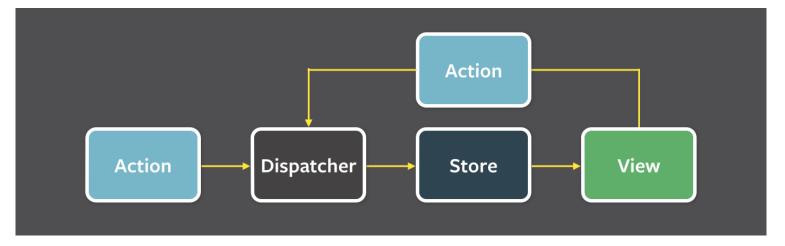
choo

TDAH Talks S01E04 - São Carlos, Agosto 2016

Fabricio C Zuardi

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 proggraming 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)

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>`;
```

View

Reducers

```
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();
    });
}
```