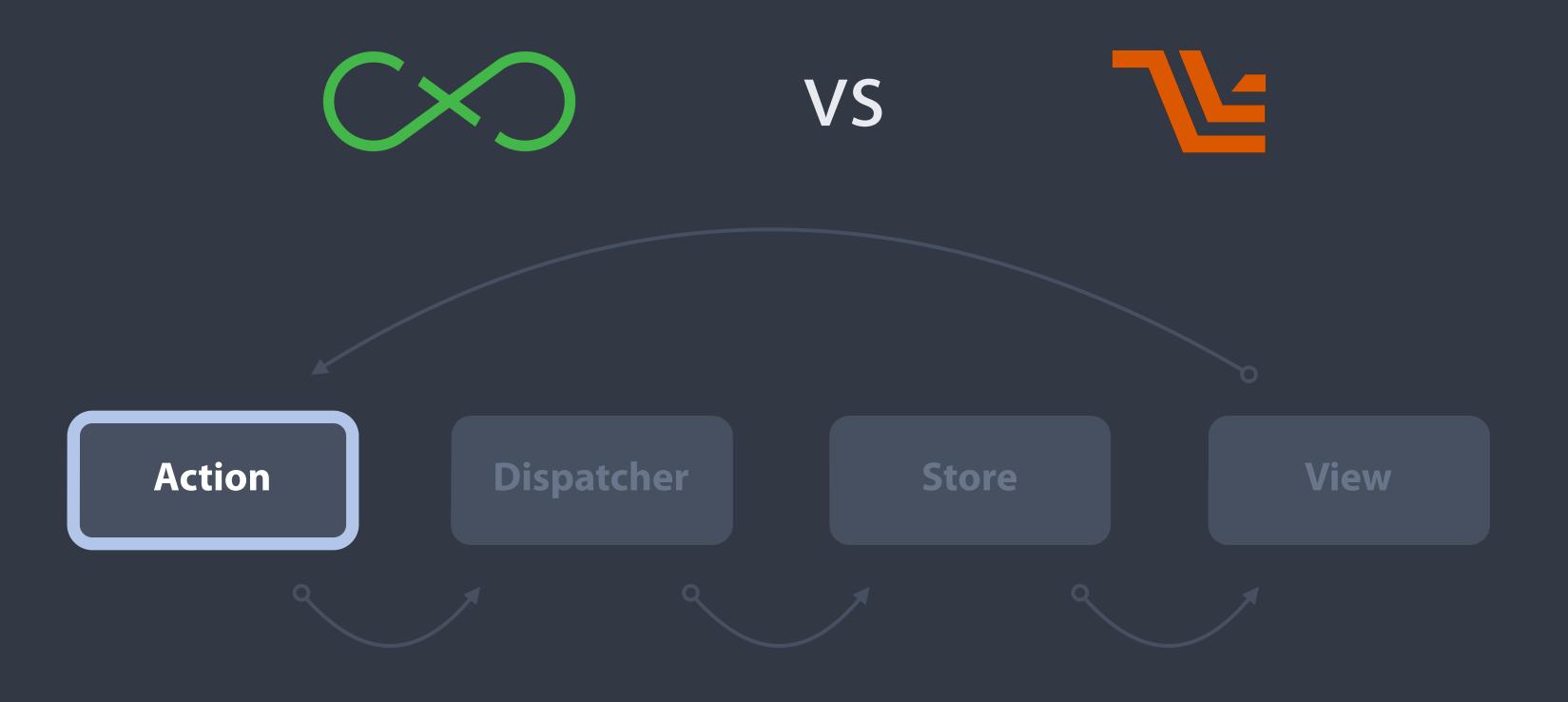






A Developer Friendly Implementation of the Flux Architecture

https://github.com/goatslacker/alt



```
let constants = {
  SAY_HELLO: 'SAY_HELLO',
  SAY_BYE: 'SAY_BYE'
export default constants;
```

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```
var AppDispatcher = require('../dispatcher');
var AppConstants = require('../constants');
class Actions {
  sayHello(message){
    AppDispatcher.dispatch({
      actionType: AppConstants.SAY_HELLO,
      message: message
