

STUFF Y'ALL NEED

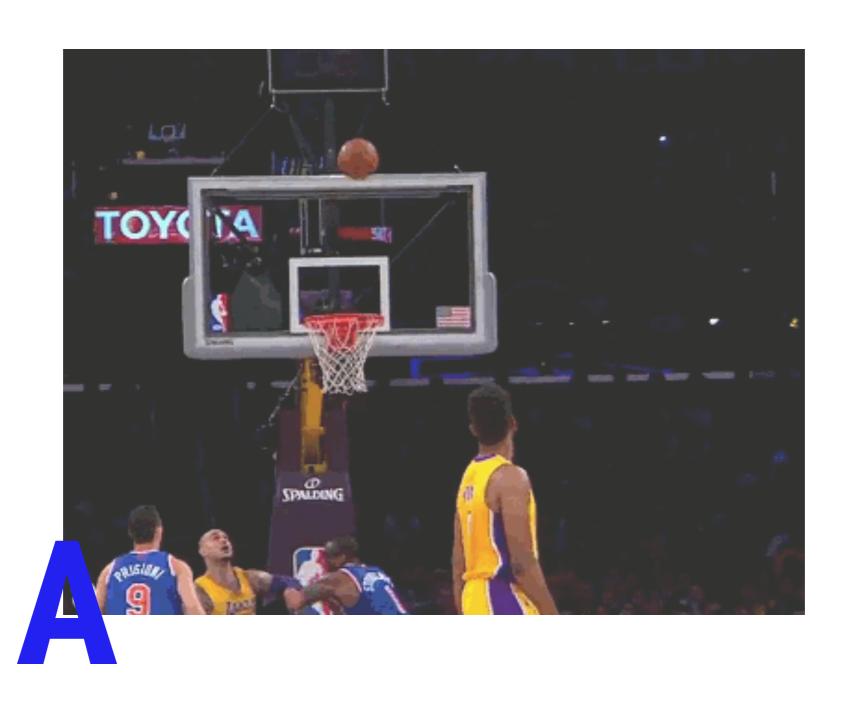
- NODE
- GIT
- JS AND REACT KNOWLEDGE
- CODESANDBOX ACCOUNT
- PATIENCE FOR TESTING AND MY HORRIBLE JOKES

