

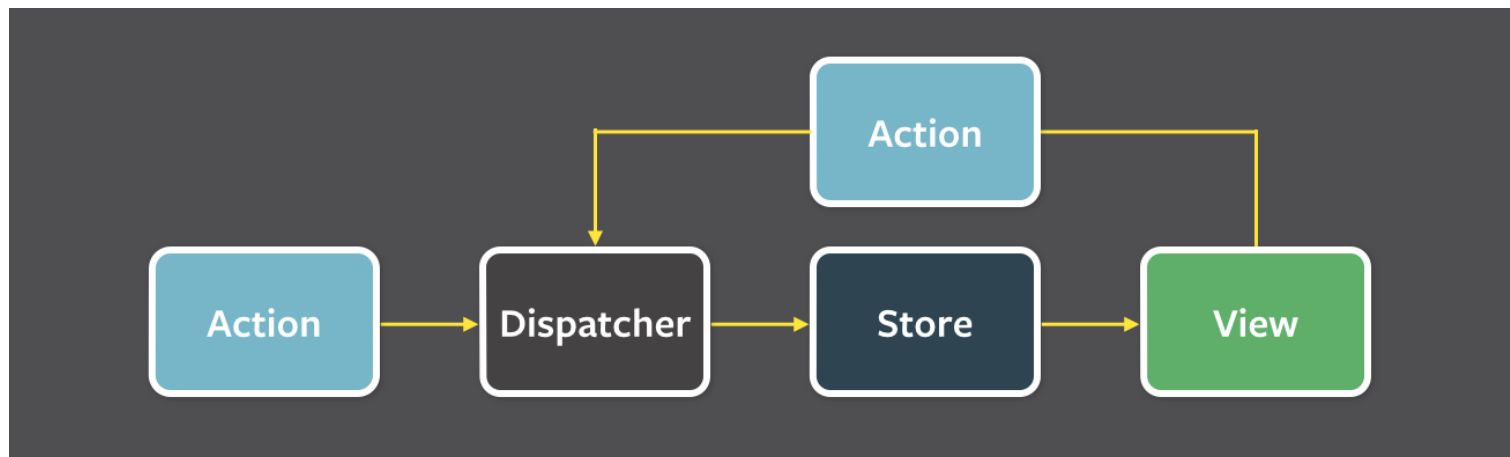
choo

TDAH Talks S01E04 - São Carlos, Agosto 2016

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Front-end hoje

- Single Page Applications
- Composable view components
- Unidirectional data flow
 - State -> View -> Action



React

the good parts

- JSX
- testeable pieces
- help bringing functional programming to mainstream / hype
- redux

the bad parts

- JSX, boilerplates, overhead
- People think Webpack is necessary
 - Webpack sucks hard

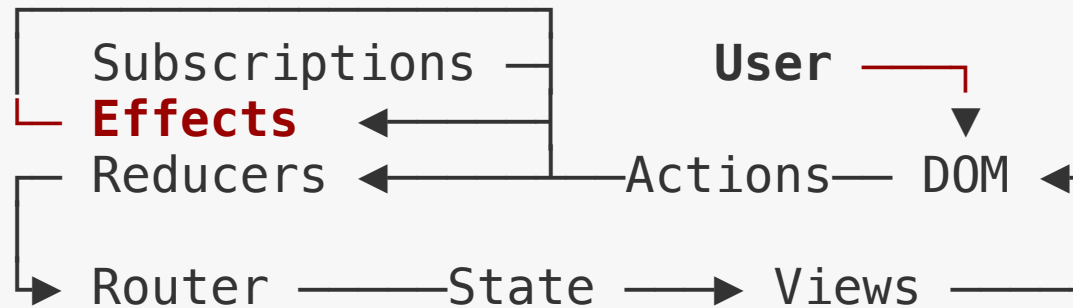
Thanks React!

now let's take a step back

choo

- DOM the lowest common denominator
- Plain Javascript
 - Tagged template literals
- Useful concepts from flux/elm-architecture/redux/react-router organized in a small API (6 methods)
- transparent side-effects
- minimal tooling (browserify)

choo (ascii-art)



é um tremzinho!

Exemplo

Próximo TDAH

- data
- temas

State

```
const exampleState = {  
  day: '09 de Setembro de 2016',  
  talks: [  
    {  
      title: 'Pokémon Go é Vida',  
      author: 'Frederico Marques'  
    },  
    {  
      title: 'Drinks a base de Mountain Dew',  
      author: 'Luiz Marquetti'  
    }  
  ]  
}
```

Components

```
const dayLabel = day => html`<h2>dia ${day}</h2>`;
```

```
const talkItem = talk => html`  
  <li>  
    <span>${talk.title}</span> -  
    <span>${talk.author}</span>  
  </li>`;
```

```
const talkList = talks => html`  
  <ul>  
    ${talks.map(talkItem)}  
  </ul>`;
```

View

```
const nextTDAH = state => html`  
  <div>  
    <h1>Próximo TDAH</h1>  
    ${dayLabel(state.day)}  
    <h3>Temas</h3>  
    ${talkList(state.talks)}  
  </div>`;
```

Reducers

```
const addTalk = (state, data) => ({
  ...state,
  talks: [
    ...state.talks,
    {
      title: data.title,
      author: data.author
    }
  ]
});
```

```
const removeTalk = (state, data) => ({
  ...state,
  talks: [
    ...state.talks.slice(0, data.index),
    ...state.talks.slice(data.index + 1)
  ]
});
```

```
const replaceTalks = (state, data) =>
  ({...state, talks: data.talks });
```

Model

```
const tdahModel = {  
  state: exampleState,  
  reducers: {  
    addTalk,  
    removeTalk,  
    replaceTalks  
  },  
  effects: {  
    saveList  
  },  
  subscriptions: {  
    loadList  
  }  
}
```

App

```
const choo = require('choo');
const app = choo();
app.model(tdahModel);
app.router([
  ['/', nextTDAH]
]);
const tree = app.start();
document.body.appendChild(tree)
```

Obrigado

Referencias:

- <https://github.com/yoshuawuyts/choo>
- <https://facebook.github.io/react/index.html>
- <http://redux.js.org/>
- <http://guide.elm-lang.org/architecture/>

(tem mais 2 slides extras)

Effects

```
const saveList = (data, state, send, done) => {  
  fetch('/talks', {  
    method: 'POST',  
    headers: {  
      'Accept': 'application/json',  
      'Content-Type': 'application/json'  
    },  
    body: JSON.stringify({talks: state.talks})  
  }).then(done);  
}
```


Subscriptions

```
const loadList = (send, done) => {  
  fetch('/talks', {  
    method: 'GET',  
    headers: {  
      'Accept': 'application/json',  
      'Content-Type': 'application/json'  
    },  
    body: JSON.stringify({talks: state.talks})  
  }).then(data => {  
    send('replaceTalks', {talks: data.talks});  
    done();  
  });  
}
```