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
➔ Fake object
➔ Dummy object
➔ Test spy (Jasmine)

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Things to spy on:

- See how many times a spy was called
- Specify a return value to force 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

Jas~~mine~~

Fake Server

Jasmine

Mocha + Sinon

Running Tests

Mocha: command line utility

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