Testing

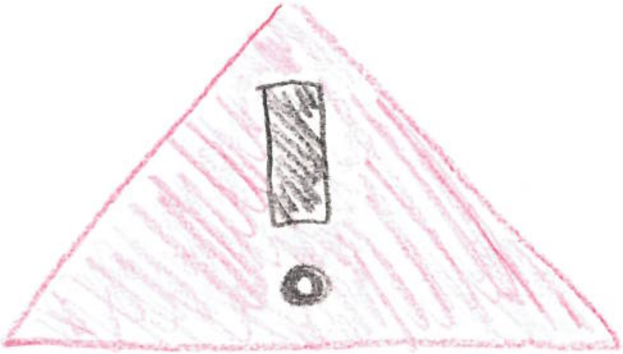
@

tink

Jens Rantil

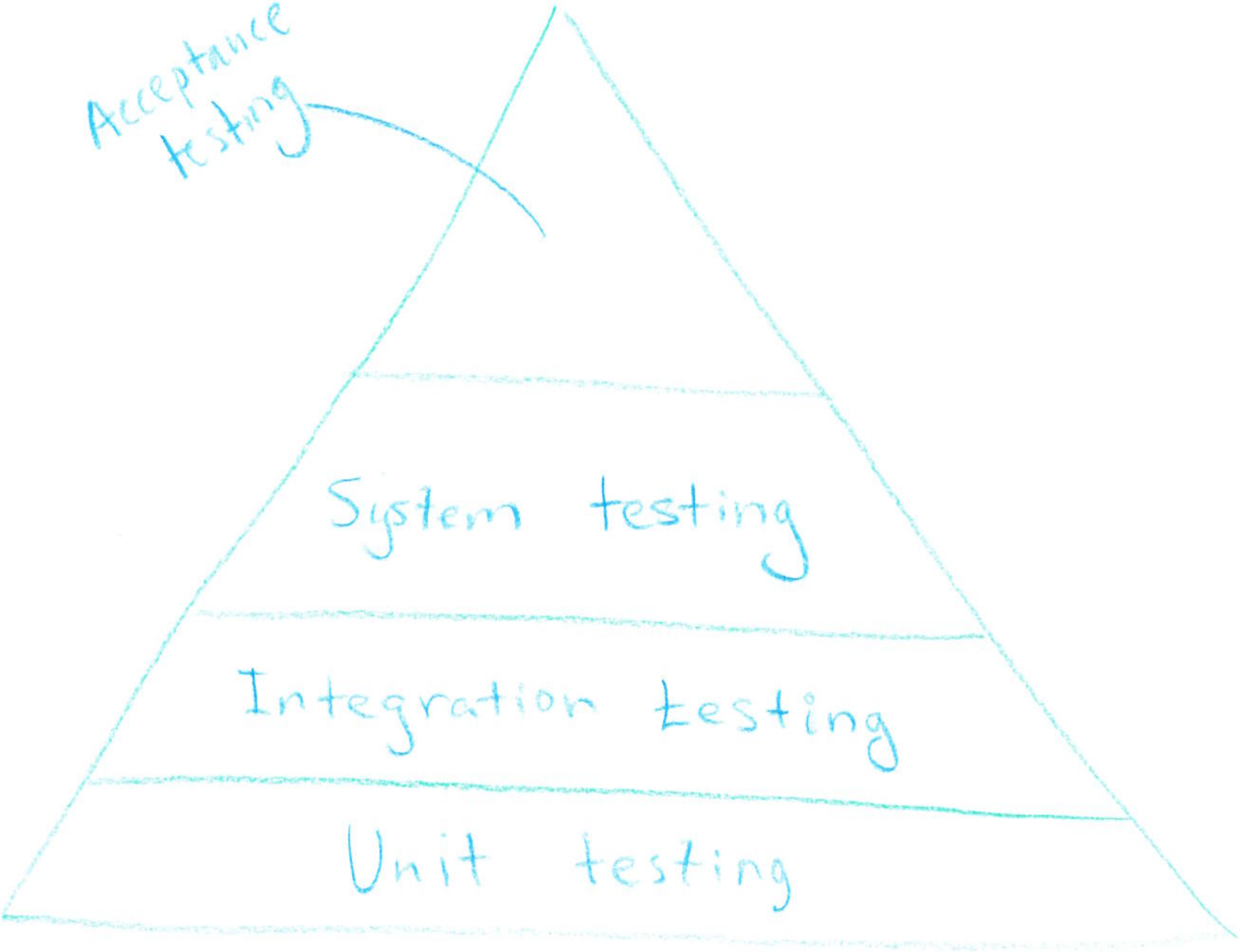
Agenda

- Test Pyramid
- Testing Observations
- Testing@Tink

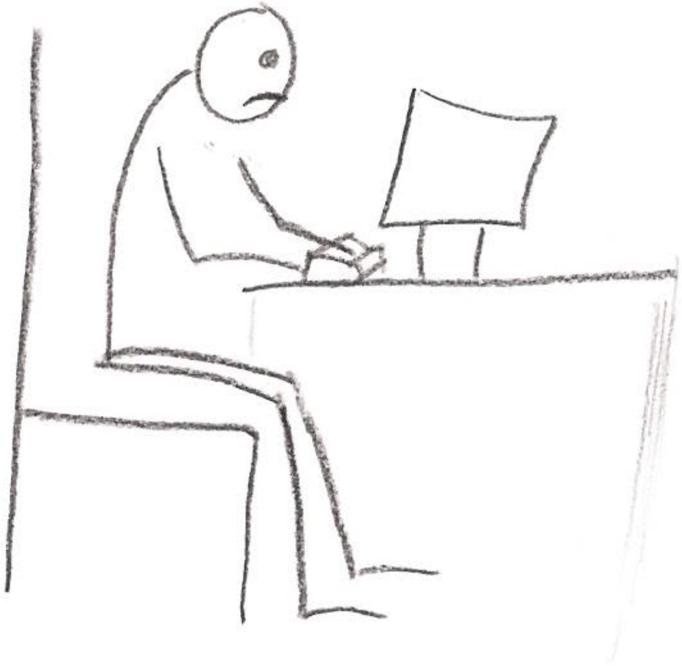


Controversial!

