An In-Depth Look at the Jest API



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Most Jest API methods relate to automatic mocking

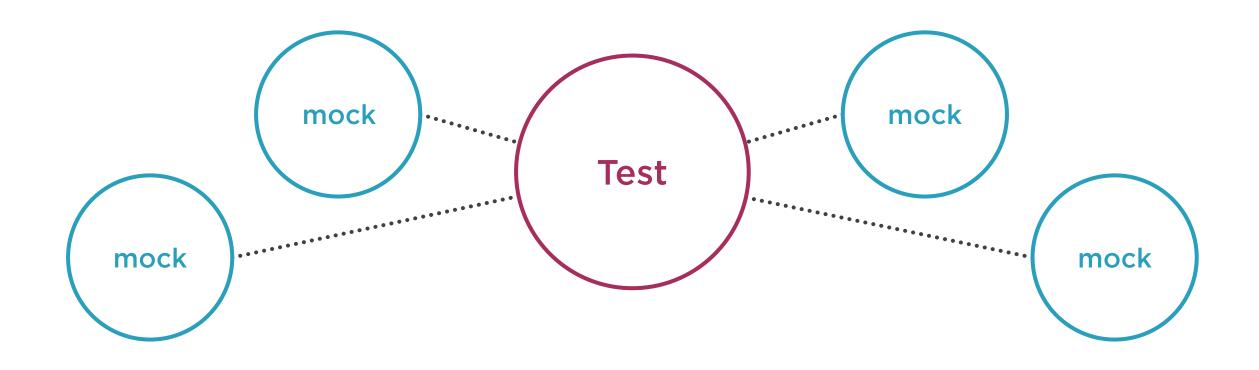
`dontMock` is a common and important method

Most test logic still uses Jasmine interface

Generally the Jest API allows users to create, modify and analyze mocks

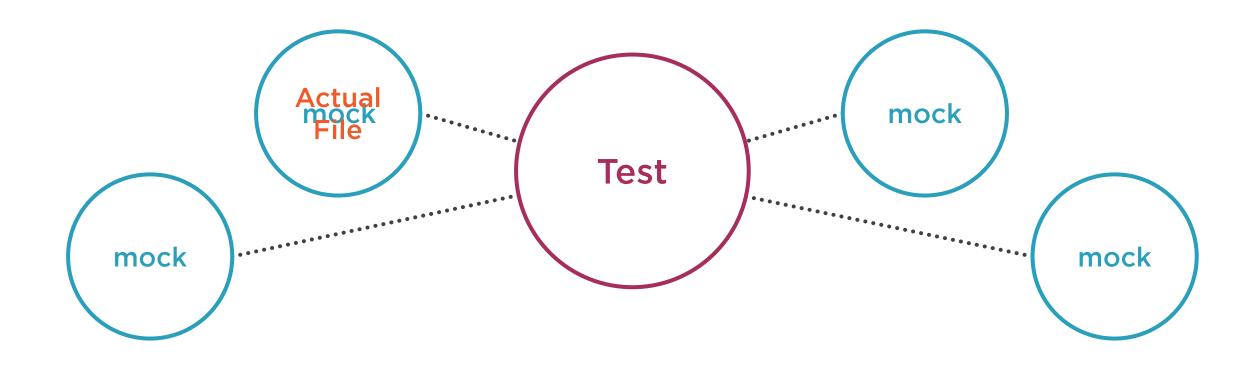


Disabling Mocking for A Single Module





Disabling Mocking for A Single Module





Libraries (i.e./ jQuery, Underscore) are usually not mocked

Generally, the libraries for which mocking is disabled are defined in 'package.json'

Try to avoid using 'dontMock' with libraries



Toggling Automatic Mocking

jest.autoMockOff()

jest.autoMockOn()

Disables automatic mocking

Enables automatic mocking (default, recommended)



Turning automatic mocking off is the same as calling 'dontMock' on every dependency



