

Enzyme cheatsheet



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Introduction

Enzyme lets you write unit tests for React components. This guide covers Enzyme 3.x.

Enzyme website

(enzymejs.github.io)

Mounting

```
import {shallow, mount} from 'enzyme'
```

```
wrap = shallow(<MyComponent />)
```

```
wrap = mount(<MyComponent />)
```

Shallow wrapping doesn't descend down to sub-components. A full mount also mounts sub-components.

See: [Shallow rendering](#), [Full rendering](#)

Debugging

```
console.log(wrap.debug())
```

Shows HTML for debugging purposes.

See: [debug\(\)](#)

Examples

Basic example

```
import { shallow } from 'enzyme'
import MyComponent from '../MyComponent'

it('works', () => {
  const wrap = shallow(
    <MyComponent name='Groot' />
  )

  expect(wrap.text()).toEqual('I am Groot')
})
```

Props and state

Setting

```
wrap.setProps({ name: 'Moe' })
wrap.setState({ show: true })
```

Asserting

```
expect(wrap.prop('name')).toEqual('Moe')
expect(wrap.state('show')).toEqual(true)
```

```
expect('name' in wrap.props()).toEqual('Moe')
expect('show' in wrap.state()).toEqual(true)
```

Matching elements

```
expect(
  wrap.containsMatchingElement(
    <span>I am groot</span>
  )
).toBeTruthy()
```

`containsMatchingElement()` is probably the most useful assertion in Jest.

Snapshots

```
expect(wrap).toMatchSnapshot()
```

Be sure you've set up enzyme-to-json for snapshots (see [Installing](#) below).

Traversions

```
expect(
  wrap.find('button').text()
).toEqual('Submit')
```

Use `.find()` to traverse down to nodes. It will return wrapper objects, too.

Simulating events

```
wrap.find('input').simulate('click')
```

With event object props

```
wrap.find('input').simulate('change', {
  target: { value: 'hello' }
})
```

Installing

Initial setup

```
npm install --save-dev enzyme \
  enzyme-adapter-react-16 \
  react-test-renderer
```

test/setup.js

```
import Enzyme from 'enzyme'
import Adapter from 'enzyme-adapter-react-16'

Enzyme.configure({ adapter: new Adapter() })
```

package.json

```
"jest": {
  "setupFiles": [
    "test/setup.js"
  ]
}
```

This configures Enzyme for React v16, and Jest to automatically configure Enzyme for you. There are other adapters in Enzyme's installation instructions.

See: [Installation](#)

Jest snapshots

```
npm install --save-dev enzyme-to-json
```

package.json

```
"jest": {  
  "snapshotSerializers": [  
    "enzyme-to-json/serializer"  
  ]  
}
```

Test

```
it('works', () => {  
  wrap = mount(<MyComponent />)  
  expect(wrap).toMatchSnapshot()  
})
```

Optional, but recommended: This allows you to use Enzyme wrappers with Jest snapshots.

See: [enzyme-to-json](#)

ReactWrapper

Traversing

```
wrap.find('button')    // → ReactWrapper
wrap.filter('button')  // → ReactWrapper
wrap.not('span')        // → ReactWrapper (inverse of filter())
wrap.children()         // → ReactWrapper
wrap.parent()           // → ReactWrapper
wrap.closest('div')     // → ReactWrapper
wrap.childAt(0)         // → ReactWrapper
wrap.at(0)              // → ReactWrapper
wrap.first()            // → ReactWrapper
wrap.last()             // → ReactWrapper
```

```
wrap.get(0)            // → ReactElement
wrap.getElement()      // → ReactElement
wrap.getElements()     // → Array<ReactElement>
wrap.getDOMNode()      // → DOMComponent
```

See: [Full rendering API](#)

Actions

```
wrap.simulate('click')
```

React components

```
wrap.setState({ ... })
wrap.setProps({ ... })
wrap.setContext({ ... })
```

```
wrap.state()           // get full state
wrap.props()           // get full props
wrap.context()         // get full context
```

```
wrap.state('key')      // → any
wrap.prop('key')       // → any
wrap.context('key')    // → any
```

```
wrap.instance()        // → ReactComponent
```

Mount

```
wrap.mount()  
wrap.unmount()  
wrap.update()      // calls forceUpdate()
```

Tests

```
wrap.debug()          // → string  
wrap.html()           // → string  
wrap.text()           // → string  
wrap.type()           // → string | function  
wrap.name()           // → string  
wrap.is('.classname') // → boolean  
wrap.hasClass('class') // → boolean  
wrap.exists()         // → boolean  
wrap.contains(<div />) // → boolean  
wrap.contains([ <div /> ]) // → boolean  
wrap.some('.child')   // → boolean  
  
wrap.somewhere(n => n.hasClass('foo'))  
  
wrap.containsMatchingElement(<div />) // → boolean  
wrap.containsAllMatchingElements([ <div /> ]) // → boolean  
wrap.containsAnyMatchingElements([ <div /> ]) // → boolean
```

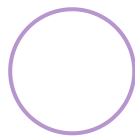
References

[Enzyme website](https://airbnb.io/enzyme/) (airbnb.io)

[Enzyme v2 cheatsheet](https://devhints.io/enzyme) (devhints.io) (old version)

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