The Test Pyramid



"Manual Testing"



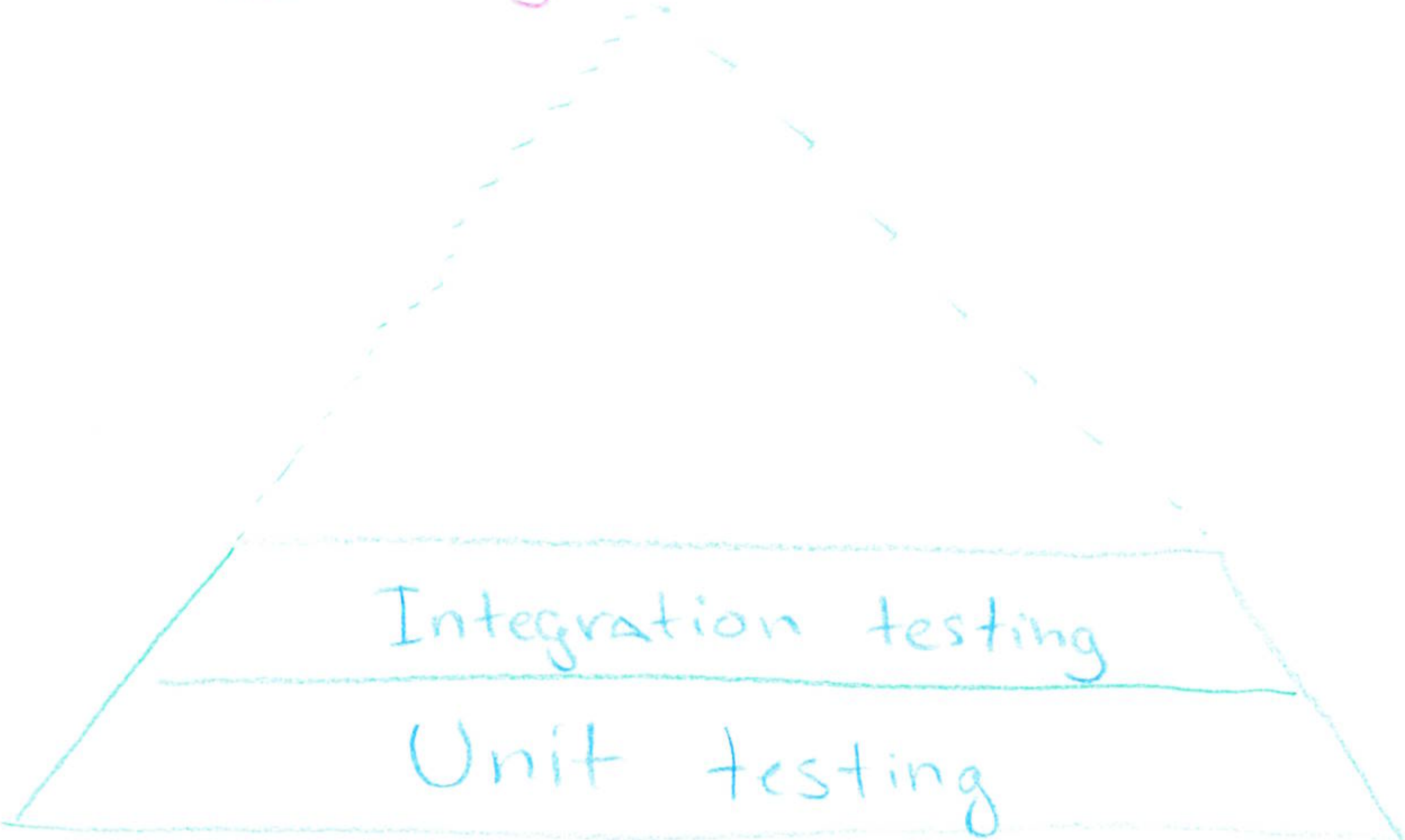
Manual Testing

- Captures point-in-time.
- Hard to recreate.
- No longterm confidence improvement.

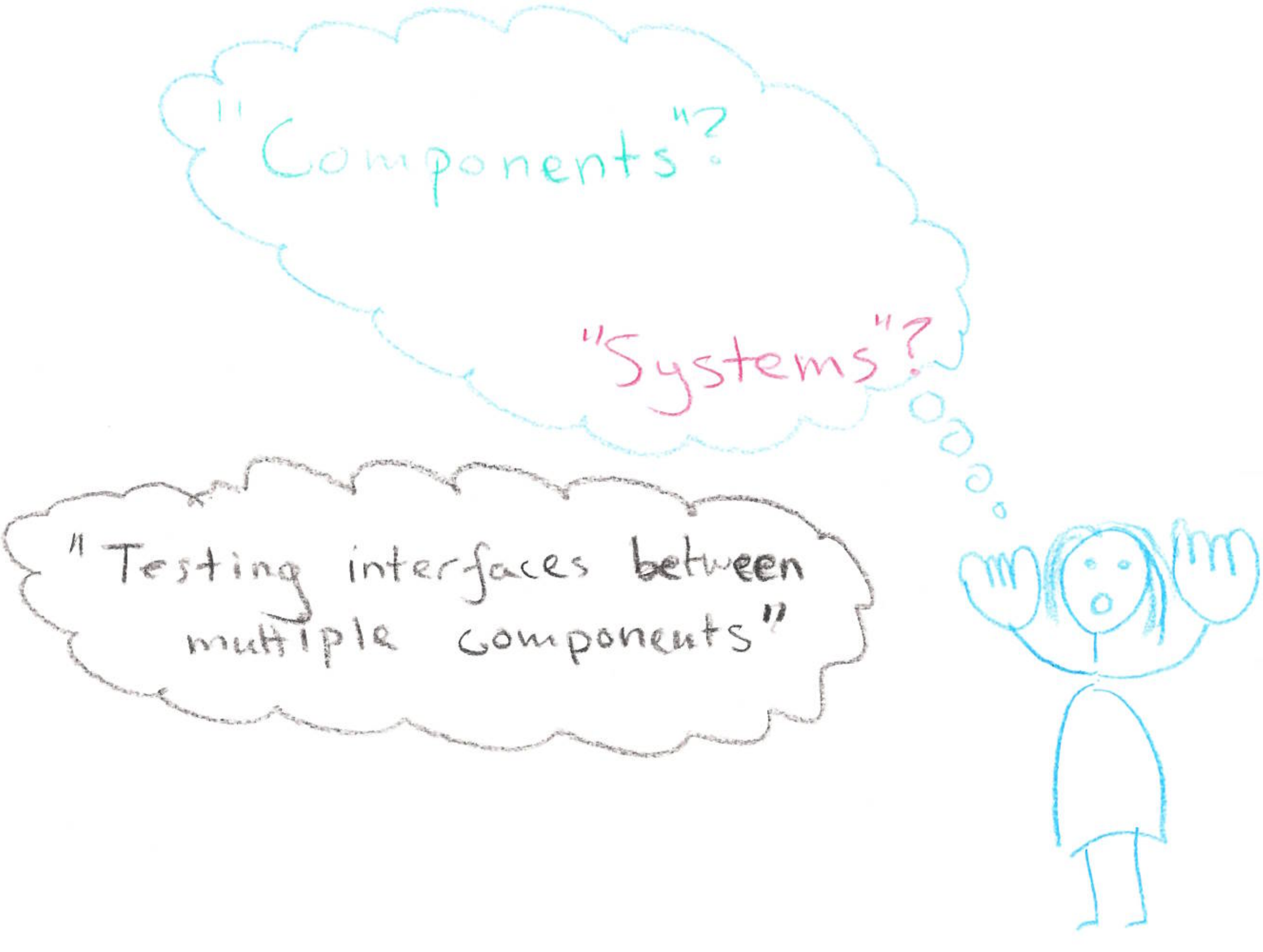
"Acceptance"?

