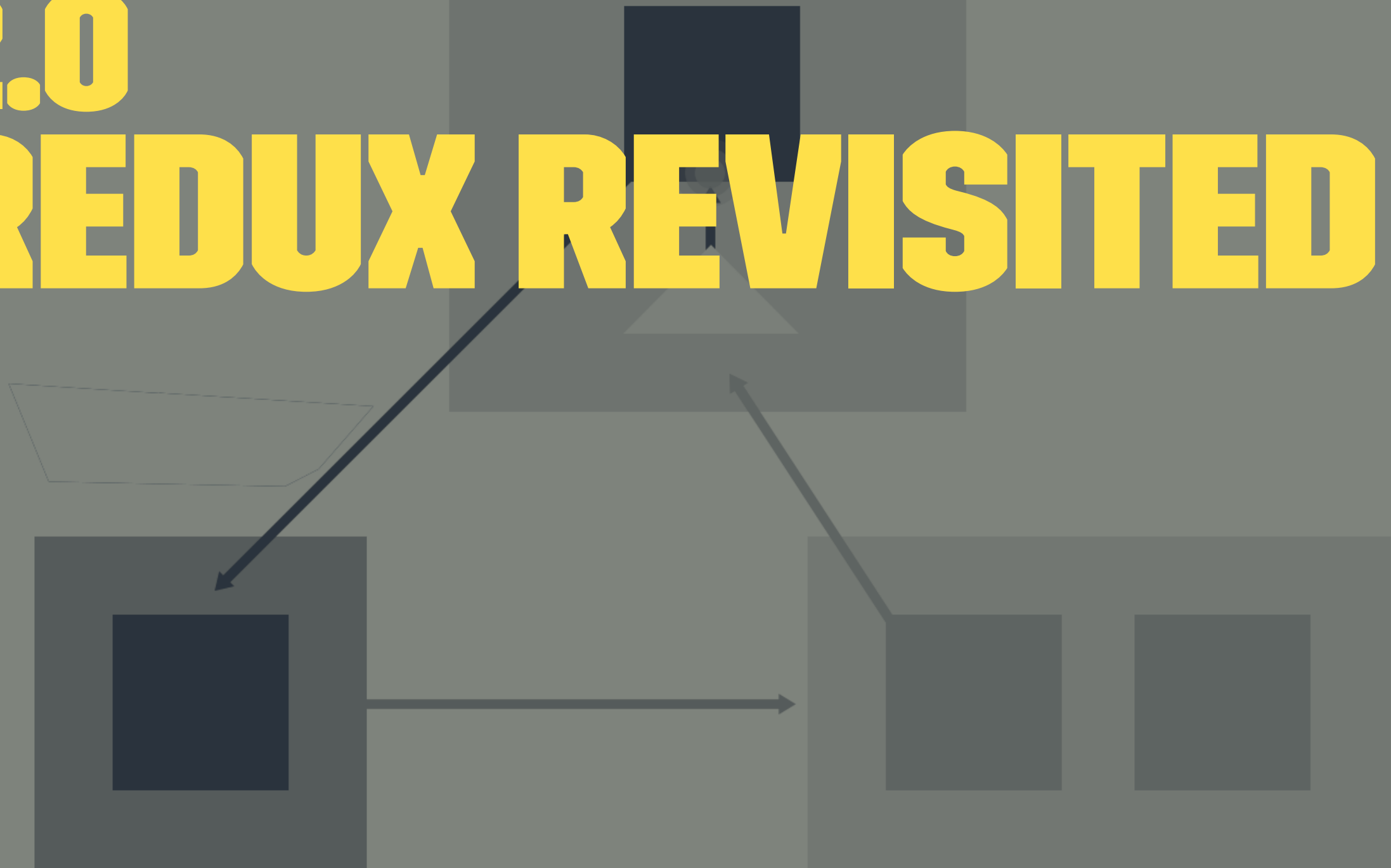
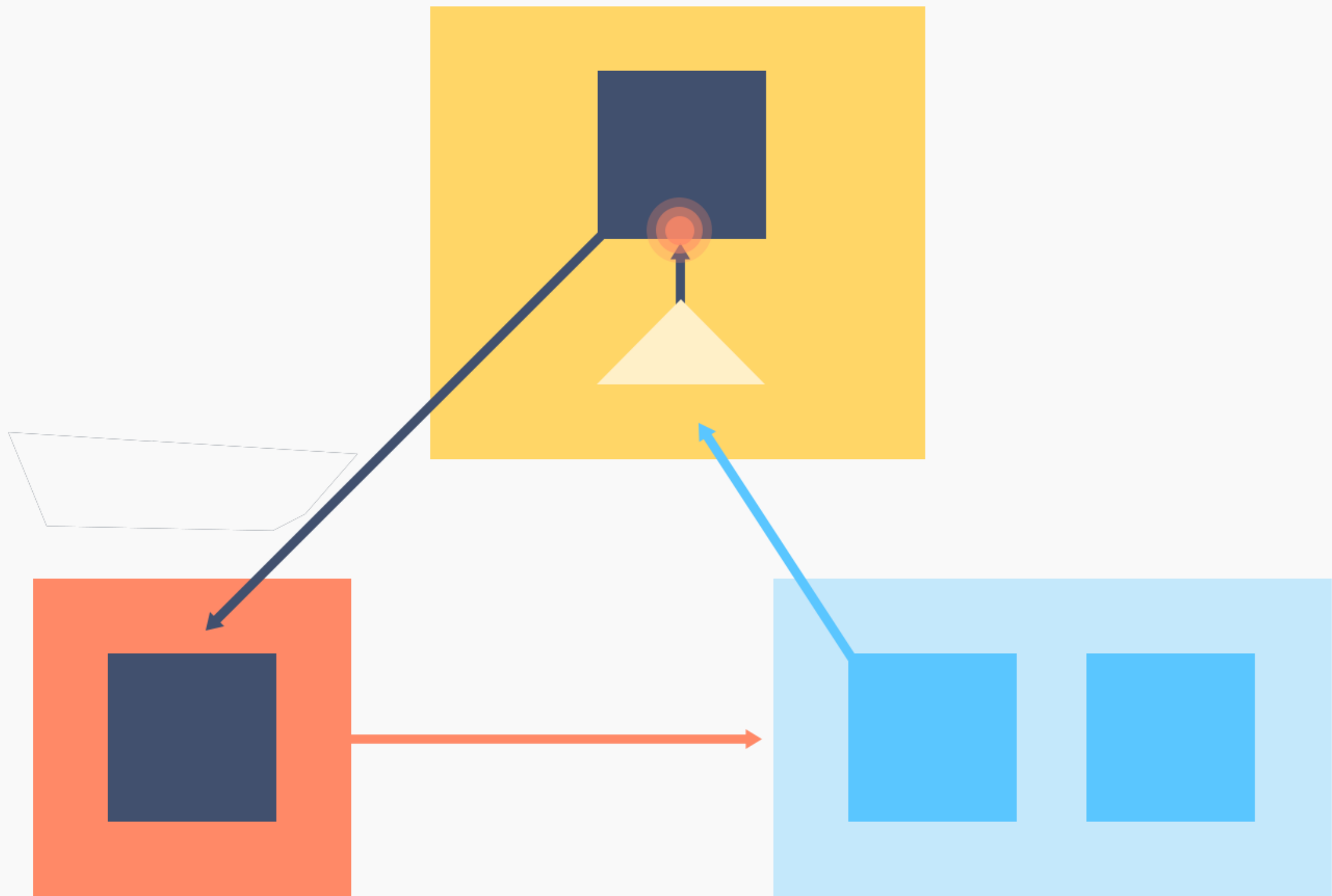


TWITTER DASHBOARD 2.0 REDUX REVISITED

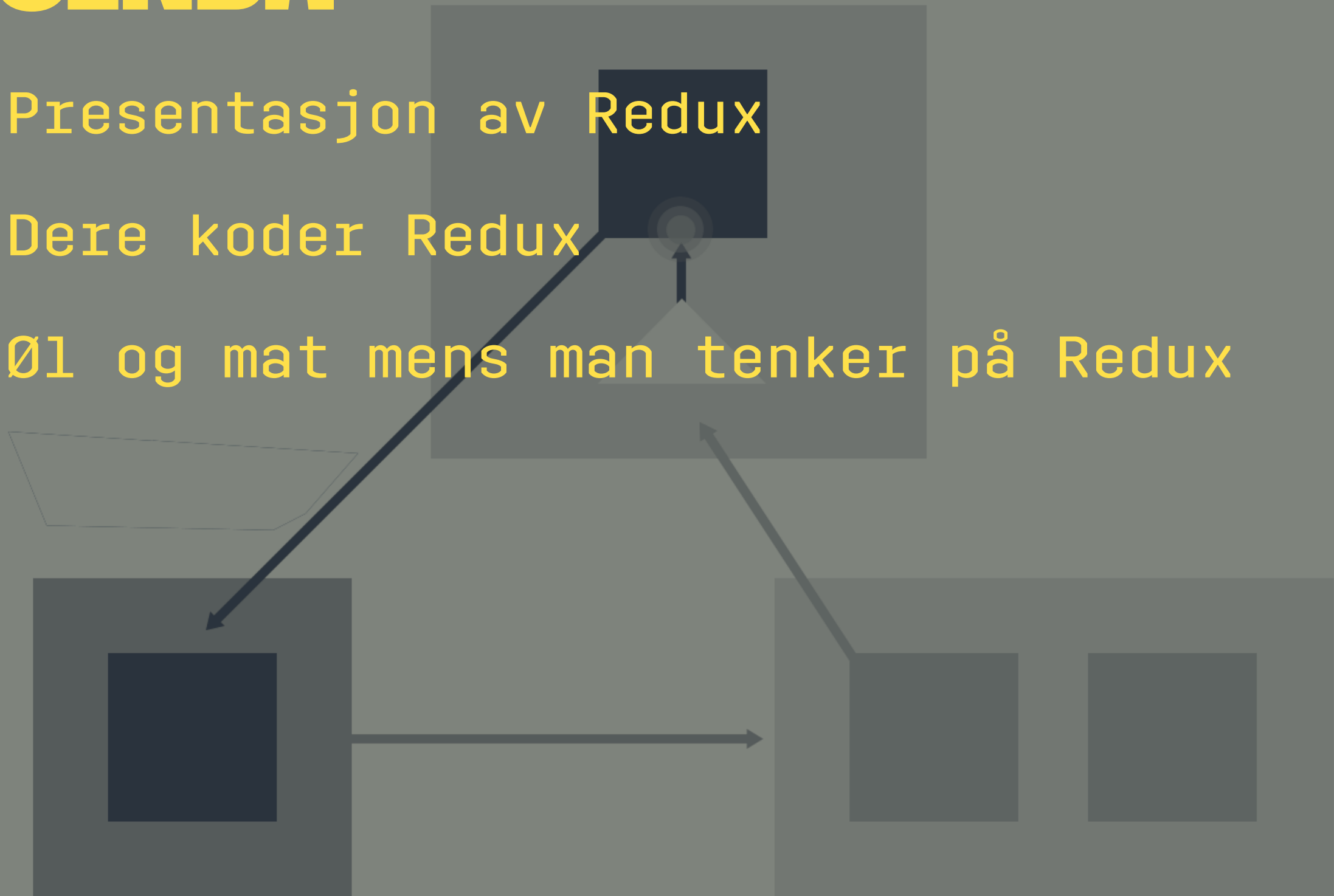


// GURO SETERNES, INGAR ALMKLOV, ERIK WENDEL



AGENDA


- 
1. Presentasjon av Redux
 2. Dere koder Redux
 3. Ø1 og mat mens man tenker på Redux



ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

Live Reactx

localhost:3000



Dan Abramov
@dan_abramov


Oh no am I really writing my own Flux library

RETWEETS


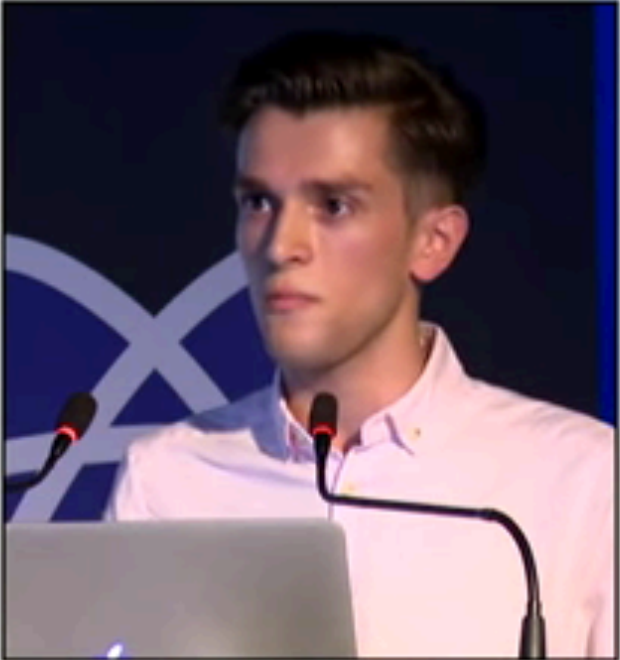
4

FAVORITES

14



10:41 PM - 29 May 2015



RANGLE.IO
REWRITING THE WEB

17:15 / 30:40

CCSettingsFullscreen

Dan Abramov - Live React: Hot Reloading with Time Travel at react-europe 2015



ReactEurope

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 2,087  4

todos



What needs to be done?



