

What does it do?

Does it work?

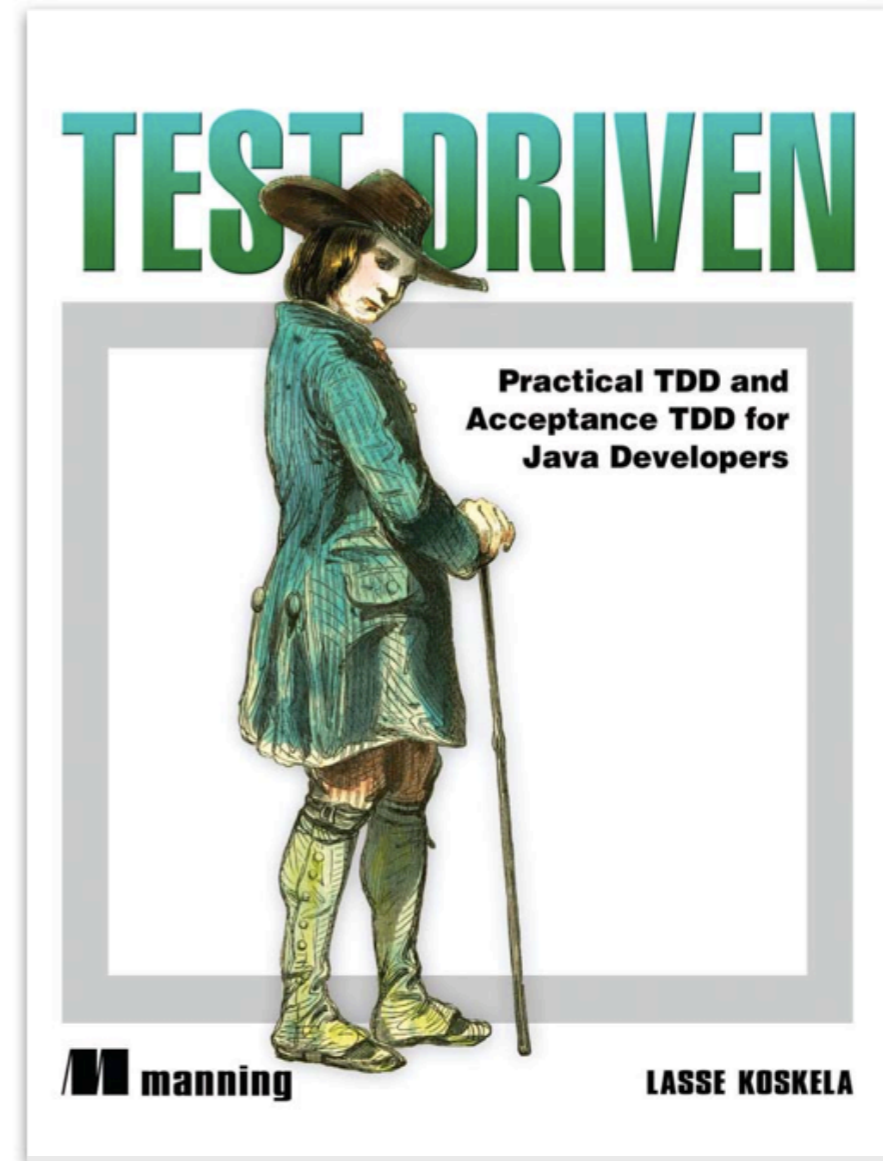
QCon London 2008 - An XpDay Sampler

Lasse Koskela



 reaktor innovations

Aggressive perfector






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What does it do?