    });
  sayBye(message){
    AppDispatcher.dispatch({
      actionType: AppConstants.SAY_BYE,
      message: message
    });
export default new Actions();
```

```
import alt from '../alt';
class Actions {
  constructor(){
    this.generateActions(
      'sayHello',
      'sayBye'
    );
```

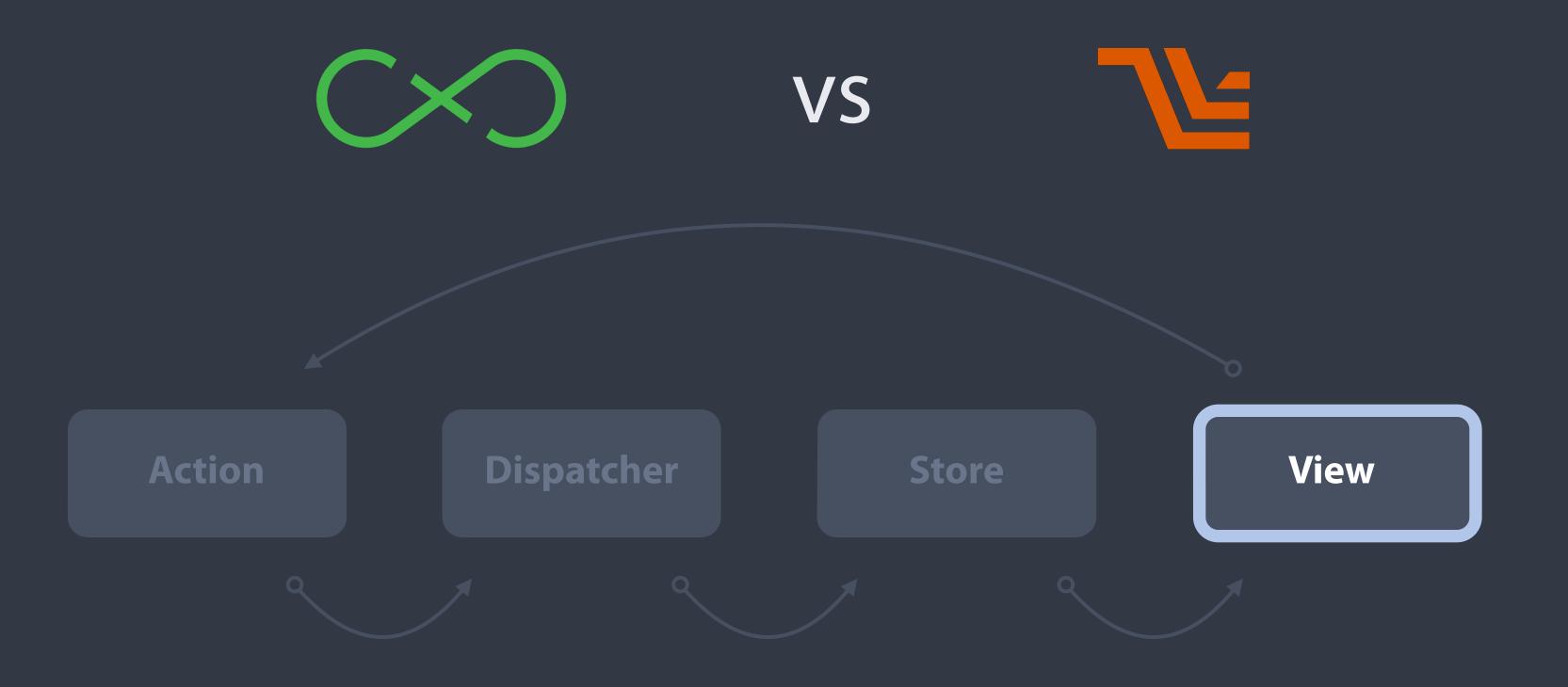
export default alt.createActions(Actions);





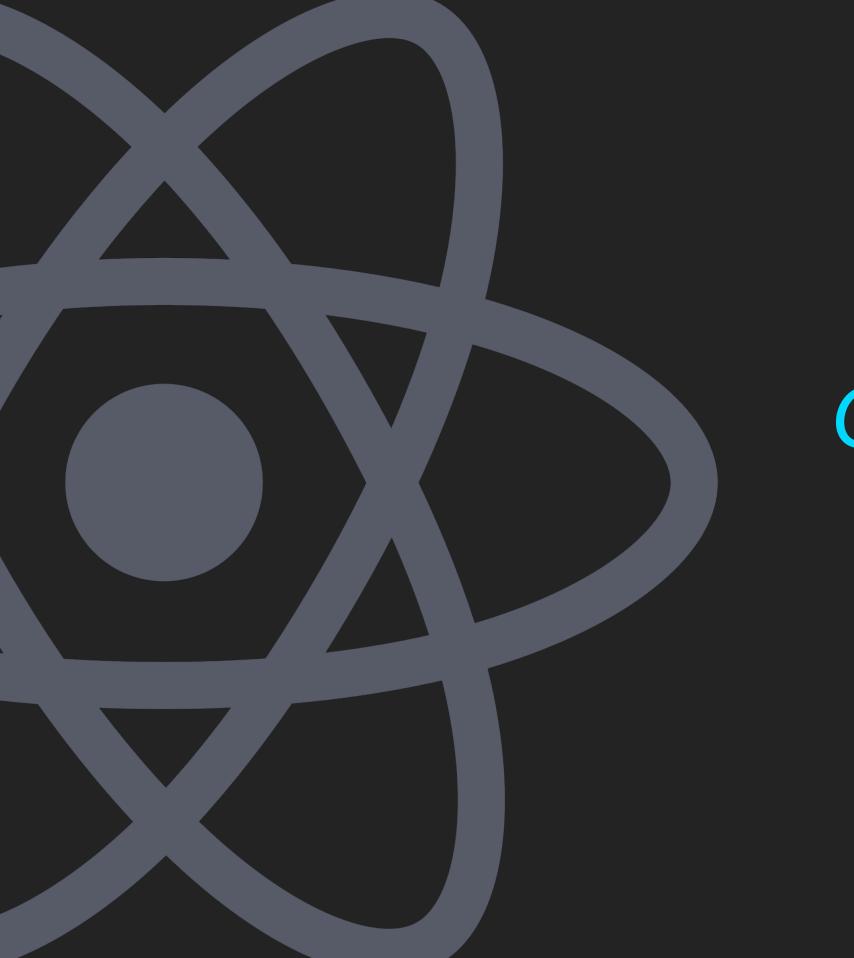
```
import alt from '../alt';
import Actions from '../actions';
