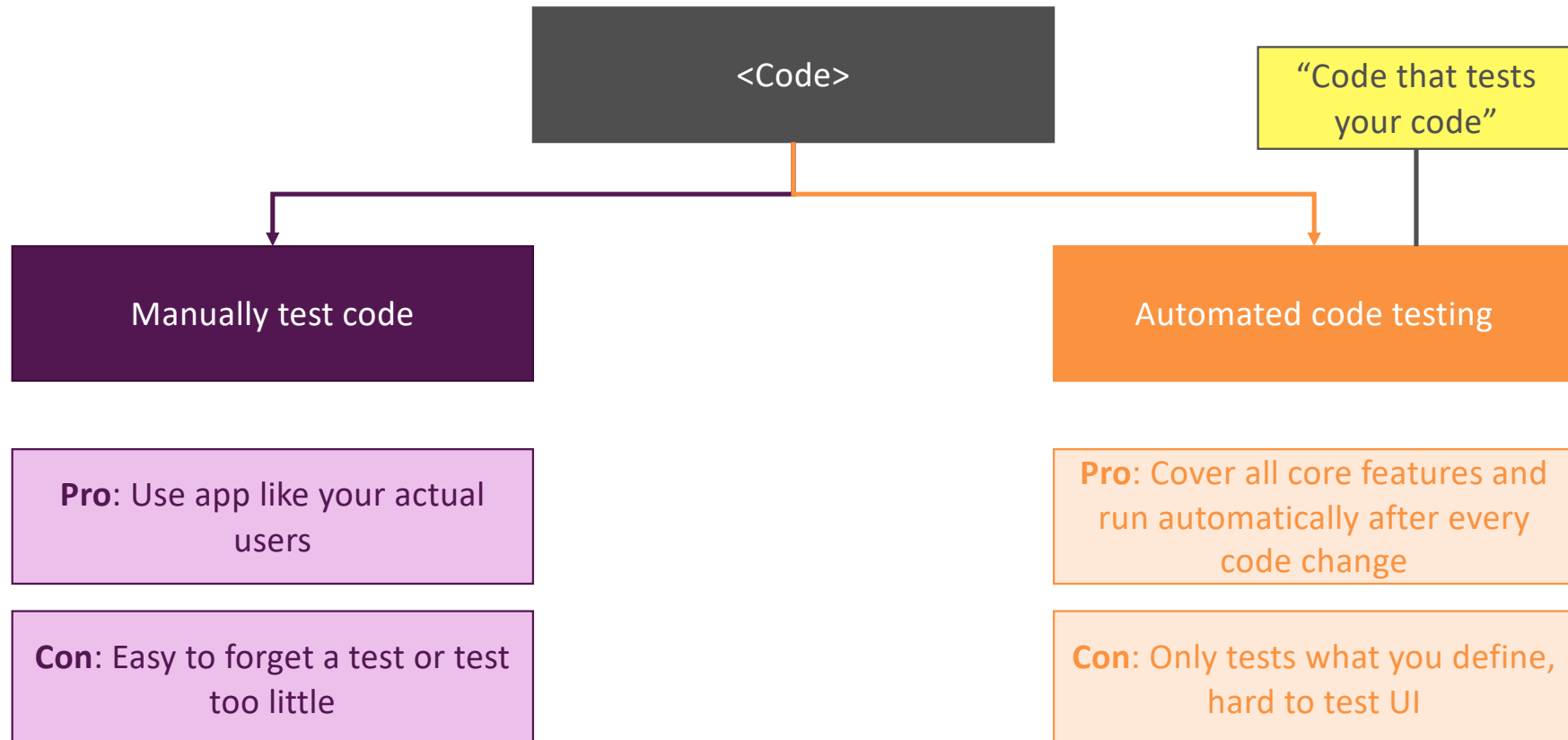


Testing

Automated Code Tests

What is “Testing”?



