

REACT UNION

WRITE ONCE, PLUG ANYWHERE

Tomáš Konrády · [@konnny](#) · React Finland 2019

[Lundegaard a. s.](#)





JERRY LUNDEGAARD

GUIDE

CMS enhancing with React-union

Composing state with @redux-tools



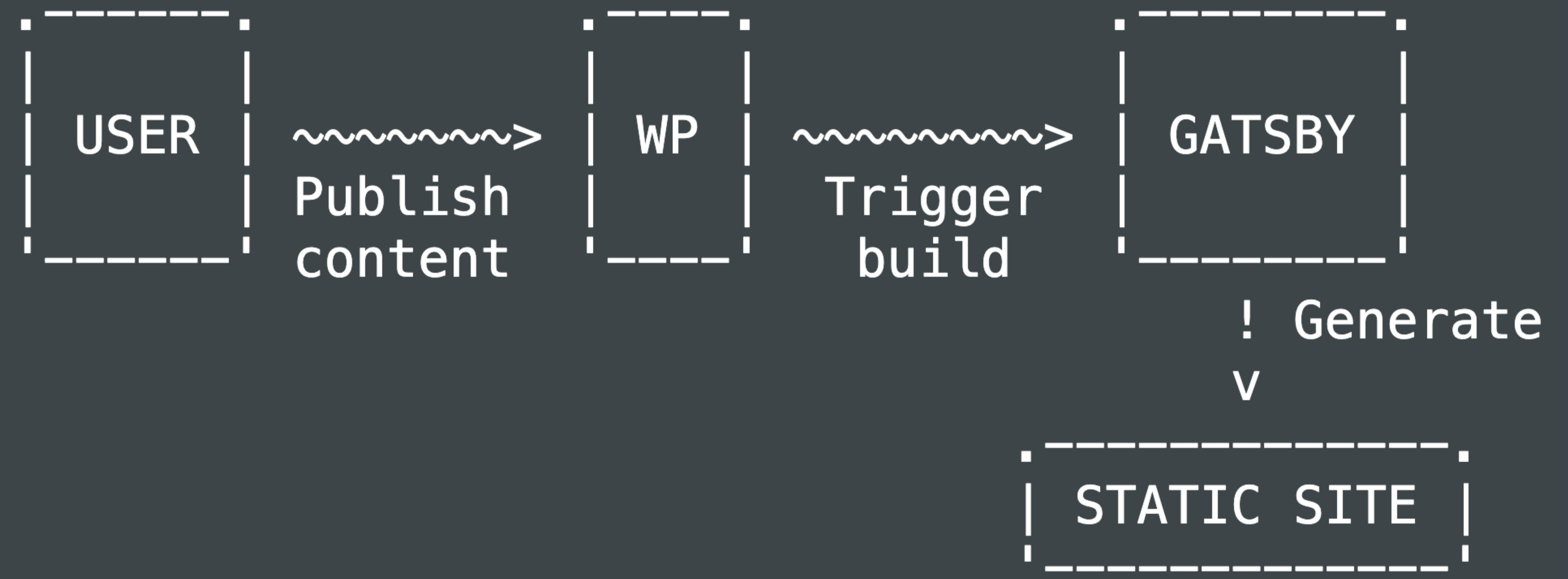
REACT APPS & CMS



