



## Blog

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### Differences between uncontrolled and controlled components

FEATURES	CONTROLLED COMPONENT	UNCONTROLLED COMPONENT
Value Management	Managed by React state	Managed by component's own internal state
Performance	Generally faster as there's less state management	Generally slower as there's more state management
User Interaction	Parent component updates state on user interaction	Component updates own internal state on user interaction
Debugging	Easier to debug	More difficult to debug
Data Flow	Data flows from parent component to component	Data flows within the component

### How to validate React props using PropTypes

We can use prop-types to document the intended types of properties passed to components. React (and potentially other libraries—see the `checkPropTypes()` reference below) will check props passed to your components against those definitions, and warn in development if they don't match.

Below are the validators for the basic data types:

`PropTypes.any`: The prop can be of any data type  
`PropTypes.bool`: The prop should be a Boolean  
`PropTypes.number`: The prop should be a number  
`PropTypes.string`: The prop should be a string  
`PropTypes.func`: The prop should be a function  
`PropTypes.array`: The prop should be an array  
`PropTypes.object`: The prop should be an object  
`PropTypes.symbol`: The prop should be a symbol

### Differences between nodejs and express js

**Node.js** is a platform for building the i/o applications which are server-side event-driven and made using JavaScript. It is used to build server-side, input-output, event-driven apps. Run-time platform or environment designed for server-side execution of JavaScript. It is built on Google's V8 engine.

**Express.js** is a framework based on Node.js which is used for building web-application using approaches and principles of Node.js event-driven architecture. It is used to build web-apps using approaches and principles of Node.js. Framework based on Node.js. It is built on Node.js.

### What is a custom hook, and why will i create a custom hook?

A custom Hook is a JavaScript function whose name starts with "use" and that may call other Hooks. That's it! If you have code in a component that you feel would make sense to extract, either for reuse elsewhere or to keep the component simpler, you can pull that out into a function.

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