

React-Spring

// Animações com a facilidade dos hooks

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23 ANOS

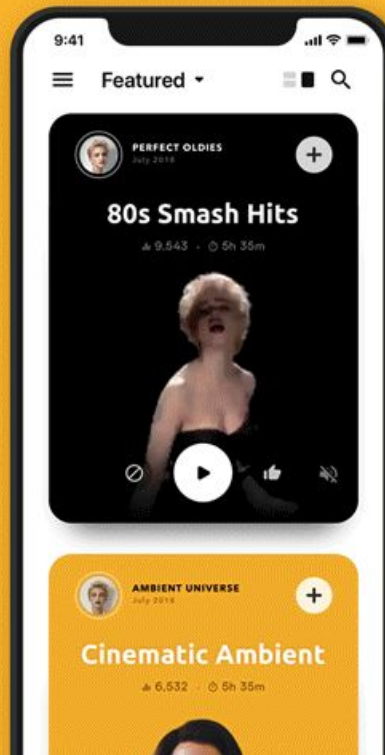
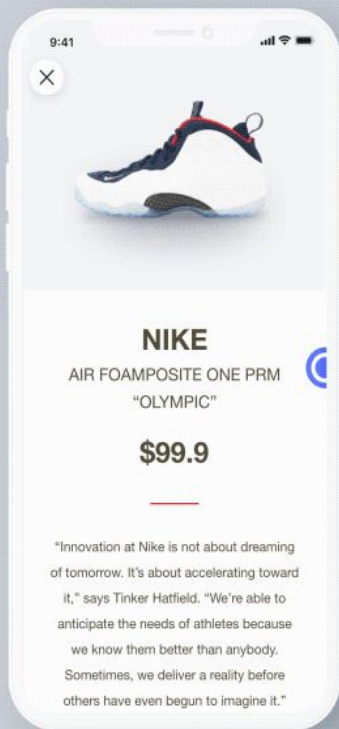
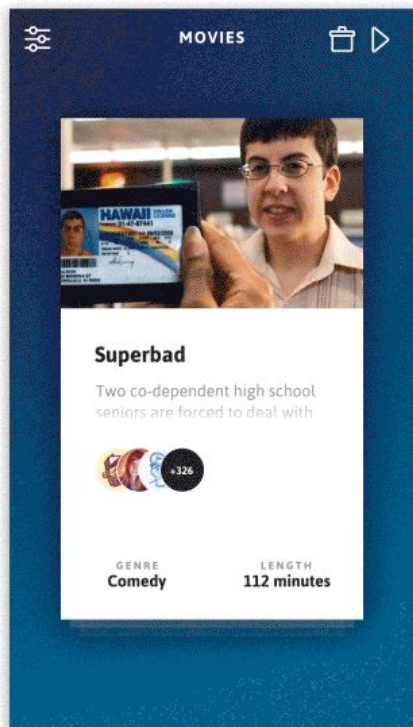
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// Você falou animações?



// **Como eu fico vendo esses apps?**



// E o chefe?



// Animação é uma ferramenta

Facilitando o entendimento.

Guiando sua atenção.

Orientando o feedback.

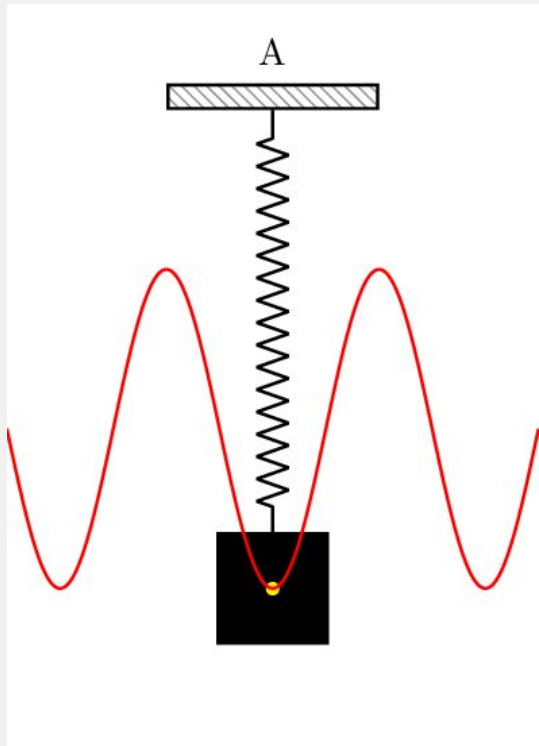
Separando grupos.

Instruindo ações.