CODESANBOX =

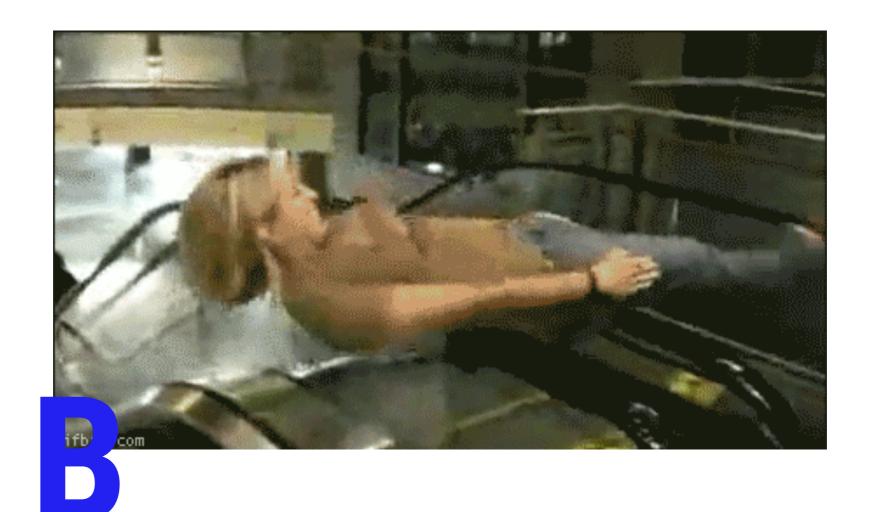
MATERIAL

GITHUB.COM/SARAVIEIRA/TESTING-REACT-WORKSHOP

BECAUSE NO ONE LIKES TO BE WRONG



TESTS ARE DOCUMENTATION



TESTS ALLOW REFACTOR



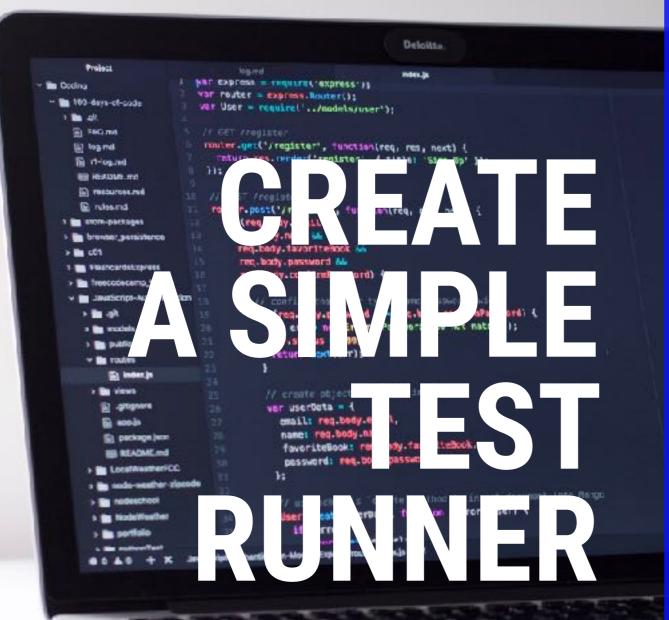




A UNIT TEST IS AN AUTOMATED PIECE OF CODE THAT TESTS A UNIT OF WORK IN ISOLATION.

A UNIT OF WORK IN OUR CASE IS MOSTLY A FUNCTION.

```
const sum = (a, b) \Rightarrow a + b
assert(sum(2, 2), 4);
```



HTTPS://JSBIN.COM/ KIJISAHASA

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CONSOLE.ASSERT()

WRITES AN ERROR MESSAGE TO THE CONSOLE IF THE ASSERTION IS FALSE. IF THE ASSERTION IS TRUE, NOTHING HAPPENS.

