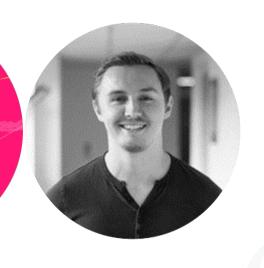
# Measuring Code Coverage





**QA Automation Lead** 

@gmcneilly software-tester.io



### **Code Coverage**



A measure of how much source code is executed by tests



A good indicator of a project's quality but it is not perfect



Babel is used by Jest, by default, to facilitate measuring code coverage

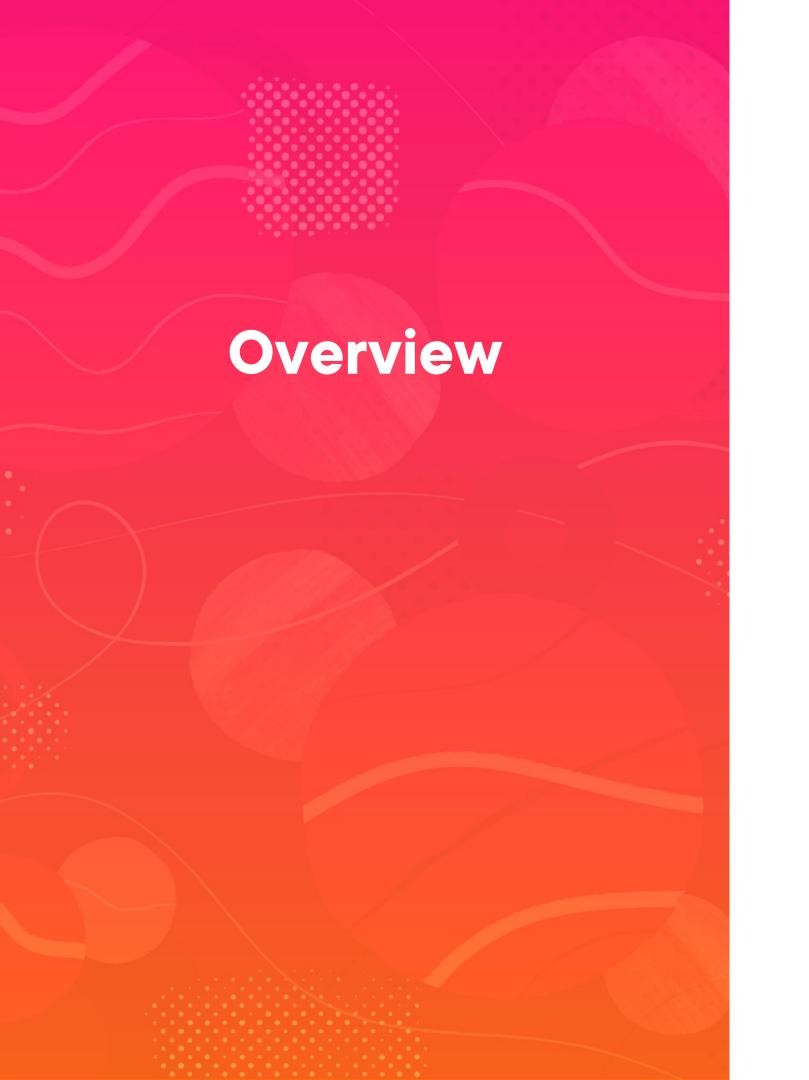


4 metrics: statements, branches, functions, and lines



#### DiscountService.js

```
function calculatePrice(isSaleItem) {
   let price = 1.00;
   if (isSaleItem) {
     console.log('Apply sale discount')
     price = price * 0.5;
    else {
      console.log('Full price item')
    return price;
```



Collect code coverage statistics

Visualize code coverage

Configure coverage thresholds



## Module Key Takeaways

#### Code coverage

- Amount of source code executed by tests
- Different ways to be measured

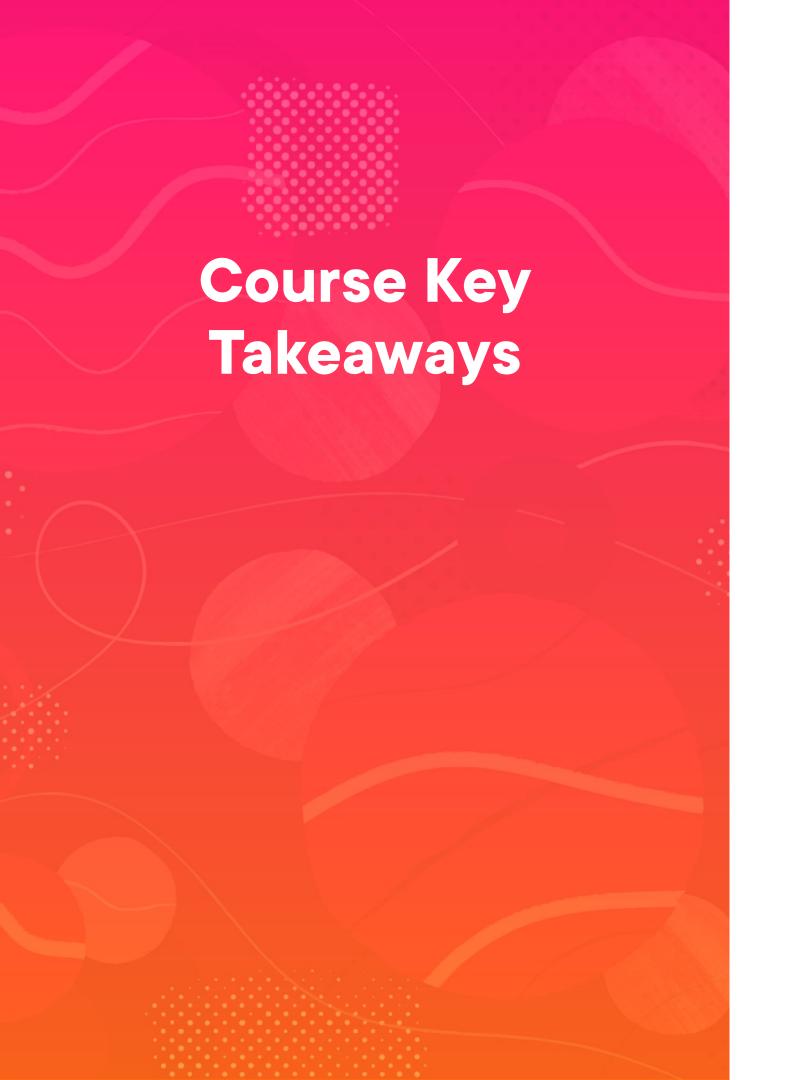
#### Code coverage with Jest

- Multiple ways to visualise results

#### Coverage thresholds

Used to ensure a minimum level of code coverage is maintained





Importance of unit tests

Writing basic unit tests with Jest

**Common matchers** 

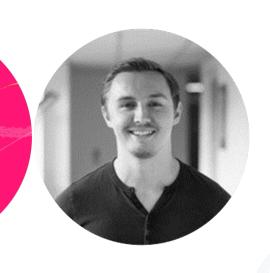
Mocks & spies

**Asynchronous tests** 

Code coverage



# JavaScript Unit Testing with Jest



**Gabriel McNeilly** 

**QA Automation Lead** 

@gmcneilly software-tester.io