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Lasse Koskela

how do we specify systems?

how do we test them?

how do we test systems?

developer testing bliss

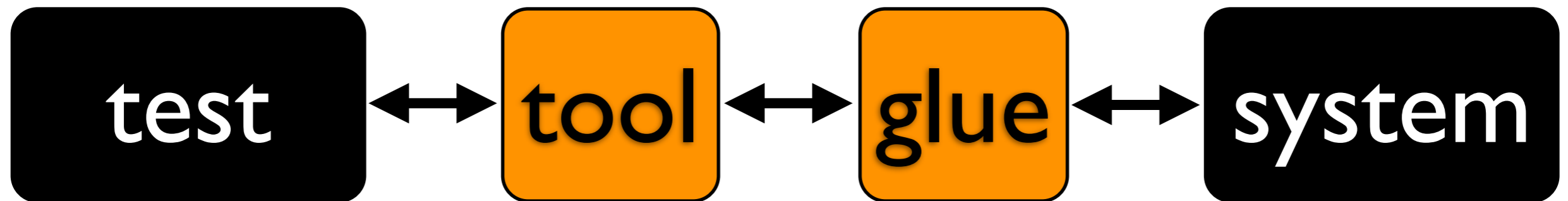
- xUnit frameworks and patterns
- mock object libraries, reflection capabilities
- language as common denominator

customer testing misery

- no standard toolset
- tooling generally not sufficient
- common denominator?

surely there are at least
some commonalities...

tools for customer testing



- text vs. tabular
- imperative vs. descriptive

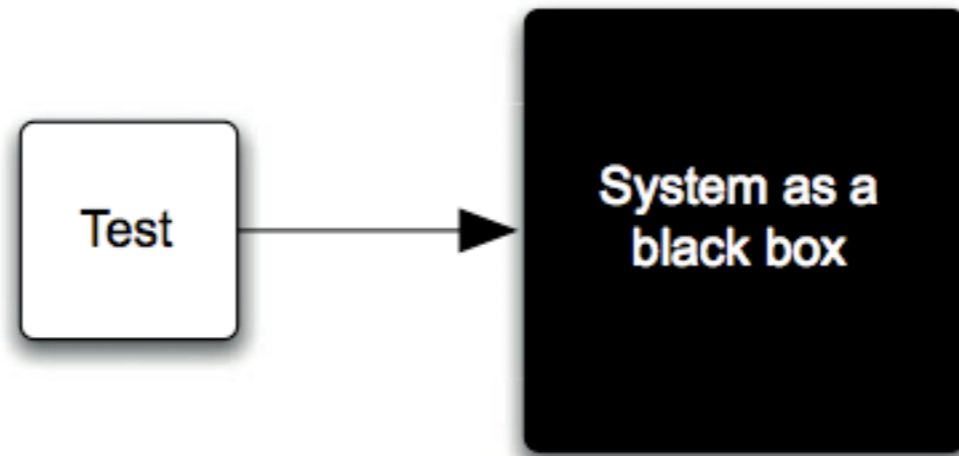
connecting to the system

- there are certain high-level patterns for
 - interacting with the system, and
 - observing side effects