ISTQB: "Formal testing with respect to user needs, requirements, and business processes conducted to determine whether or not a system satisfies the acceptance criteria and to enable the user, customers or other authorized entity to determine whether or not to accept the system."

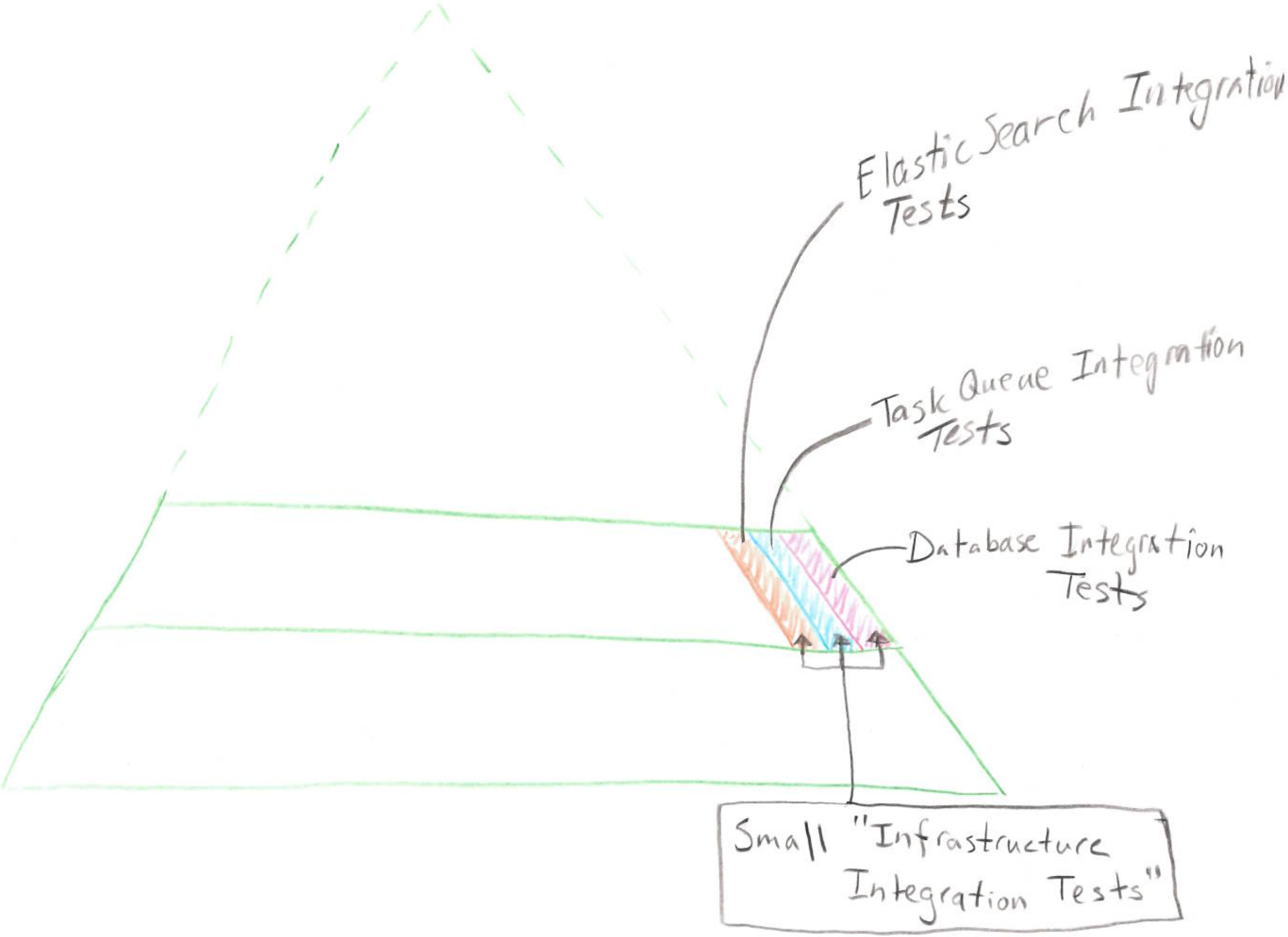
Integration test?