Comunicando conceitos abstratos.

Deixando o usuário confortável com as mudanças de estado.

// React-Spring



```
// Component
```

```
<Spring  
  from={{ opacity: 0 }}  
  to={{ opacity: 1 }}>  
  {styles => <div style={styles}>hello world</div>}  
</Spring>
```

```
// Hook
```

```
const styles = useSpring({  
  from: { opacity: 0 },  
  to: { opacity: 1 }  
});
```

```
<div style={styles}>hello world</div>
```

// E sim, funciona no React Native

// Hooks

useSpring: Animação única.

useSprings: Animações múltiplas ocorrendo de forma paralela.

useTrail: Animações múltiplas ocorrendo de forma encadeada.

useTransition: Animações na montagem e desmontagem.

useChain: Defini a ordem das animações.

#1 Exemplo: useSpring

Tutorial: Matando com um lápis

John Wick está com a cabeça a prêmio por US\$ 14 milhões. O motivo: ele quebrou a regra básica de não matar ninguém no território do Hotel Continental.



John Wick
Matador de dragões

```
import { useSpring } from 'react-spring';

export default function ExampleUseSpringWithoutState(props) {
  const styles = useSpring({
    from: {
      opacity: 0,
      top: 32
    },
    to: {
      opacity: 1,
      top: 0
    }
  });

  return <Card style={styles} {...props} />;
}
```

#2 Exemplo: useSpring

Show/Hide

```
import React, { useState, Fragment } from 'react';
import { useSpring } from 'react-spring';

export default function ExampleUseSpringWithState(props) {
  const [enabled, setEnabled] = useState(false);
  const styles = useSpring({
    opacity: enabled ? 1 : 0,
    top: enabled ? 0 : 32
  });

  return (
    <Fragment>
      <Button outline onClick={() => setEnabled(!enabled)}>
        Show/Hide
      </Button>
      <Card style={styles} {...props} />
    </Fragment>
  );
}
```

#3 Exemplo: useSpring



```
import { useSpring } from 'react-spring';

export default function ExampleUseSpringAsyncAwait(props) {
  const styles = useSpring({
    to: async (next, cancel) => {
      await next({ opacity: 1, top: 0 });
      await next({ opacity: 0, top: -32 });
    },
    from: { opacity: 0, top: 32 }
  });

  return <Card style={styles} {...props} />;
}
```

#4 Exemplo: useSpring

Show/Hide



```
import React, { useState, Fragment } from 'react';
import { useSpring, config } from 'react-spring';

export default function ExampleUseSpringPreset(props) {
  const [enabled, setEnabled] = useState(false);
  const styles = useSpring({
    opacity: enabled ? 1 : 0,
    top: enabled ? 0 : 32,
    config: config.wobbly
  });

  return (
    <Fragment>
      <Button outline onClick={() => setEnabled(!enabled)}>
        Show/Hide
      </Button>
      <Card style={styles} {...props} />
    </Fragment>
  );
}
```

Config:
mass
tension
friction
duration*

Presets:

default
gentle
wobbly
stiff
slow
molasses

#5 Exemplo: useSpring

```
import { useSpring } from 'react-spring';

export default function ExampleUseSpringCallback(props) {
  const [styles, set, stop] = useSpring(() => ({
    opacity: 0,
    top: 32
  }));

  return (
    <Fragment>
      <Button
        outline
        onClick={() =>
          set({
            opacity: 1,
            top: 0
          })
        }
      >
        Show
      </Button>
      <Card style={styles} {...props} />
    </Fragment>
  );
}
```

#6 Exemplo: useChain

Tutorial: Matando com um lápis

John Wick está com a cabeça a prêmio por US\$ 14 milhões. O motivo: ele quebrou a regra básica de não matar ninguém no território do Hotel Continental.



John Wick
Matador de dragões

```
const baseConfigSpring = {
  to: { opacity: 1, top: 0 },
  from: { opacity: 0, top: 32 }
};

const cardRef = useRef();
const styles = useSpring({
  ...baseConfigSpring,
  ref: cardRef
});

const titleRef = useRef();
const titleStyles = useSpring({
  ...baseConfigSpring,
  ref: titleRef
});

const descriptionRef = useRef();
const descriptionStyles = useSpring({
  ...baseConfigSpring,
  ref: descriptionRef
});

const userRef = useRef();
const userStyles = useSpring({
  ...baseConfigSpring,
  ref: userRef
});

useChain([cardRef, titleRef, descriptionRef, userRef], [0, 0.4, 0.8, 1.2]);
```

