



# **Desenvolvimento Web com React na Prática**

# Sobre o Palestrante

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miracemense perdido em Itaperuna**

Arquiteto de Software  
na UniRedentor.

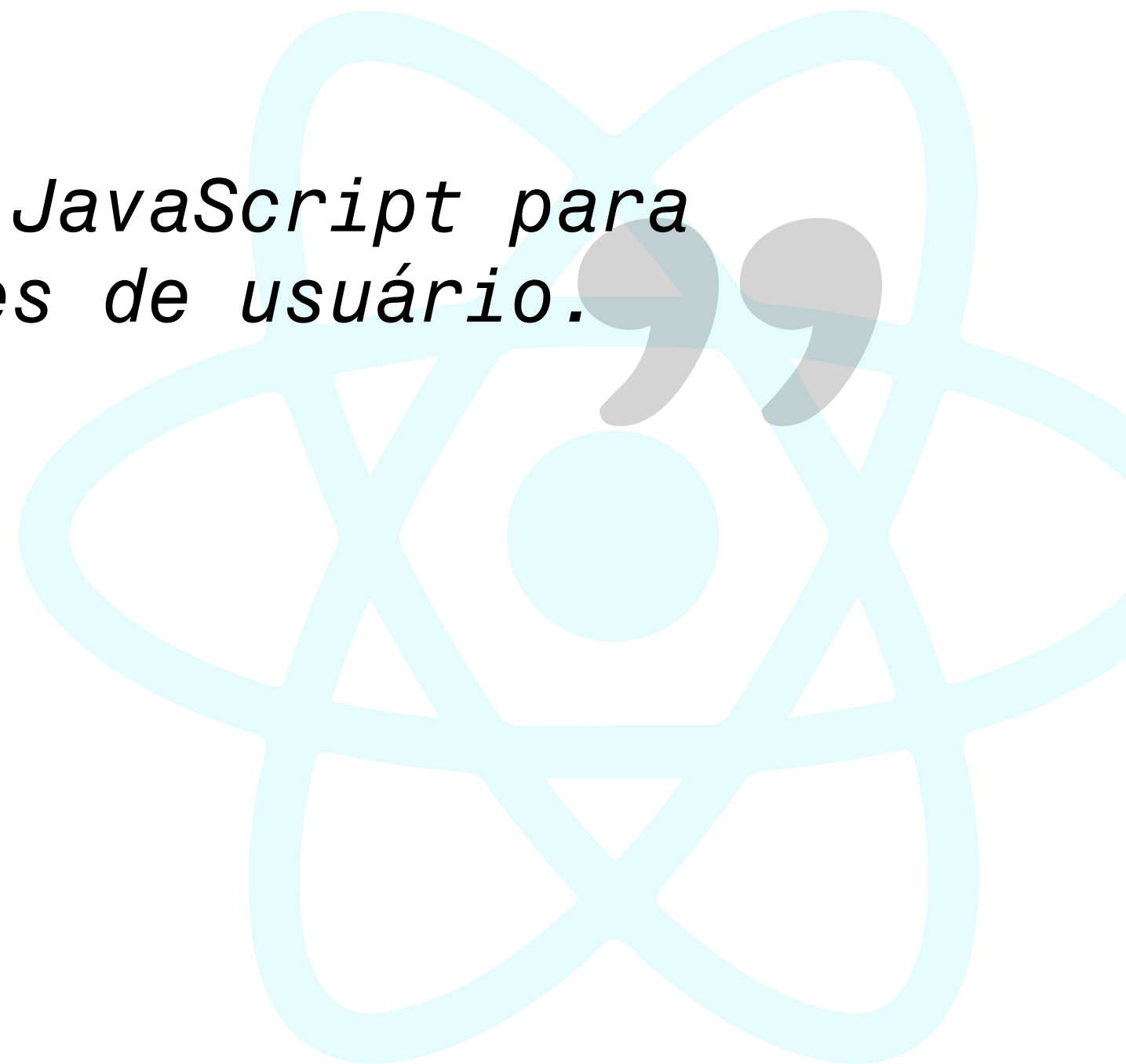
Trabalho com desenvolvimento web  
com linguagens como Java e Type-  
Script. Utilizo VRaptor, Hibernate,  
jQuery em meu trabalho mas também  
uso NodeJS e React por fora.