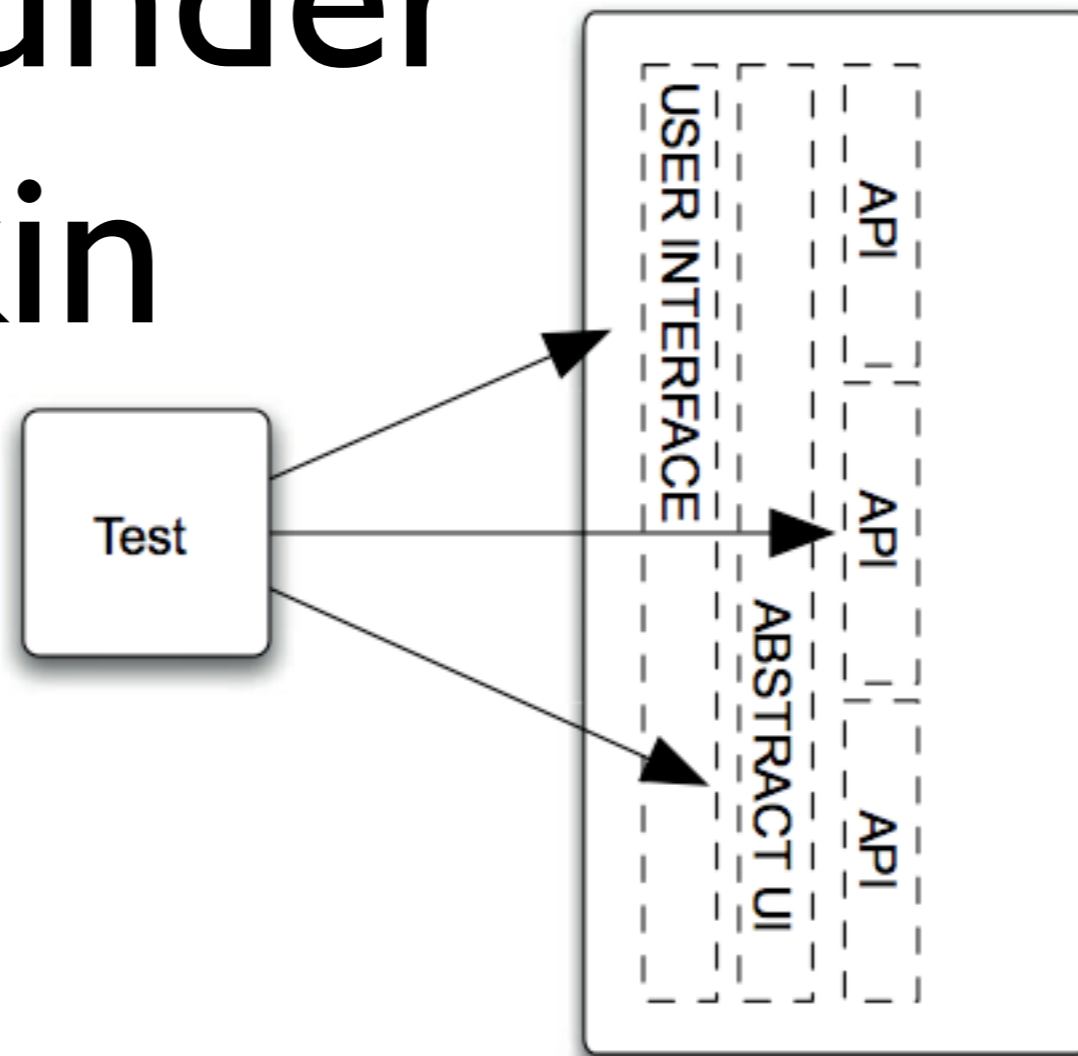
3+2



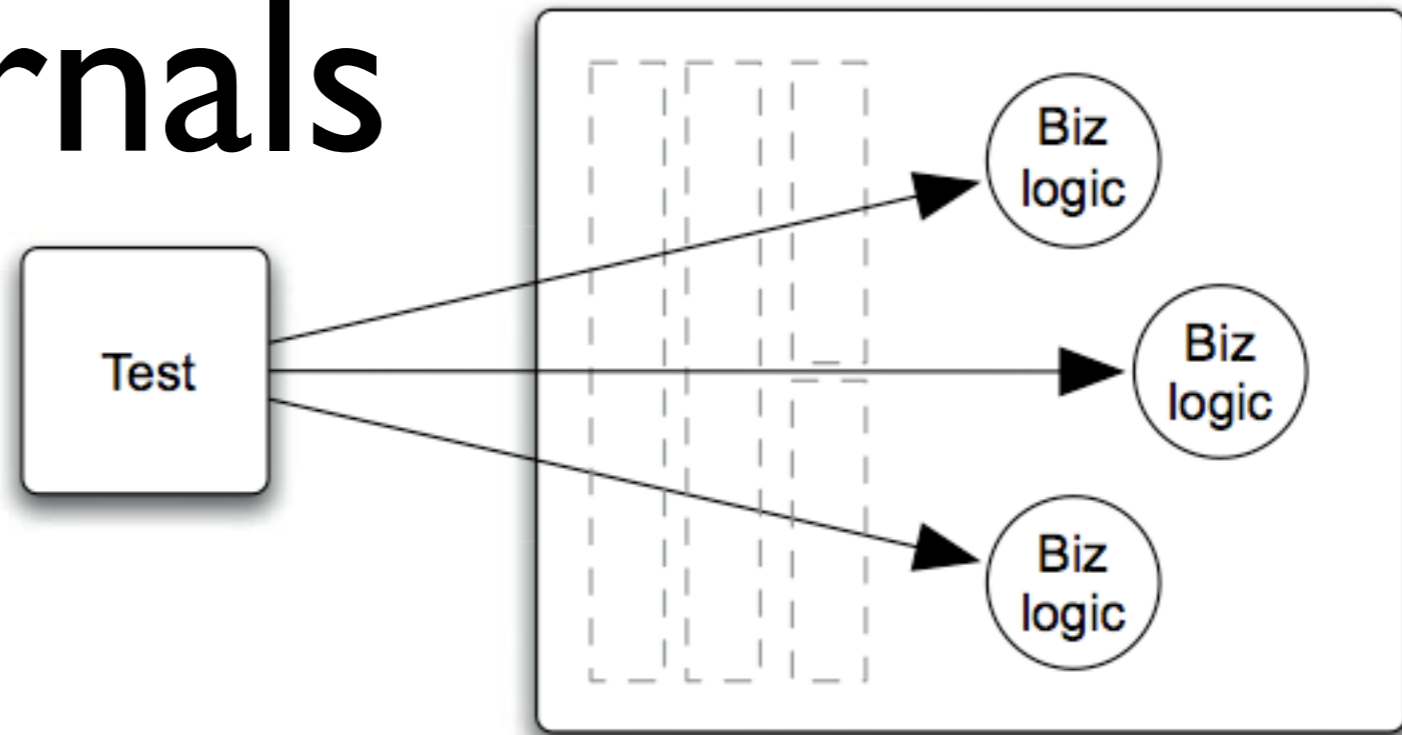
end to end



