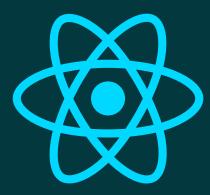
# Crypto Stadistics



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# RECURSOS

Node.js: npx create-react-app

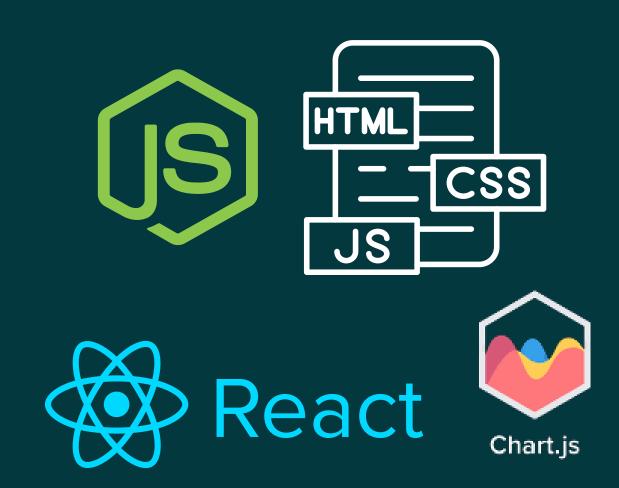
Jest: npm install --save-dev jest

Chart.js: npm install chart.js

react chart.js: npm add react-chartjs-2 chart.js

React icons: npm i react-icons

Moment: npm install moment



# Componentes



- App
- Header
- Card Principal
- Card
- Convert
- InputConvert
- TableCoins
- CoinRow
- Graph
- Footer





Este componente es el encargado de renderizar toda la aplicación.

Aquí se hace la importación de los componentes.

Se crearán los siguientes estados:

const [coins, setCoins] = useState()
const [currency, setCurrency] = useState()
const [selCur, setSelCur] = useState("usd")

Se crearán 2 hooks, uno que se ejecuta una vez se renderiza el componente y que consuma el api, y otro que consuma el api al cambiar el estado selCur



# CONSUMO DE LA API



Vamos a consumir la API de Coingecko para traer la información de las criptomonedas con mayor capitalización del mercado.

En este componente se consumen los siguientes links:

## Link de información principal de la app:

https://api.coingecko.com/api/v3/coins/markets? vs\_currency=usd&order=market\_cap\_desc&per\_page=4&page=1&sparkline=false&price\_change\_percentage=1h%2C24h%2C7d%2C30d%2C90d%2Cly

# Link de la API que cambiará la información dependiendo de la moneda que elijamos:

https://api.coingecko.com/api/v3/simple/supported\_vs\_currencies

#### Ejemplo consumo api:

```
const getData = async () =>{
const response = await fetch(`https://unUrl)
const json = await response.json()
setCoins(json)
```



# <a href="mailto:<a href="mailto:winder"><a href="mailt

Las props que utilizaremos para nuestro componente <CardPrincipal />

```
{ json: { id,
  symbol,
  current_price,
  image,
  price_change_percentage_1h_in_currency,
  price_change_percentage_24h_in_currency,
  price_change_percentage_7d_in_currency,
  price_change_percentage_30d_in_currency,
  price_change_percentage_ly_in_currency}, cur = "usd" }
className={colorDec(price_change_percentage_1h_in_currency)}
deleteDec(price_change_percentage_7d_in_currency, 2)
```

Resultado previsto:



