

# Testing 2013

# 2013



by  
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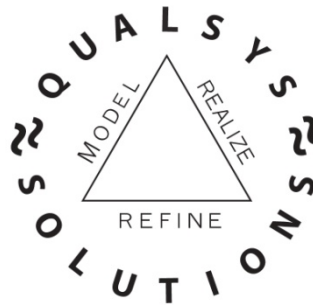
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## Abstract:

As a testing practitioner you have your head down testing company projects, but as a testing professional you need to look up once in a while and consider trends in the testing community. This webinar will consider a trend that, if it hasn't already, is likely to impact you in the near future: Acceptance test driven development (ATDD).

ATDD originated in the agile community. This webinar will teach you how to use the concepts of ATDD to increase your value to your organization no matter what testing methodology they use.

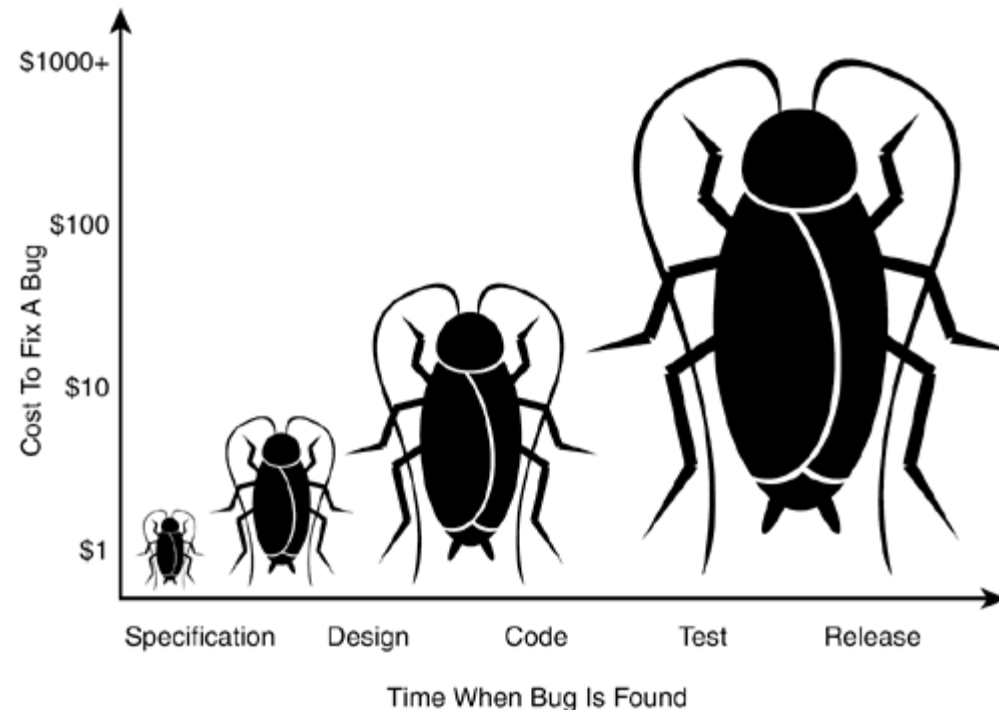
# Test Scenario vs. Test Case

## Travel Website

- Test Scenarios
  - Book a round trip ticket
    - As a Diamond Medallion, book a full fair ticket and make sure the automatic upgrade feature works correctly
    - Try to book a round trip ticket with the dates out of order (return date before the departure date)
- Test Case
  - Jacky Philbert books flight DL2340 on May 3, 2012 returning May 23, 2012 on DL flight 127 paying with visa card number  
...

## Common Use of Test Metrics

- Many QA departments rigorously track the number of defects they identify.
- They then use this metric as an argument to justify their existence and argue for increased funding



# Two Types of Causes for Failing Test Cases

- Type A – BUG!
  - The code is not doing what the developer intended it to do



- Type B – Issue
  - The code is doing exactly what the developer intended it to do, but the tester thinks this is not appropriate or optimal behavior.