# O que é o react?

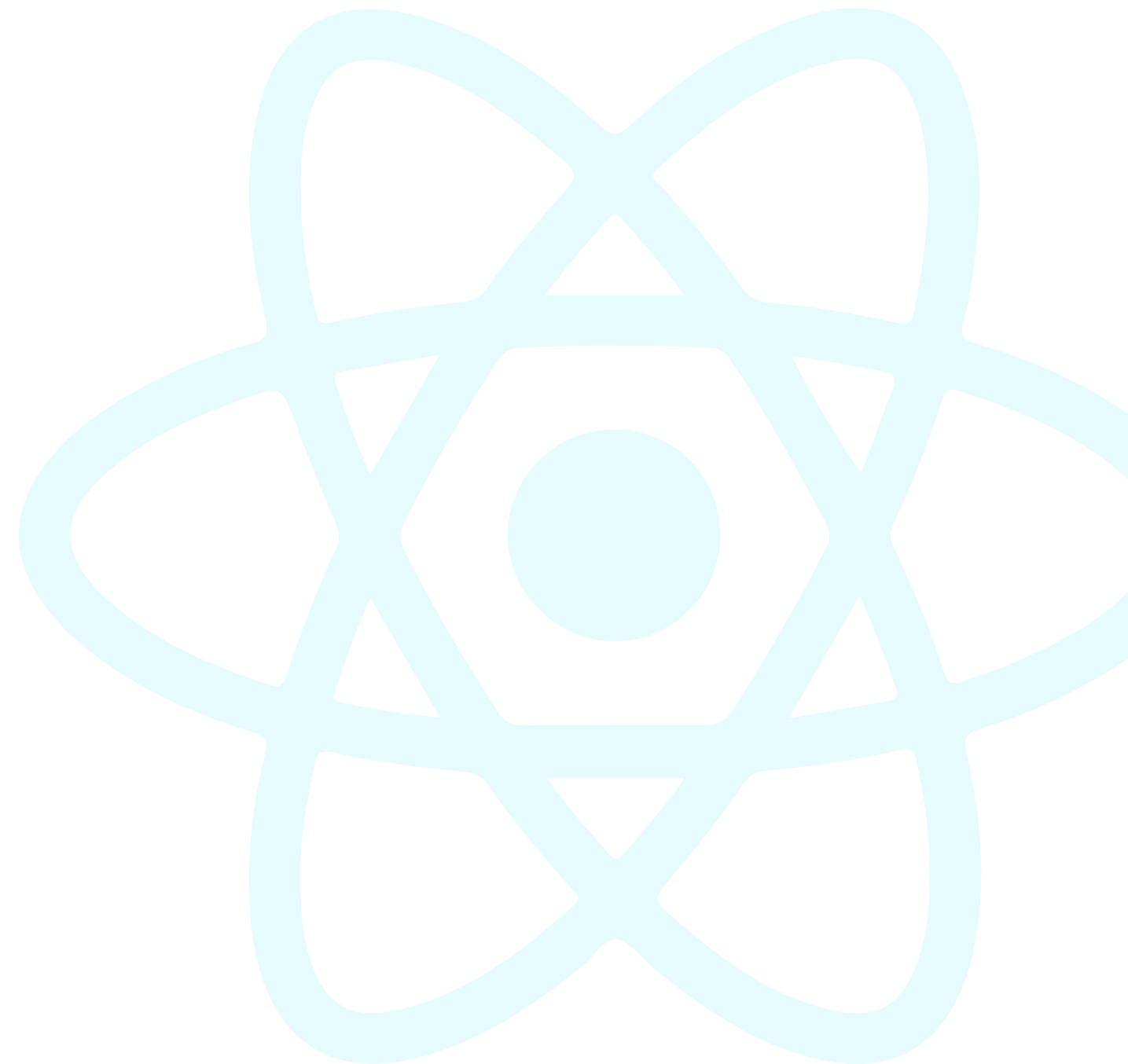
“*Uma biblioteca JavaScript para criar interfaces de usuário.*”

- Declarativo
- Baseado em componentes
- Aprenda uma vez, use em qualquer lugar



# Pré-requisitos

- HTML e CSS
- ES6
- Métodos de percorrer array
- TypeScript (não é mandatório)
- NodeJs
- Yarn (opcional, mas recomendado)



