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Chris Parker

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How to Display Tooltip in React Bootstrap

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Introduction

You can use *tooltips* to provide further context for the elements of your app. However, although tooltip is considered a simple and effective element, it can be challenging to implement. For starters, you must consider various factors such as positioning, responsive layouts, and different browsers' support. Luckily, you have several libraries that may help you. This guide covers four of the most

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popular libraries for displaying tooltips within React apps: [React Tooltip](#), [Material UI](#), [Bootstrap](#), and [Semantic UI](#).

15 This guide requires that you are familiar with React components and that you know how to use props and states to manipulate them.

Selecting Tooltip Library

The libraries that this guide covers provide significant tooltip components. With each of these libraries, you can add a tooltip, set its content, and configure its setting and style.

Choose React Tooltip if you need a tooltip component for your React app and are not looking for other elements on board. React Tooltip is a tiny library that includes only a tooltip component, while the other options presented in this guide are huge UI libraries that offer many other components.

If you need a variety of elements with the same look and feel, you may want to deploy Material UI, Bootstrap, and Semantic UI. Your decision may depend on the requirements and preferences of each individual project.

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React Tooltip

React Tooltip offers a tooltip component only. Start by adding React Tooltip to a project:

```
1 # add with npm
2 npm install react-tooltip
3 # or with yarn
4 yarn add react-tooltip
```

bash

Then, use the `ReactTooltip` component to display tooltips as follows:

```
1 import React from "react";
2
3 import ReactTooltip from "react-tooltip";
4
5 export default function App() {
6   return (
7     <div className="App">
8       <button data-tip data-for="registerTip">
9         Register
10       </button>
11
12       <ReactTooltip id="registerTip" place="top" effect="solid">
13         Tooltip for the register button
14       </ReactTooltip>
15     </div>
```

javascript

```
16     );  
17 }
```

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15 The example above starts by importing the `ReactTooltip` component. `ReactTooltip` is used to render the content of the tooltip. Remember to specify the `id` property for the tooltip and the content. Define the position of the tooltip using the `place` and `effect` properties. Now, you must mark the element you wish to display the tooltip for. To achieve this, use `data-tip` and `data-for` custom attributes. Although you may show tooltips for any element of your choice, the examples in this guide cover specifying these attributes for the `<button>` element.

Use the `data-tip` attribute to help React Tooltip find the element. The `data-for` attribute includes the `id` of the `ReactTooltip` component that you declared earlier.

Refer to the [API description](#) in the GitHub repository and [additional examples](#) on the official site for more information regarding the libraries' other options regarding manipulating the position, events, and style of the tooltip .

Material UI

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Material-UI is a combination of React components inspired by the [Material Design](#) offered by Google that you may use in your React apps. Material-UI includes a [Tooltip](#) component that you can use to display tooltips.

In order to display a basic tooltip with Material UI, do as follows:

```
1      import React from "react";
2
3      import Button from "@material-ui/core/Button";
4      import Tooltip from "@material-ui/core/Tooltip";
5
6      export default function App() {
7        return (
8          <div className="App">
9            <Tooltip
10              title="Tooltip for the register button"
11              placement="top"
12            >
13              <Button variant="contained">Register</Button>
14            </Tooltip>
15          </div>
16        );
17      }
```

javascript

As shown above, start by importing the [Button](#) and [Tooltip](#) components. Proceed to wrap the button that you wish to display a tooltip for with the [Tooltip](#) component. Set the properties for the

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tooltip; the `title` and `placement` properties define the text to display and position respectively.

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er to the [official site](#) for more tooltip examples.

Bootstrap

[Bootstrap](#) is without question one of the most popular frameworks for developing web apps. It encompasses a collection of components that enable you to display overlays, tooltips, and popovers.

Check out the following example of using [React Bootstrap](#) to display the Bootstrap tooltip:

javascript

```
1      import React from "react";
2
3      import "bootstrap/dist/css/bootstrap.css";
4
5      import Button from "react-bootstrap/Button";
6      import OverlayTrigger from "react-bootstrap/OverlayTrigger";
7      import Tooltip from "react-bootstrap/Tooltip";
8
9      export default function App() {
10         const renderTooltip = props => (
11             <Tooltip {...props}>Tooltip for the register button</Tooltip>
```

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```
12     );  
13  
14     return (  
15         <div className="App">  
16             <OverlayTrigger placement="top" overlay={renderTooltip}>  
17                 <Button>Register</Button>  
18             </OverlayTrigger>  
19         </div>  
20     );  
21 }
```

Begin by importing the `Button`, `Tooltip`, and `OverlayTrigger` components. Do not forget to import the Bootstrap CSS file for the default theme as well.

The `Tooltip` component in Bootstrap uses the `OverlayTrigger` component to position itself because it does not position itself by default. In order to show the tooltip for the button, you must wrap the `Button` with the `OverlayTrigger` component. Use the `placement` property of the overlay to set the position of the tooltip. Furthermore, use the `overlay` property to set the content you wish to render for the tooltip.

The `renderTooltip` function that you specified for the `overlay` property returns the `Tooltip` component with tooltip's content.

Refer to the [official site](#) for more tooltip examples.

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Semantic UI

15 Semantic UI is a prevalent UI framework with its own tooltip component that you can utilize in your React apps.

The following is an example of using the Semantic UI `Popup` component to display a tooltip:

javascript

```
1      import React from "react";
2
3      import "semantic-ui-css/semantic.min.css";
4
5      import { Button, Popup } from "semantic-ui-react";
6
7      export default function App() {
8        return (
9          <div className="App">
10            <Popup
11              trigger={<Button>Register</Button>}
12              position="top center"
13            >
14              Tooltip for the register button
15            </Popup>
16          </div>
17        );
18      }
```


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First, import the `Button` and `Popup` components. For default styling, remember to import the Semantic UI `semantic.min.css` file well.

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Use the `Popup` component to render the tooltip. Set the `trigger` property to determine the component you wish to include the tooltip for. Furthermore, experiment with the `position` property to set the position of the tooltip. To set the tooltip's content, modify the content within the `Popup` component.

Conclusion

Tooltips offer an effective yet tricky way to display extra content for UI elements. This guide covered four different approaches to including tooltips in your React apps. You can try out these four libraries and choose the one that suits your preferences and designs.