import {decorate, bind} from 'alt/utils/decorators';
@decorate(alt)
class ChatStore {
  constructor(){
    super();
    this.state = {
     helloMessage: null,
     byeMessage: null
    };
  @bind(Actions.sayHello)
  sayHello(){
    this.setState({
      helloMessage: true
    });
  @bind(Actions.sayBye)
  sayBye(){
    this.setState({
     helloMessage: true
    });
export default alt.createStore(ChatStore);
```

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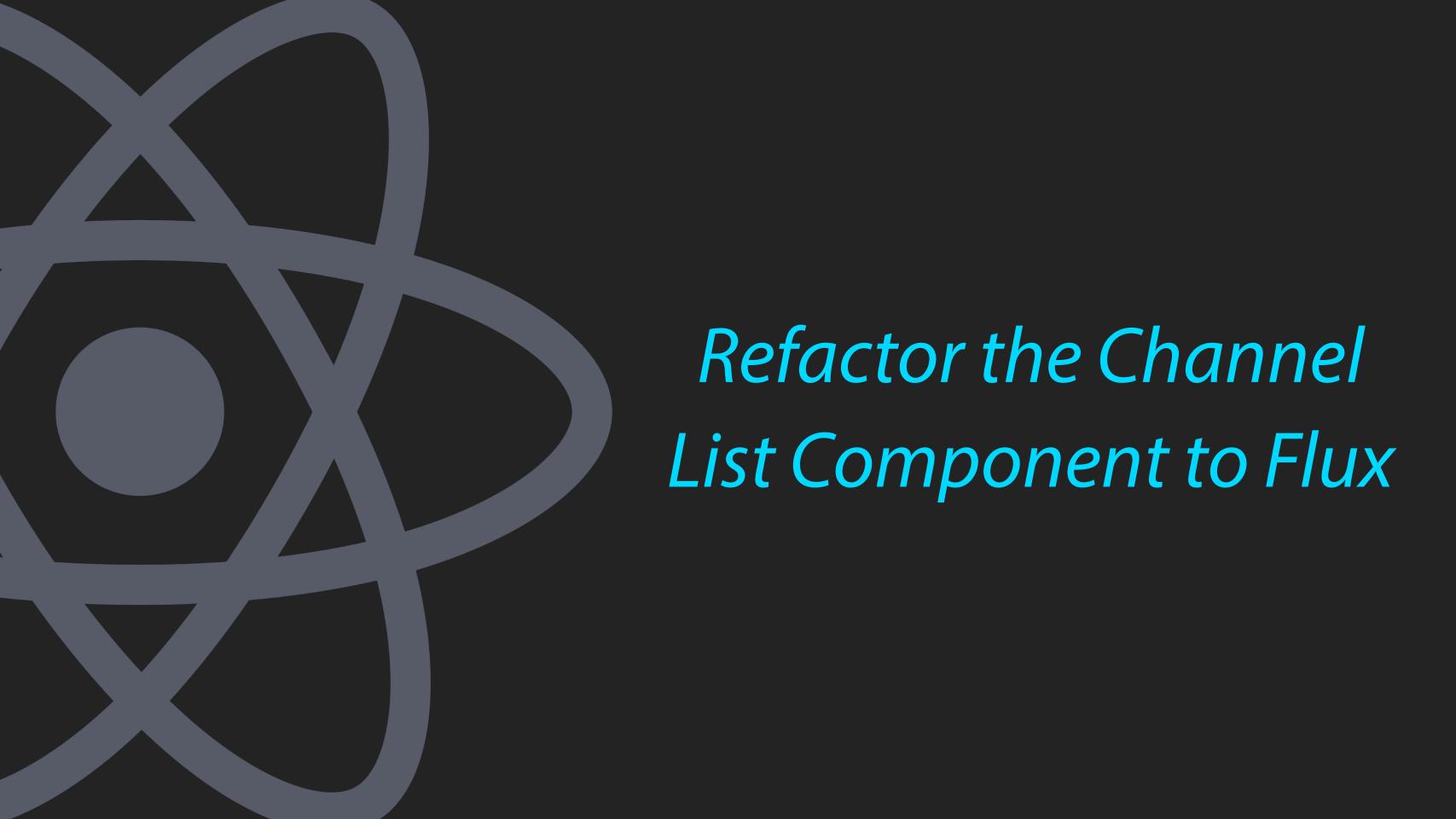


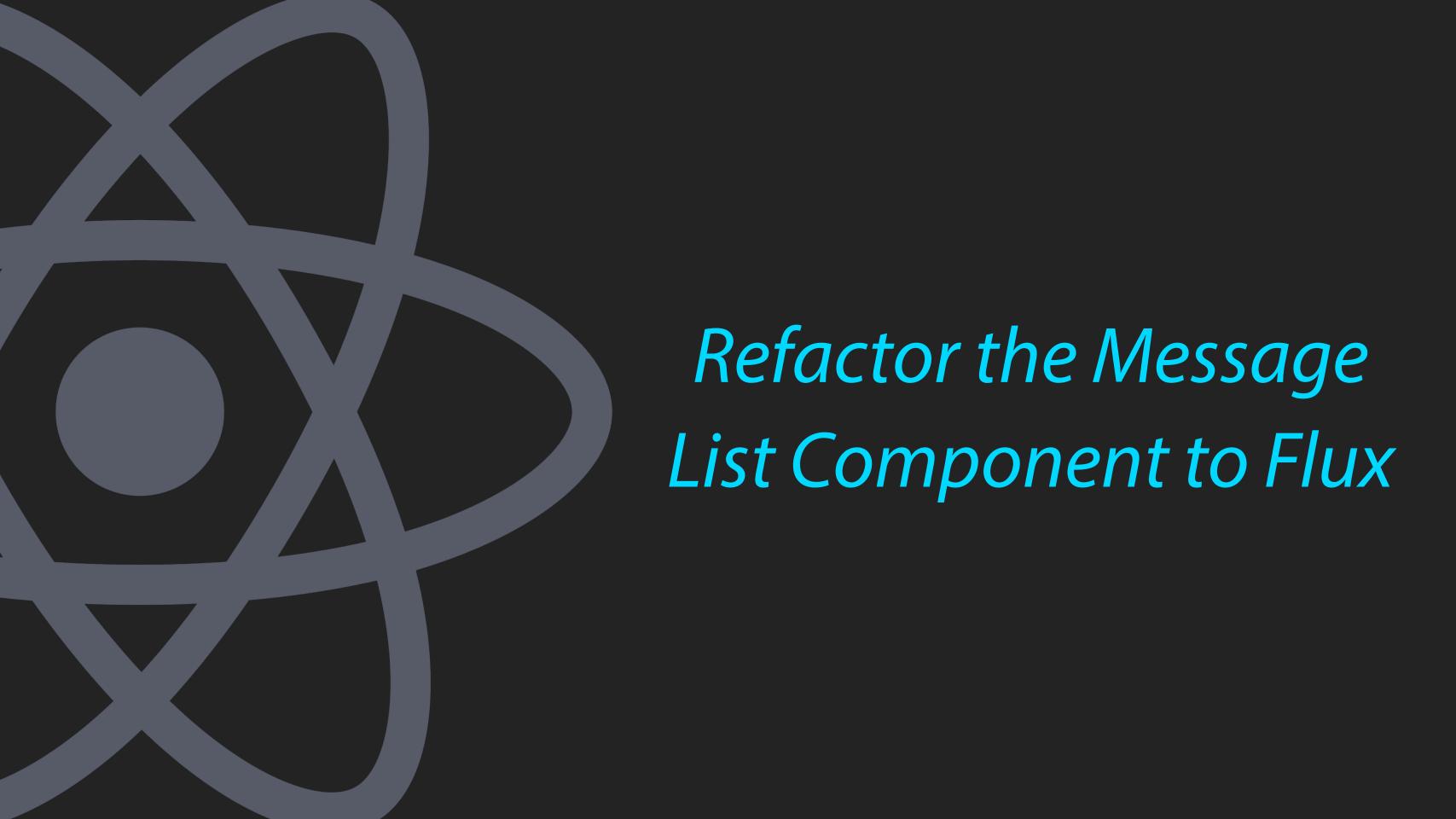
```
import React from 'react';
import ChatStore from './ChatStore';
class MessageComponent extends React.Component {
    constructor(props){
        super(props);
        this.state = {
            message: null
        };
        this.changeListener = this.onChange.bind(this);
        ChatStore.addChangeListener(this.changeListener);
    componentWillUnmount() {
      ChatStore.removeChangeListener(this.changeListener);
    onChange(){
      this.setState(ChatStore.getMessages());
    render(){
      ...
