

Trainer guide

Examples and exercises

React-3 – Conditional rendering

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React-3a | Example: Conditional rendering

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In this example, you will demonstrate the need for conditional rendering and the different ways to achieve it.

src/App.jsx

- Here's a simple to-do list.
- Notice that the `TodoItem` component takes a boolean prop called `isComplete`.
 - *Change the prop's value between true and false.*
 - When the value is true, you can see that a tick mark (✓) is displayed alongside the to-do item.
 - When the value is false, no tick is displayed.
- Changing how a component is displayed depending on a condition is called **"conditional rendering"**.
- There are a few different strategies to achieve this.

src/components/TodoItem.jsx

- Strategy 1 - if statements
 - This is a readable way of implementing conditional rendering.
 - "If `isComplete` is true, then return this - otherwise, return that."
- Strategy 2 - ternary operator
 - *Comment out Strategy 1 and uncomment Strategy 2.*
 - This strategy uses the ternary operator, which is a JavaScript feature we've looked at previously.
 - It says the same thing as the previous version, just in a different way - again, "If `isComplete` is true, then return this - otherwise, return that."
- Strategy 3 - logical `&&` (and) operator
 - *Comment out Strategy 2 and uncomment Strategy 3.*
 - This takes advantage of the fact that JavaScript expressions can be embedded within JSX, including the logical `&&` operator.
 - In JavaScript:
 - `true && <value>` evaluates to `<value>`
 - `false && <value>` evaluates to `false`
 - So, if the condition is true, then React will display whatever comes after the `&&`.
 - But if the condition is false, then the whole expression evaluates to false. And when React sees a false value, it ignores it.
- We'll put conditional rendering into practice in the next exercise.

React-3b | Exercise: Conditional rendering

[Link to environment](#)

This exercise gives learners practice on conditional rendering.

src/App.jsx

- We're back to the fruit market app.
- A new prop has been added to the ItemCard component - **isInStock**.
- When **isInStock** is true, the item card should display "In stock" at the bottom.
- When **isInStock** false, it should display "Out of stock" instead.

Exercise

- Apply conditional rendering to complete the task.

Solve the exercise live before moving on.

[Solution reference](#)