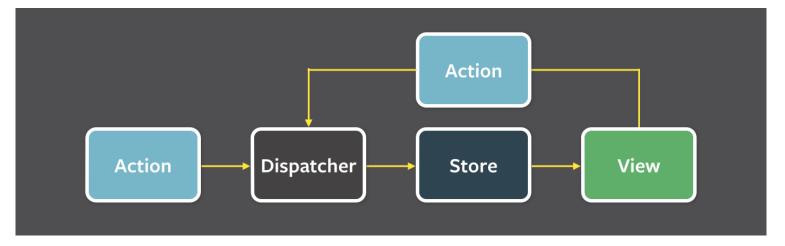
### choo

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

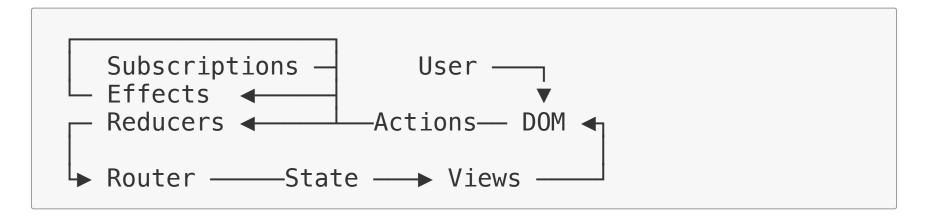
#### **Thanks React!**

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)

## 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>`;
```

#### **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**

#### Referências:

- 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();
    });
}
```