HEADLESS CMS



GATSBY + WORDPRESS





JAM STACK



PROS

Everything else... 😊





DIFFERENT USE CASE

SOLUTION REQUIREMENTS

Adding custom **widgets**

Multiple instances

CMS agnostic

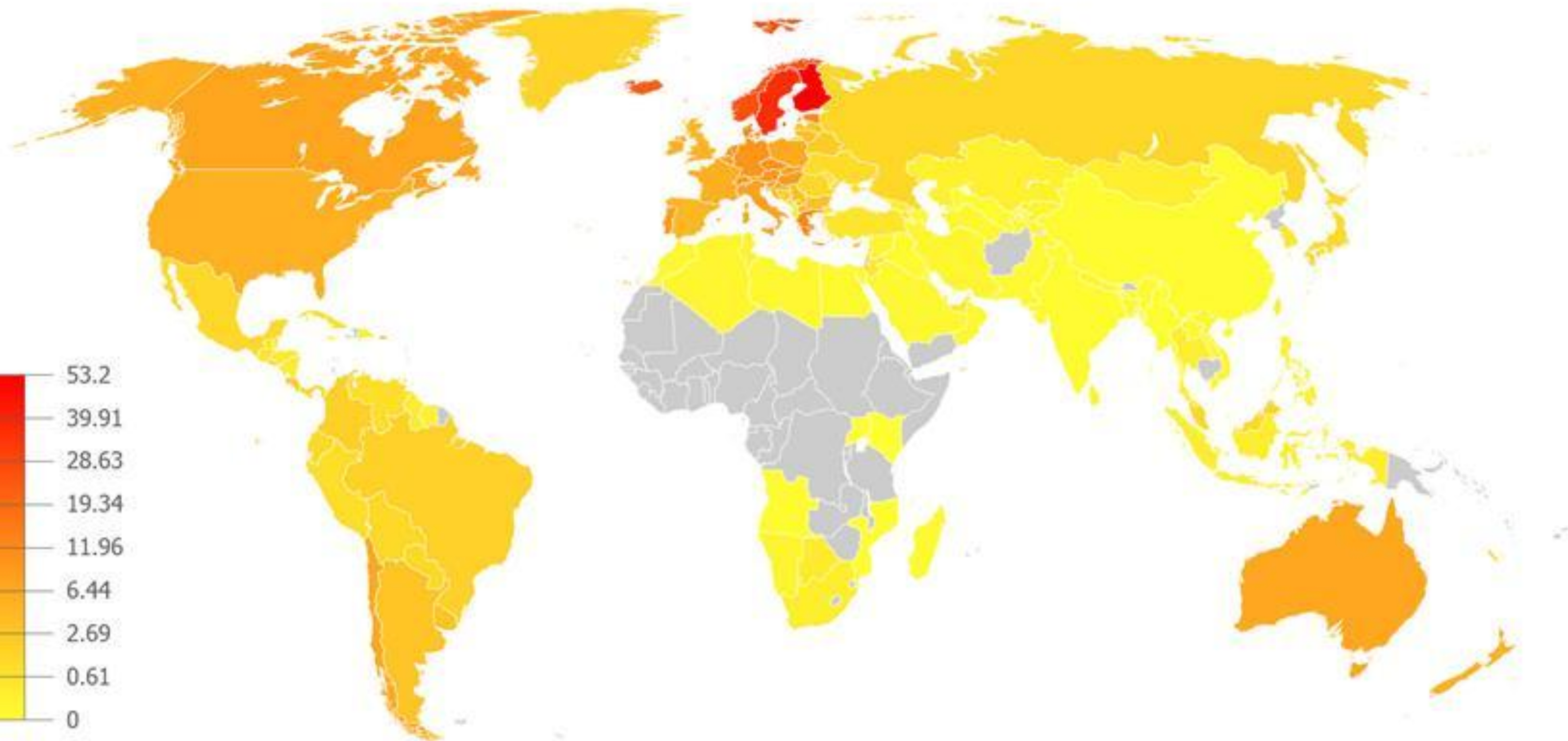
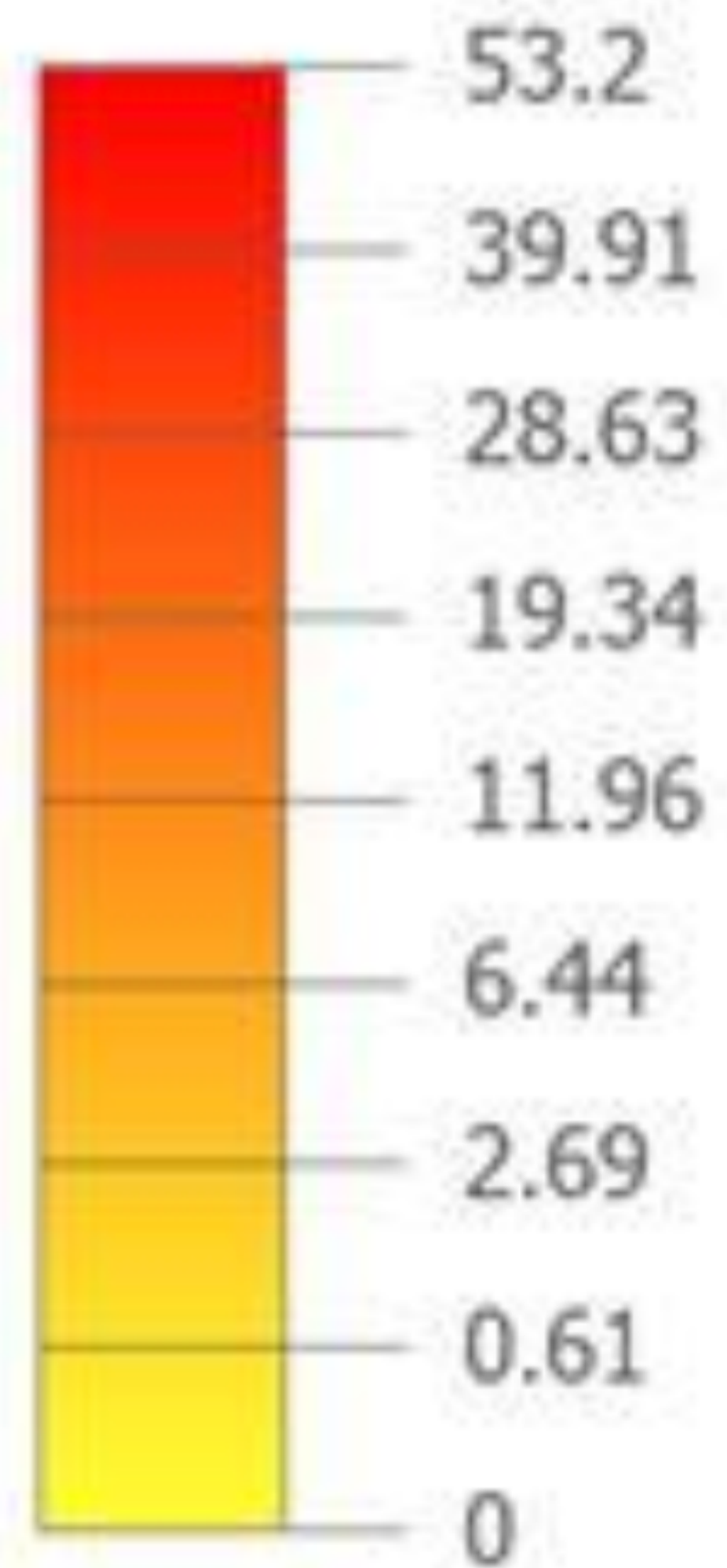
Bundle size