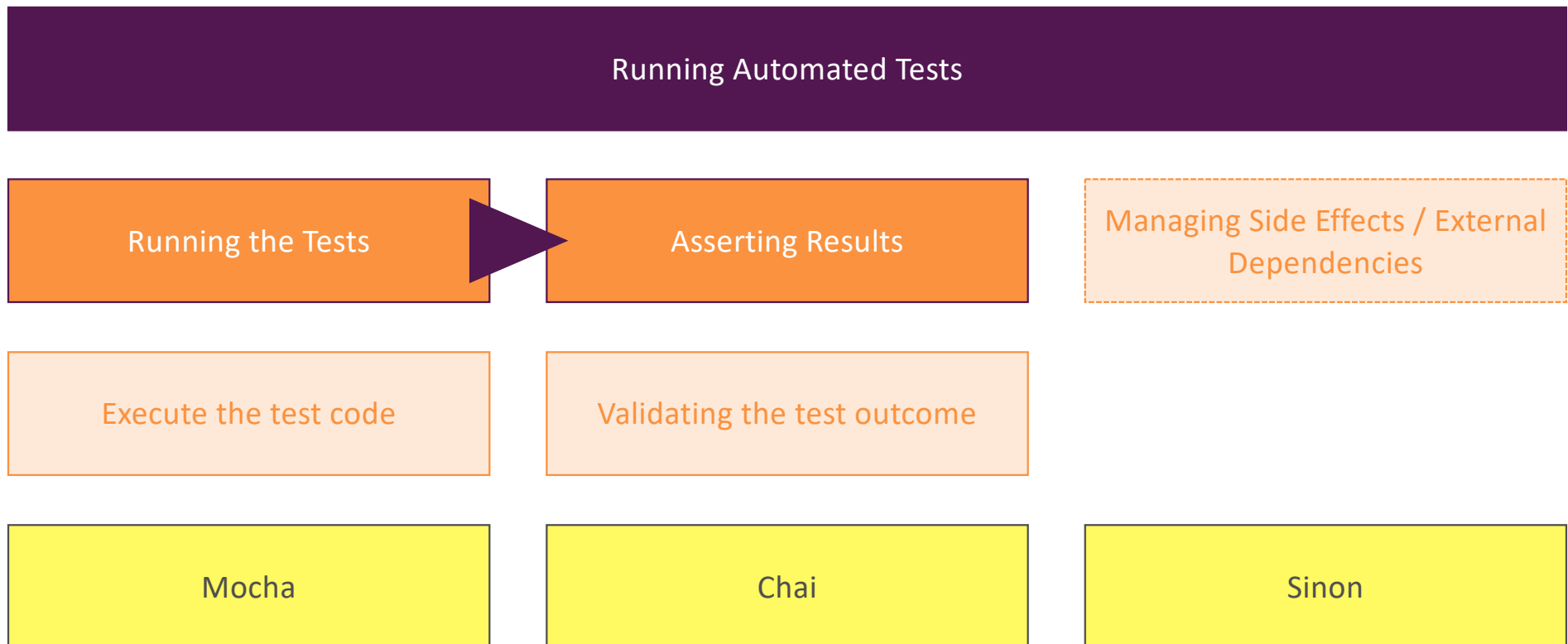
Why “Testing”?

Automatically test everything*
after every code adjustment

Easily detect breaking changes
(even in the places you didn't
expect)

Ensure predictable and clearly
defined testing steps

Testing Tools & Setup



Testing the Hard Stuff

Asynchronous Code

Side Effects (File access, database access)

Third-Party Code

Test code could finish too early
(before async code is done)

Real data is written

Tested code can become too
complex with too many
dependencies

Example: Hash password

Example: Write to file or
database

Example: JWT verification needs
a real valid token

Testing libraries provide simple
syntax to avoid early completion

Testing database and/ or stubs,
mocks

Stubs, mocks

What Should You Test?

Test your code!

Try to cover important features and possible error sources

Not external packages/ modules!

It's the job of the library authors to test it

Don't test too much at once!

Split your functions to write more concise tests