Use Redux

1 item left

All

Active

Completed

Reset

Revert

Sweep

Commit

@@INIT

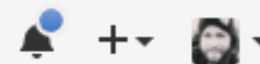
▼ state: {} 1 key

▶ todos: [] 1 item



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reactjs / redux

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Code

Issues 37

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Pulse

Graphs

Predictable state container for JavaScript apps <http://redux.js.org>

1,914 commits

8 branches

45 releases

283 contributors

Branch: master

New pull request

New file

Upload files

Find file

SSH

git@github.com:reactjs/redux



Download ZIP

gareon Update Ecosystem.md

Latest commit 1e517a3 a day ago

build	Use lodash-es in ES Modules build	2 months ago
docs	Update Ecosystem.md	a day ago
examples	fix minor typo	a month ago
src	Avoid every execution and allocation (#1595)	3 days ago
test	Fix typescript test of store enhancer	10 days ago
.babelrc	Use lodash-es in ES Modules build	2 months ago
.editorconfig	editorconfig: do not trim trailing whitespaces in Markdown files	2 months ago
.eslintignore	Really ignore all node_modules and dist in eslint.	a month ago
.eslintrc	Bump eslint version	6 months ago
.flowconfig	Add Flow type annotations	9 months ago
.gitignore	Add ES Modules build	2 months ago
.travis.yml	Cache examples node_modules.	a month ago
CHANGELOG.md	rackt -> reactjs (see #1392)	2 months ago
CNAME	Ensure CNAME survives doc rebuilds	6 months ago
CODE_OF_CONDUCT.md	Bump Contributor Covenant to 1.4	2 months ago
CONTRIBUTING.md	Bump Contributor Covenant to 1.4	2 months ago

KVALITETER

- » funksjonelt inspirert
- » svært testbart
- » klar fordeling av ansvar
- » egnet for store kodebaser med lang levetid



THE GIST

- » The whole state of your app is stored in an object tree inside a single store.
- » The only way to change the state tree is to emit an action, an object describing what happened.
- » To specify how the actions transform the state tree, you write pure reducers.

redux.js.org

THE GIST

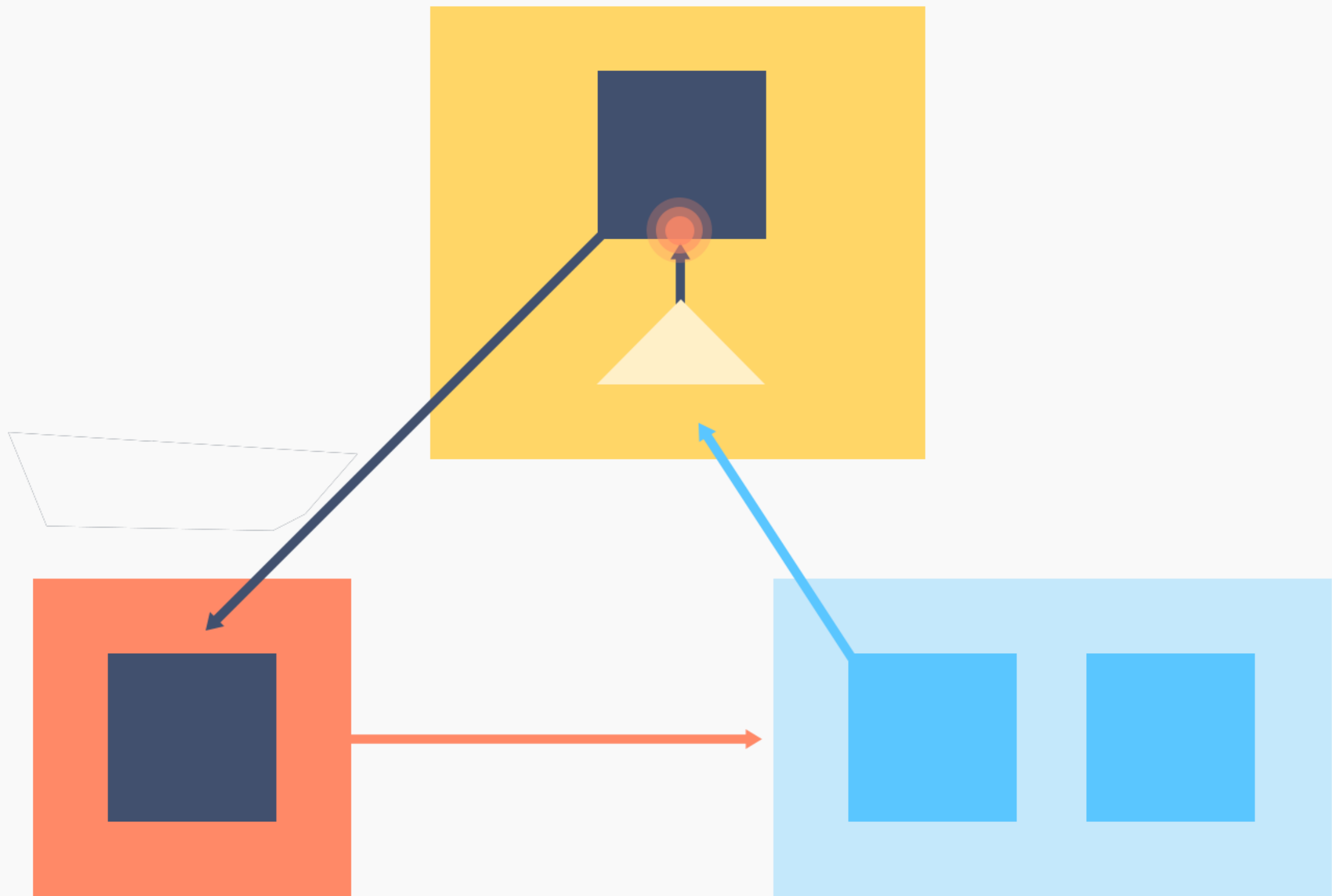
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- » To specify how the actions transform the state tree, you write pure reducers.

redux.js.org

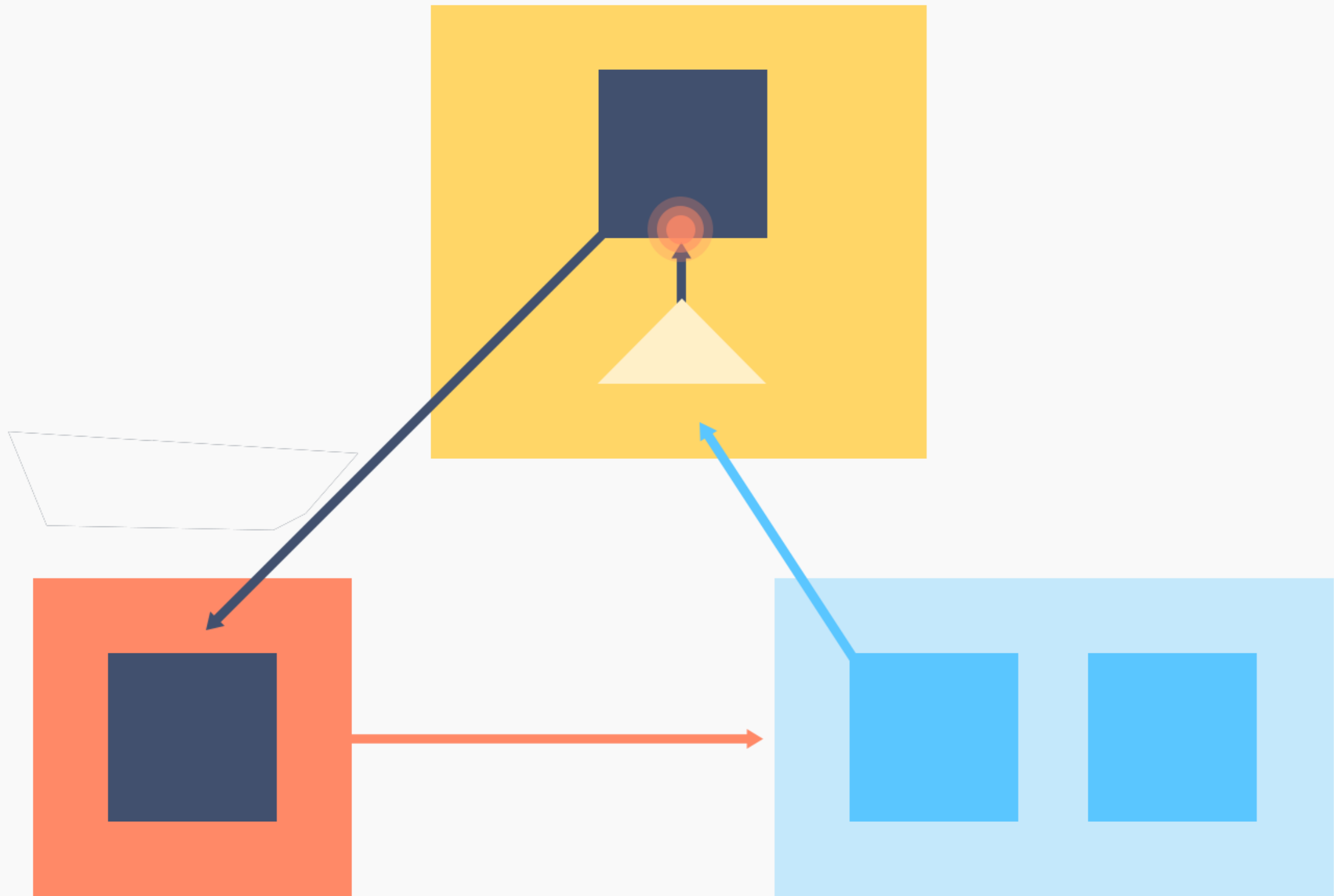
THE GIST

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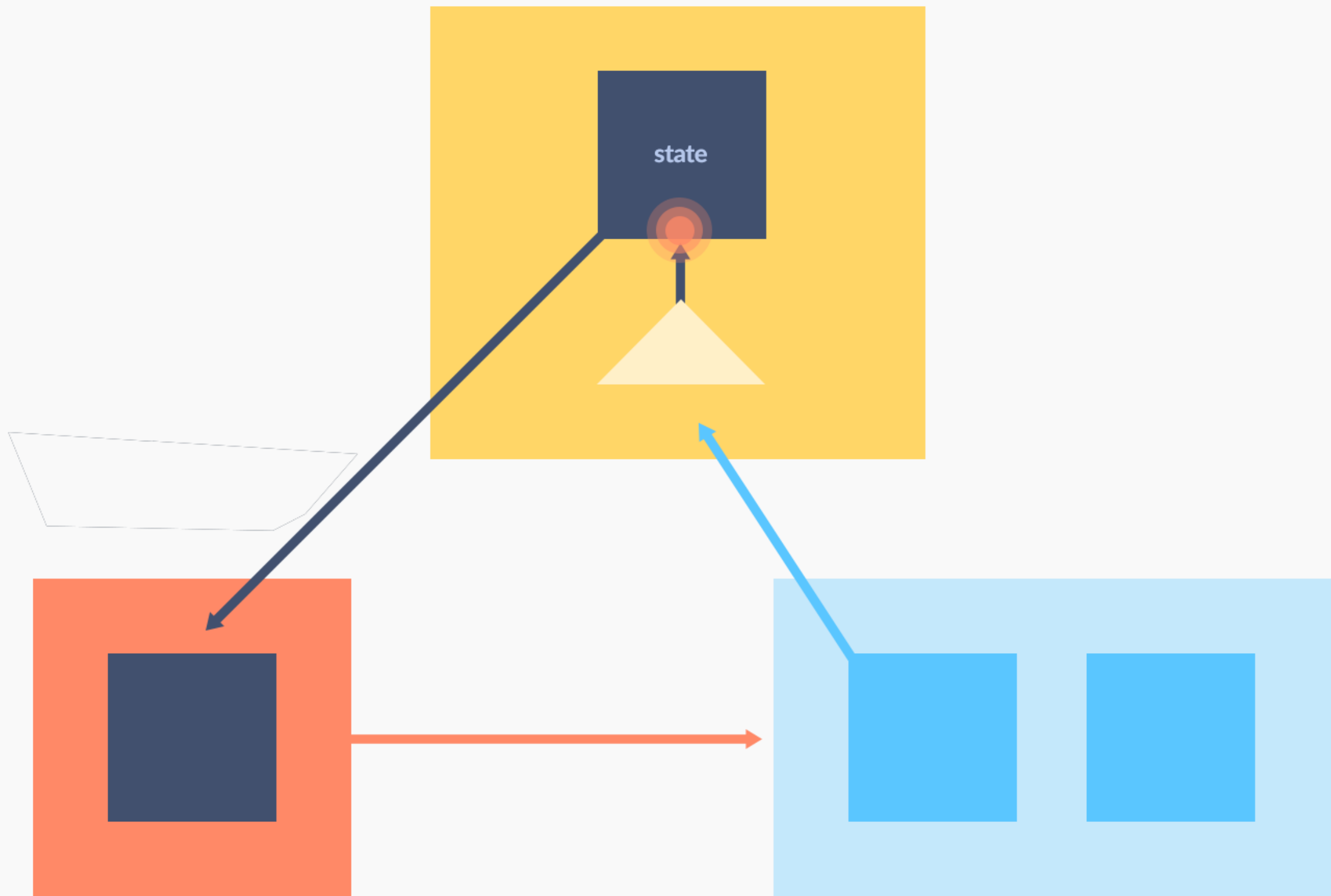
redux.js.org



