

~/Documents/CS/Code_Coverage_Example on main) npm install --save-dev jest

-) npm test -- --coverage
- > code_coverage_example@1.0.0 test
- > jest --coverage

PASS ./merge.test.js

- Merge sort with a empty list (1 ms)
- Merge sort with a list of a single element
- Merge sort with a list of two elements (1 ms)
- Merge sort with a list of sorted elements
- Merge sort with a list of where the first half is sorted
- Merge sort with a list of where the second half is sorted (1 ms)
- Merge sort where all elements are unsorted

File	 % Stmts	 % Branch	 % Funcs	 % Lines	 Uncovered Line #s
All files	93.75	87.5	100	93.75	
merge.js	93.75	87.5	100	93.75	7

Test Suites: 1 passed, 1 total
Tests: 7 passed, 7 total

Snapshots: 0 total

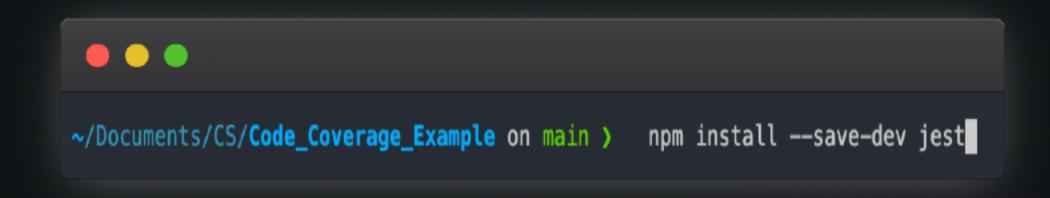
Time: 0.129 s, estimated 1 s

Ran all test suites.

~/Documents/CS/Code_Coverage_Example > [

```
"name": "code_coverage_example",
 "version": "1.0.0",
 "description": "Example Code Example using Jest Code Coverage",
 "license": "ISC",
 "author": "Brian Kwong",
 "type": "commonjs",
 "main": "merge.js",
  Debug
 "scripts": {
"test": "jest" You, 52 minutes ago • Initial commit
 "devDependencies": {
   "jest": "^29.7.0"
```

Adding and Running the Code Coverage Module



- Install Jest as a development-only dependency through npm
- Update your package.json with a test script pointing to Jest
- Run npm test —coverage to generate code coverage for your Jest unit tests

```
) npm test -- --coverage
> code_coverage_example@1.0.0 test
> jest --coverage
 PASS /merge.test.js
  ✓ Merge sort with a empty list (1 ms)
  ✓ Merge sort with a list of a single element
  ✓ Merge sort with a list of two elements (1 ms)
  Merge sort with a list of where the first half is sorted
  ✓ Merge sort with a list of where the second half is sorted (1 ms)
  ✓ Merge sort where all elements are unsorted
File
            % Stmts | % Branch |
                                % Funcs | % Lines |
                                                    Uncovered Line #s
                                            93.75
                                            93.75
Test Suites: 1 passed, 1 total
             7 passed, 7 total
            0.129 s, estimated 1 s
Ran all test suites.
~/Documents/CS/Code_Coverage_Example > [
```

ointing to Jest

Run npm test — —coverage to generate code

coverage for your Jest unit tests

```
Test Suites: 1 passed, 1 total
Tests: 7 passed, 7 total
Snapshots: 0 total
Time: 0.129 s, estimated 1 s
Ran all test suites.
```