# Nodejs Unit Tests

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#### FrameWorks

- Mocha
  - Chai
  - should
  - Expect
- QUNIT
- Jasmine
- Karma

#### Mocha

- Test Framework
- Asynchron
- Simple
- Spaßig

### Optionen

- --recursive
- --ui bdd
- --bail
- --reporter spec
- --timeout 75
- --slow
- --exit

### Reporter

- SPEC
- DOT Matrix
- TAP
- LIST
- PROGRESS
- JSON
- MIN
- LANDING
- NYAN

#### Chai Assert

- assert.exists(foo, 'foo ist `null` oder `undefined`');
- assert.isArray({'Werte'], 'Array muss übergeben werden');
- Assert.isString('Test', 'Test söllte ein String sein');

#### Chai Should

- should.exists('foo');
- ['Werte'].should.be.an('array');
- 'Test'.should.be.a('string');

#### Chai Expect

- Expect('foo', 'foo ist `null` oder `undefined`').to.exists();
- Expect(('Werte'), 'Array muss übergeben werden').to.be.an('array');
- Expect('Test', 'Test söllte ein String sein').to.be.a('string');

#### Testcase

```
it(,0 should be an int', function(done){
    expect(0).to.be.an(,int');
});
```

#### Parametrisierte Testcase

```
[0,1,2,3,4,5,6,7,8,9].foreach(function(zahl){
    it(zahl + ,should be an int', function(done){
        expect(zahl).to.be.an(,int');
    });
});
```

#### Testsuite

```
describe(,Mathematischen Tests', function(){
    it(,5+5 should be equal to 10', function(){
        expect(5+5).to.equal(10);
    });
    if(,5*5 should be equal to 25', function(){
        expect(5*5).to.equal(25);
    });
});
```

#### Testsuite Wahn

```
describe(,Datenbanken', function(){
    describe(,verbindung',function(){
        describe(,mysql',function(){
            describe(,localhost',function(){
                 // testcases
            });
        });
    });
});
```

# Spaß Reporter: nyan

Quelle: https://mochajs.org/

# Spaß: Reporter landing

```
000
                                    mocha — bash
   λ mocha (master): make test
  0) Array #indexOf() should return -1 when the value is not present: AssertionError: expe
  at Object.equal (/Users/tj/projects/mocha/node_modules/should/lib/should.js:306:10)
      at Test.fn (/Users/tj/projects/mocha/test/interfaces/bdd.js:6:33)
      at Test.run (/Users/tj/projects/mocha/lib/test.js:80:29)
      at Array.0 (/Users/tj/projects/mocha/lib/runner.js:187:12)
make: *** [test-unit] Error 1
   λ mocha (master): 🗌
```

Quelle: https://mochajs.org/

## Quellen

- https://mochajs.org/
- http://chaijs.com/