# Componentes

```
import React from 'react';

export default function Button({ children, onClick }) {
  return (
    <button onClick={onClick}>
      {children}
    </button>
  );
}
```

- Componentes de Função, Classe ou HOC
- JSX
- Virtual DOM
- Props

# Estado

## Componentes de Função

```
import React, {useState} from 'react';

export default function Container() {
  const [name, setName] = useState('nome');

  return (
    <h1>{name}</h1>
  );
}
```

## Componentes de Classe

```
import React from 'react';

export default class Container extends React.Component {
  constructor(props) {
    super(props);
    this.state = { name: 'World' };
  }

  render() {
    return (
      <h1>{this.state.name}</h1>
    );
  }
}
```

# HOOKS

## Hooks Básicos

useState

useEffect

useContext

## Hooks Adicionais

useReducer

useCallback

useMemo

useRef

useImperativeHandle

useLayoutEffect

useDebugValue

# Imperativa

- Ex.: Siga reto pela Rua Alberto Lamago, sentido centro. Vire a esquerda na Rua Nilo Peçanha e siga reto até o terminal que fica no número 681
- Maioria das linguagens de programação
- Orientação a objetos

# Declarativa

- O endereço é Rua Nilo Peçanha, 681 Centro
- SQL é um exemplo de linguagem declarativa
- Focada na lógica, não na execução.



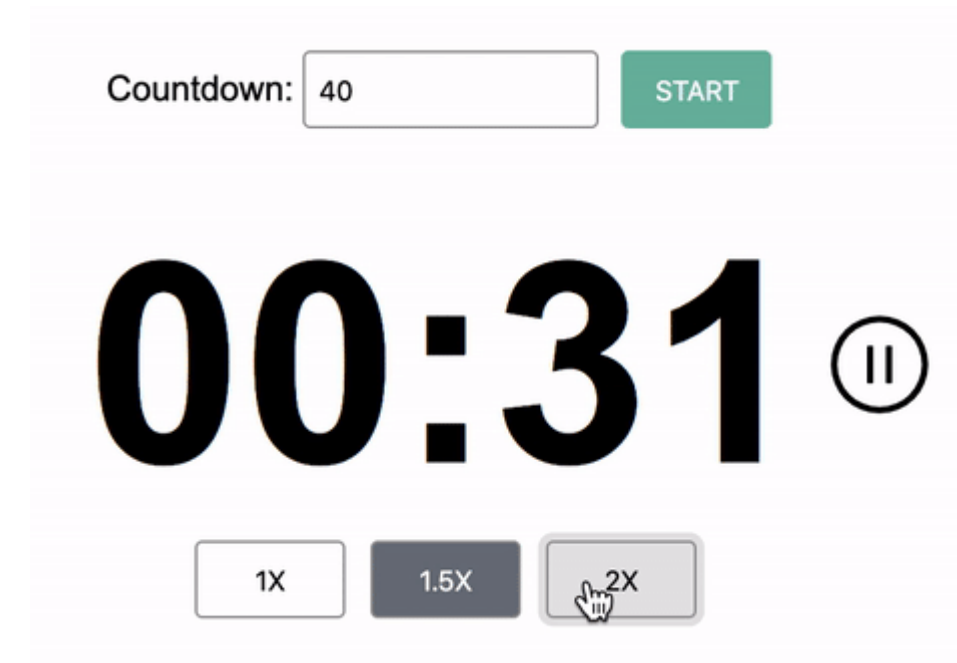
# A aplicação Countdown Timer Application

## Problem

Build a countdown timer in React Native with controls to add time, speed up / slow down the countdown, pause and resume.

