The React Props Cheatsheet (2021)

React Sandbox: https://codesandbox.io/s/practical-pond-xotyg?file=/src/App.js

1. Props can be passed conditionally

2. Props passed with just their name have a value of true

3. Props can be accessed as an object or destructured

4. Components can be passed as props (including children)

5. Anything can be passed as a prop (especially functions)

6. Update a prop's value with state

```
import React from 'react'
export default function App() {
 return (
   <MyComponent
     title="My Title To Change"
   />
 );
function MyComponent({ title }) {
 // in this example, we are receiving a static value from props
 // but changing it to a dynamic one using state
 const [newTitle, setNewTitle] = React.useState(title)
 function updateNewTitle() {
   setNewTitle("Something else")
 }
  return <h2 onClick={updateNewTitle}>{newTitle}</h2>
}
```

7. Props can be spread in individually

```
import React from 'react'
export default function App() {
 const data = {
   title: "my title",
   description: "my description",
   button: "see more"
 }
 return (
   <MyComponent {...data} />
 );
function MyComponent({ title, description, button }) {
   <div>
     <h1>{title}</h1>
     {p>{description}
     <button>{button}
   </div>
 )
}
```

8. Props can be given a default value if none is provided

```
import React from 'react'

export default function App() {
   const data = {
      description: "my description",
      button: "see more"
   }

   return (
      <MyComponent {...data} />
   );
}

function MyComponent({ title = "My Default Title", description, button }) {
   return (
      <div>
            <h1>{title}</h1>
```

```
{description}
  <button>{button}</button>
  </div>
)
}
```

9. Props can be renamed to avoid errors

```
import React from 'react'
export default function App() {
 const data = {
   title: "my title",
   description: "my description",
   button: "see more"
 }
 return (
   <MyComponent {...data} />
 );
function MyComponent({ title, description, button: buttonText }) {
 const button = <button>like this post</button>
 return (
   <div>
     <h1>{title}</h1>
     {p>{description}
     <button>{buttonText}</button>
     {button}
   </div>
 )
}
```

10. Don't attempt to destructure props multiple times

```
import React from 'react'

export default function App() {
  const data = {
    title: "my title",
    description: "my description",
    // button: {
```

```
// text: "see more"
  // }
 }
 return (
   <MyComponent {...data} />
);
}
function MyComponent({ title, description, button: { text } }) {
 const button = <button>like this post</button>
 // our app breaks if we try to destructure the property text
 // from an object that doesn't exist "button" on data
   <div>
     <h1>{title}</h1>
     {p>{description}
     <button>{text}
     {button}
   </div>
)
}
```