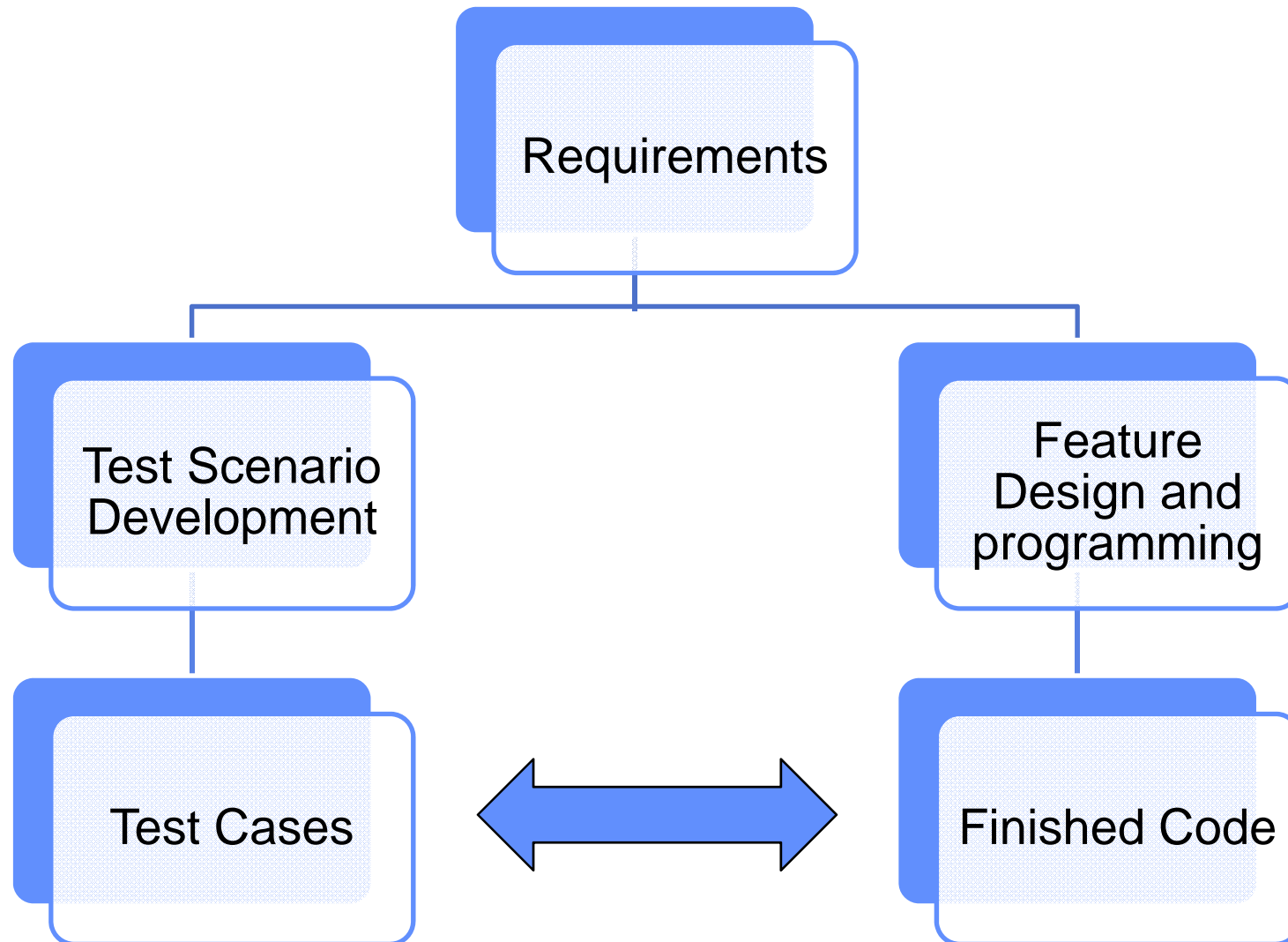
# Why do Testers Find So Many Type B Issues

- Because we want there to be a lot of issues
  - Otherwise we couldn't justify our funding
  - Our best practice has turned into a worst practice



