







# 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).toMatchShapshot()`.
- Cons:
  - Trust, but verify snapshots.
  - No way to log that the snapshots were verified
  - VSCode plugin snapshottools

# TESTING!

## Best Practices

- Testing isolated small pieces of code - Most should be unit tests
- Async tests - Promise (microtask), Timer, XHR (HttpClient)
  - Tests can complete too early. Use “done();”
- Async await
  - done(); can't handle errors. Use **async await**.
  - You get an opportunity to write an asynchronous code in synchronous fashion.
- fakeAsync
  - looks async but is synchronous
  - tick() simulates the asynchronous passage of time.

## Future

- AOT Test - use aot mode in unit test, much faster.