



```
~/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

```
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```

```
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  "version": "1.0.0",
  "description": "Example Code Example using Jest Code Coverage",
  "license": "ISC",
  "author": "Brian Kwong",
  "type": "commonjs",
  "main": "merge.js",
  "scripts": {
    "test": "jest"
  },
  "devDependencies": {
    "jest": "^29.7.0"
  }
}
```

You, 52 minutes ago • Initial commit

- 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 sorted elements
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  ✓ 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
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