



# Cheatsheet

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A short guide to all the exported functions in `React Testing Library`

- **render** `const {/* */} = render(Component)` returns:
  - `unmount` function to unmount the component
  - `container` reference to the DOM node where the component is mounted
  - all the queries from `DOM Testing Library`, bound to the document so there is no need to pass a node as the first argument (usually, you can use the `screen` import instead)

```
import {render, fireEvent, screen} from '@testing-library/react'

test('loads items eventually', async () => {
  render(<Page />)

  // Click button
  fireEvent.click(screen.getByText('Load'))

  // Wait for page to update with query text
  const items = await screen.findAllByText(/Item #[0-9]: /)
  expect(items).toHaveLength(10)
})
```

## Queries

### Difference from DOM Testing Library

The queries returned from `render` in `React Testing Library` are the same as

**DOM Testing Library** except they have the first argument bound to the document, so instead of `getByText(node, 'text')` you do `getByText('text')`

See [Which query should I use?](#)

|                   | No Match | 1 Match | 1+ Match | Await? |
|-------------------|----------|---------|----------|--------|
| <b>getBy</b>      | throw    | return  | throw    | No     |
| <b>findBy</b>     | throw    | return  | throw    | Yes    |
| <b>queryBy</b>    | null     | return  | throw    | No     |
| <b>getAllBy</b>   | throw    | array   | array    | No     |
| <b>findAllBy</b>  | throw    | array   | array    | Yes    |
| <b>queryAllBy</b> | []       | array   | array    | No     |

- **ByLabelText** find by label or aria-label text content

- `getByLabelText`
- `queryByLabelText`
- `getAllByLabelText`
- `queryAllByLabelText`
- `findByLabelText`
- `findAllByLabelText`

- **ByPlaceholderText** find by input placeholder value

- `getByPlaceholderText`
- `queryByPlaceholderText`
- `getAllByPlaceholderText`
- `queryAllByPlaceholderText`
- `findByPlaceholderText`

- `findAllByPlaceholderText`
- **ByText** find by element text content
  - `getByText`
  - `queryByText`
  - `getAllByText`
  - `queryAllByText`
  - `findByText`
  - `findAllByText`
- **ByDisplayValue** find by form element current value
  - `getByDisplayValue`
  - `queryByDisplayValue`
  - `getAllByDisplayValue`
  - `queryAllByDisplayValue`
  - `findByDisplayValue`
  - `findAllByDisplayValue`
- **ByAltText** find by img alt attribute
  - `getByAltText`
  - `queryByAltText`
  - `getAllByAltText`
  - `queryAllByAltText`
  - `findByAltText`
  - `findAllByAltText`
- **ByTitle** find by title attribute or svg title tag
  - `getByTitle`
  - `queryByTitle`
  - `getAllByTitle`
  - `queryAllByTitle`
  - `findByTitle`

- `findAllByTitle`
- **ByRole** find by aria role
  - `getByRole`
  - `queryByRole`
  - `getAllByRole`
  - `queryAllByRole`
  - `findByRole`
  - `findAllByRole`
- **ByTestId** find by data-testid attribute
  - `getByTestId`
  - `queryByTestId`
  - `getAllByTestId`
  - `queryAllByTestId`
  - `findByTestId`
  - `findAllByTestId`

## Async

The [dom-testing-library Async API](#) is re-exported from React Testing Library.

- **waitFor** (Promise) retry the function within until it stops throwing or times out
- **waitForElementToBeRemoved** (Promise) retry the function until it no longer returns a DOM node

## Events

See [Events API](#)

- **fireEvent** trigger DOM event: `fireEvent(node, event)`
- **fireEvent.\*** helpers for default event types

- **click** `fireEvent.click(node)`
- [See all supported events](#)
- **act** wrapper around [react-dom/test-utils act](#); React Testing Library wraps render and fireEvent in a call to `act` already so most cases should not require using it manually

## Other

See [Querying Within Elements](#), [Config API](#), [Cleanup](#),

- **within** take a node and return an object with all the queries bound to the node (used to return the queries from `React Testing Library`'s render method):  
`within(node).getByText("hello")`
- **configure** change global options: `configure({testIdAttribute: 'my-data-test-id'})`
- **cleanup** clears the DOM (use with `afterEach` to reset DOM between tests)

## Text Match Options

Given the following HTML:

```
<div>Hello World</div>
```

**Will find the div:**

```
// Matching a string:
getByText('Hello World') // full string match
getByText('llo Worl', {exact: false}) // substring match
getByText('hello world', {exact: false}) // ignore case

// Matching a regex:
getByText(/World/) // substring match
getByText(/world/i) // substring match, ignore case
```

```
getByText(/^hello world$/i) // full string match, ignore case
getByText(/Hello W?oRlD/i) // advanced regex

// Matching with a custom function:
getByText((content, element) => content.startsWith('Hello'))
```

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Last updated on **Oct 22, 2021** by **Alex Jegtnes**