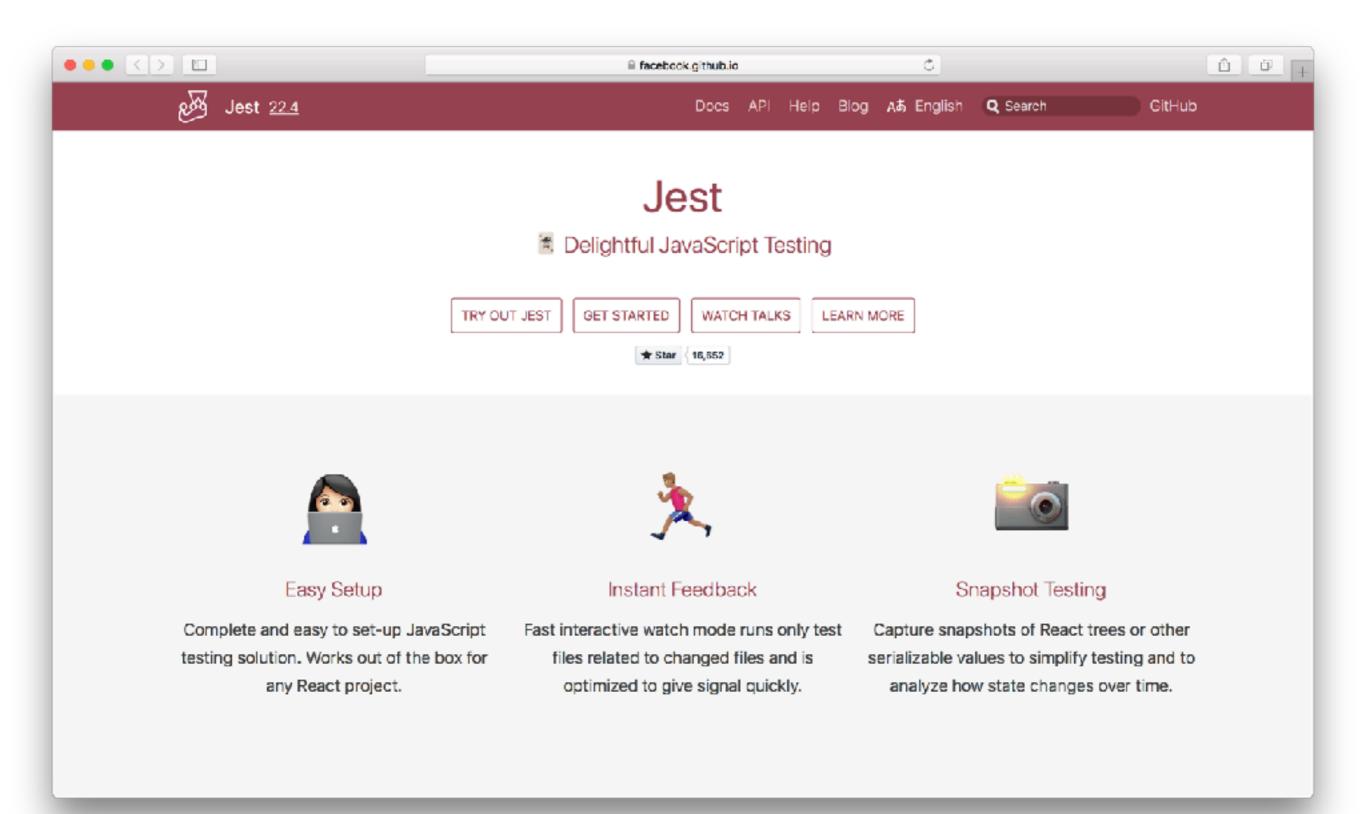


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yarn add jest —dev



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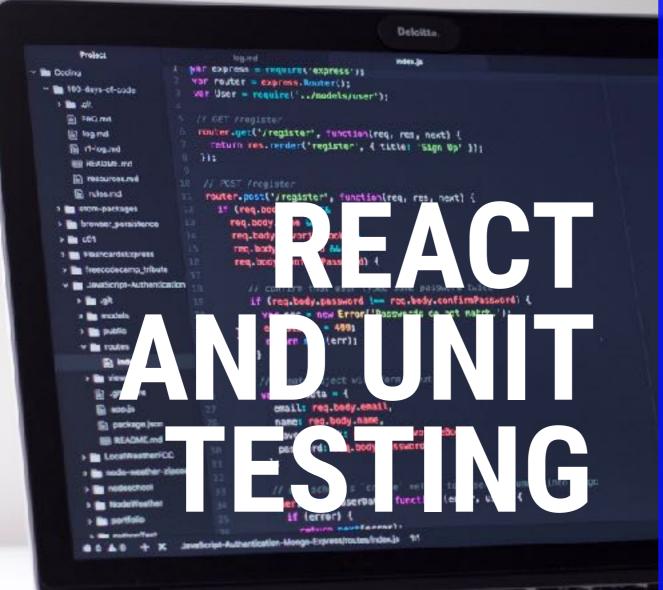
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LET'S TEST A SIMPLE SUM FUNCTION AND SEE HOW JUST BY CREATING SOME TESTS WE CAN CATCH A LOT OF BUGS

