# Testing JavaScript for Node.js with Mocha

## TESTING YOUR JAVASCRIPT

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# Topics in This Course

Mocha

Chai for asserts

Sinon for mocking

Then we do it all together

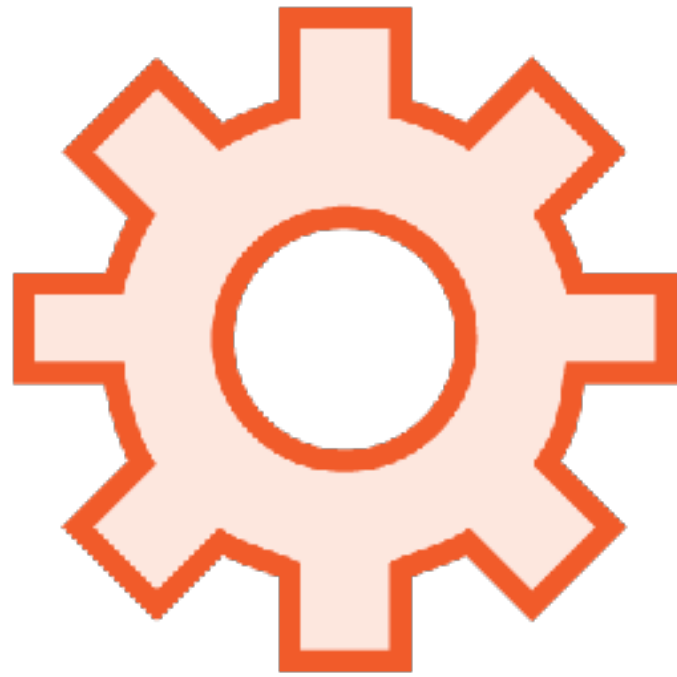Not everything is easy

Istanbul for code coverage

**Lets Learn Some Definitions!**

**Unit vs Integration vs Functional**

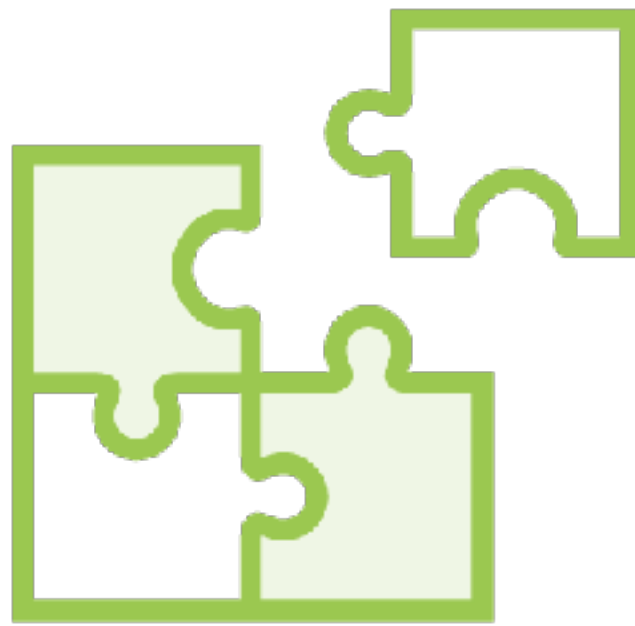**Node changes fast!**

**Lets deal with that!**

As things change,

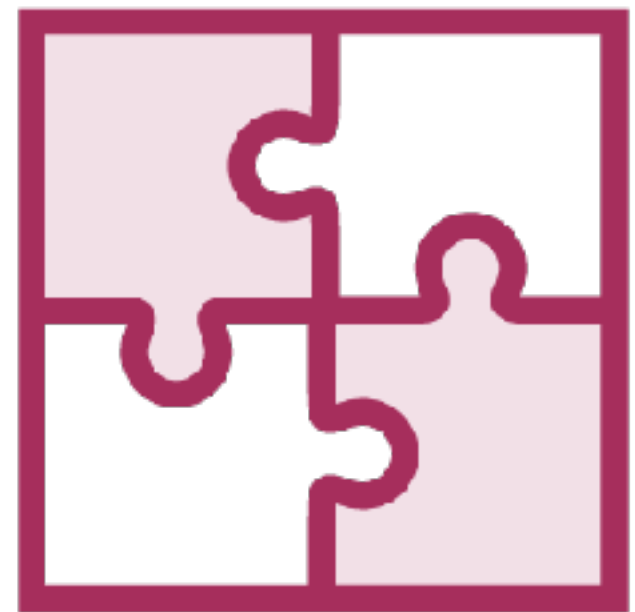I will help you understand how to adjust!