2 crawling under the skin

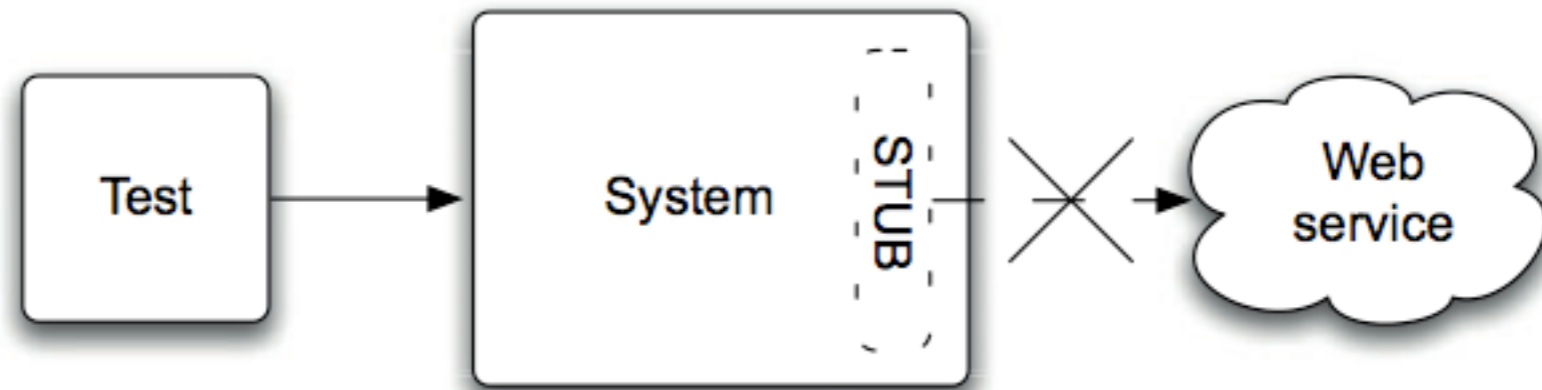


exercising the internals

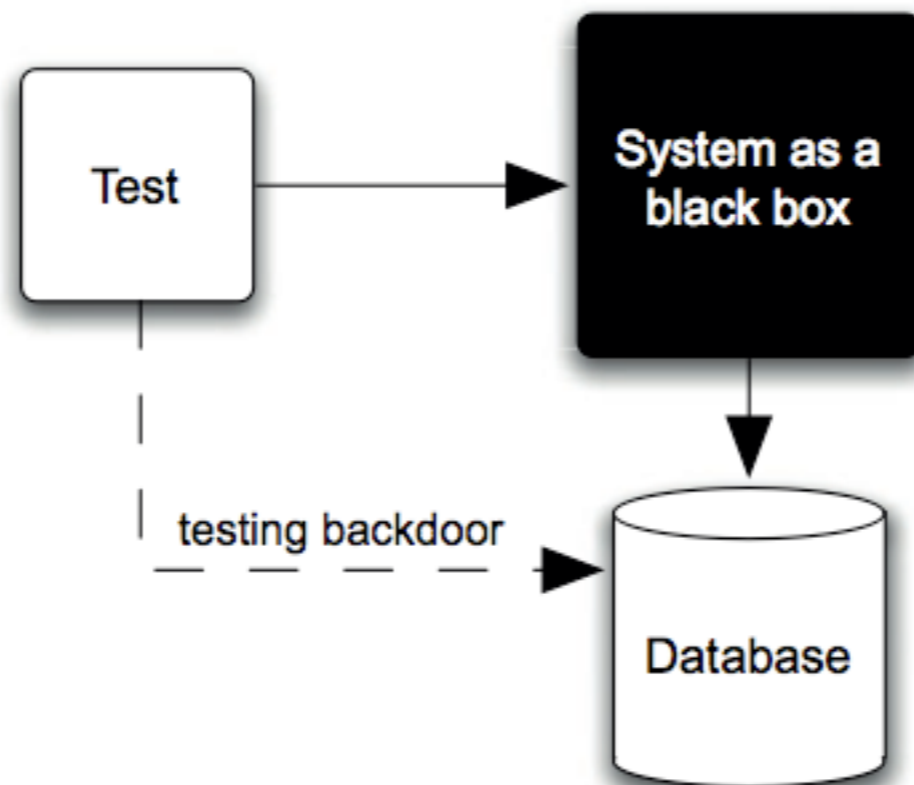


+2

4 stubbing out the irrelevant



5 using testing backdoors



how do we specify systems?