export default MessageComponent;
```

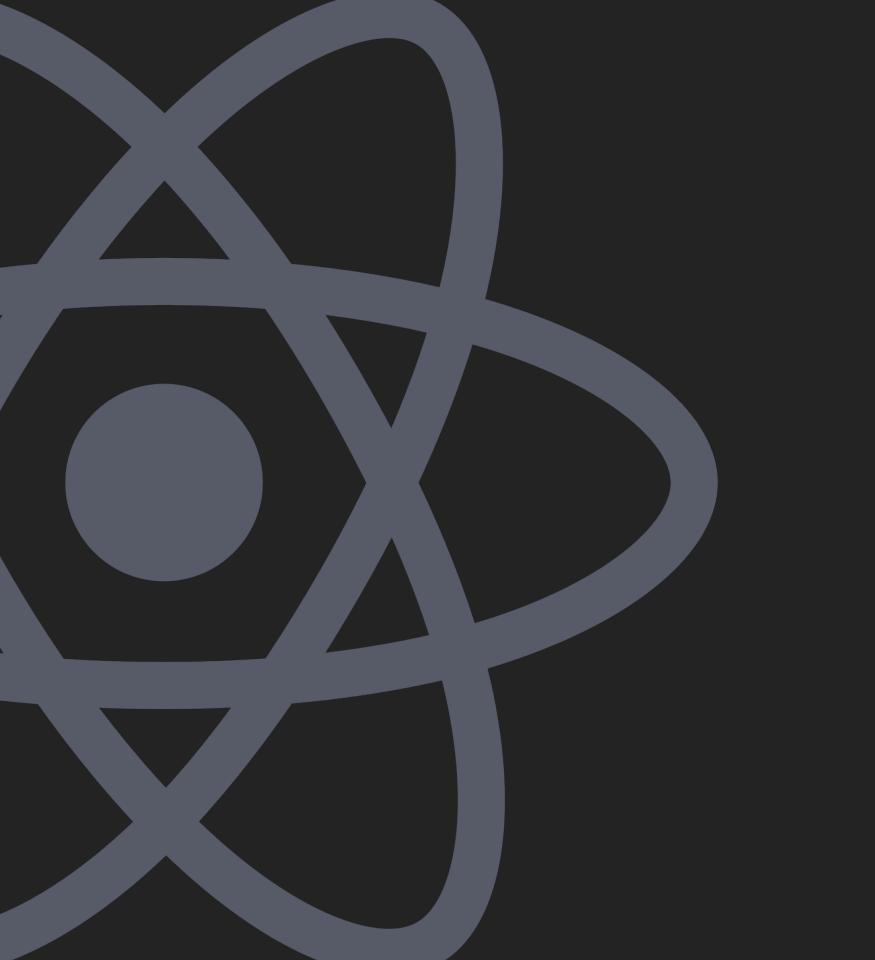
```
import React from 'react';
import connectToStores from 'alt/utils/connectToStores';
import ChatStore from './ChatStore';
@connectToStores
class MessageComponent extends React.Component {
  constructor(props){
    super(props);
    this.state = {
        message: null
   };
  static getStores(){
    return [ChatStore];
  static getPropsFromStores(){
    return ChatStore.getState();
  render(){
    ...