#7 Exemplo: useTrail



Hiléo Andersson
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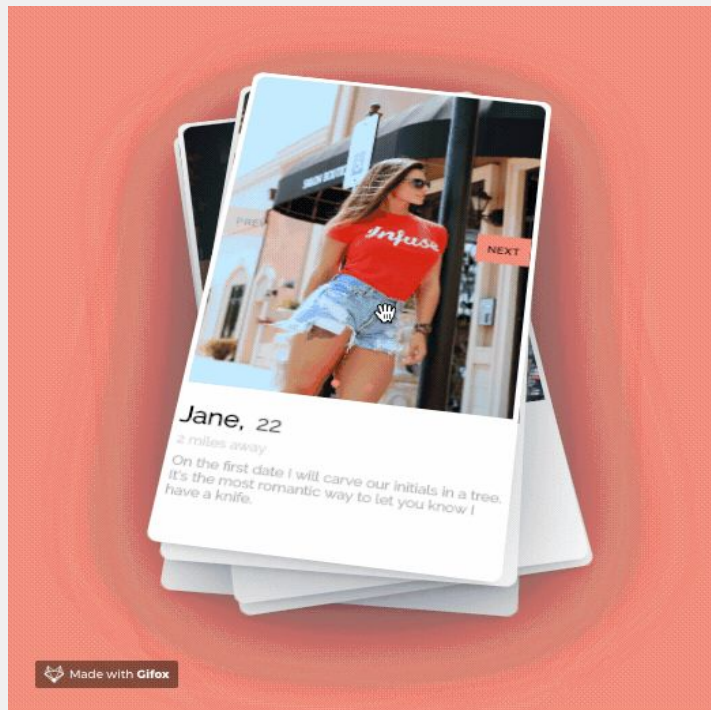
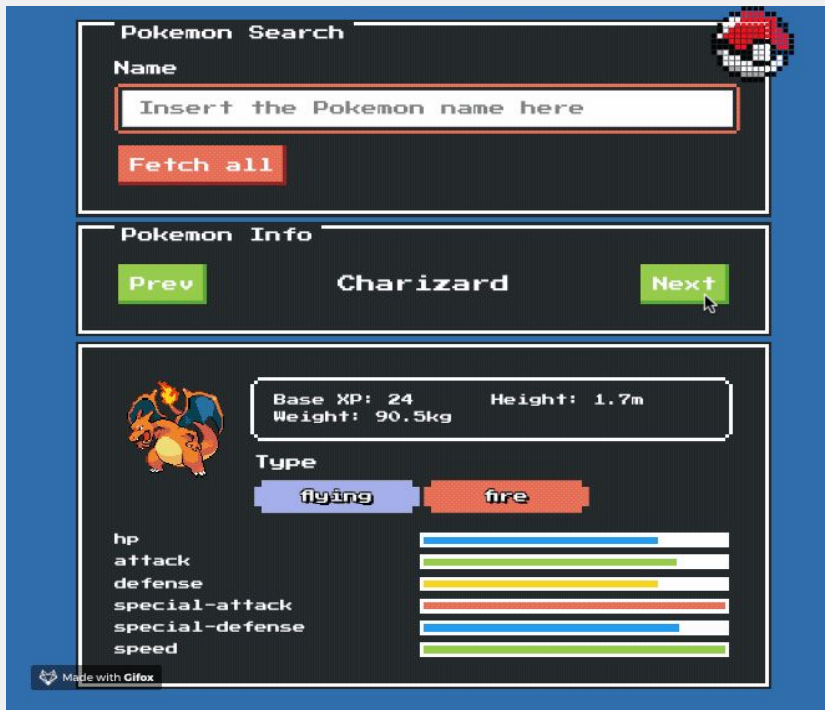
```
import { useTrail, config } from 'react-spring';

export default function ExampleUseChain() {
  const data = [{}, {}, {}, {}];
  const users = useTrail(data.length, {
    to: { opacity: 1, top: 0 },
    from: { opacity: 0, top: 32 },
    config: config.wobbly
  });

  return (
    <List>
      {users.map(styles => (
        <ListItem style={styles} />
      ))}
    </List>
  );
}
```


Outros exemplos

react-use-gesture
react-measure



// Obrigado 😊👨💻!



Referências:

<https://www.react-spring.io/docs>
<https://medium.com/@johnadetutu90/react-spring-just-got-hooked-32bd672e3bb7>

Projeto com exemplos:

<https://github.com/hileomsi/meetup-react-spring>

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