Integration tests

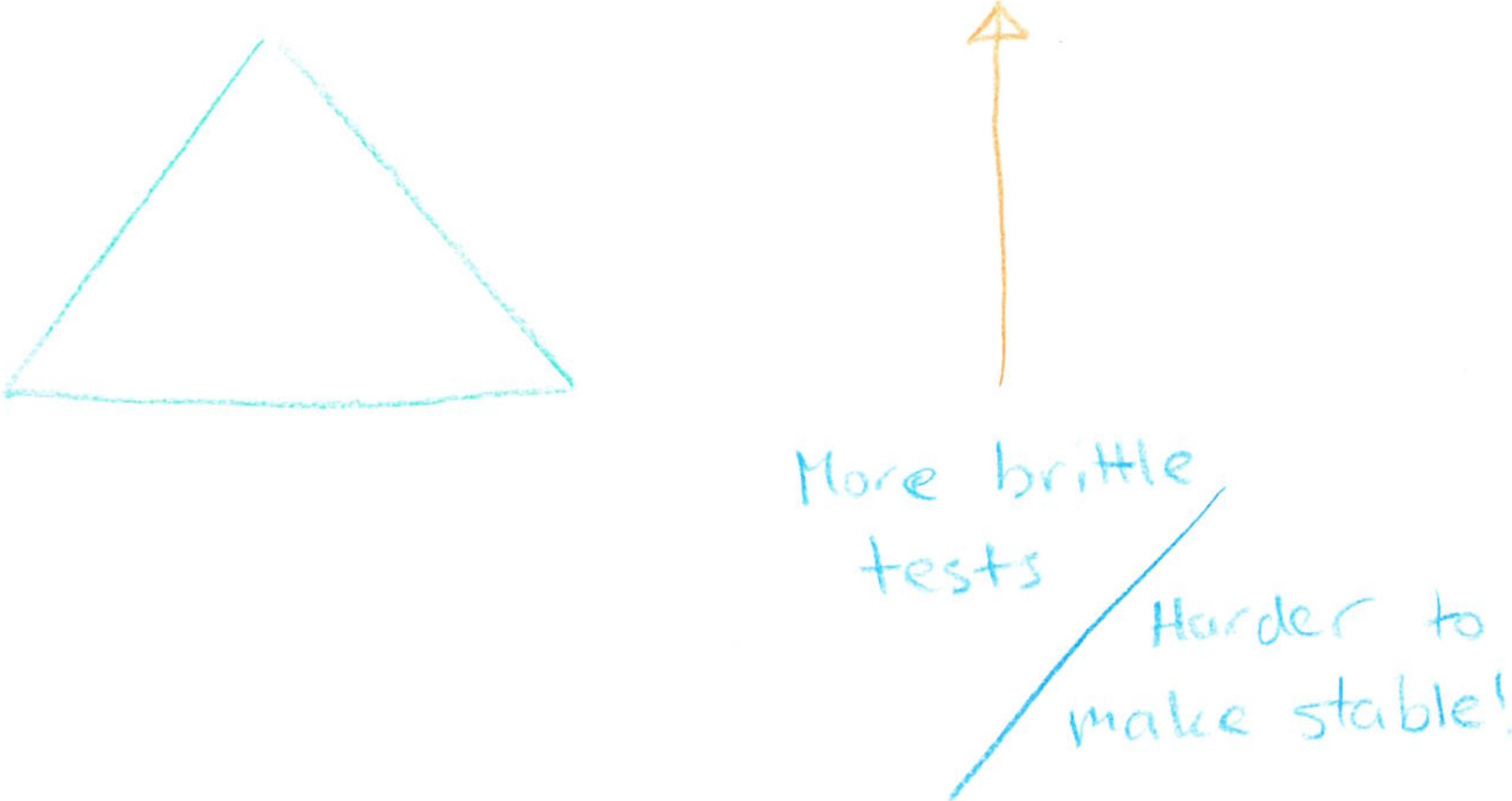


Integration test?


Elastic Search Integration Tests
Task Queue Integration Tests
Database Integration Tests
Small "Infrastructure Integration Tests"

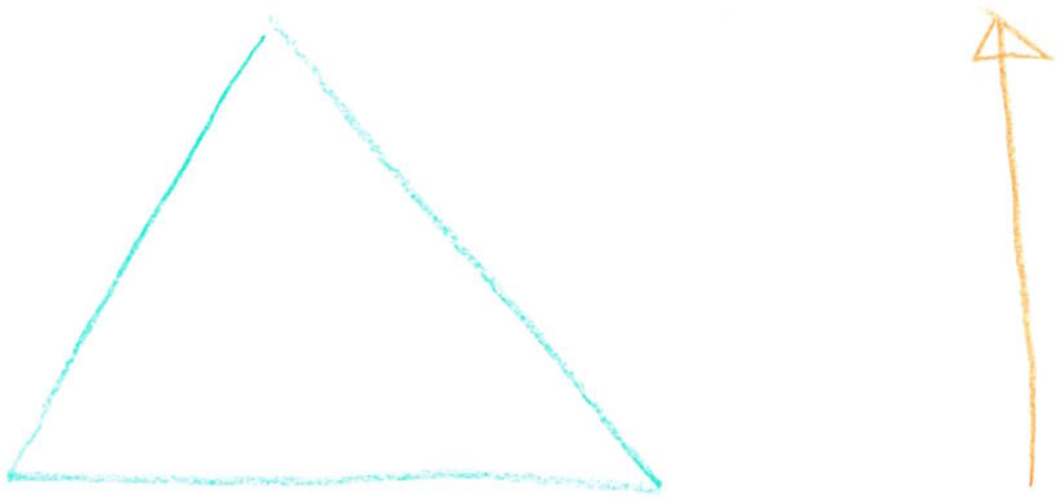
Observations

Slower feedback


More brittle tests
Harder to make stable!