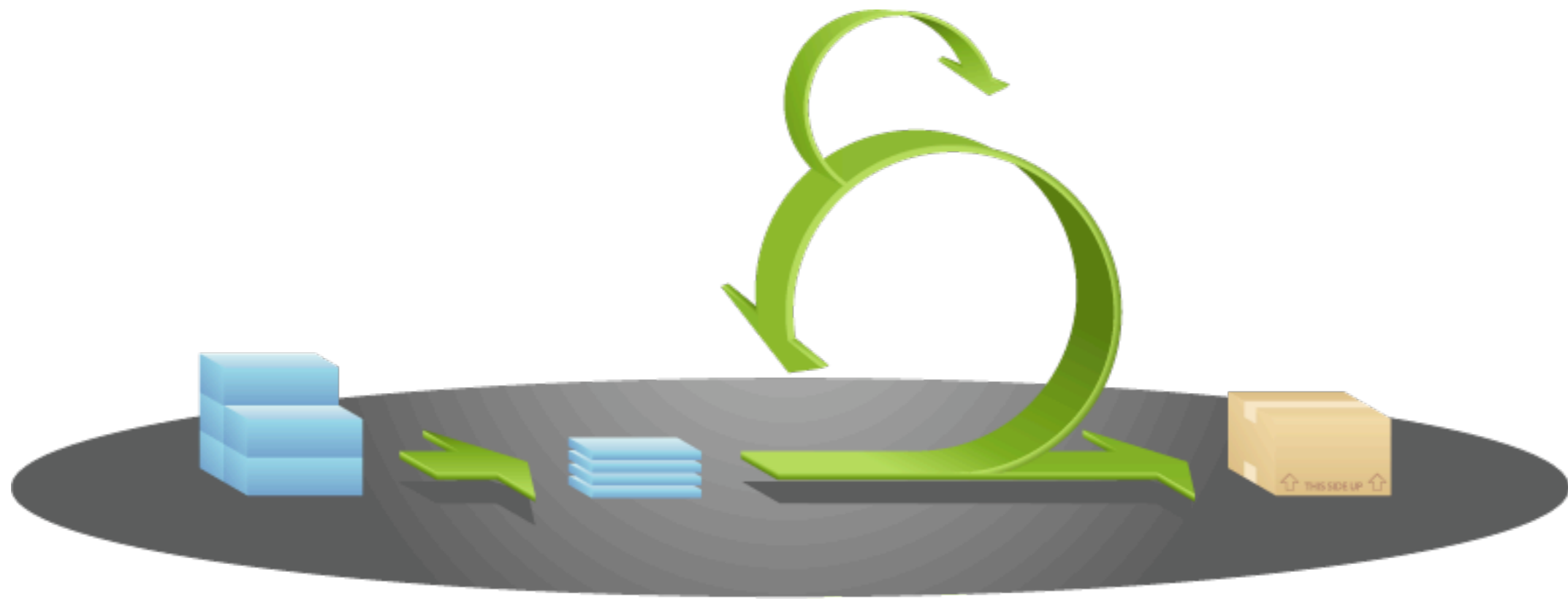
specification

analysis

design

implementation

testing



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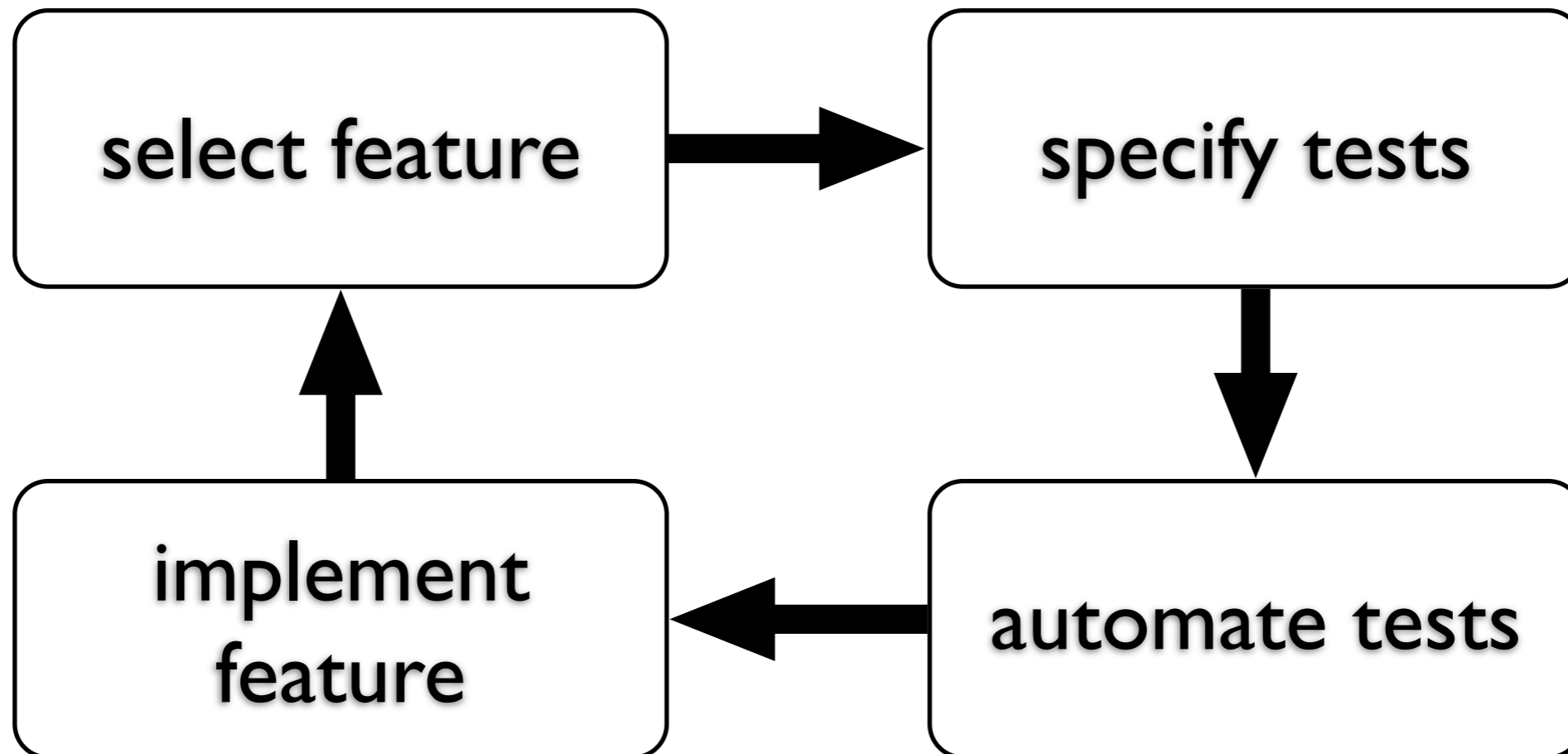
agile specification

