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| **ch13.ReactJS State Vs Props** | **Date: 22-02-2022** |

**Topics**

React State Vs Props,

# React State Vs Props

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| **SN** | **Props** | **State** |
| **1.** | Props are read-only. | State changes can be asynchronous. |
| **2.** | Props are immutable. | State is mutable. |
| **3.** | Props allow you to pass data from one component to other components as an argument. | State holds information about the components. |
| **4.** | Props can be accessed by the child component. | State cannot be accessed by child components. |
| **5.** | Props are used to communicate between components. | States can be used for rendering dynamic changes with the component. |
| **6.** | Stateless component can have Props. | Stateless components cannot have State. |
| **7.** | Props make components reusable. | State cannot make components reusable. |
| **8.** | Props are external and controlled by whatever renders the component. | The State is internal and controlled by the React Component itself. |

The below table will guide you about the changing in props and state.

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| **SN** | **Condition** | **Props** | **State** |
| **1.** | Can get initial value from parent Component? | Yes | Yes |
| **2.** | Can be changed by parent Component? | Yes | No |
| **3.** | Can set default values inside Component? | Yes | Yes |
| **4.** | Can change inside Component? | No | Yes |
| **5.** | Can set initial value for child Components? | Yes | Yes |
| **6.** | Can change in child Components? | Yes | No |

**Note**: The component State and Props share some common similarities. They are given in the below table.

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| **SN** | **State and Props** |
| **1.** | Both are plain JS object. |
| **2.** | Both can contain default values. |
| **3.** | Both are read-only when they are using by this. |