

Unit Testing

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AAA process

A - Arrange

A - Act

A - Assert

how to do unit testing ?

Unit Testing F.W

javascript script programming

1. jasmine
2. mocha
3. Jest (our focus)
4. Ava

```
yarn add --dev jest
```

sum.js

```
function sum(a, b) {  
  return a + b;  
}  
module.exports = sum;
```

sum.spec.js


```
const sum = require('./sum');  
  
test('adds 1 + 2 to equal 3', () => {  
  expect(sum(1, 2)).toBe(3);  
});
```

package.json

```
{  
  "scripts": {  
    "test": "jest"  
  }  
}
```

Using Matchers · Jest

Jest uses "matchers" to let you test values in different ways. This document will introduce some commonly used matchers. For the full list, see the expect API doc. The simplest way to

 <https://jestjs.io/docs/en/using-matchers>



Testing Asynchronous Code

```
test('the data is peanut butter', done => {
  function callback(data) {
    try {
      expect(data).toBe('peanut butter');
      done();
    } catch (error) {
      done(error);
    }
  }

  fetchData(callback);
});
```

Mock Functions · Jest

Mock functions allow you to test the links between code by erasing the actual implementation of a function, capturing calls to the function (and the parameters passed in those

 <https://jestjs.io/docs/en/mock-functions>