# Types of Testing

**Unit Tests**

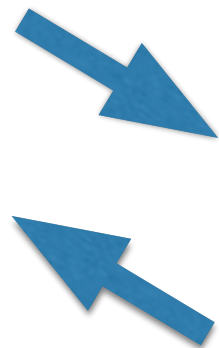**Integration Tests**

**Functional Tests**

**Find the smallest available piece**

**Test just that**

**Mock everything else**

# Testing a Function

```
['admin', 'user'], 'admin'
```

```javascript
function isAuthorized(neededRole){
    return roles.indexOf(neededRole) >= 0;
}
```
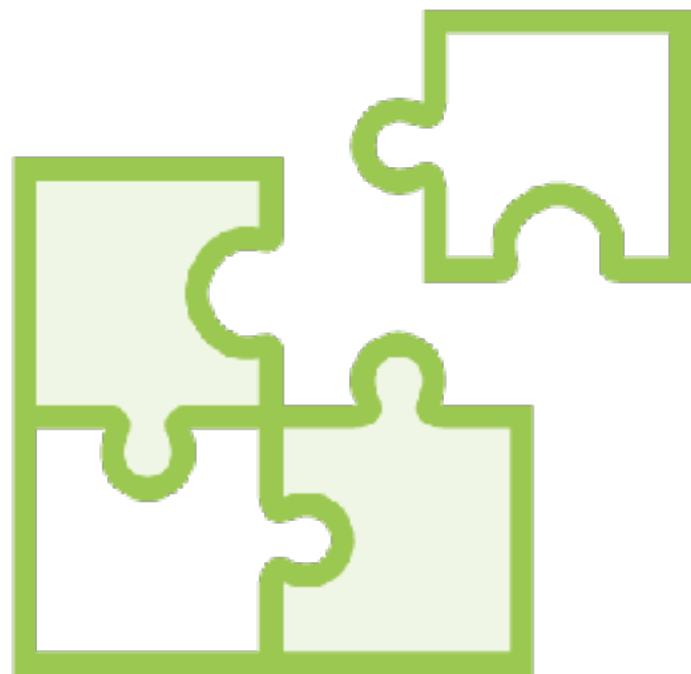
# Testing a Function
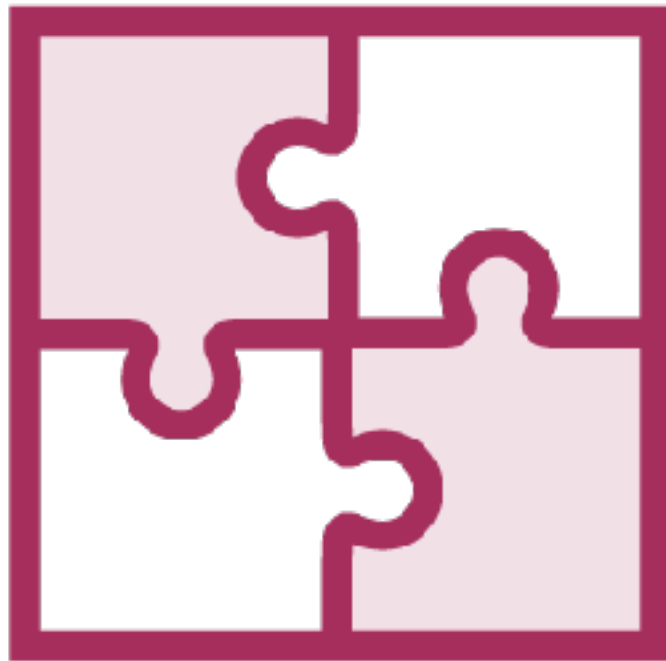
```
['admin', 'user'], 'admin'
```



```
function isAuthorized(neededRole){
    return roles.indexOf(neededRole) >= 0;
}
```
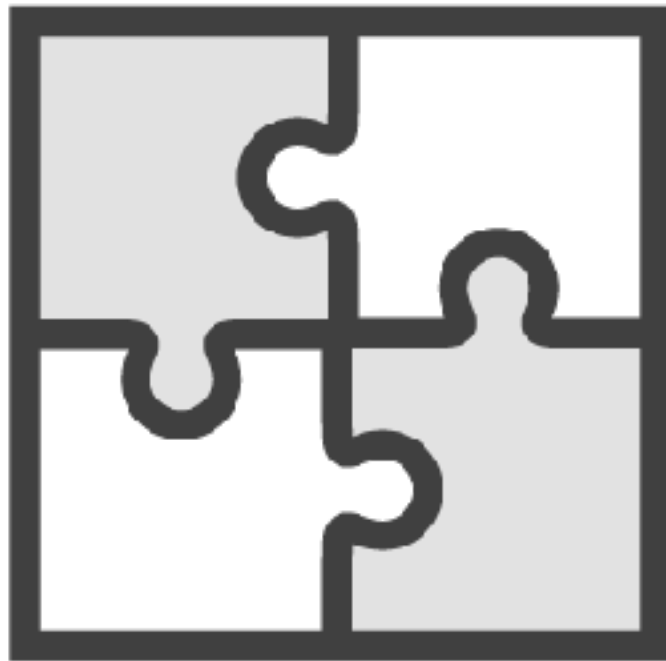
Lets tie some things together