Useful for tests with large number of unmocked modules

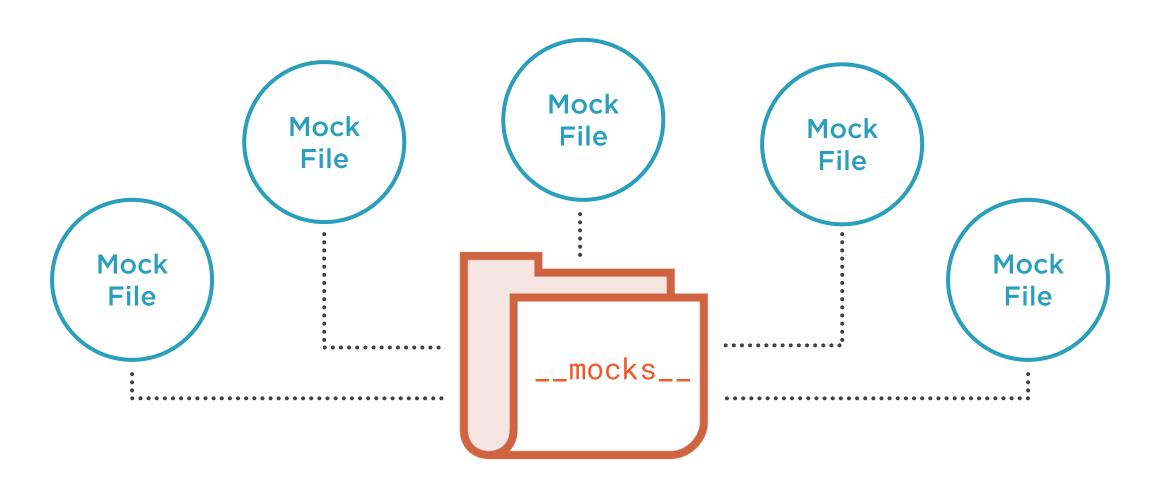
("implementation details")

```
`jest.mock()` is the reverse of
`jest.dontMock()`
```

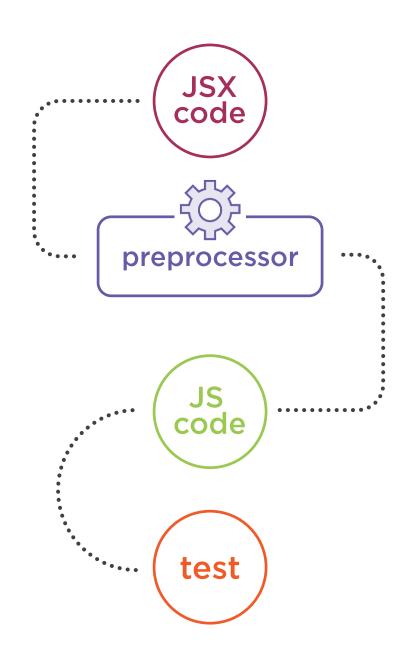
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Specifying Manual Mocks







Defining a Preprocessor

JSX is not natively supported by Node 4.0

Preprocessors transform JSX into JavaScript

Babel (an ES6/ES7/ESNext preprocessor)
also processes JSX



"[Jest is] built on top of the Jasmine test framework, using familiar expect(value).toBe(other) assertions"

Jest Homepage





```
Standard Jasmine helpers (`beforeEach`, `afterEach`, etc.) are available

'describe()` defines a group of tests

'it()` defines a single test

Any failing assertions (`expect`, `assert`)
will cause a test to fail
```

Tests will also fail if an error any error is thrown

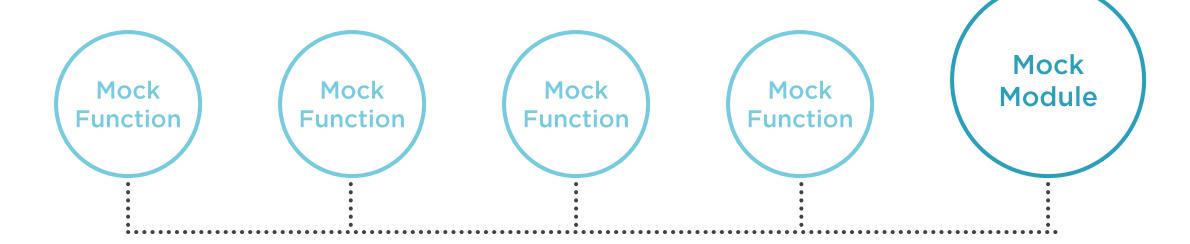


Mock Functions

Mock functions add functionality to mock modules

Mocked versions of modules don't have methods

Calling a non-existent function always results in error





Capabilities of Mocks

Functions can return pre-determined values

Can verify how many times function has been called; with what arguments

Can track objects instantiated from a mock with the `new` keyword

Information contained within the 'mock' property of Jest mocks

Jest Jasmine has custom matchers,
used with mock property ->
`toBeCalled`, `toBeCalledWith`