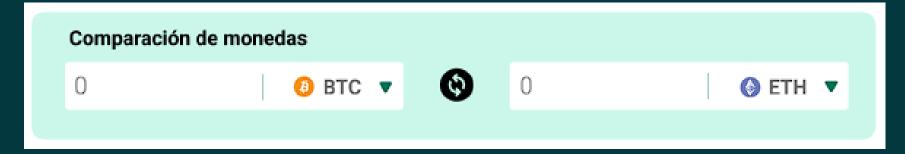




## Los props utilizados para este componente son:

{coinId, cur, porcentaje, price, img}

<Graph coin={coinId} currency={cur}
color={colorDec(porcentaje)}/>



# Los estados utilizados para este componente son:

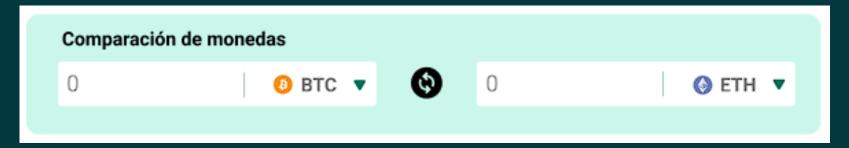
```
const [coin, setCoin] = useState([])
const [selCoin1, setSelCoin1] = useState("btc")
const [selCoin2, setSelCoin2] = useState("eth")
const [mainTxt, setMainTxt] = useState(0)
const [res, setRes] = useState(0)
```

# <InputConvert/>

Utilizaremos el siguiente Hook al cambiar los estados [mainTxt,selCoin1,selCoin2])

```
let a,b
 coin.forEach(({symbol, current_price}) =>{
 if(symbol == selCoin1){
  a = (mainTxt * current_price) / 1
  }else if(symbol == selCoin2){
  b = current_price
 a ? setRes(a / b) : setRes(0)
```





## Los hooks utilizados para este componente son:

```
const selRef = useRef(null)
const [selVal, setSelVal] = useState(sel)
```

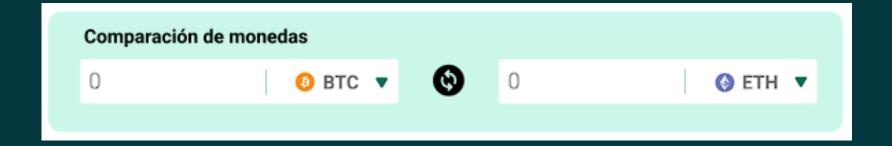
## Las props utilizados para este componente son:

```
{ coin, sel = "btc", fun, other, text, type = 1, result = 0}
```

#### Se hace uso de ternario

```
(type == 0) ? <input type="number" placeholder="0" onChange={e => {text(parseInt(e.target.value))}}/> : <input type="number" placeholder="0" value= {deleteDec(result, 4)} readOnly={true}/>
```





#### Llenado del select

```
<select value={selVal} ref={selRef} onChange={() => {
    setSelVal(selRef.current.value)
    fun(selRef.current.value)
}}>
```

## Llenado de las opciones del select

```
coin.map((co) => {
        if(co.symbol === selVal){
           selRef.current.previousSibling.src
= co.image
           return <option value={co.symbol}
key={co.id}>{co.symbol}</option>
        }else if(co.symbol != other){
           return <option value={co.symbol}
key={co.id}>{co.name}</option>
```

# <TableCoins/>

# Resultado previsto:

#	Moneda	Precio	24h	Vol. en 24h	Cap. mercado	Últimos 7 días
1	<b>B</b>	16.490,89 US\$	1.8%	26.339.191.989 US\$	316.490.116.965 US\$	many
2		1172,65 US\$	3.7%	9.028.236.107 US\$	140.560.206.984 US\$	may have
3		12,75 US\$	4.3%	191.846.806 US\$	3.821.754.983 US\$	my

Se reciben las siguientes props { coins }

# Y se llena cada fila con el componente Coinrow

# <CoinRow/>

```
{index}
  <div className="coin_image_container">
     <img src={coin.image} title={coin.name} alt={coin.name} />
   </div>
  {numberF.format(coin.current_price)}US$
  {deleteDec(coin.market_cap_change_percentage_24h, 2)}%
  {numberF.format(coin.total_volume)}US$
  {numberF.format(coin.market_cap)}US$
  <Graph coin={coin.id} days={7} color=
{colorDec(coin.market_cap_change_percentage_24h)}/>
```

Se reciben las props { coin, index } y se crea la tabla

#### Resultado previsto:





#### Se hace la importación de librerias y componentes

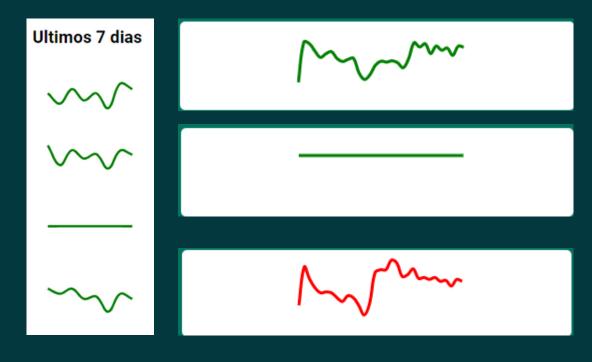
```
import { Line } from "react-chartjs-2";
import moment from "moment/moment";
import {
    Chart as ChartJS, CategoryScale,LinearScale,PointElement,
    LineElement, Title,Tooltip,Filler, Legend,
    } from 'chart.js';
```