EXERCISE

Please fork before making changes

https://codesandbox.io/s/z3w1k7nx94



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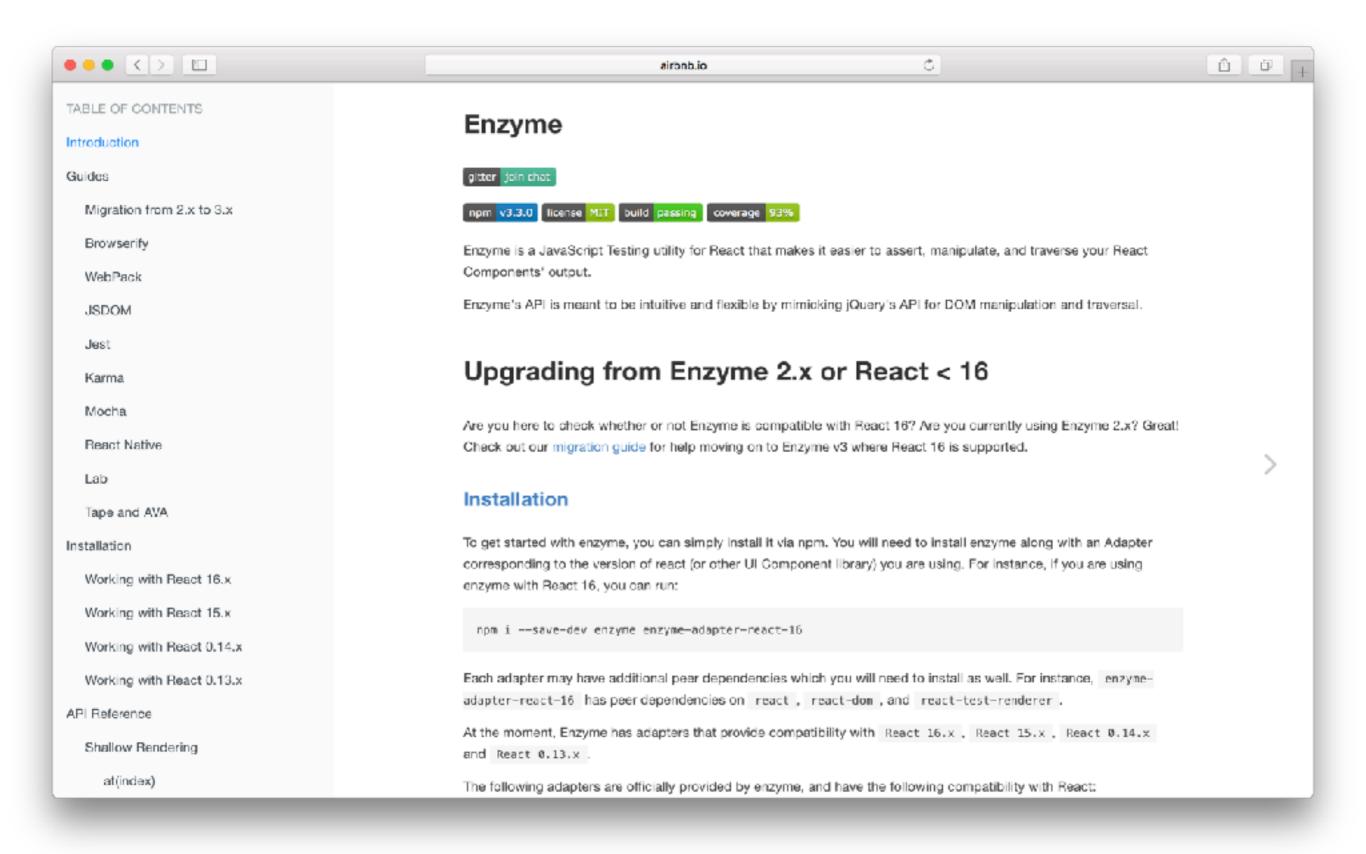
IN ANY JAVASCRIPT MODULE THE IDEA OF A UNIT TEST IS TO TEST A FUNCTION

IN REACT OUR FUNCTIONS ARE OUR COMPONENTS SO THE MECHANICS ARE A BIT DIFFERENT

WE NEED TO TEST FOR WHAT THE USER SEES ON THE PAGE



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ENZYME IS A JAVASCRIPT TESTING
UTILITY FOR REACT THAT MAKES IT EASIER
TO ASSERT, MANIPULATE, AND TRAVERSE
YOUR REACT COMPONENTS' OUTPUT.

ENZYME'S API IS MEANT TO BE INTUITIVE AND FLEXIBLE BY MIMICKING JQUERY'S API FOR DOM MANIPULATION AND TRAVERSAL.

yarn add enzyme enzyme-adapterreact-16 —dev



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```
"jest": {
    "setupTestFrameworkScriptFile":
"<rootDir>src/setupTests.js"
}
```

```
import Enzyme from "enzyme";
import Adapter from "enzyme-adapter-
react-16";