More work to maintain

Requires more love

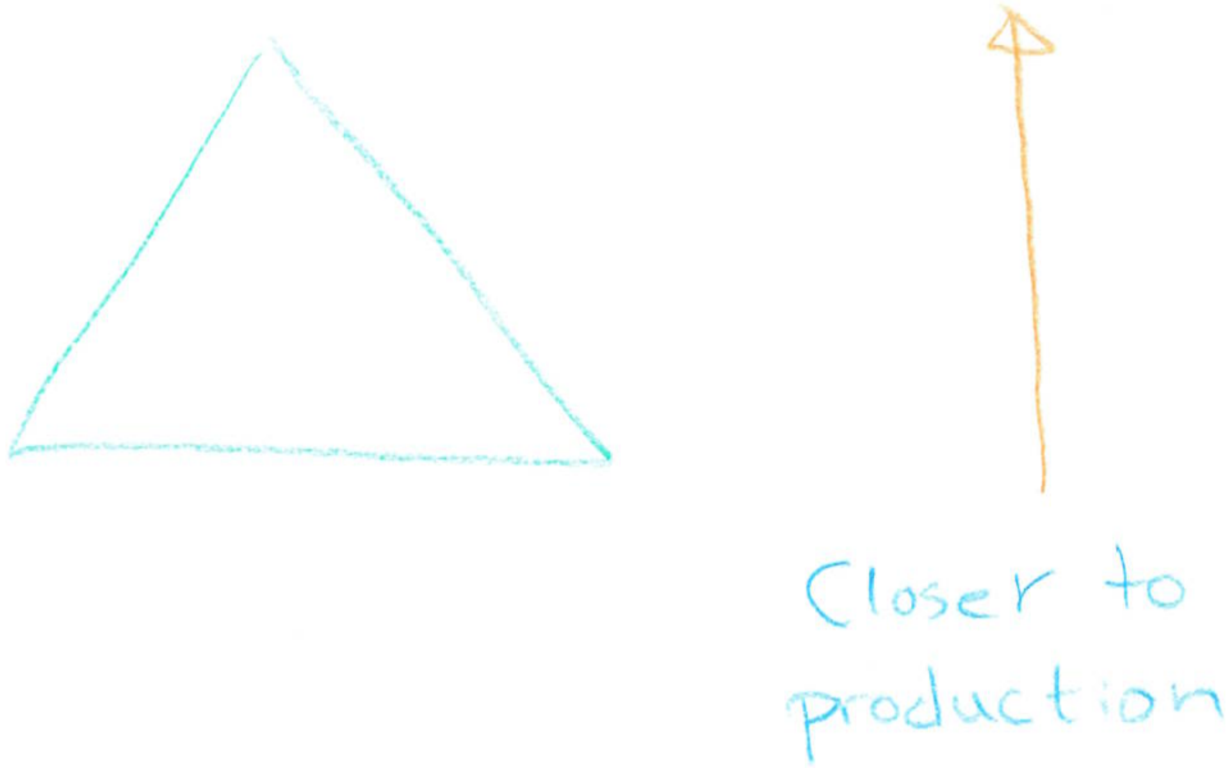


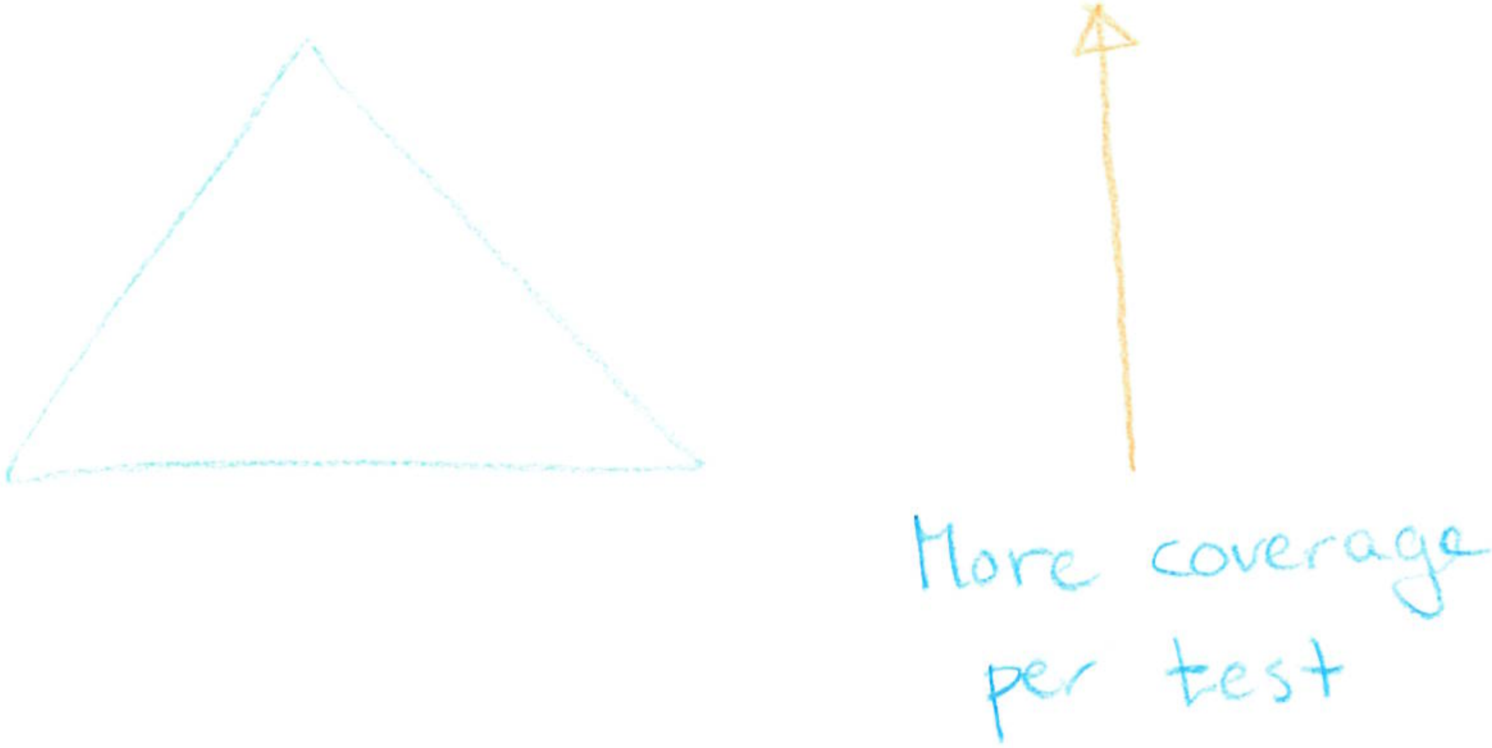
Harder to
debug!

