



# JEST Test Runner

- Benefits:
  - Easy to setup, VERY fast
    - `npm install jest-preset-angular`
    - VERY nice output :)
  - Snapshot testing - lets you automate creating assertions.
    - writes out a good snapshot to GIT
    - `expect(state).toMatchSnapshot()`.
- Cons:
  - Trust, but verify snapshots.
  - No way to log that the snapshots were verified
  - VSCode plugin snapshottools

## Jasmine Marbles

- Visual testing for observables
- “-” equals 10sec of time, “a” = emit, “|” complete, “#” is an error.
- ex: — — — = observable.never
- ex: —(ab)—| = 30ms, emit a&b, 20ms, complete.
- flush() = runs the sequence. → always flush at the end of the test.
- Setup: jasmine-marbles

## Angular Testing Library

- Create component fixtures quickly
- Magically mock out dependencies
- TestBed.configureTestingModule({imports: [ NoopAnimationsModule ← disables animations ], ...}) createComponentFixture ← similar to the test bed.
  - Rather than inject, use TestBed.get() - I’m doing this today.
- Examples: NgRx Sample Book App in GitHub

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