Store

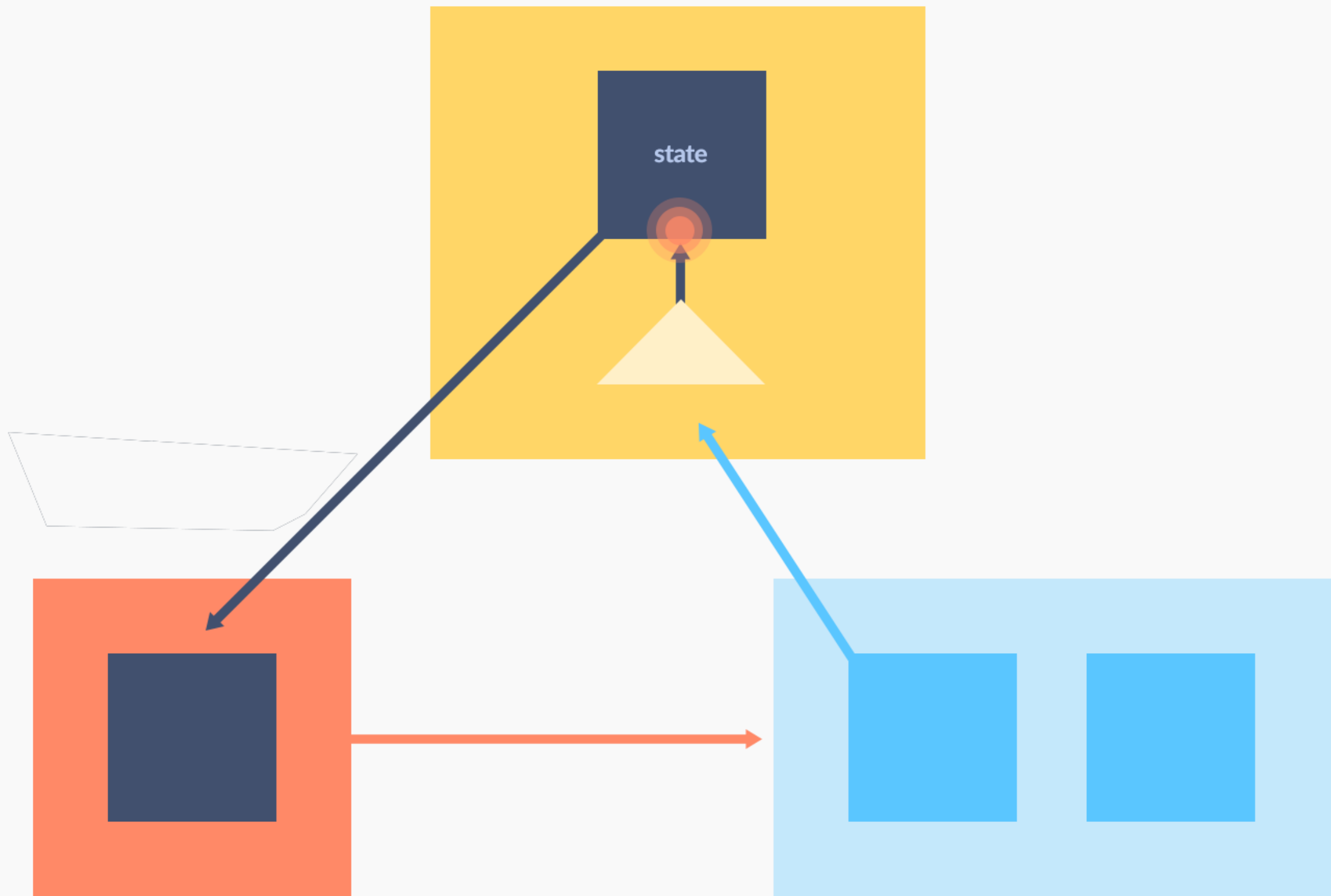


Store

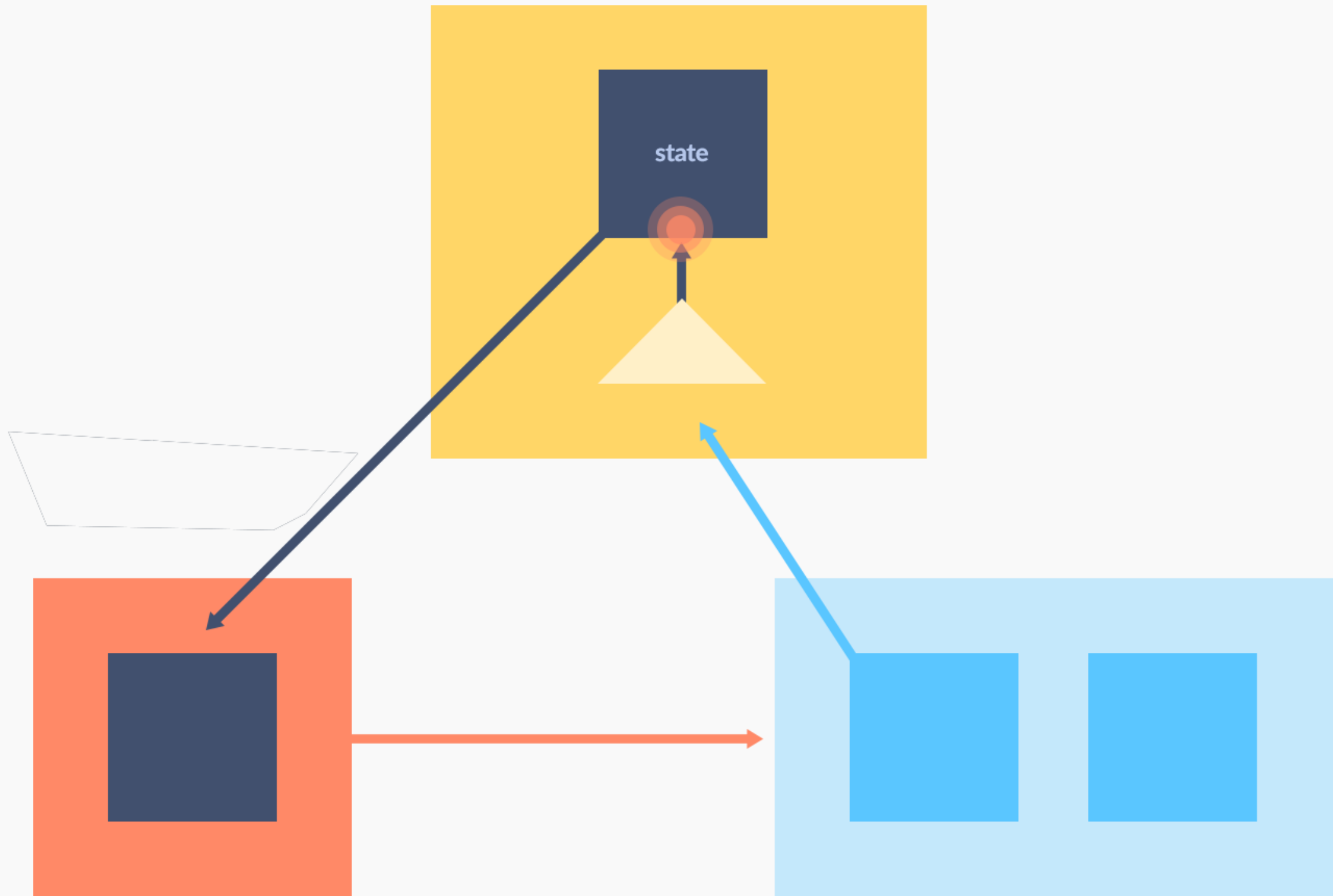


```
{  
  todos: [],  
  activeFilter: 'completed',  
}
```