export default MessageComponent;
```



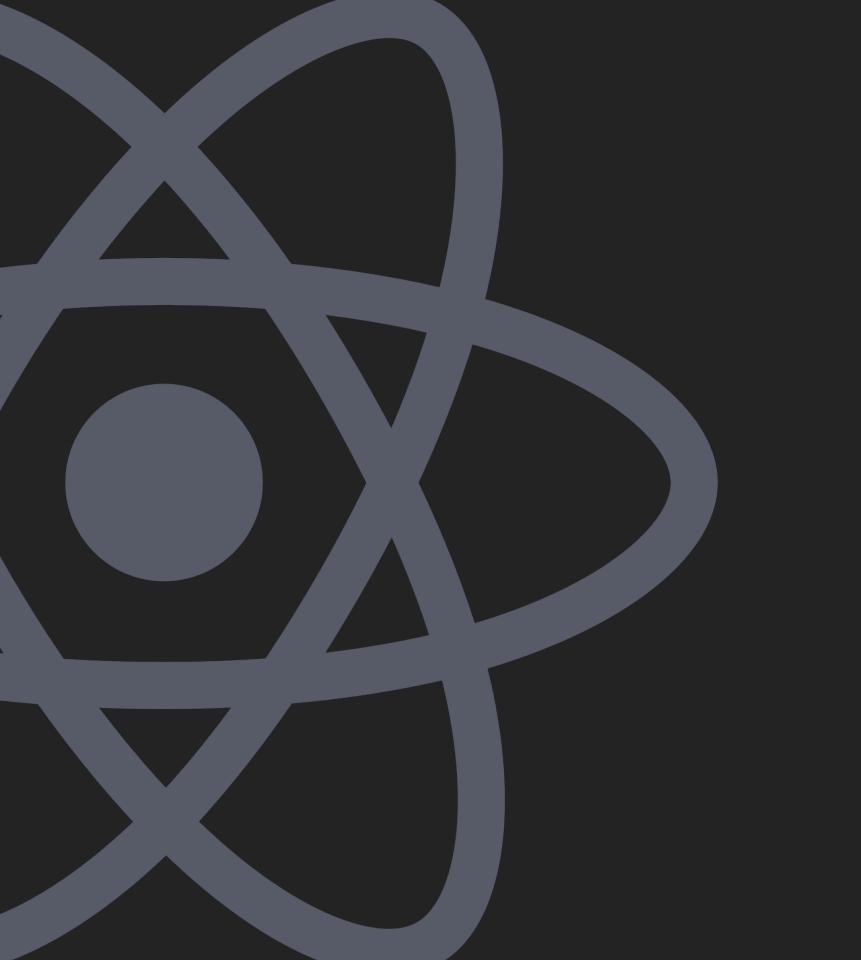
Getting Started with the Alt Library







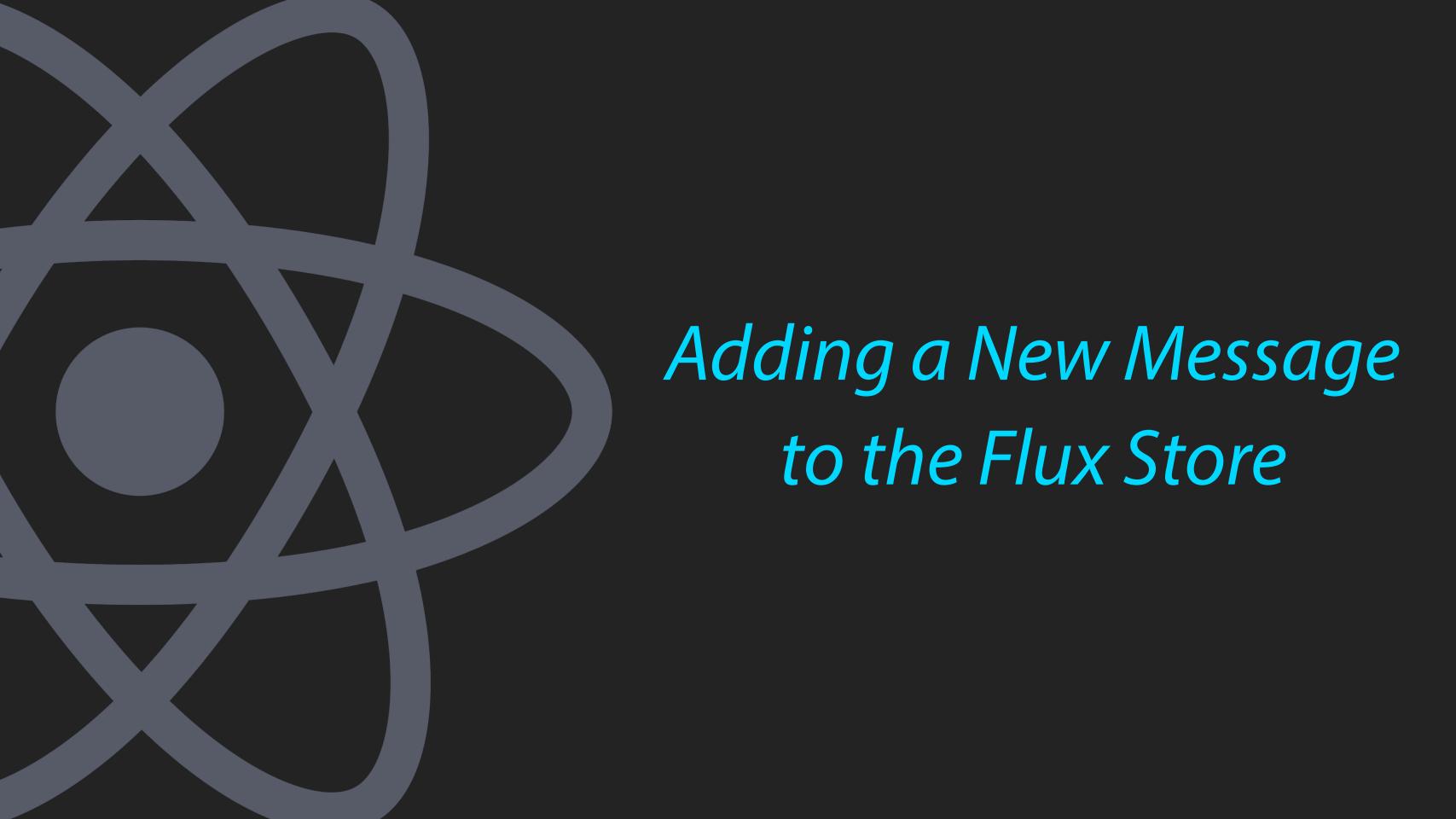
Responding to a Channel Selection