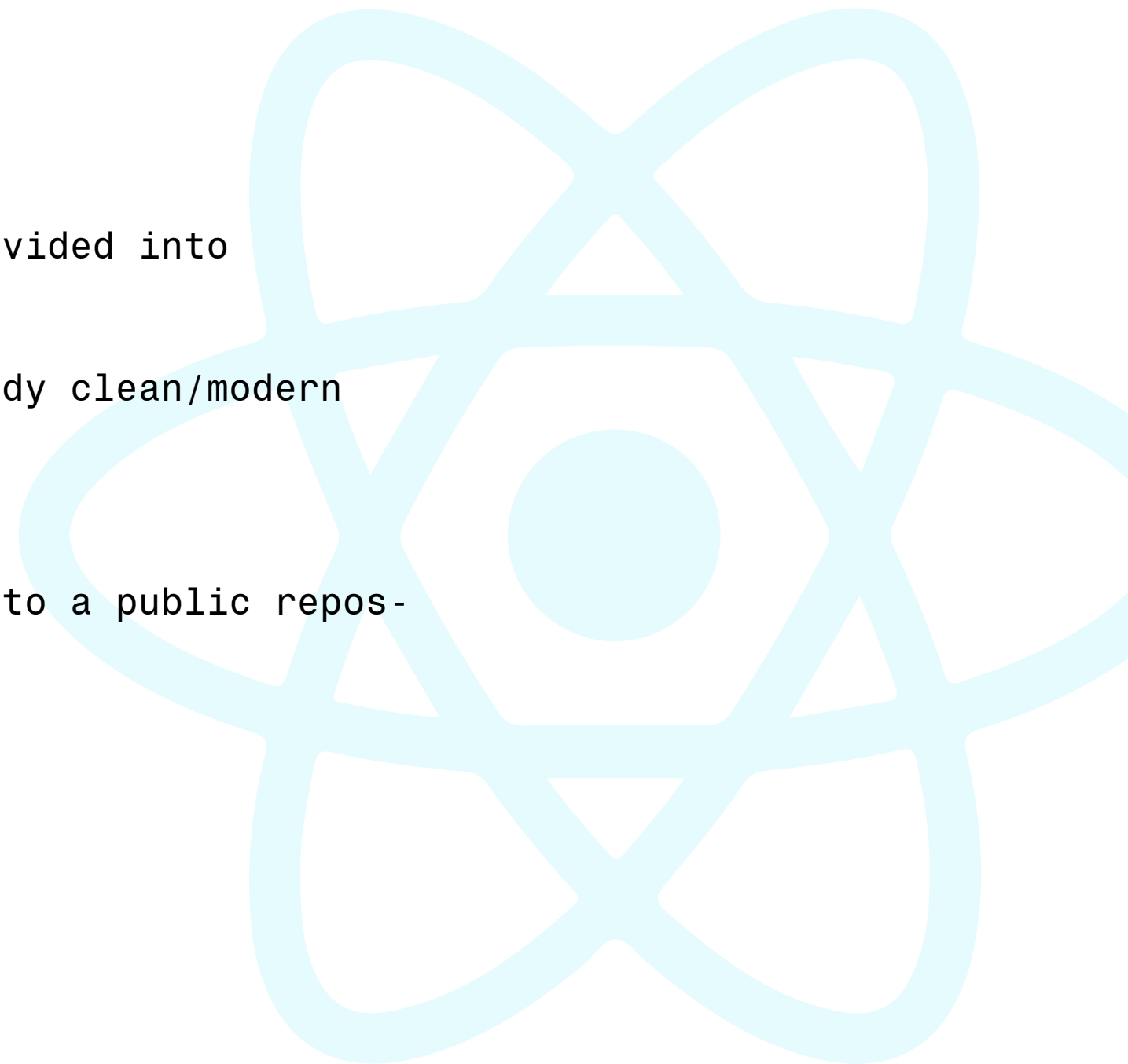
## Requirements

- The user should be able to enter a # of minutes (positive integer) and click a “Start” button to initialize the countdown.
- Timer format: MM:SS
- The user should be able to pause & resume the countdown using pause/resume buttons.
- While the countdown timer is active, the user should be able to speed up / slow down the speed at the following rates: -- 1.0X (normal speed, selected by default) -- 1.5X -- 2X



# A aplicação Countdown Timer Application

- When the countdown timer reaches 0, this text should change to: “Time’s up!”
- When the countdown is within 20 seconds of ending, the countdown timer text should turn red.
- At 10 seconds, the text should start blinking.
- Include unit testing for applicable functionality.
- The countdown timer functionality should be appropriately divided into well-defined components.
- The look of the countdown timer should have a production-ready clean/modern aesthetic. Feel free to creatively stylize the elements.
- Extra credit: Play a sound as the timer ends.
- Export as a git repository (either as a .zip file or a link to a public repository) with screenshots in the README.md file.