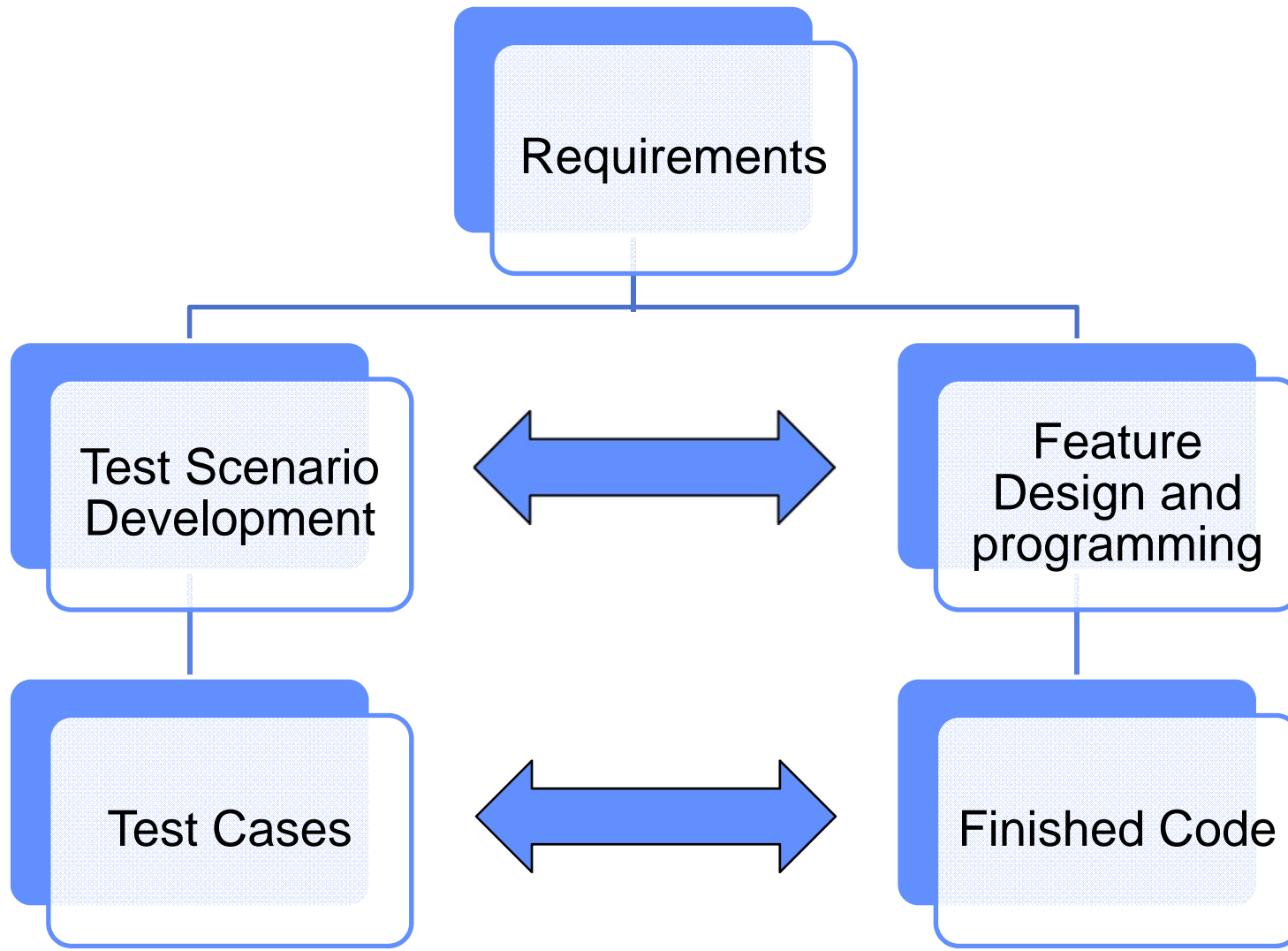
- Because our processes are optimized to maximize type B issues