## Se registra el grafico y los plugins a usar

```
ChartJS.register(
CategoryScale, LinearScale, PointElement, LineElement,
Title, Tooltip, Filler, Legend
)
```

## Resultado previsto:





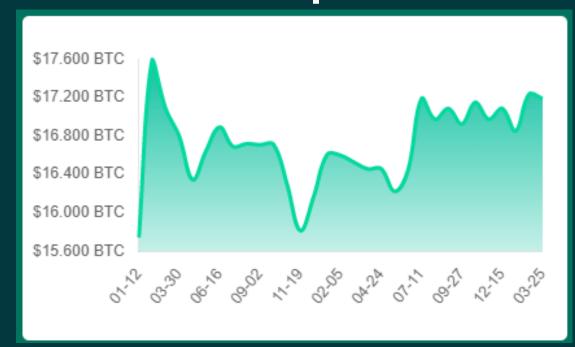
#### Se usaron las siguientes props

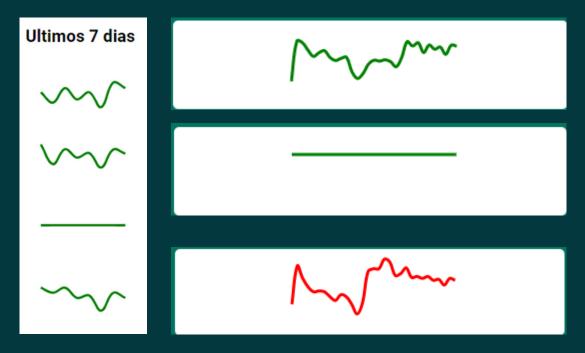
```
{type = 1, coin = "bitcoin", currency = "usd", days = 30,color = "#04D99D"}
```

Se crea una constante con un json que utilizaremos más adelante

```
const chartStyle = {
     border: {
        display: false
     grid:{
        display: false,
     ticks: {
        display: false
```

#### Resultado previsto:





#### Se consumira esta api:

https://api.coingecko.com/api/v3/coins/\${coin}/market\_char t?vs\_currency=\${currency}&days=\${days}&interval=daily

## Crearemos los siguientes estados y variables:

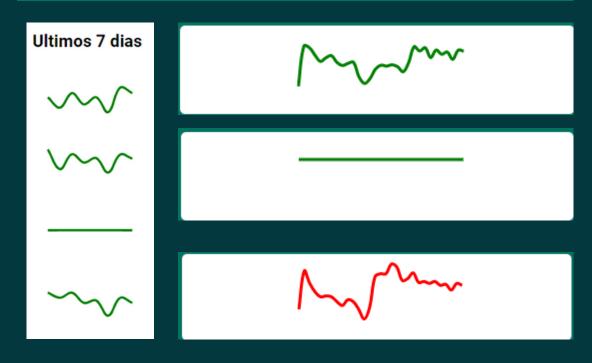
let data , options
const [prices, setPrices] = useState()
const [dates, setDates] = useState()
const [gradient, setGradient] = useState()

#### Se establecen los estados

setPrices(json.prices.map(item => Math.round(item[1])))
setDates(json.prices.map(item => moment.unix(item[0]).format("MM-DD")))

## Resultado previsto:





#### Usamos el hook ref

const chartRef = useRef(null);

Al cargar el componente definimos los gradientes

const canvas = chartRef.current.firstChild
let BGgradient = canvas.getContext("2d").createLinearGradient(0, 0, 0, canvas.height);

BGgradient.addColorStop(0, 'rgba(4, 191, 157, 1)'); BGgradient.addColorStop(1, 'rgba(4, 191, 157, 0)') setGradient(BGgradient)

## Renderizamos el componente