- happens during each iteration
- adds detail incrementally over time
- eventually evolves into automated tests

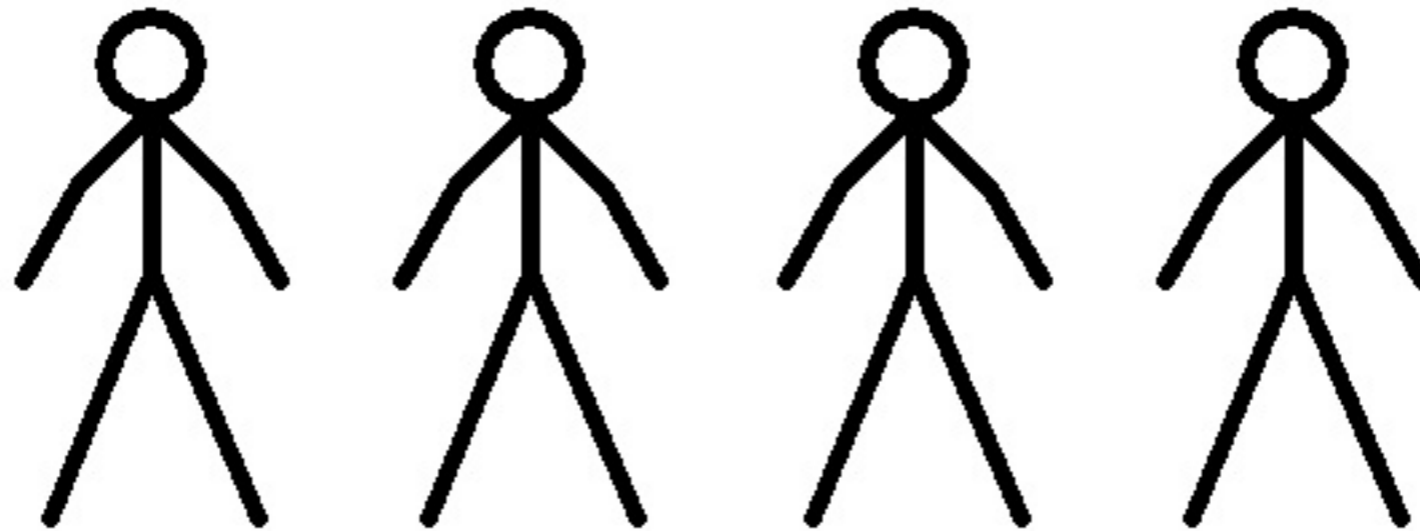
tests as specification

- running tests are ultimately the most accurate description of the system (excluding the system itself)
- translation steps between a specification and tests introduces translation errors