// React 16 Enzyme adapter
Enzyme.configure({ adapter: new Adapter() });
```





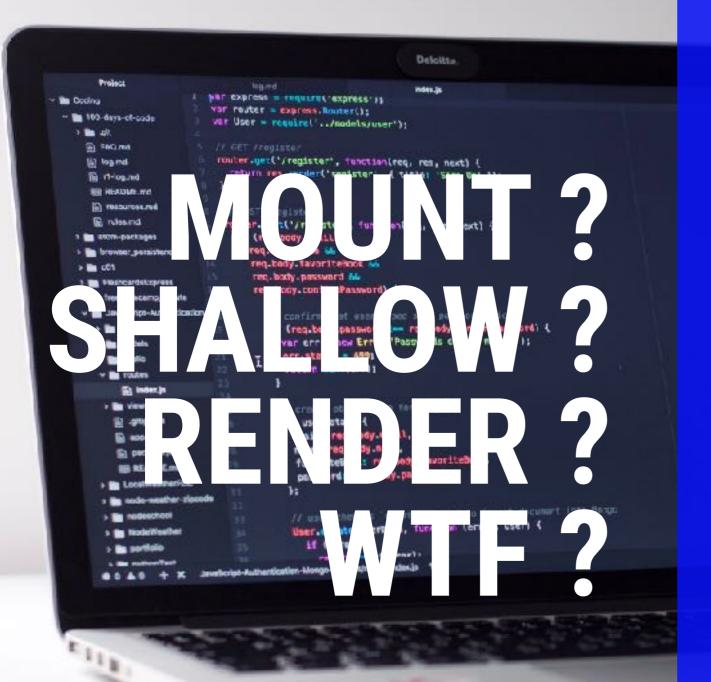
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EXERCISE

Please fork before making changes

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SHALLOW

SHALLOW RENDERS THE CURRENT NODE AND RETURNS A SHALLOW WRAPPER AROUND IT.

DOES NOT RENDER CHILDREN OF THE COMPONENT. USEFUL FOR A SINGLE COMPONENT

MOUNT

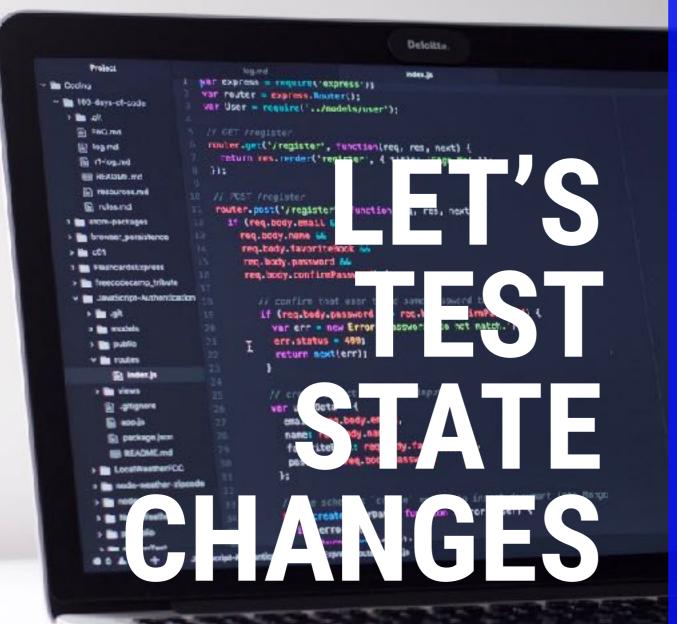
A METHOD THAT RE-MOUNTS THE COMPONENT. THIS CAN BE USED TO SIMULATE A COMPONENT GOING THROUGH AN UNMOUNT/MOUNT LIFECYCLE.

USEFUL FOR PROPS AS WE NEED TO RE RENDER THE COMPONENT AND ALSO RENDERS THE WHOLE TREE

RENDER

FUNCTION IS USED TO RENDER REACT COMPONENTS TO STATIC HTML AND ANALYZE THE RESULTING HTML STRUCTURE.

VERY USEFUL FOR SNAPSHOT TESTING



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EXERCISE

Please fork before making changes

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PLEASE CLONE

github.com/SaraVieira/testing-react-workshop

RUN

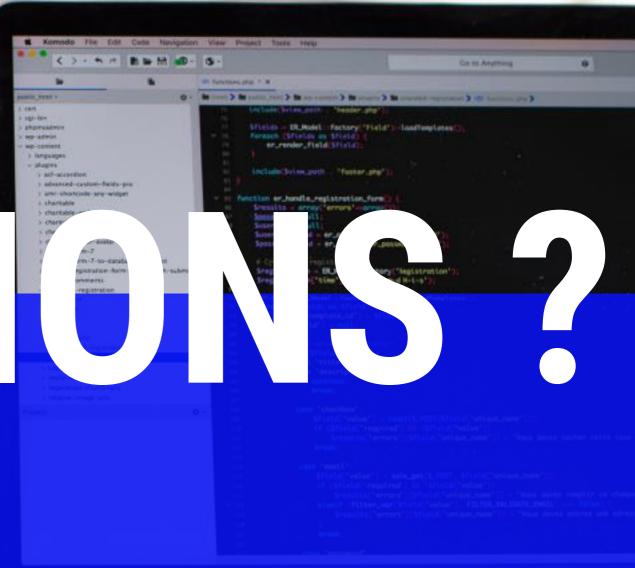
cd snapshots/start
npm install
npm run test —watch

```
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MacBook Pro

