What's Next?

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The Big Picture

Spy

A function that **observes** a specified function

Check That Spy Was Called

```
const mySpy = sinon.spy();

alert("I'm watching a Sinon course on Pluralsight", mySpy);



expect(mySpy.called).to.be.true;
```

Stub

Test stubs are functions (spies) with pre-programmed behavior.

Why Stub?

Control Flow

Prevent Undesirable Behavior

Mock

Mocks are fake methods (like spies) with pre-programmed behavior (like stubs) as well as pre-programmed expectations.

A mock will fail your test if it is not used as expected.

Additional Expectation

```
const mockModel = sinon.mock(model);

mockModel.expects('findById').once().withArgs(1);

mockModel.expects('findById').once().withArgs(2);
```

Regex Matcher

```javascript
const stub = sinon.stub();

stub.withArgs(sinon.match(/[abc](1|9)/)).returns(true);
```

```
var arrayContainsObjectMatch = expectation =>

    sinon.match.some(sinon.match(expectation));
```

Custom Matcher Function

Responding to a Request

```
request.respond(200, {'Content-Type': 'application/json'},
'{title: "Don\'t Waste Your Life"}');


request.setStatus(200);

request.setResponseHeaders({'Content-Type':
'application/json'});

request.setResponseBody('{title: "Don\'t Waste Your
Life"}');


request.respond();
```

Creating a Fake Timer

```
const timer = sinon.useFakeTimers();

console.log(new Date()); //1970-01-01T00:00:00.000Z
```

Sinon covers your testing needs

Additional Libraries

sinon-chai

sinon-chai

```
return expect(model.create.called).to.be.true;


return expect(model.create).to.have.been.called;
```

sinon-chai Calls

calledWith

returned

throw

sinon-called-with-diff

Testing Arguments

```
concat('Charles', 'Spurgeon');

concat('Charles', 'Wesley');


expect(concat.args[0][1]).to.equal('Spurgeon');
```

sinon-called-with-diff

```
return myStub.calledWith('test');


actual: [

    "hello"

]

expected: [

    "test"

]
```

Additional Utilities

sinon-fluent
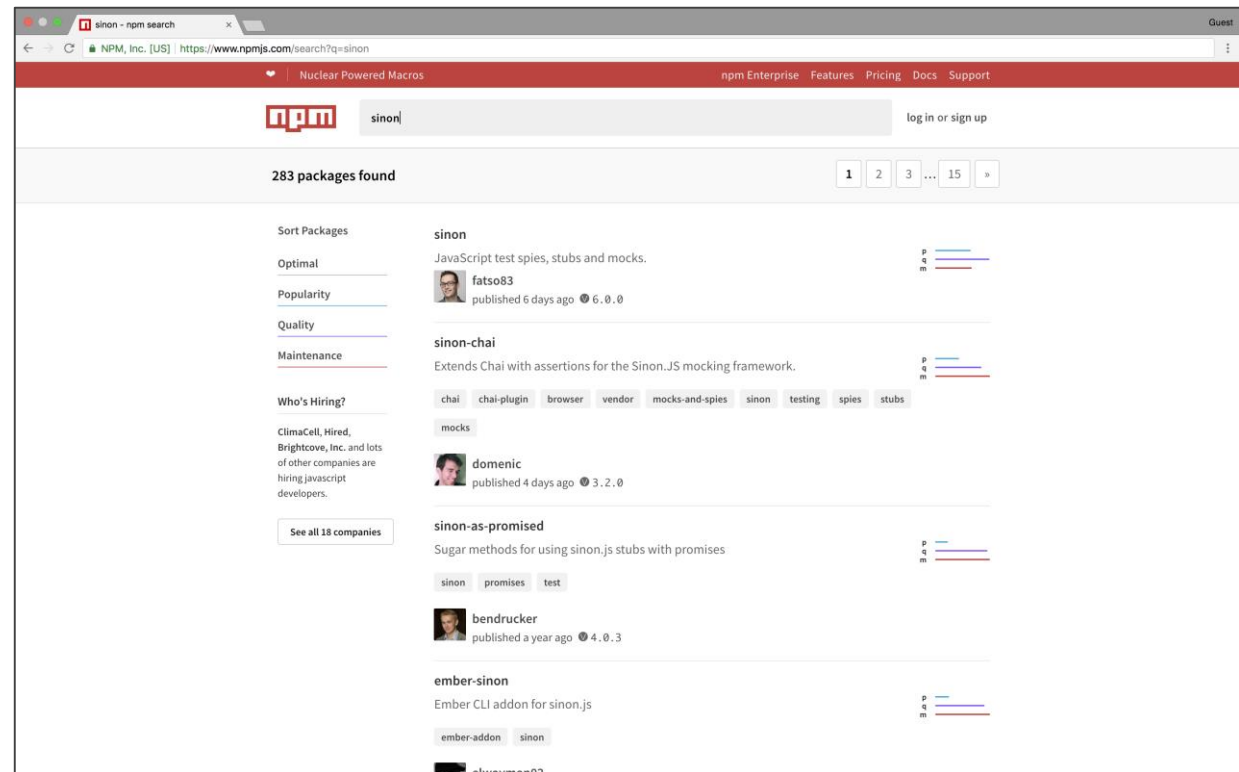
sinon-typed

Targeted Libraries

sinon-mongoose

sinon-express-mock

sinon-chrome

mock-aws-sdk-js

Search on npmjs.org

Final Thoughts

Check the docs

Check the source

Thank you

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