

How to design a HEX to RGB converter using ReactJS

Do you know how to create a reverse HEX to RGB converter? If not, please read the instructions for designing this tool in React.js below.

Do you know how to create a reverse **HEX to RGB** converter ? If not, please read **the instructions for designing this tool in React.js** below.

This web application is developed using **ReactJS** , converting color codes from HEX to RGB and vice versa. It is a user-friendly color conversion tool that supports real-time preview, error correction and copying color values ??to clipboard.



Necessary conditions:

1. React JS
2. CSS
3. React Hooks
4. NPM and NPX

Steps to create a Hex to RGB converter using ReactJS

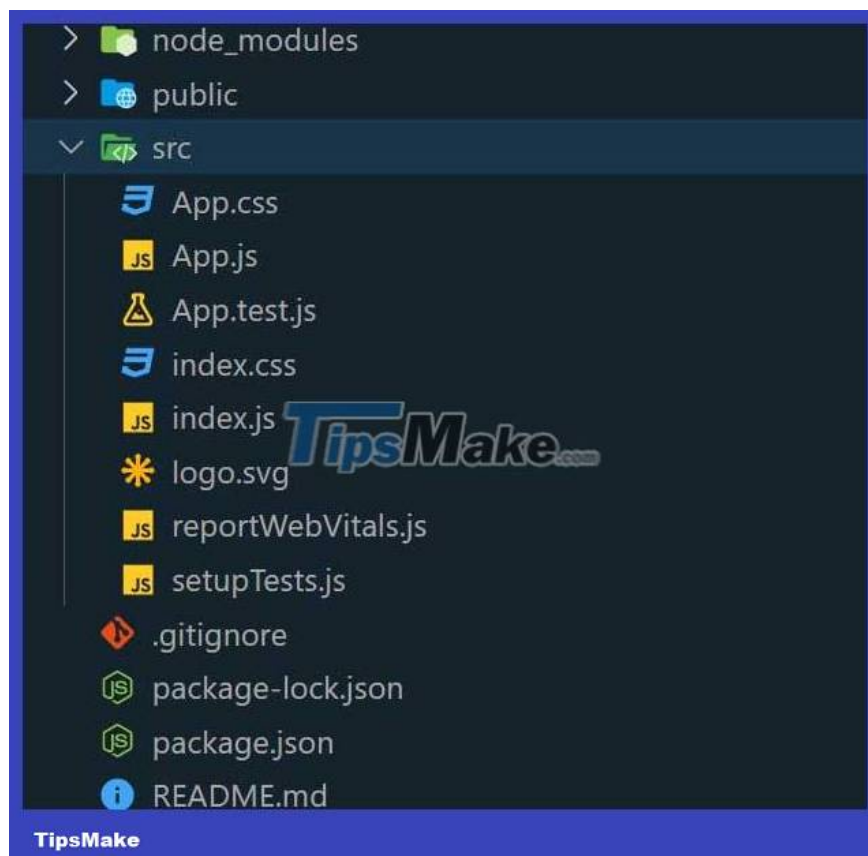
Create a react app using this command:

```
npx create-react-app hex-to-rgb-converter
```

After creating the project directory, e.g. hex-to-rgb-converter, use the following command to navigate to it:

```
cd hex-to-rgb-converter
```

Project structure



Package.json

```
"dependencies": { "@testing-library/jest-dom": "^5.17.0", "@testing-library/react": "
```

Method

1. It uses state variables to store HEX and RGB values, useRef for input field references.
2. The valid and invalid functions handle input validation and error reporting.
3. toRgb converts HEX to RGB and sets the document background color.
4. toHex converts RGB to HEX and vice versa.
5. The functions 'copyRgbToClipboard' and 'copyHexToClipboard' copy values to the clipboard.
6. This component provides input fields, button copy, and a color picker.
7. Errors are displayed as red text and the background color of the document is updated.

For example

JavaScript

```
import React, { useState, useRef } from 'react'; import './App.css'; function App
```

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HEX To RGB Converter

```

    RGB
    { setRgbValue(e.target.value); toHex(e.target.value); }} ref={rgbInputRef} place
Copy RGB    HEX
    { setHexValue(e.target.value); toRgb(e.target.value); }} ref={hexInputRef} place
Copy HEX    {error &&
{error}
} Color Picker:
    { const selectedColor = e.target.value; setHexValue(selectedColor); toRgb(select

```

CSS

```
.container { background-color: #f5f5f5; padding: 20px; border-radius: 10px; max-w
```

Steps to run the application

Enter the following command into terminal:

```
npm start
```

Enter the following URL in the browser:

```
http://localhost:3000/
```

Result:



Hope this article is useful to you!

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