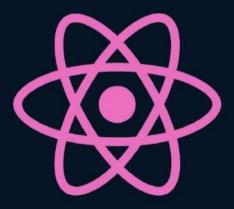


# Context API



### Introduction

Context API is a solution for a more elegant way of passing data between components by creating global variables, without the need to pass props down the component three manually

#### TO GET STARTED:

create a react app:
npx create-react-app context-app

Add context folder with color-contex.js inside

```
✓ context

JS color-context.js
```

Add components folder with two sample files:







### What we are building

We will be able to access global color variable and change it directly from the components:

#### ComponentA



#### ComponentB





## color-context.js

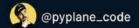
Let's create our global state inside the color-context.js file

```
import { createContext, useState } from 'react';
export const ColorContext = createContext({
   selectedColor: null,
   onColorChange: (newColor) => {},
1)
export const ColorContextProvider = ({children}) => {
    const [color, setColor] = useState('red')
    const handleColorChange = (c) => {
        setColor(c);
    const contextValue = {
        selectedColor: color.
        onColorChange: handleColorChange,
    return (
        <ColorContext.Provider value={contextValue}>
            {children}
        </ColorContext.Provider>
```



### Wrap our App

Now in order to use the color content in our application - we need to wrap our App with the ColorProvider



# Component A

Let's take a look at an example how we could access and modify global state in component-a.js

```
import { useContext } from "react";
import { ColorContext } from "../context/color-context";
const ComponentA = () => {
    const colorCtx = useContext(ColorContext);
    const {selectedColor, onColorChange} = colorCtx;
    return (
            <h1 style={{color: selectedColor}}>
                hello world
            </h1>
            <button onClick={()=>onColorChange('green')}>
                change to green
            </button>
            <button onClick={()=>onColorChange('blue')}>
                change to blue
            </button>
export default ComponentA;
```



## Component B

Let's also take a look at a similar example where we could use our newly created color context in a different component

```
import { useContext } from "react";
import { ColorContext } from "../context/color-context";
const ComponentB = () => {
    const colorCtx = useContext(ColorContext)
   const {selectedColor, onColorChange} = colorCtx
    return (
                style={{
                    backgroundColor: selectedColor,
                    width: '100%', height:500
                11
            <h3>selected color: {selectedColor}</h3>
            <button onClick={()=> onColorChange('blue')}>
                switch to blue
export default ComponentB;
```