Store

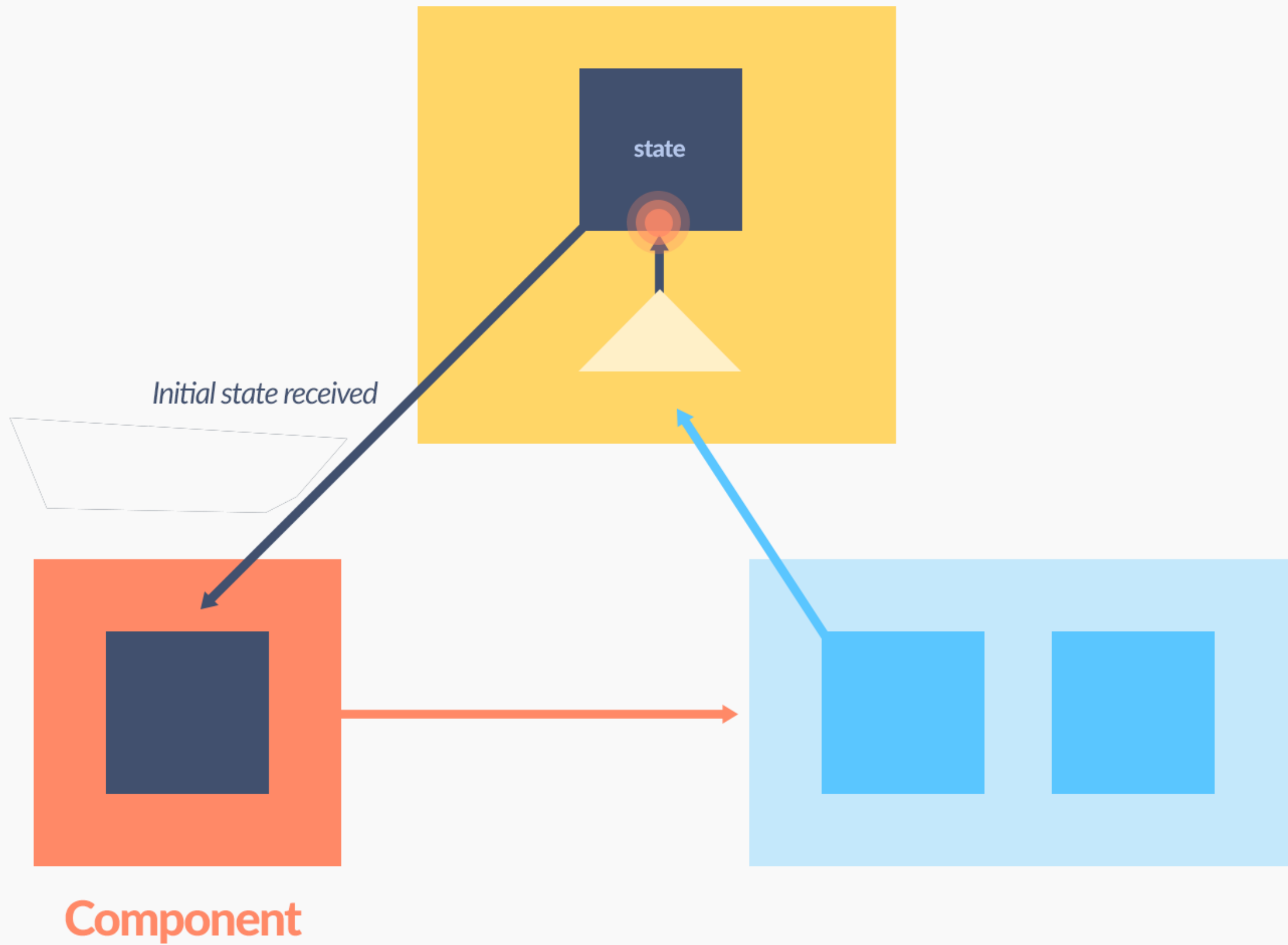


Store

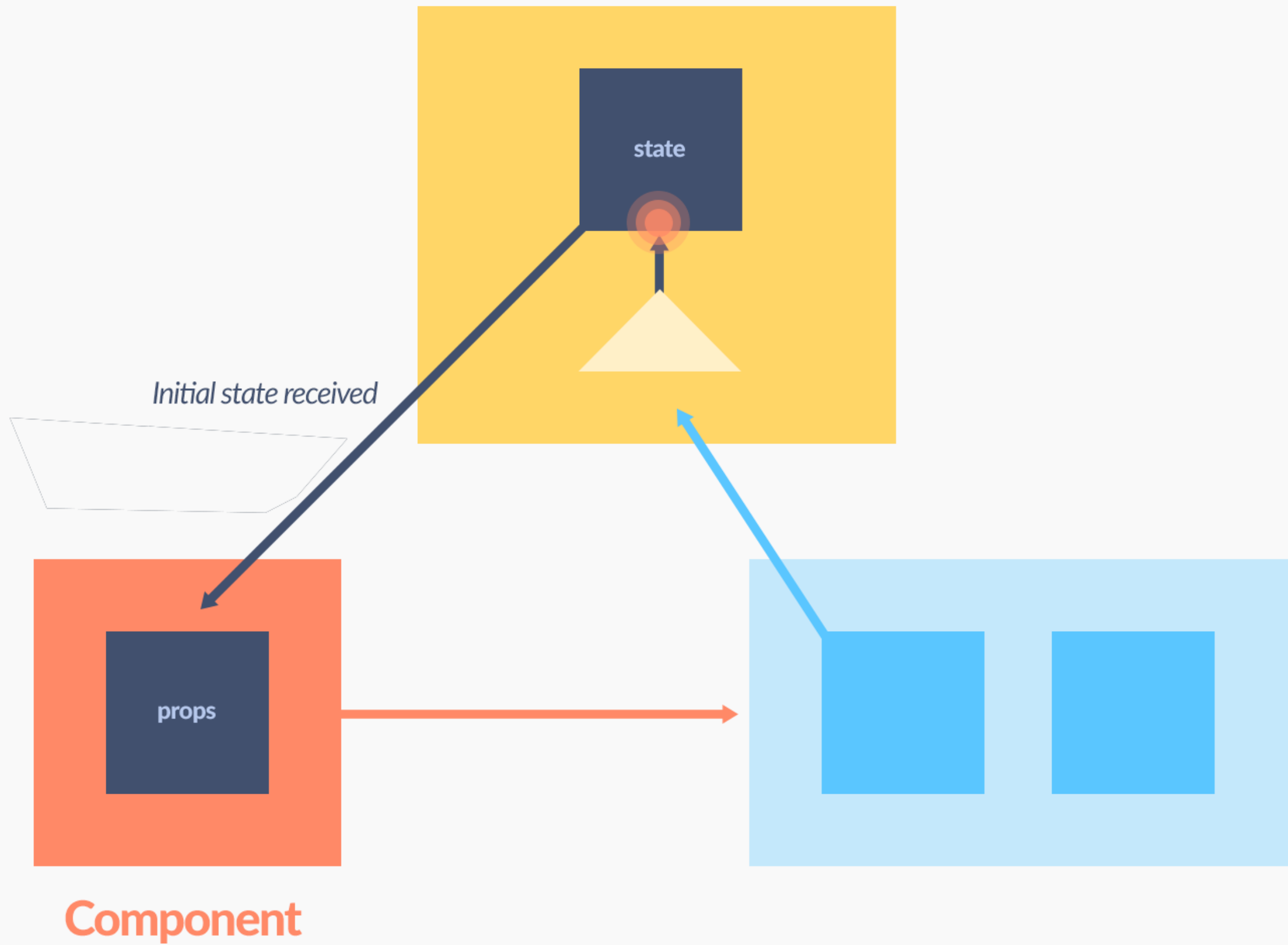


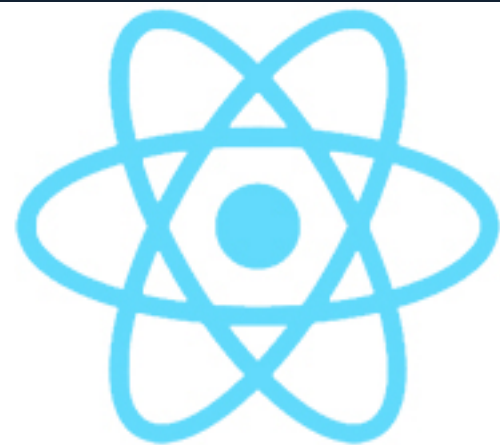
Component

Store



Store





React

RE-RENDER



ALL THE THINGS

memegenerator.net

DATA => HTML

```
function SomeComponent() {  
  return <div>  
    Hello World!  
  </div>  
}
```

```
import { render } from 'react-dom';  
  
render(<SomeComponent />, document.body);
```



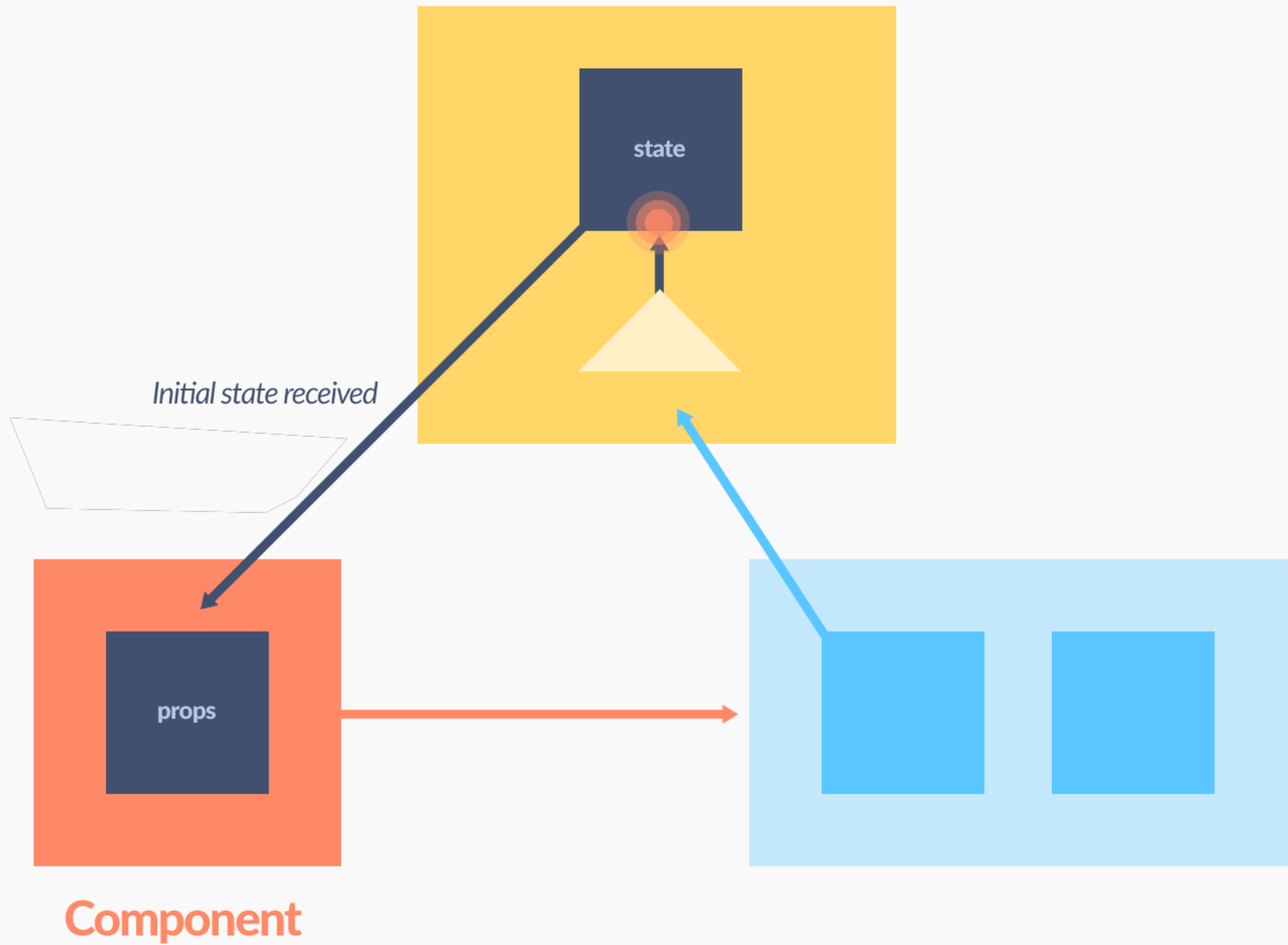
```
function SomeComponent(props) {  
  return <div>  
    Hello {props.name}!  
  </div>  
}
```

```
render(<SomeComponent name="World!" />, document.body);
```

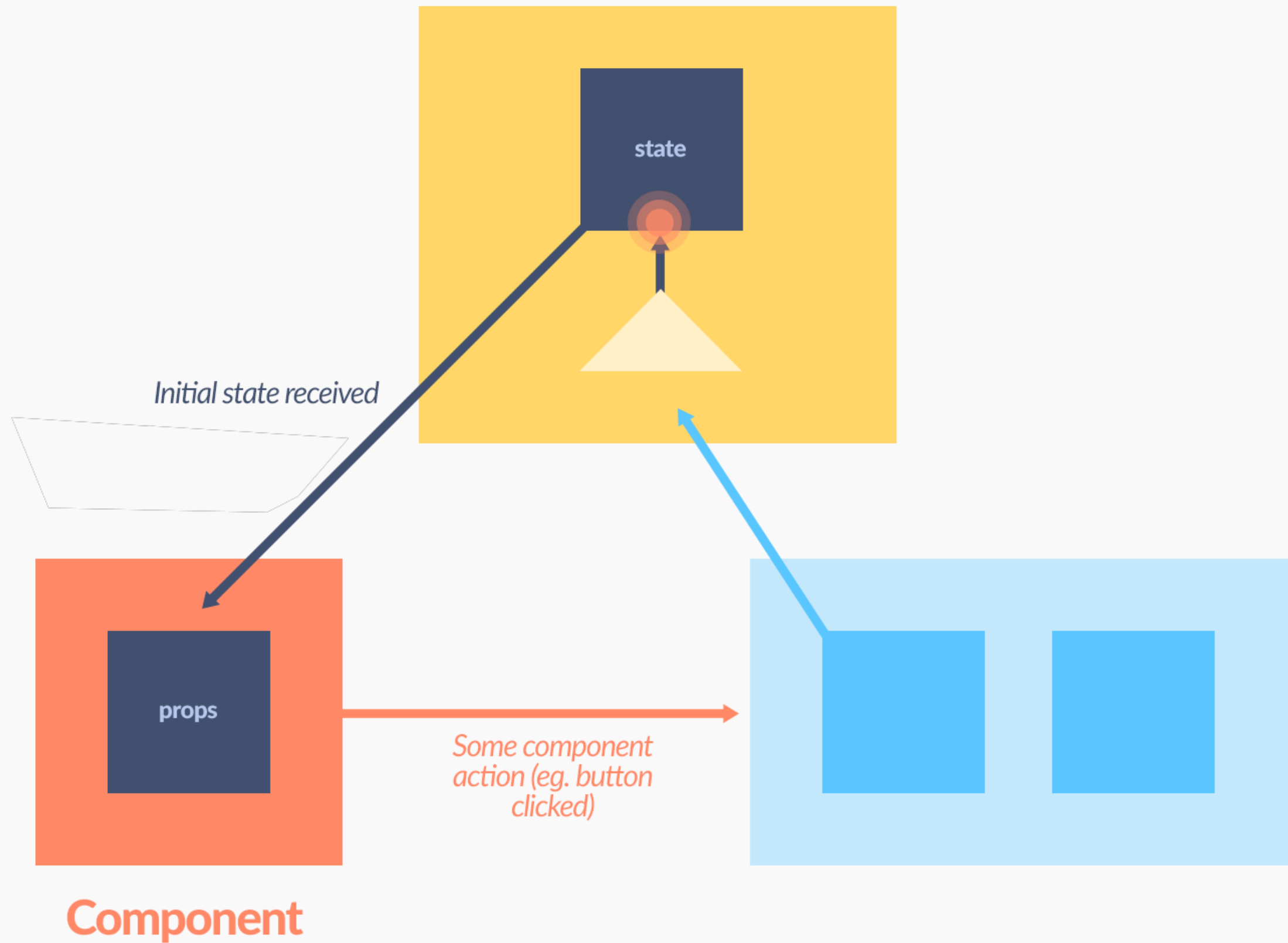
```
function SomeComponent() {  
  return <div>  
    <OtherComponent />  
    <YetAnotherComponent />  
  </div>;  
}
```

```
test(function() {  
  const wrapper = wrap(<SomeComponent foo="bar" />);  
  const itemCount = wrapper.find('.item').length;  
  assert.equal(itemCount, 3)  
})
```