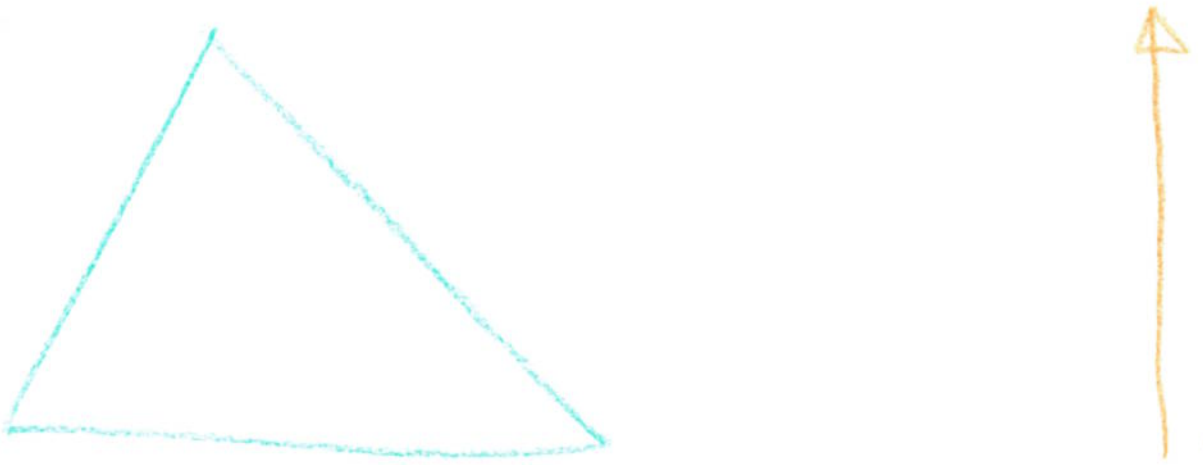
Slower and more
complex to run

Encourages low coupling
high cohesion

(AKA "good software design")