# A Process to Ensure Type B Issues





# A Process to Minimize Type B Issues



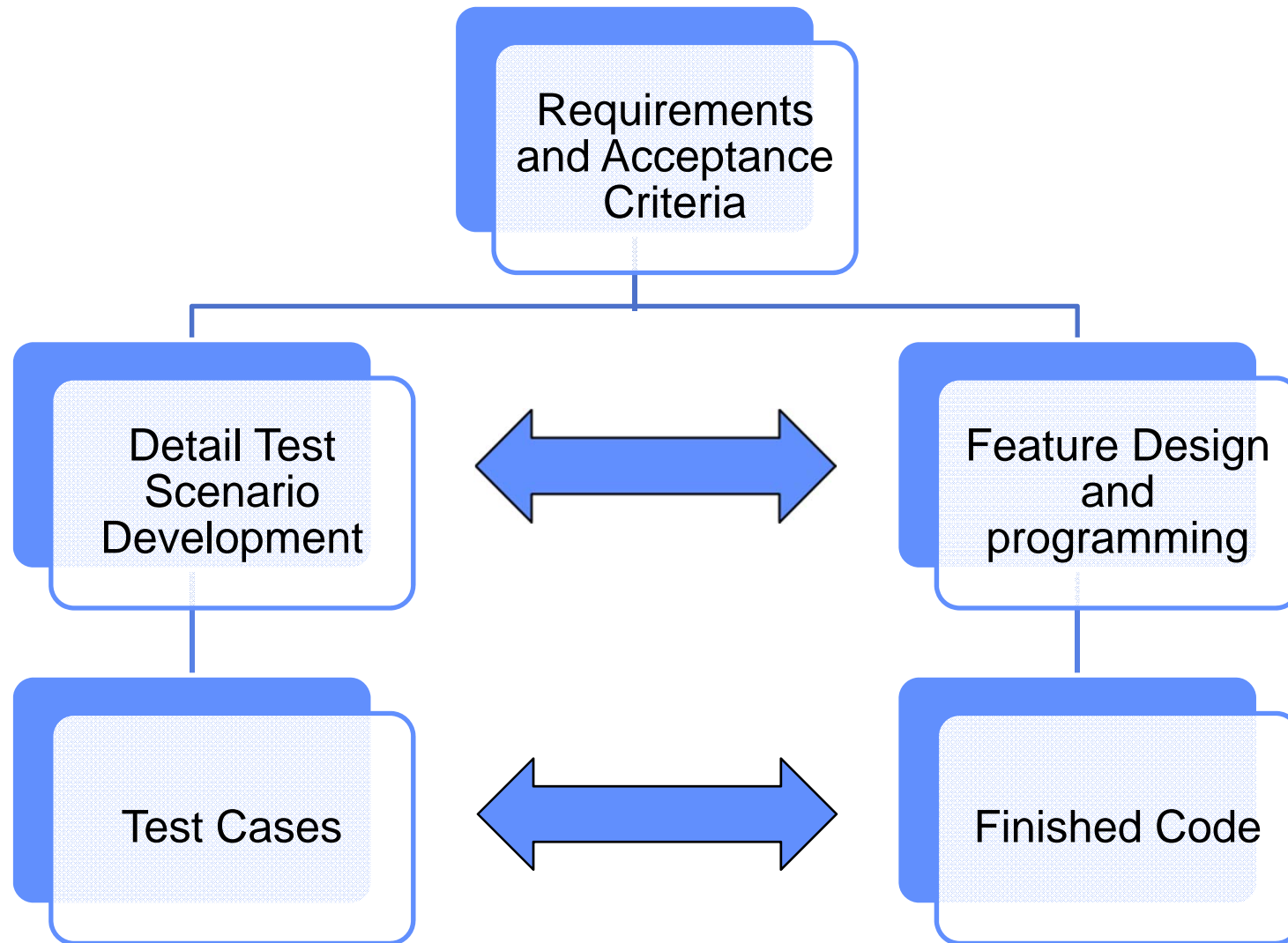
# Create Acceptance Criteria

Before the Work is Done

- Product Backlog Item
  - Repainted deck
- How will I know when I am done?
  - Usable deck
  - What will you check to verify my work?
  - Include
    - Task specific criteria
    - Standard task rules



# A Better Process to Minimize Type B Issues



# Continuous Quality

- Acceptance Criteria always defined as part of the specification
- “How will we test this” is an integral part of design
- Acceptance criteria elaborated into detailed test scenarios before implementation is finished
  - Development team reviews them
- Continuous discussion between the developer, independent verification person, and product owner
  - Power of three