Test their interactions

Mock the outside resources

All together now

Start on the outside, end on the outside
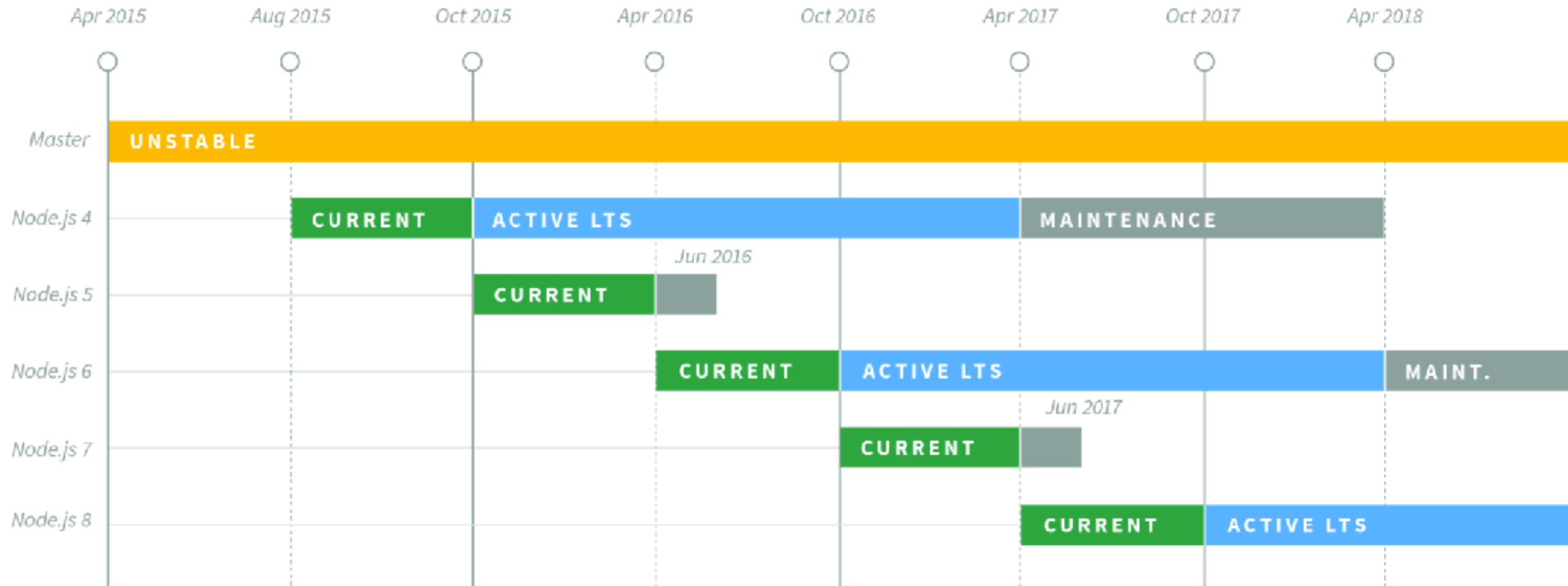
All together now

Start on the outside, end on the outside

Black box testing

Make sure everything fits together

# Dealing with Node Versions

Node.js Long Term Support (LTS) Release Schedule

# Nvm to the Rescue

# What if Something Changes?

Unit vs Integration vs Functional

NVM

GitHub http://bit.ly/JonsMochaCourse