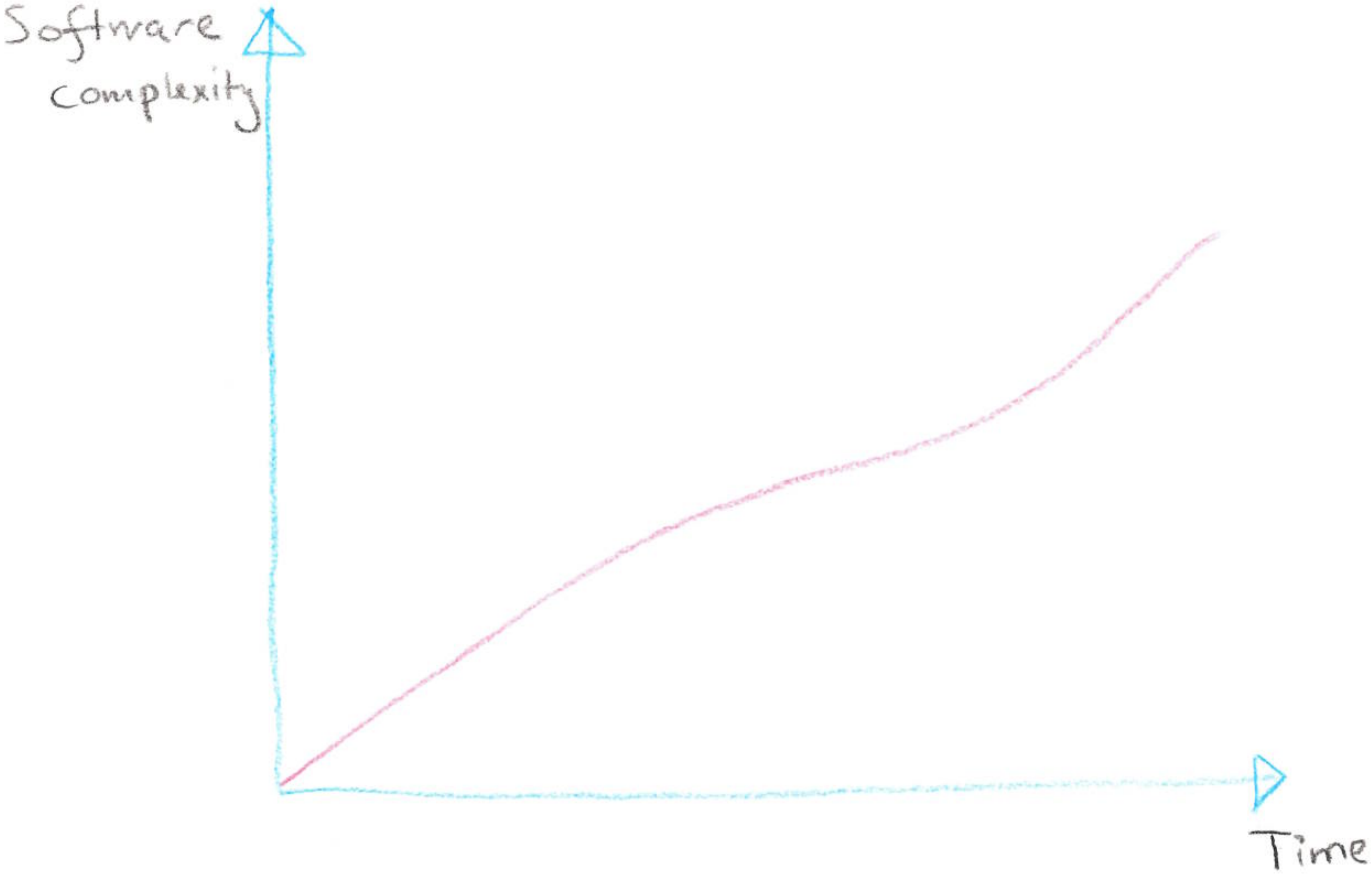

Closer to production

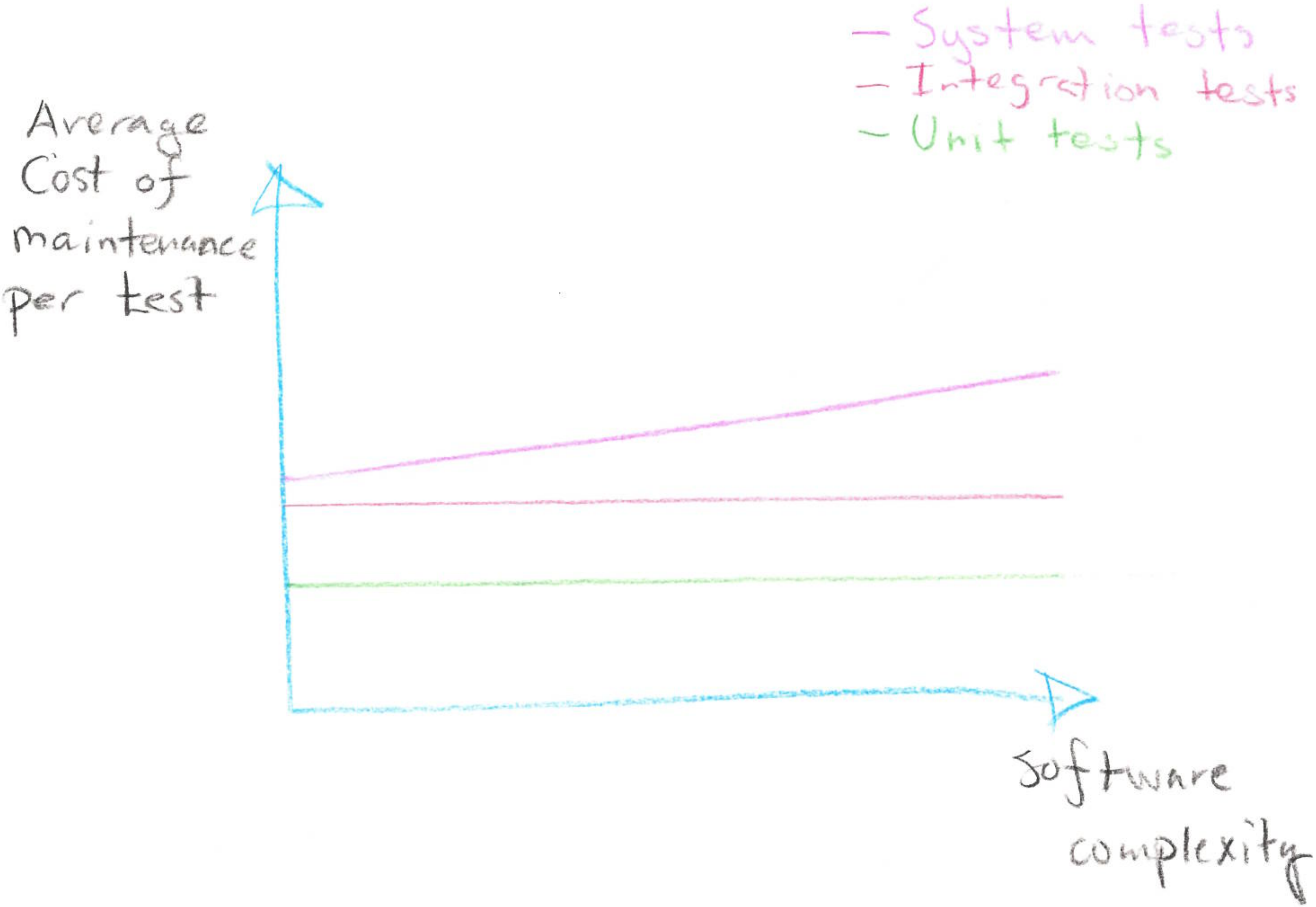

More coverage
per test

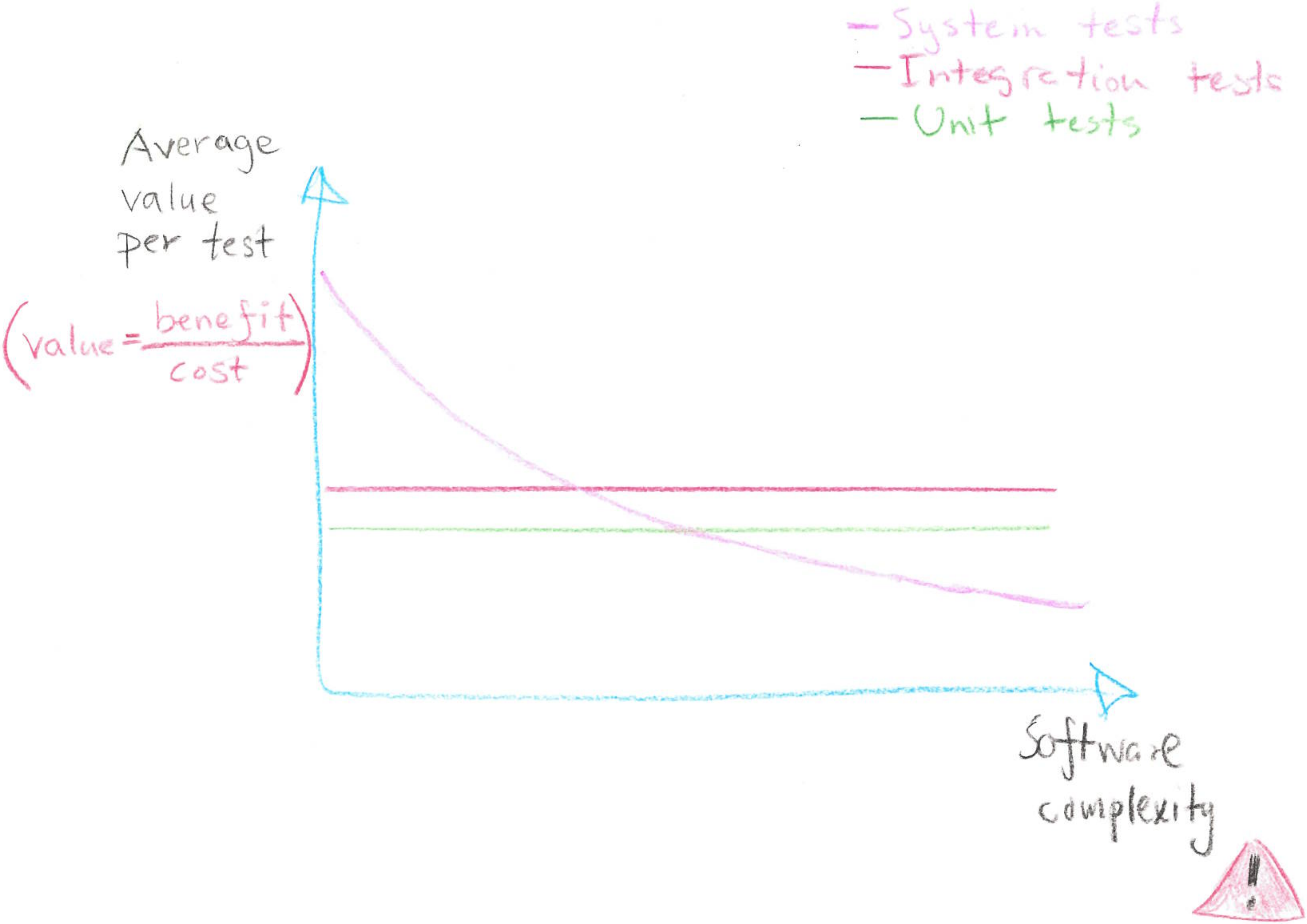


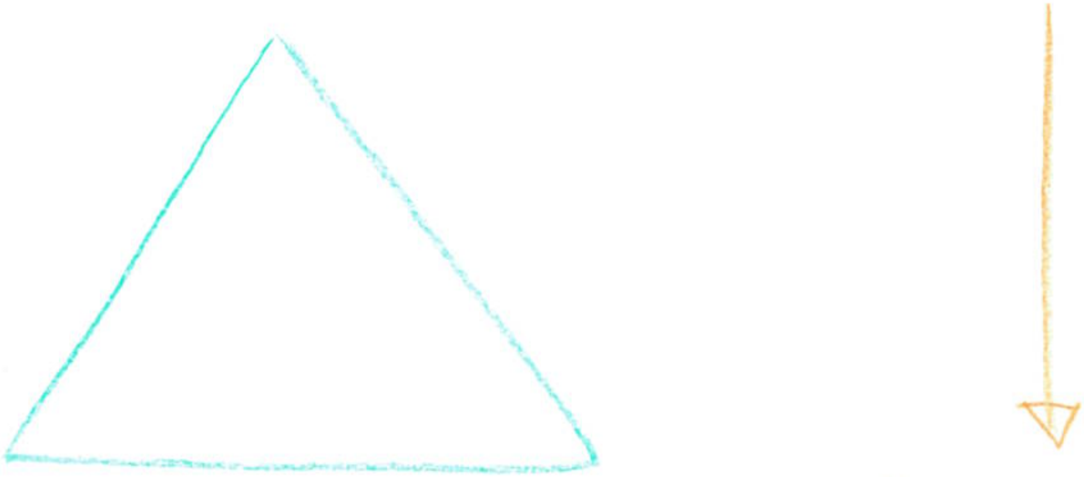
Much more work
to cover all cases

(and reach ⇒ 100%
test coverage)


Software complexity
Time


— System tests
— Integration tests
— Unit tests
Average Cost of maintenance per test
Software complexity


