

JS Test Frameworks

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Ji Zhou

Jasmine VS Mocha

API

```
describe('test functionX()', function() {  
  it('should ...', function(){  
    // assertions here  
  })  
})
```

Jasmine: `expect().toEqual()`

Chai: `expect().to.equal()`

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Assertion Libraries

- `should.js`
- `express.js`
- `chai`
- `better-assert`
- `unexpected`

Test Doubles

- Test stub
- Mock object
- Test spy (Jasmine)
- Fake object
- Dummy object

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Things to spy on:

- See how many times a spy was called
- Specify a return value to force your code to go down a certain path
- Tell a spy to throw an error
- See what arguments a spy was called with
- Tell a spy to call the original function (the function it is spying on). By default, a spy will not call the original function.

Asynchronous Testing

```
describe('test functionX()', function(done) {  
  it('should ...', function(){  
    // assertions here  
    var foo = new Foo(128);  
    foo.bar(done);  
  })  
})
```

Fake Server

Jasmine

Fake Server

Jasi



Fake Server

Jasni



Mocha



Sinon

Running Tests

Mocha: command line utility

Jasmine: no inbuilt test runner (Karma is a popular runner)