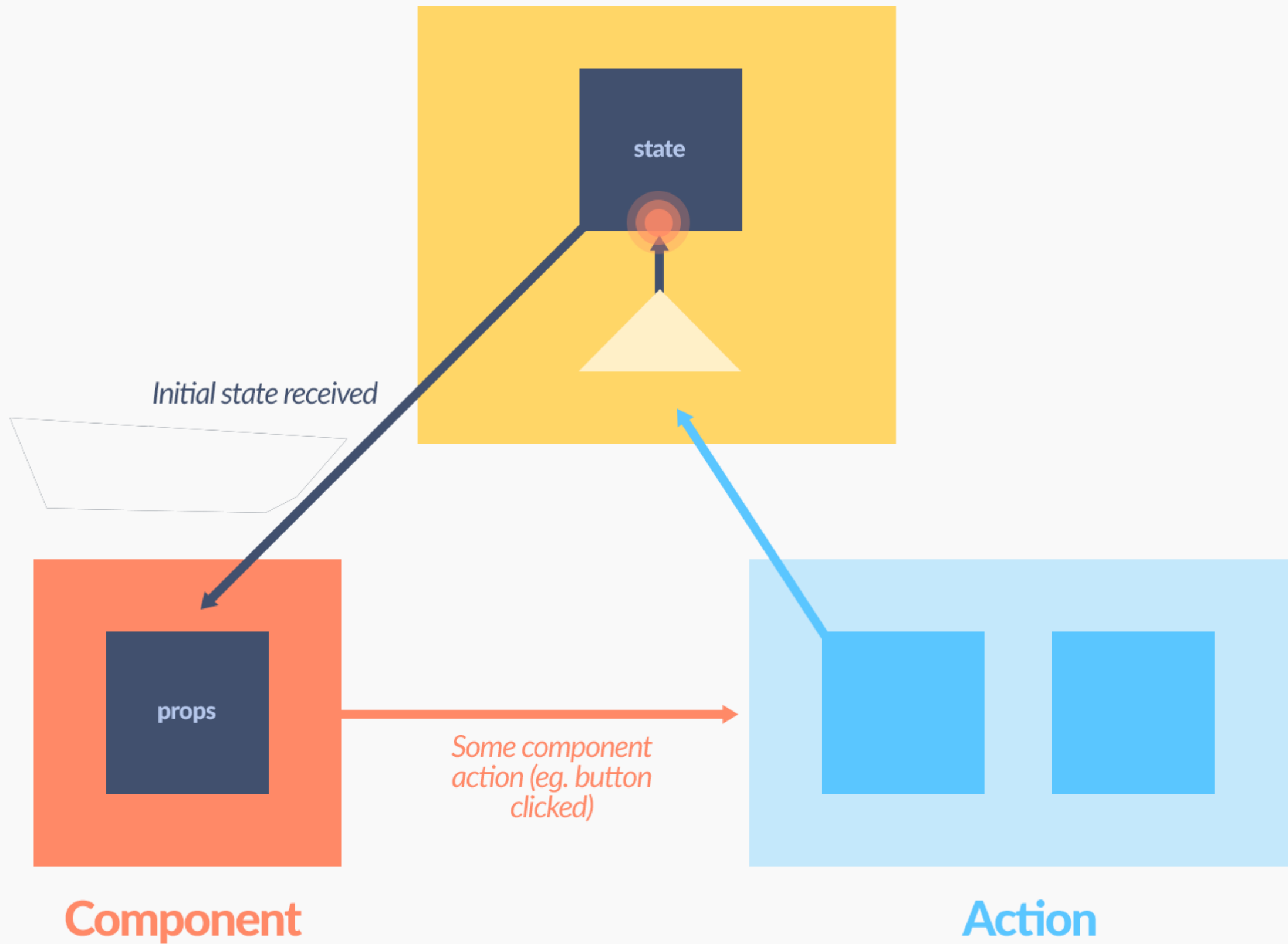
Store



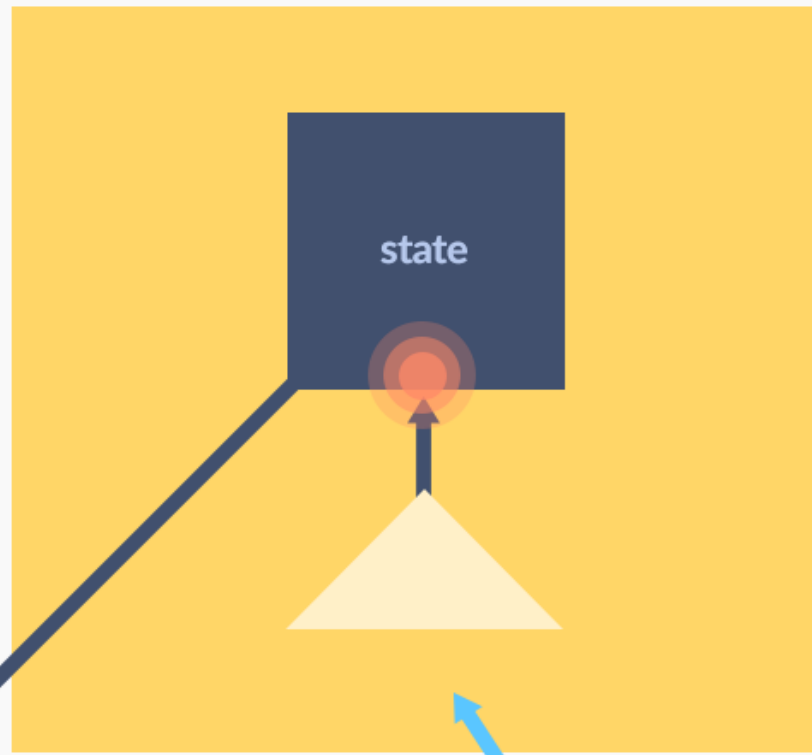
Store



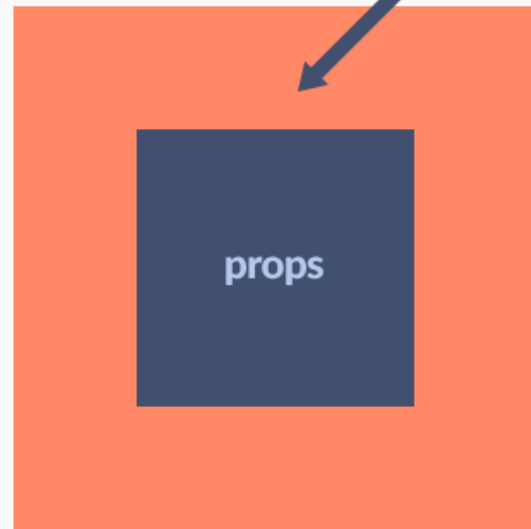
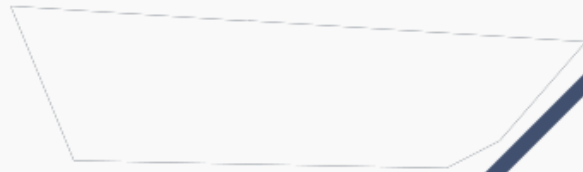
Store