— System tests
— Integration tests
— Unit tests
Average value per test
(value = benefit / cost)
Software complexity
!



Scales better with time.

⚠

Tradeoffs!

- Requirements changes over time, including how to test.

This means engineering culture also needs to change.

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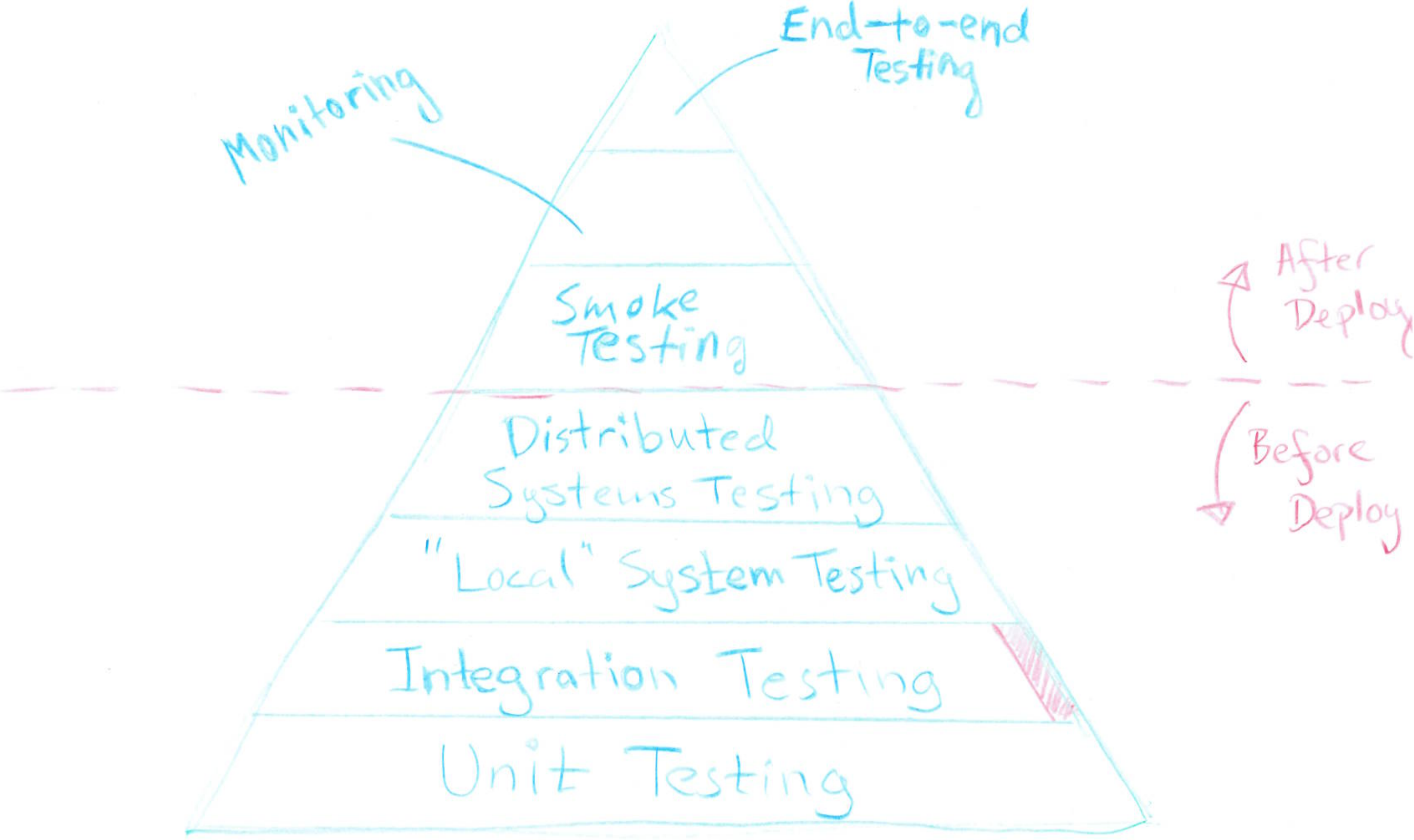
Tink's Test Pyramid (today/directio



WE'RE

HIRING! ☺