

# @types/react-dom

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is a TypeScript definition package from the DefinitelyTyped project that provides type information for the `react-dom` library, essential for building React apps with TypeScript to get autocompletion and type safety for DOM-specific React functions like `ReactDOM.render()` and server-side rendering methods, installed via npm or yarn alongside `react` and `@types/react`.

## Purpose & Use

- **Type Definitions:** Adds static types for `react-dom`, allowing TypeScript to understand functions, properties, and return types for DOM manipulation within React.
- **TypeScript Integration:** Crucial for TypeScript projects using React, providing IntelliSense and error checking for `react-dom` APIs.
- **Server-Side Rendering (SSR):** Includes types for `ReactDOMServer` for SSR scenarios.

## Installation

bash

```
npm install --save-dev @types/react @types/react-dom
# or
yarn add -D @types/react @types/react-dom
```

*Note: You'll typically install `@types/react` and `@types/react-dom` together for a full setup.*

## Key Exports

- `ReactDOM`: For client-side rendering (e.g., `ReactDOM.createRoot()`).
- `ReactDOMServer`: For server-side rendering (e.g., `ReactDOMServer.renderToString()`).

## How it Works

When you use React with TypeScript, `@types/react-dom` (and `@types/react`) provides the "contracts" for how these libraries work, ensuring you're using them correctly and catching potential bugs before runtime

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