Store

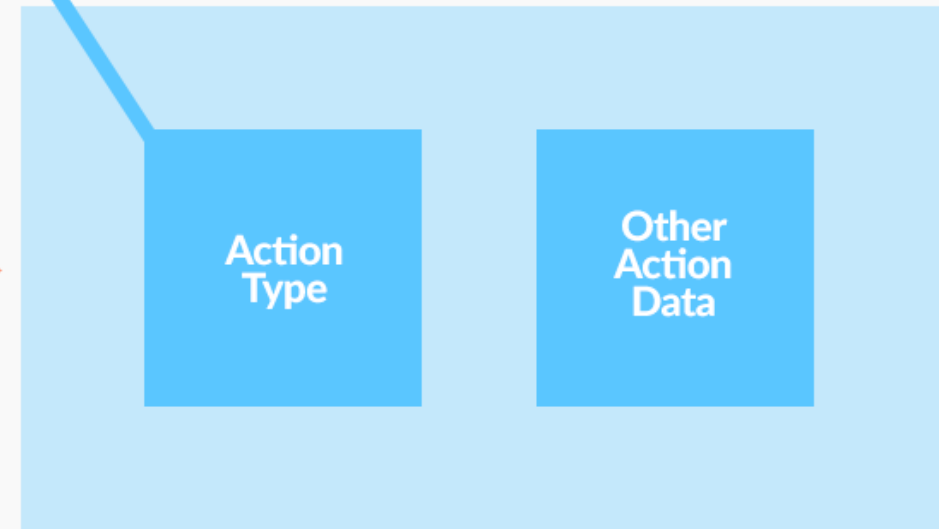


Initial state received



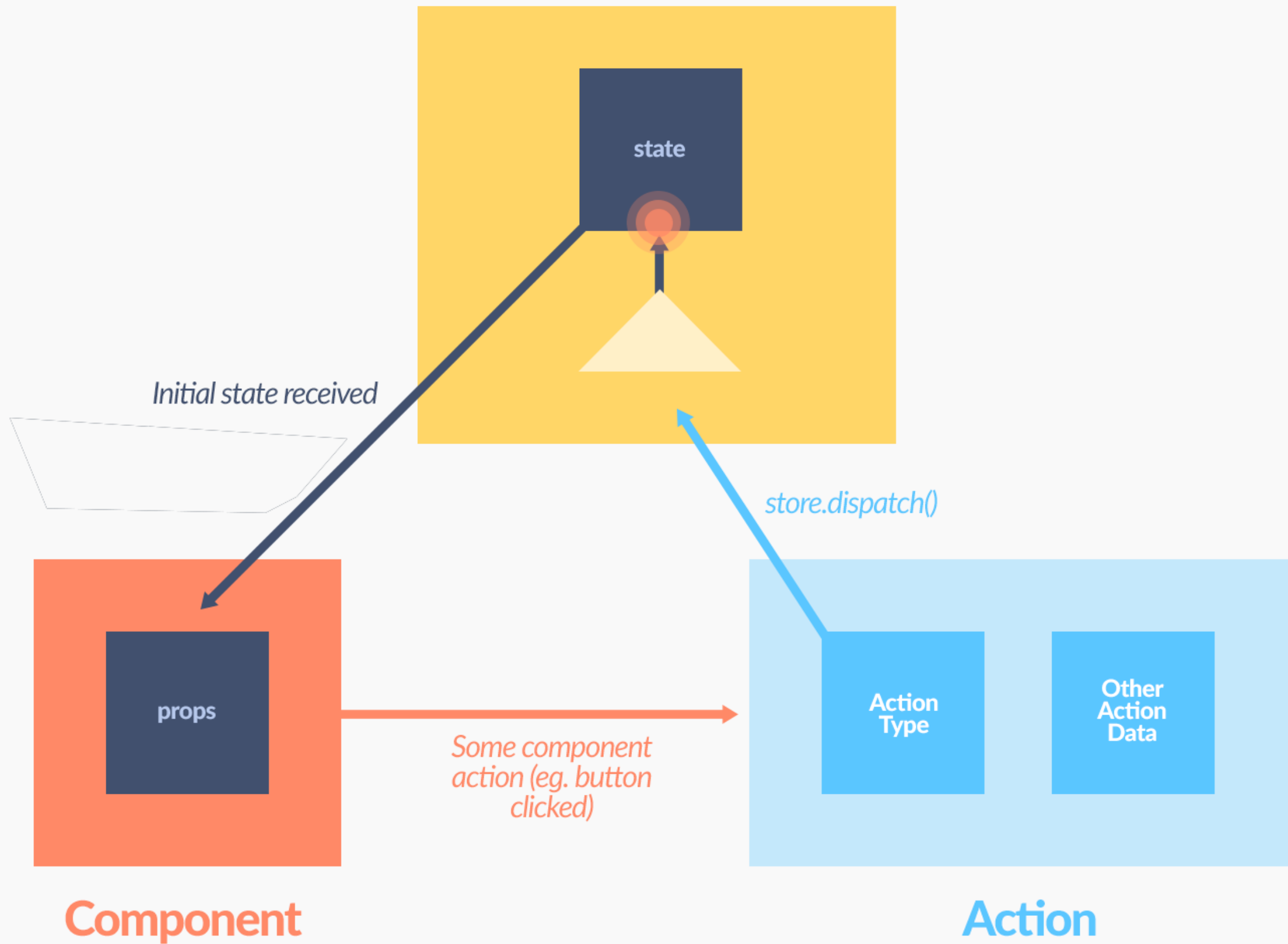
Component

*Some component
action (eg. button
clicked)*

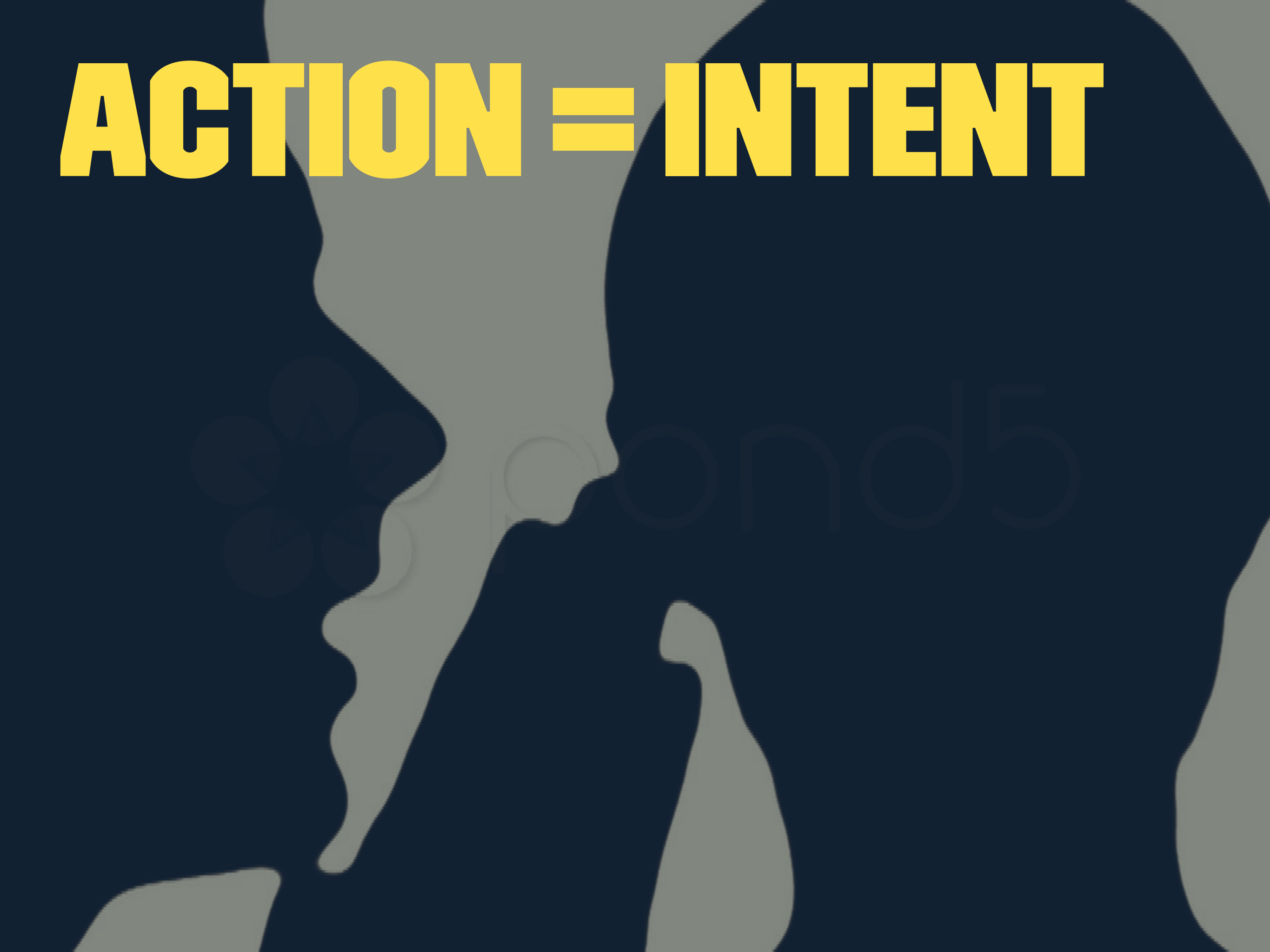


Action

Store



ACTION = INTENT



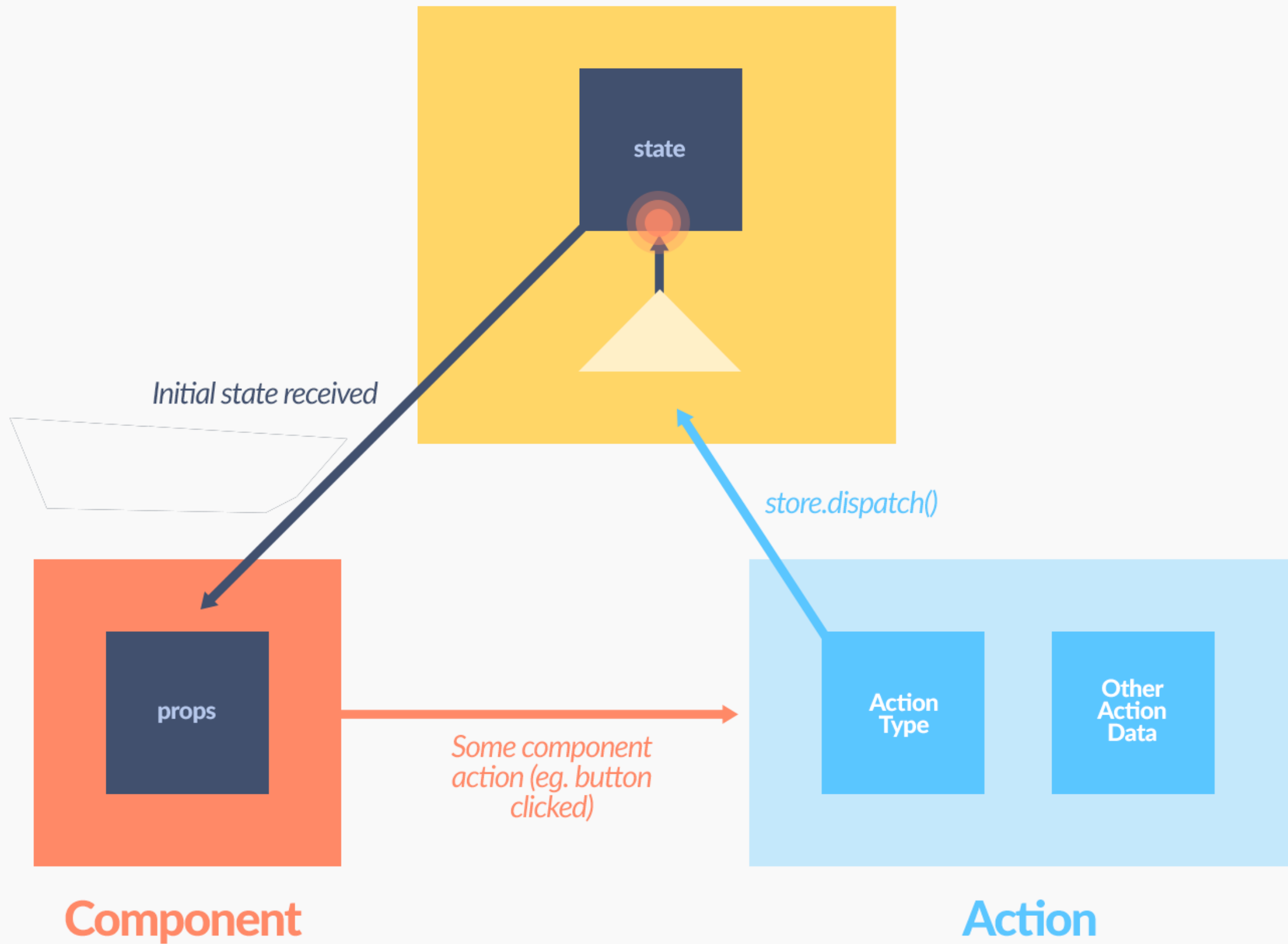
```
{  
  // action type  
  type: 'USER_CLICKED_BUY_BUTTON',  
  // action data  
  productId: 1  
}
```

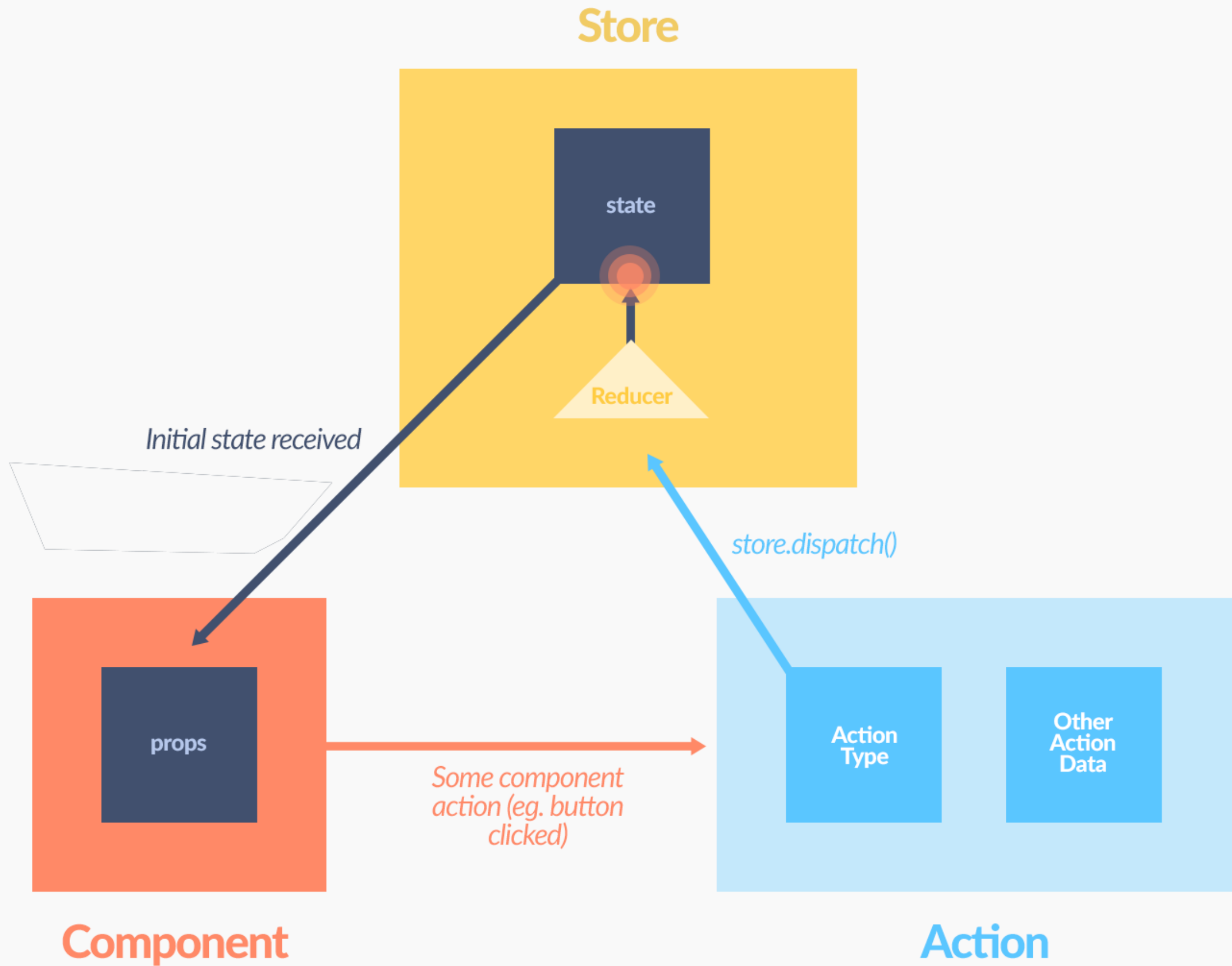
```
store.dispatch({  
  type: 'USER_CLICKED_BUY_BUTTON',  
  productId: 1  
})
```