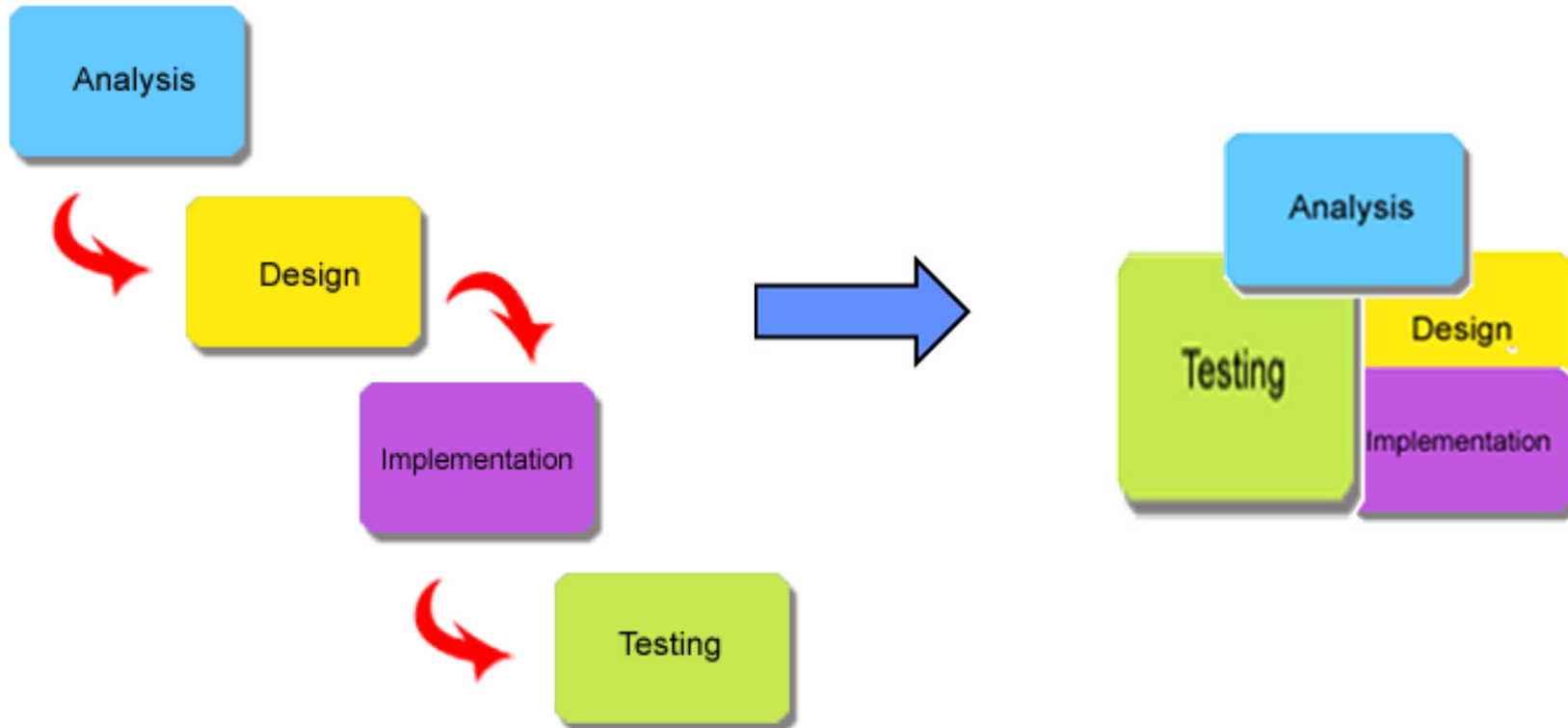
# Minimize both Sources of Failing Test Cases

- Developer
  - decides how to test “units” before developing
  - verifies immediately after every development step
  - Runs acceptance tests as soon as integrated units provide any level of system functionality
- Independent “Tester” verifies each small feature ASAP
- Zero bug tolerance
- Incremental Customer Acceptance Testing



# Continuous Quality

## Acceptance Test Driven Development



# Thanks for coming

- On behalf of QualSys Solutions, thanks for attending this course.
- Let us know about your Scrum experiences. We'd like to hear about your successes and your difficulties.
- My e-mail address is:  
    tim@qualsys.org
- Keep an eye on my website for free white papers, talks and seminars
  - [www.qualsys.org](http://www.qualsys.org)