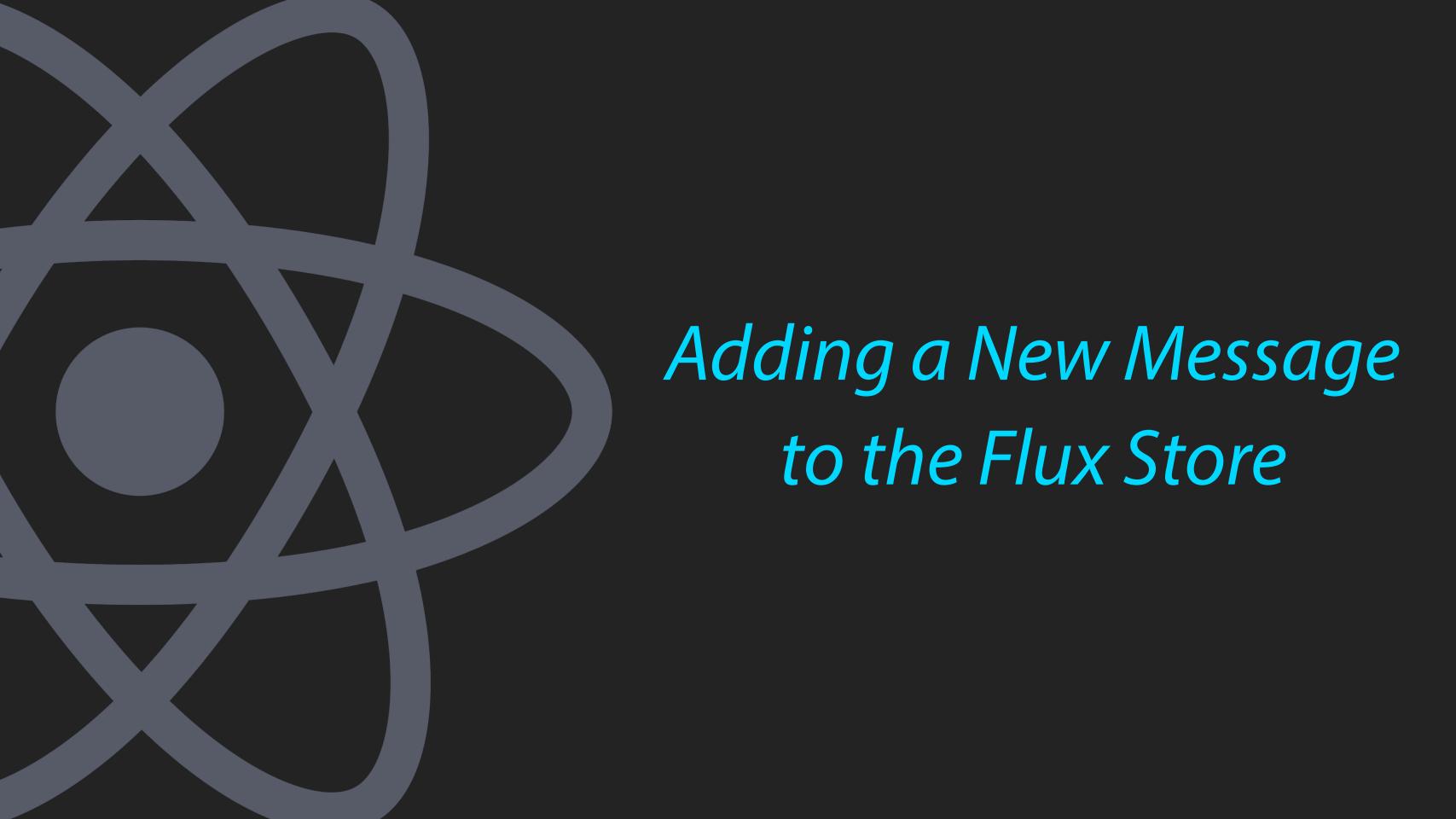


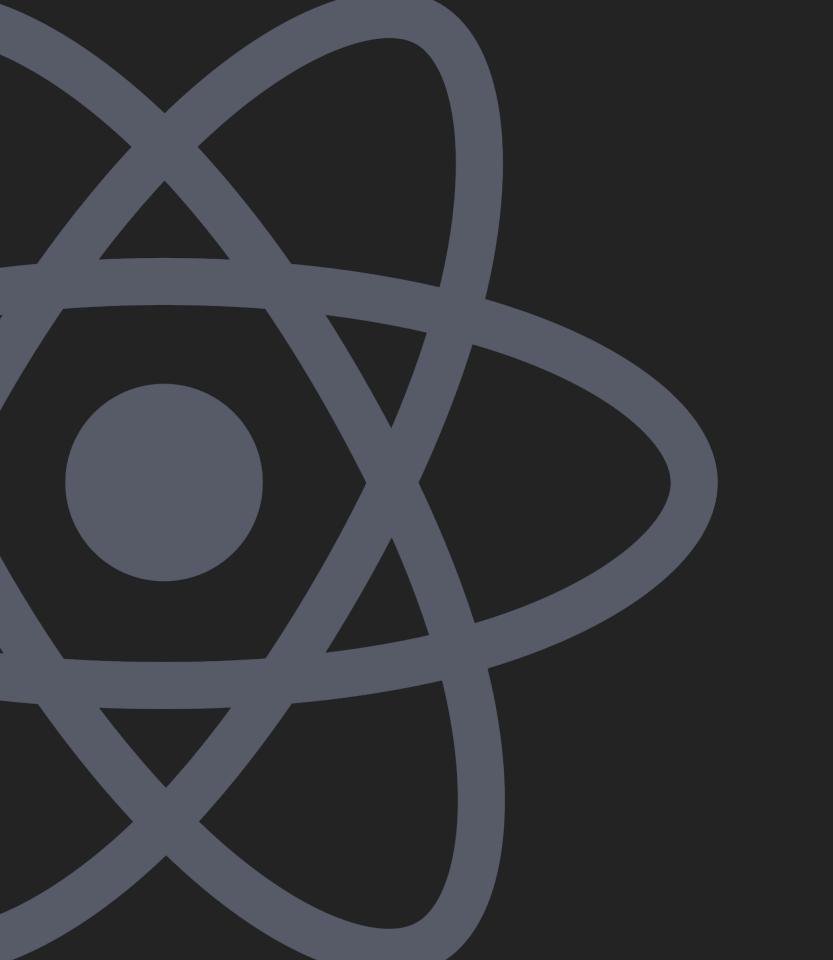
Showing Message Loading Progress



The Flux Way to Add a New Message







Recap

Recap

- Actions
 - generateActions()
- Stores
 - Sources @datasource
 - Binding to actions @bind
- Component binding to store updates
 - @connectToStores
 - getStores()
 - getPropsFromStores()