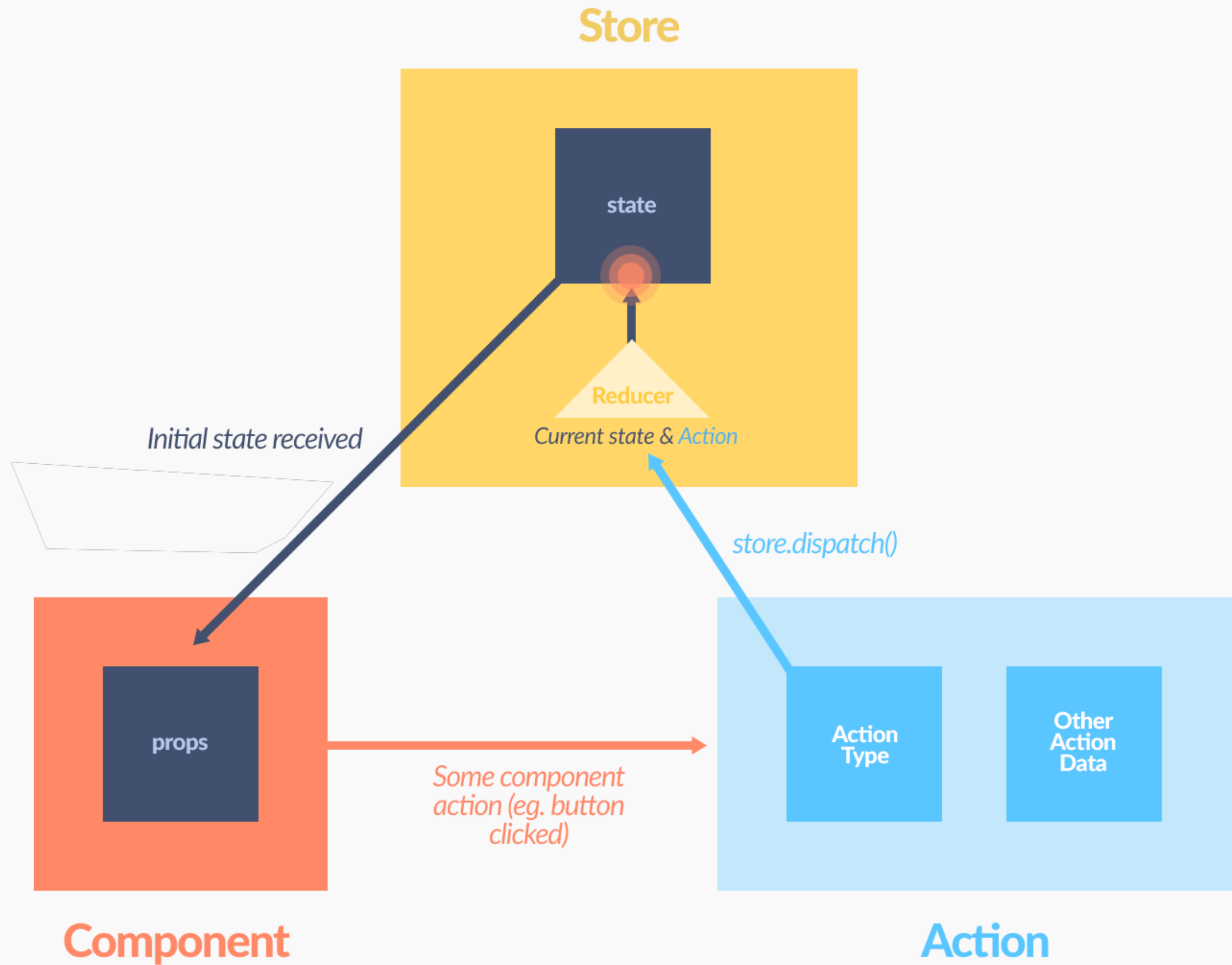
```
function userClickedBuyButton(productId) {  
  return {  
    type: 'USER_CLICKED_BUY_BUTTON',  
    productId  
  }  
}
```

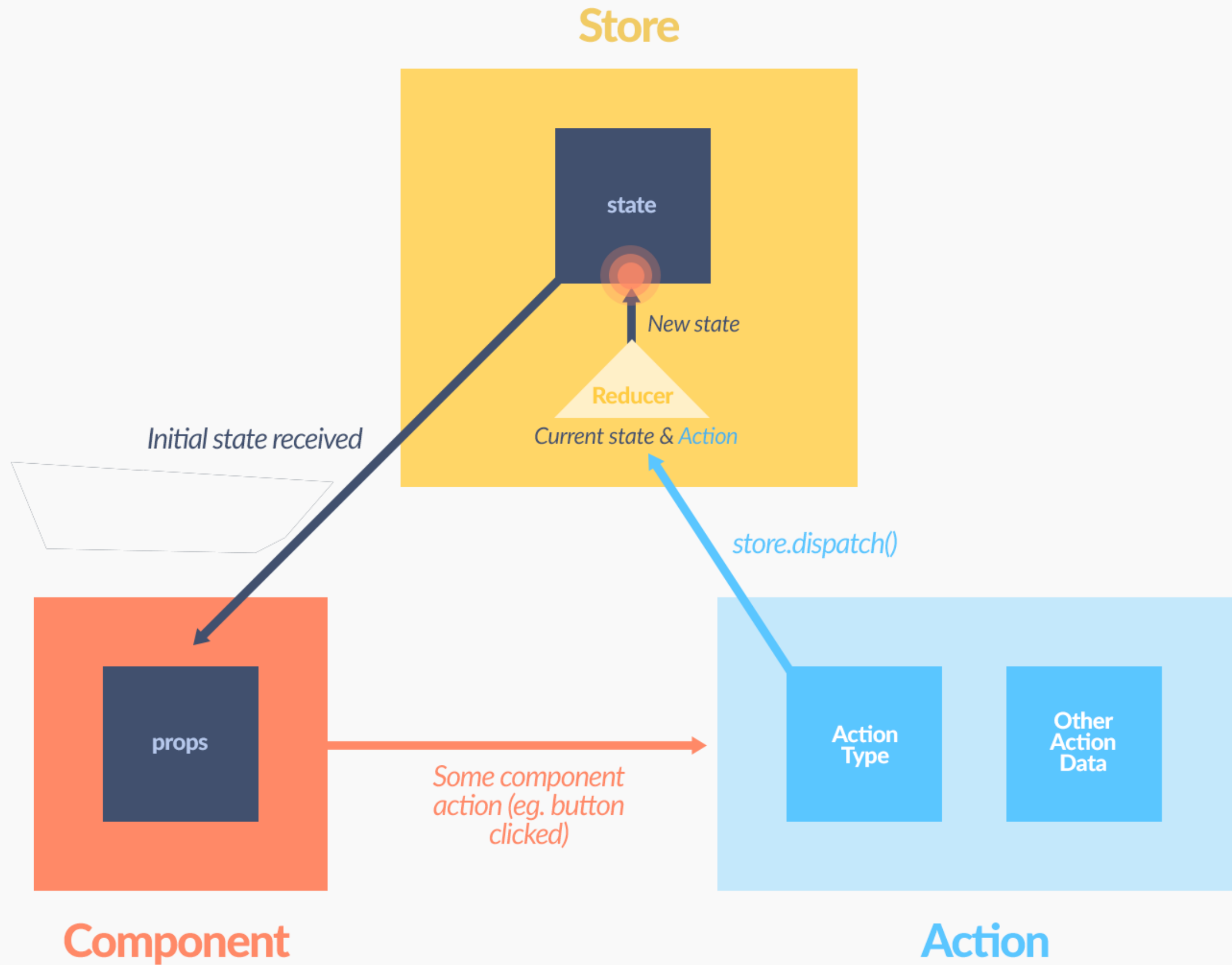
```
store.dispatch(userClickedBuyButton(1));
```

