



BOOTCAMP

React Testing





HELLO!

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1.

React Testing Library

RTL

React Testing Library is a set of helpers that let you test react components without **relying** on their **implementation details**.

This approach makes refactoring a breeze and also nudges you towards best practices for **accessibility**

- You want to write maintainable tests for your React components
- You want your testbase to be maintainable in the long run



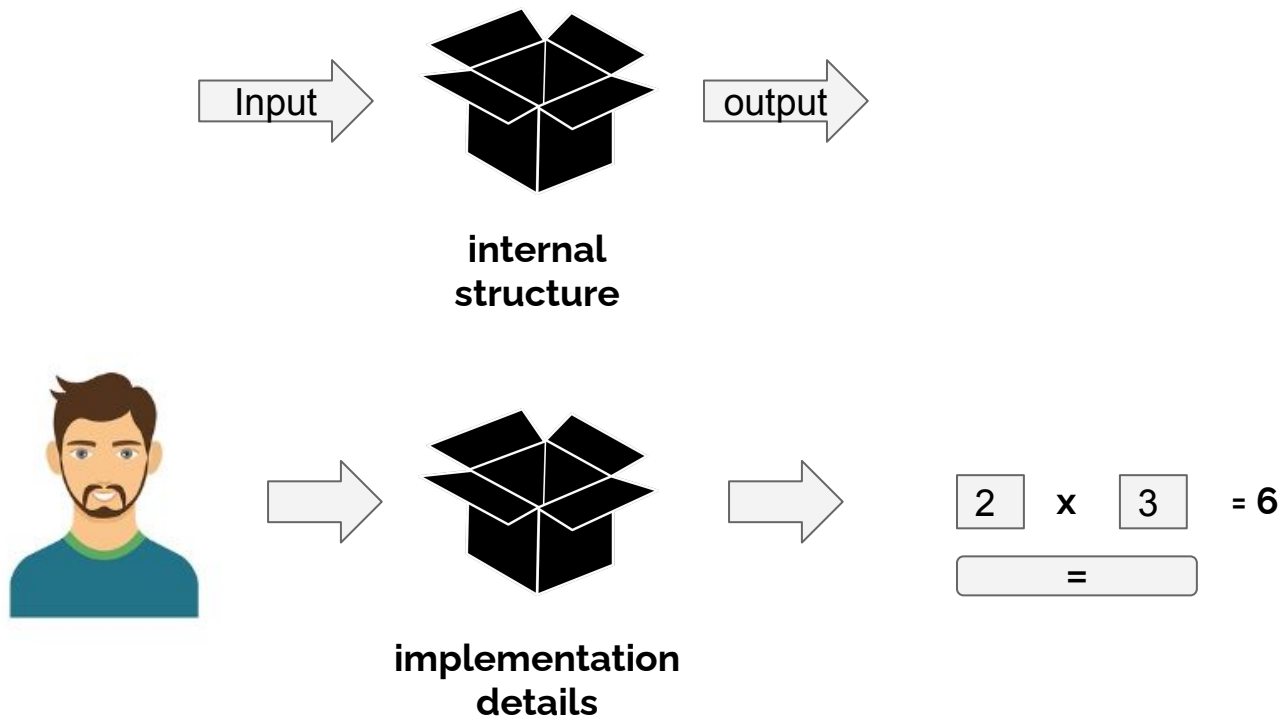
Principales

It should be generally useful for **testing** the application components in the way the **user would use it**.

Utilities should encourage tests that use the components the way they're **intended** to be **used**.

Utility implementations and APIs should be simple and flexible.





2. Jest

- Finds tests, run then, and make assertions
- Is recommended by Testing Library
- Comes with create-react-app

Test method

- Description
- Test function

```
test("when using ProductCart component", () => {});
```



Assertions

Jest global method **expect()**

Jest DOM Docs

[testing-library/jest-dom: Custom jest matchers to test the state of the DOM \(github.com\)](https://testing-library/jest-dom: Custom jest matchers to test the state of the DOM (github.com))

```
expect (image) .toBeInTheDocument ( ) ;
```

Argument to the assertions

Matcher
Assertion type

3. Accessibility

Queries Accessible to Everyone

- `getByRole`
- `getLabelText`
- `getByPlaceholderText`
- `getByText`
- `getByDisplayValue`

Semantic Queries

- `getByAltText`
- `getByTitle`

Test IDs

- `getByTestId`



4. AAA Pattern

Arrange inputs and targets

Act on the target behavior

Assert expected outcomes

```
test("should display the product image", () => {  
  // Arrange  
  render(<ProductCart product={product} />);  
  
  //Act  
  const image = screen.getByRole("img");  
  
  //Assert  
  expect(image).toBeInTheDocument();  
});
```



THANKS!

- [Guiding Principles | Testing Library \(testing-library.com\)](https://testing-library.com/docs/guiding-principles)
- [Accessible Rich Internet Applications \(WAI-ARIA\) 1.1 \(w3.org\)](https://www.w3.org/WAI/ARIA/1.1/)
- [testing-library/jest-dom: Custom jest matchers to test the state of the DOM \(github.com\)](https://github.com/testing-library/jest-dom)
- [user-event v13 | Testing Library \(testing-library.com\)](https://testing-library.com/docs/user-event/v13)
- [testing-library/react-testing-library: 🦊 Simple and complete React DOM testing utilities that encourage good testing practices. \(github.com\)](https://github.com/testing-library/react-testing-library)
- [Testing Overview – React \(reactjs.org\)](https://reactjs.org/docs/testing-overview.html)
- [Testing Recipes – React \(reactjs.org\)](https://reactjs.org/docs/testing-recipes.html)