

# Conditional Rendering in React

## 1. Conditional Rendering in React:

Conditional rendering in React works the same way conditions work in JavaScript.

It allows you to render different UI elements depending on the state or props.

Example:

```
{isLoggedIn ? <UserPage /> : <GuestPage />}
```

## 2. Element Variables:

Element variables allow you to store elements in variables and use them in JSX.

This helps simplify conditional rendering logic.

Example:

```
let button;
```

```
if (isLoggedIn) {
```

```
  button = <LogoutButton onClick={handleLogoutClick} />;
```

```
} else {
```

```
  button = <LoginButton onClick={handleLoginClick} />;
```

```
}
```

## 3. Preventing Component Rendering:

You can prevent a component from rendering by returning null in its render method.

This is useful when you want to hide a component without affecting the rest of the UI.

Example:

```
function WarningBanner(props) {
```

```
  if (!props.warn) {
```

```
    return null;
```

```
  }
```

```
  return <div className="warning">Warning!</div>;
```

```
}
```