Store



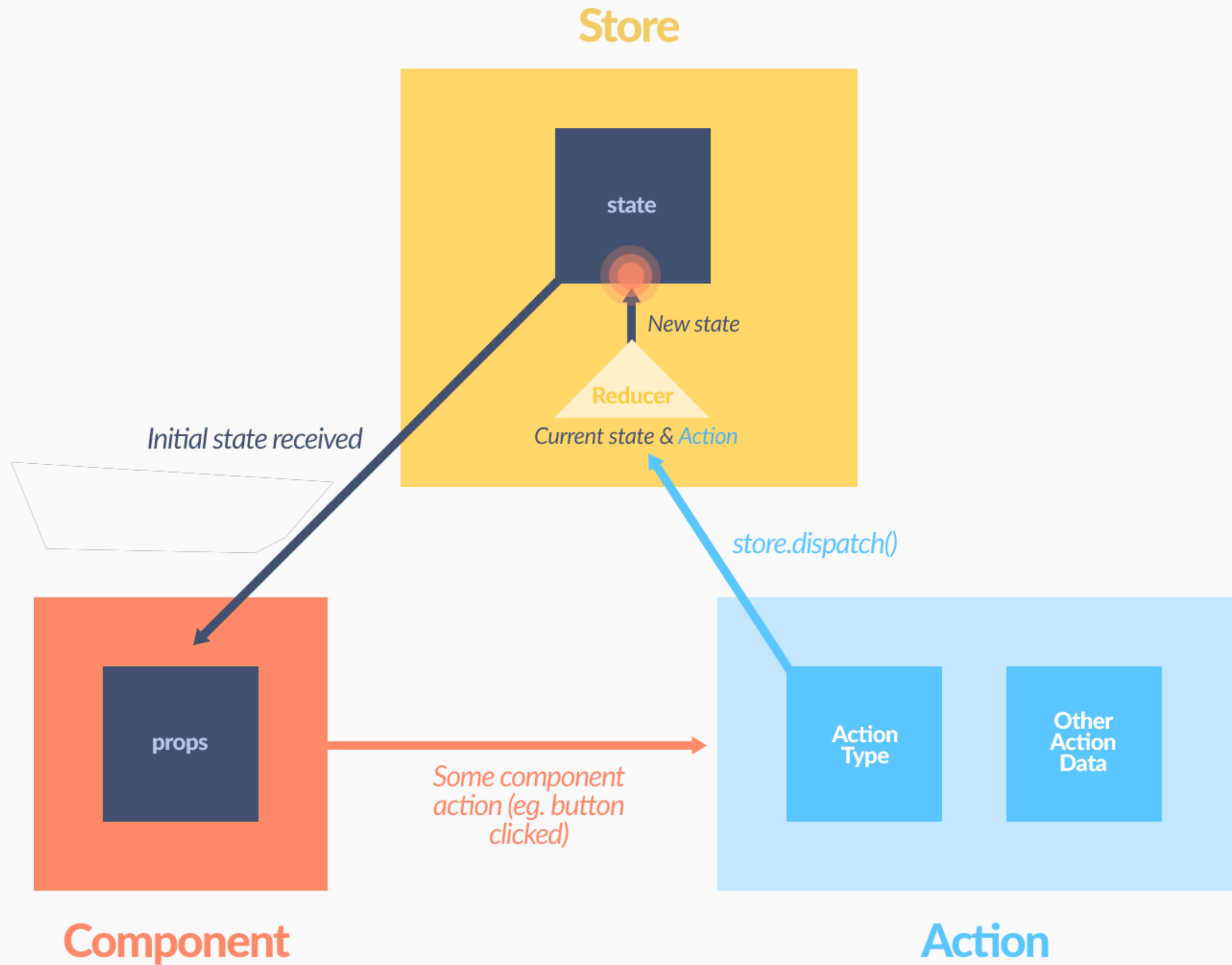


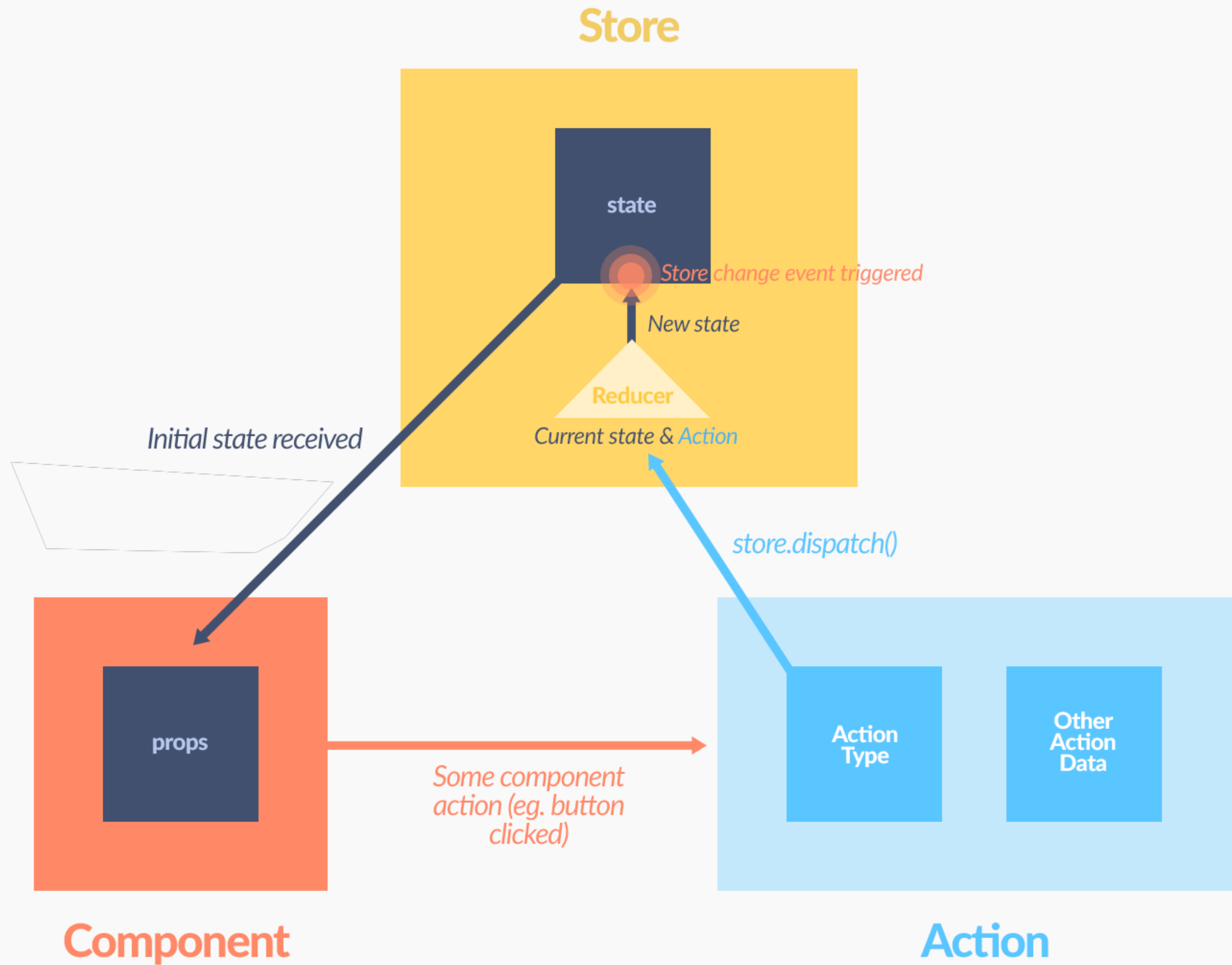


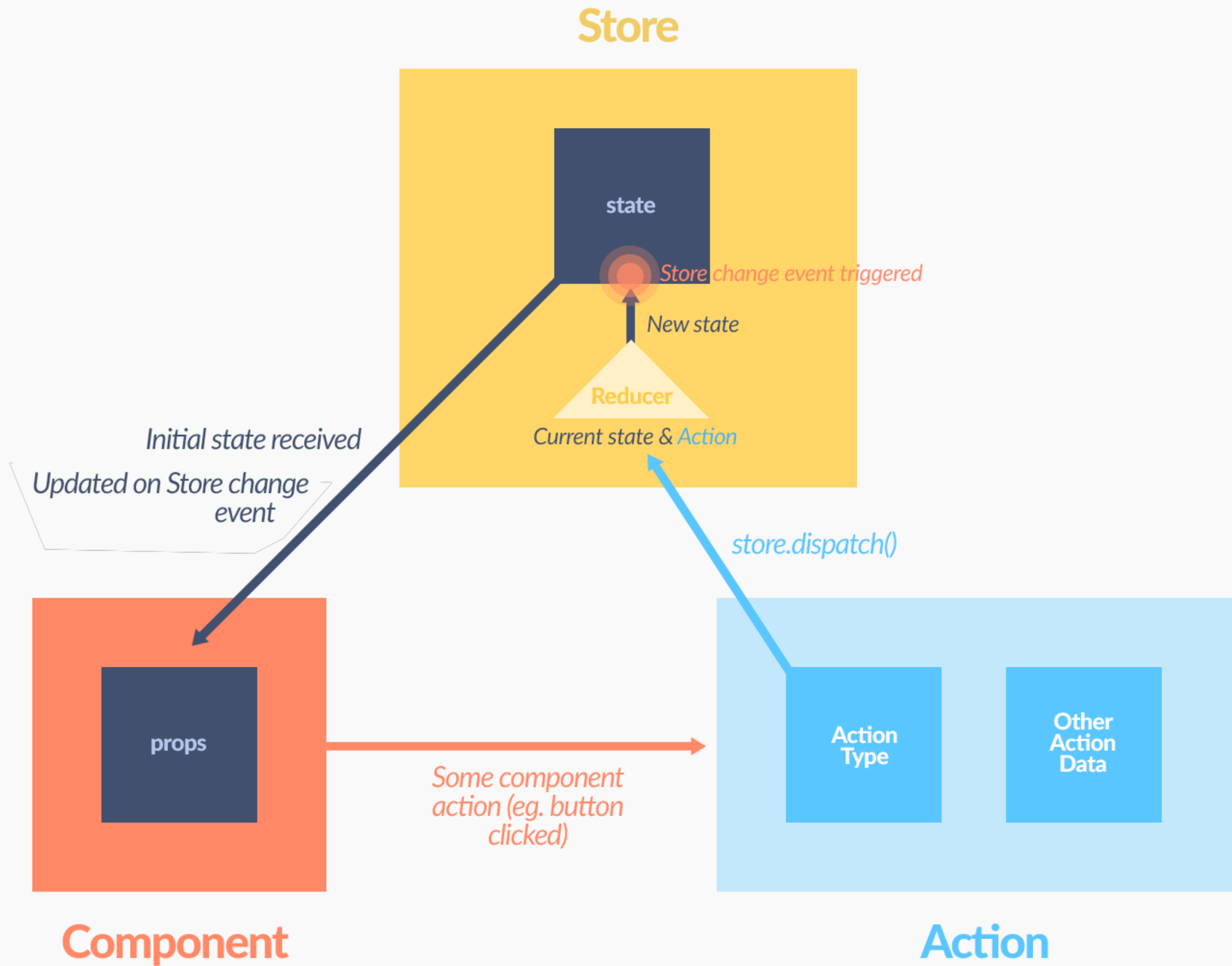


STATE, ACTION \Rightarrow STATE

```
function reducer(state=0, action){  
  if (action.type === 'INCREMENT_CLICKED') {  
    return state + 1;  
  }  
  return state;  
}
```







```
import { createStore, combineReducers } from 'redux';  
import { connect, Provider } from 'react-redux';
```

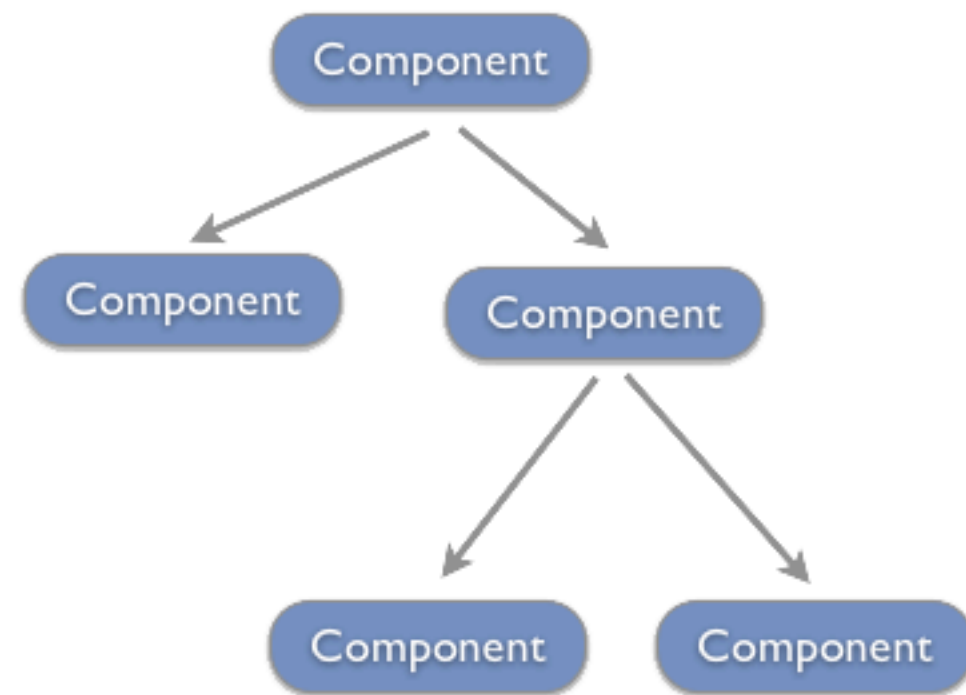
```
const store = createStore(reducer);
```

```
function reducer(state, action) {  
    ...  
    return state;  
}  
  
const store = createStore(reducer);
```



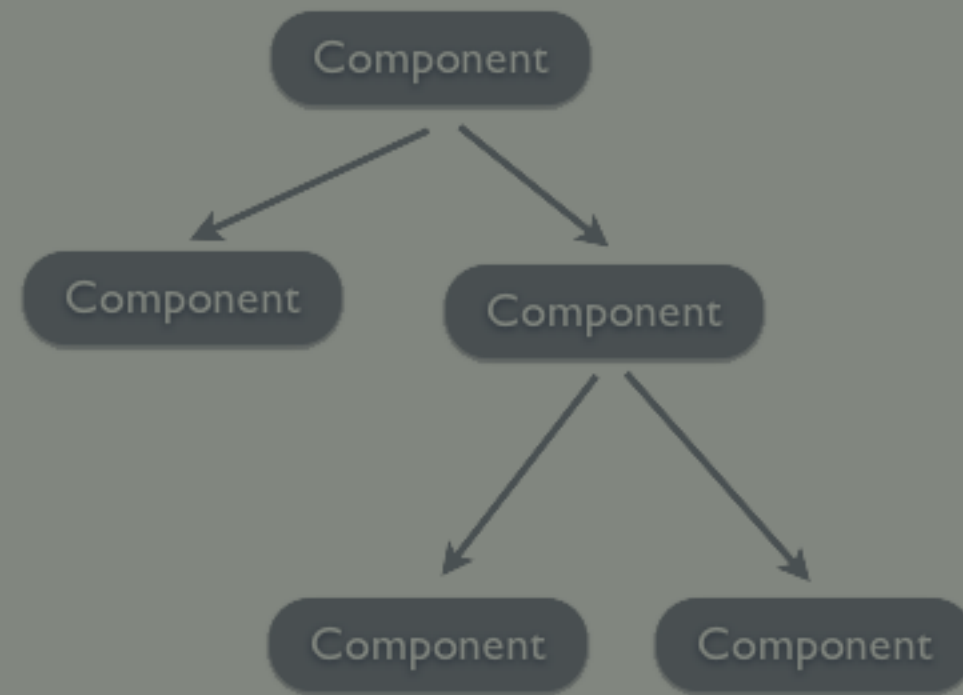
```
const initialState = ...  
  
function reducer(state=initialState, action) {  
    ...  
    return state;  
}  
  
const store = createStore(reducer);
```

```
combineReducers({  
  tweets: tweetReducer,  
  viewState: viewStateReducer,  
  route: routeReducer  
})
```



`connect()()`

`mapStateToProps()`



```
const mapStateToProps = state => {  
  return {  
    hasTweets: state.tweets.length > 0,  
    mostRecentTweet: state.tweets[0]  
  }  
}
```

```
connect(mapStateToProps)(MyComponent)
```

```
<Provider>  
  <App />  
</Provider>
```

PRAKTISK DEL

- » det forventes JS-kompetanse
- » noe ES6 må påregnes
- » oppgaven er beskrevet i readme.md
- » ikke forventet at noen blir ferdige
- » spør om hjelp i tide!