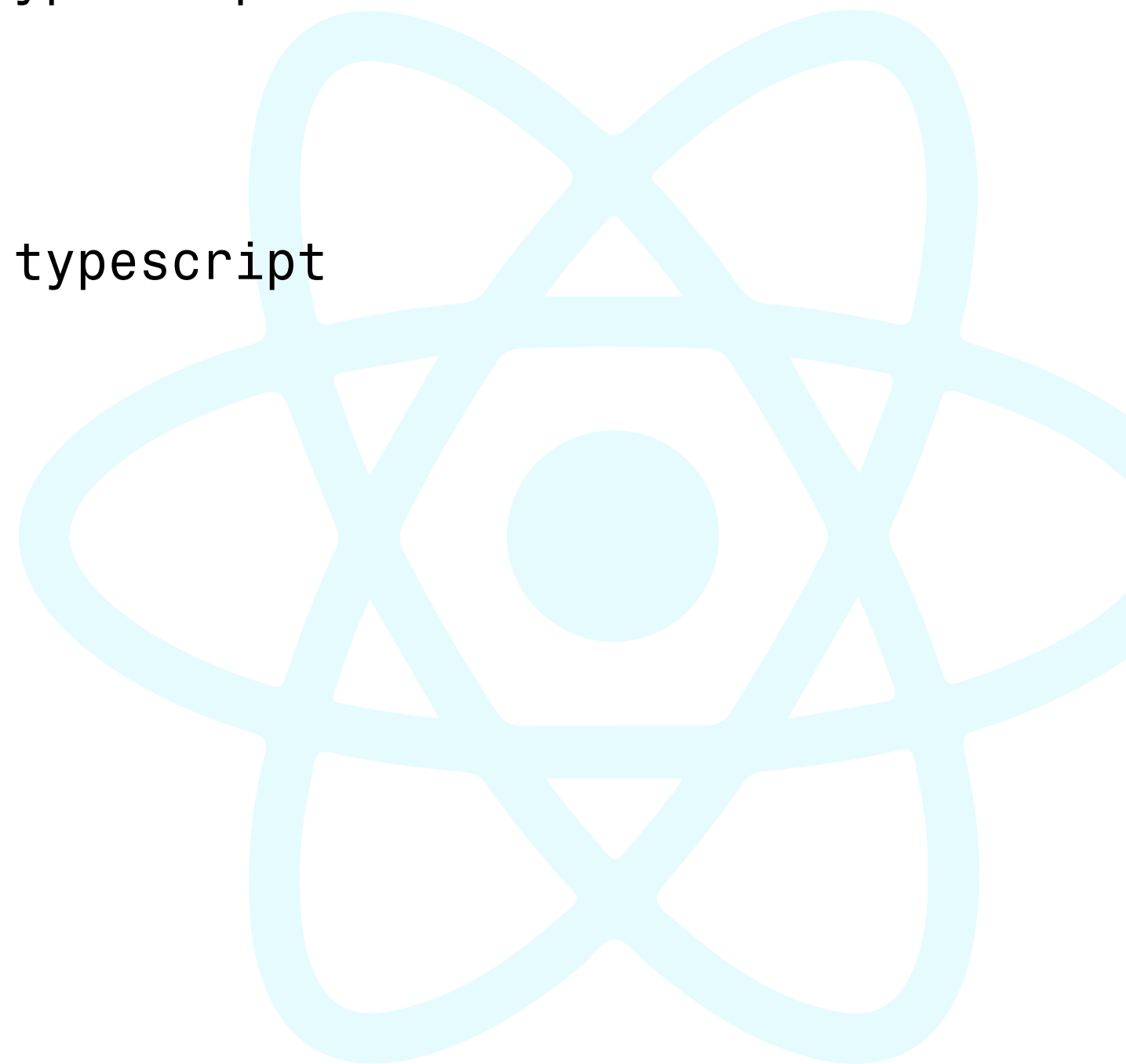


# Bora começar!

```
npx create-react-app projeto-iff --template typescript
```

Ou

```
yarn create react-app projeto-iff --template typescript
```



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**Obrigado!**