EXAMPLE



Metal bands per
100.000 people



Sources:

1. <http://www.metal-archives.com/browse/country>
2. <https://www.cia.gov/library/publications/the-world-factbook>

1



9550x

Tears of Autumn Rain
Eternal Tears Of Sorrow

play
like

2



9514x

Winner Takes It All
Brother Firetribe

play
like

3



9497x

Replica
Sonata Arctica



FINNISH METAL CHART



play
like

4



9466x

One Night In Bangkok (Bonus Track)
Frosttide

play
like

5



9401x

False News Travel Fast
Sonata Arctica

play
like



play

REACT-UNION



WIDGET_DESCRIPTOR

```
<div id="chart-container"></div>

<script
  data-union-widget="chart"
  data-union-container="chart-container"
  type="application/json"
>
</script>
```


PASSING DATA

```
<div id="chart-container"></div>

<script
  data-union-widget="chart"
  data-union-container="chart-container"
  type="application/json"
>
  {
    "type": "dark"
  }
</script>
```


ROUTE

```
const routes = [  
  {  
    component: React.lazy(() => import('./Chart')),  
    path: 'chart',  
  },  
];
```



UNION

```
import { Union } from 'react-union';  
<Union routes={routes} />;
```



SHARED CONTEXT!

```
<ReduxProvider store={store}>  
  <IntlProvider messages={messages} locale={locale}>  
    <Rebass theme={darkTheme}>  
      <Union routes={routes} />  
    </Rebass>  
  </IntlProvider>  
</ReduxProvider>
```



MODULAR STATE MANAGEMENT



FEATURES

Local state in Redux

Adhoc injecting reducers, epics, middleware...

Utilities



@redux-tools/actions
@redux-tools/reducers
@redux-tools/reducers-react
@redux-tools/middleware
@redux-tools/middleware-react
...



GLOBAL STATE

```
{
  entities: {
    songs: {
      1: { id: 1, name: "Nemo", ...
    }
  }, ...
}
```



LOCAL (UI) STATE

```
songs: {  
  visibleIds: [1, 2, 3],  
  pagination: { page: 1, total: 200, ... },  
}, ...  
}
```



NAMESPACED LOCAL STATE

```
namespaces: {  
  songs-namespace1: {  
    visibleIds: [1, 2, 3],  
    pagination: { page: 1, total: 200, ... },  
  },  
  songs-namespace2: {  
    visibleIds: [2],  
    pagination: { page: 1, total: 200, ... },  
  }, ...  
}  
}
```


AD-HOC INJECTING

```
import { Provider, withReducers } from '@redux-tools/reducers-react';
import { withMiddleware } from '@redux-tools/middleware-react';

const Chart = compose(
  withMiddleware({ myMiddleware })
  withReducer({ myReducer })
)(ChartUI);

<Provider namespace="chart-1">
  <Chart />
</Provider>
```



MORE?

react-union.org

github.com/lundegaard/redux-tools

github.com/lundegaard



MORE?!

@konnnnyy



MOOOORE???!!!

ramdajs.com

[github.com/tommmyy/ramda-
extension](https://github.com/tommmyy/ramda-extension)

