



The Essential Testing Glossary

Learn to speaking testing fluently

Assertion

An assertion is a boolean expression written for evaluating the operation of a specific portion of your software. Think of it as a normal phrase you could say out loud to explain your intentions.

Code Coverage

A term that describes the how much of your application's code is executed when you run your tests.

Library

A library is a set of reusable functions. They are typically distributed via a package manager such as npm

Mock

A Mock is similar to a spy, but also has the ability to capture the parameters passed into the function and test the return value.

Monkey Patching

Dynamically replacing functions or object properties during testing to use data you specify.

Spy

A spy can track how many times a function is called.

Stub

A stub is a drop-in replacement for data or functionality in your app that returns a value you predefine.

Test Double

A test double is a generic term for the Stub / Spy / Mock combination

Testing Framework

A framework is a collection of libraries (testing-related, in this case).

JEST API METHODS

TEST A method that accepts a name and a function that contains one or more things you `expect` to be True

EXPECT Typically `expect` will be called with a function. After the passed in function is called, its return value will be checked against a matcher function.

If you want to do something before or after each of your tests run, use...

`beforeEach` `afterEach`

Similarly, you can use `beforeAll` and `afterAll` for all of the tests in the current file as a whole.

MATCHERS There are several types of matcher function that test the value of an expectation.

- 01 Numbers can be tested with `toBe` `toBeGreaterThan` `toBeLessThan` etc.
- 02 For Strings, use `toMatch` with a regular expression passed in
- 03 Truthiness values can be tested with `toBe` `toBeNull` `toBeTruthy` `toBeFalsy` etc.
- 04 Test for Array membership with `toContain`

DESCRIBE Used to create a group of tests that are related. These related groups make up "test suites".