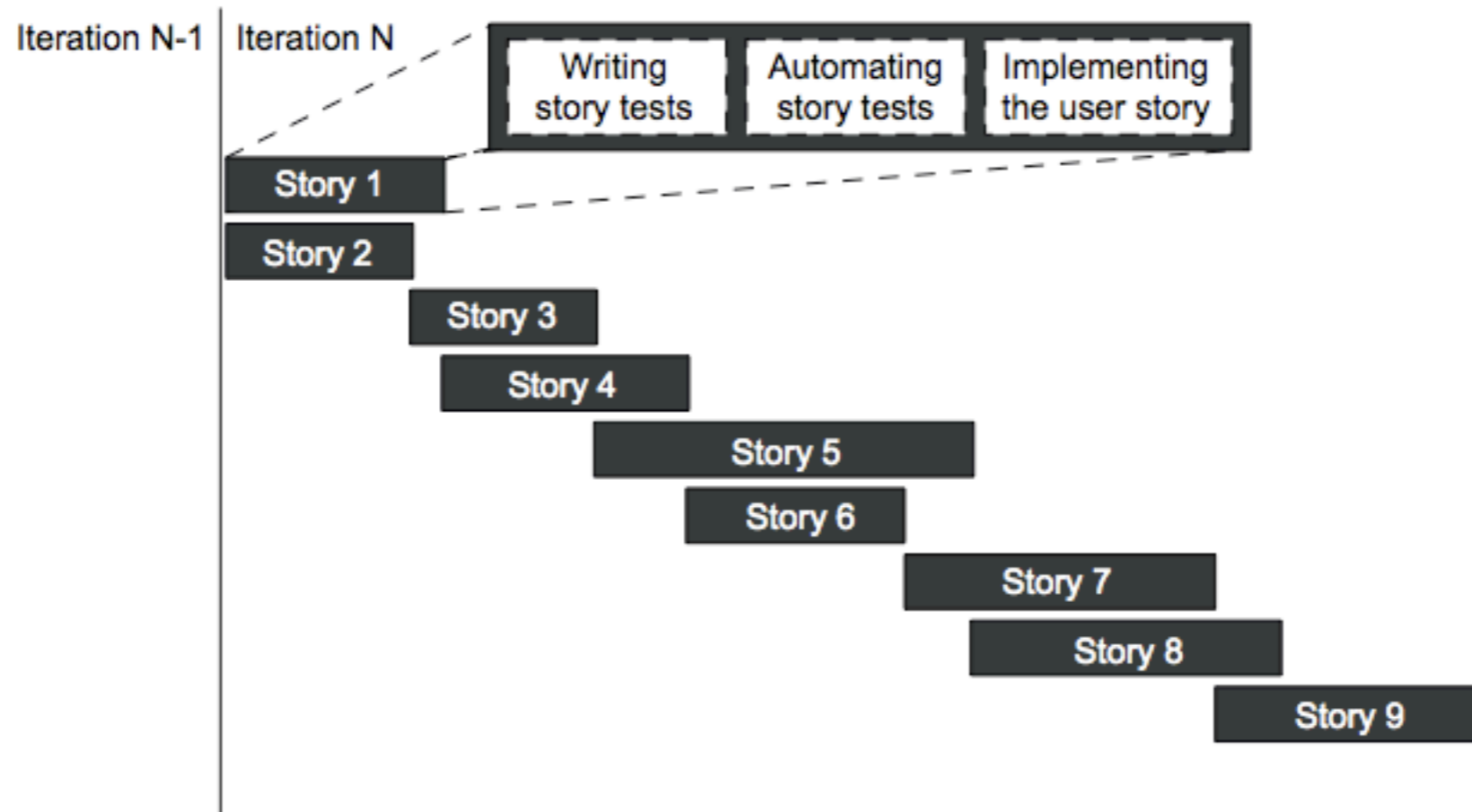
acceptance test driven development



who does what?



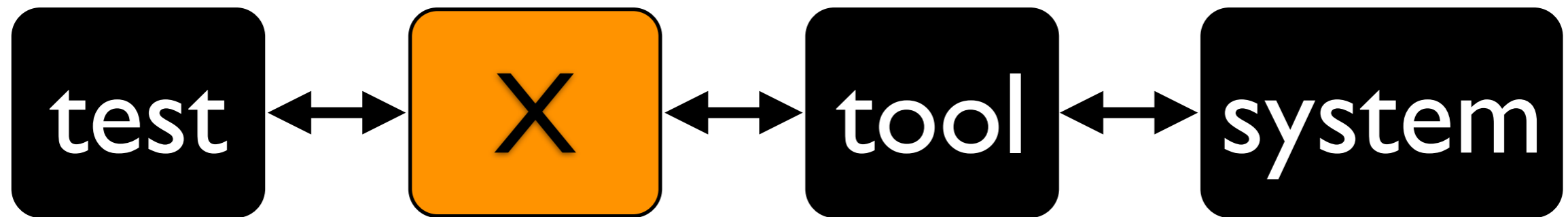
when does it happen?



in other words...

- testers and programmers need to collaborate more closely
- development team and customer need to collaborate more closely
- we need a shared language and medium for doing this!

we need an interface...



...that lets us specify tests in our shared language

3 guiding principles

1 Avoid turbulent interfaces

2 Focus on meaning

3 Involve people

thank you