

# **A Low-Tech Testing Dashboard**

James Bach, Principal Consultant

james@satisfice.com

<http://www.satisfice.com>

*STAR '99 East*

1

## **The Problem**

---

“What’s the status of testing?”

“What are you doing today?”

“When will you be finished?”

“Why is it taking so long?”

“Have you tested \_\_\_\_\_, yet?”

2

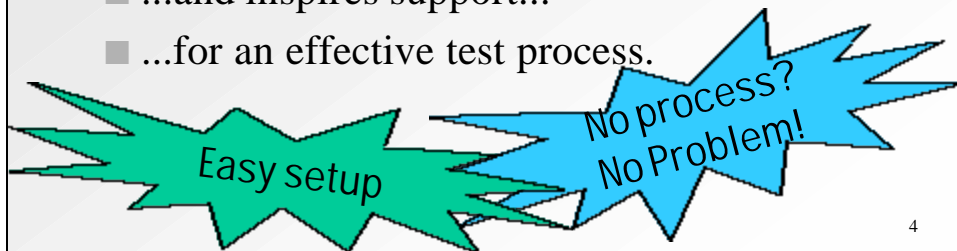
## The Problem

- Management has little patience for detailed test status reports.
- Management doesn't understand testing.
  - *Testing is confused with improving.*
  - *Testing is considered a linear, independent task.*
  - *Testing is assumed to be exhaustive.*
  - *Testing is assumed to be continuous.*
  - *Test results are assumed to stay valid over time.*
  - *Impact of regression testing is not appreciated.*
  - *Test metrics are hard to interpret.*

3

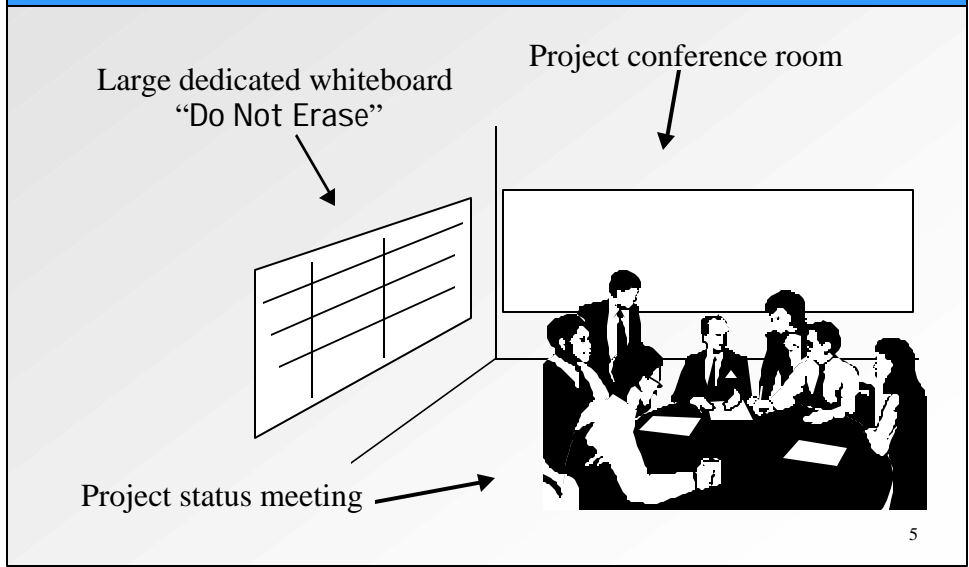
## A Solution

- Report test cycle progress in a simple, structured way...
- ...that shows progress toward a goal...
- ... manages expectations...
- ...and inspires support...
- ...for an effective test process.

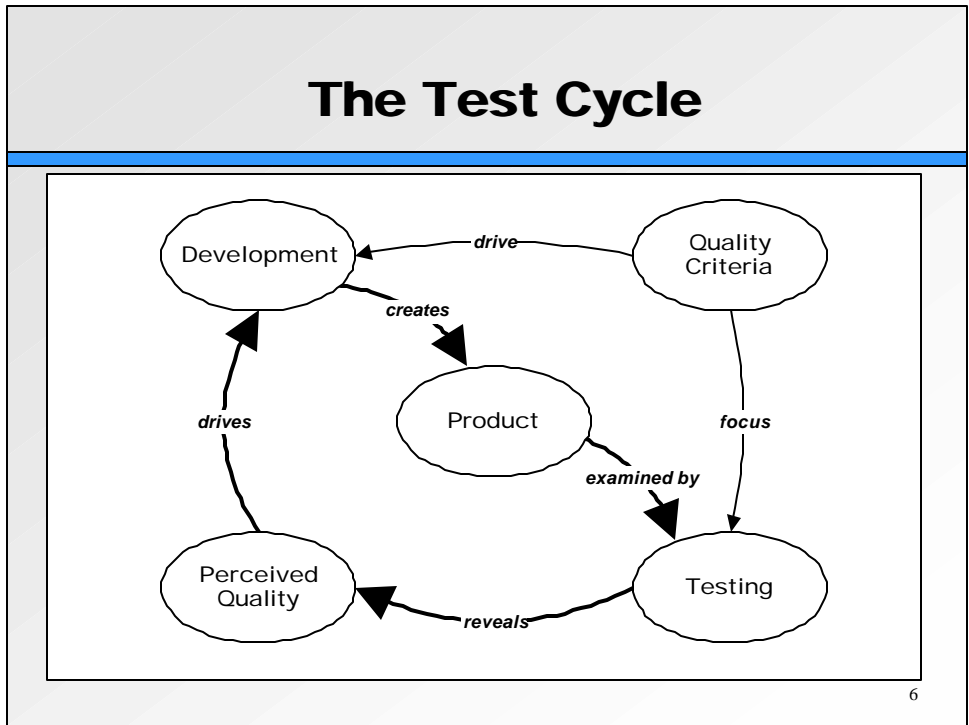


4

# The Dashboard Concept



# The Test Cycle



# Test Cycle Report

Product Areas

VS.

Test Effort

Test Coverage

Quality Assessment

VS.

Time

7

## Testing Dashboard

Updated:  
2/21

Build:  
38

Area	Effort	C.	Q.	Comments
file/edit	high	1		
view	low	1+		1345, 1363, 1401
insert	low	2		
format	low	2+		automation broken
tools	blocked	1		crashes: 1406, 1407
slideshow	low	2		animation memory leak
online help	blocked	0		new files not delivered
clipart	none	1		need help to test...
converters	none	1		need help to test...
install	start 3/17	0		
compatibility	start 3/17	0		lab time is scheduled
general GUI	low	3		

8

## Product Area

### Area

file/edit

view

insert

format

tools

slideshow

online help

clipart

converters

install

compatibility

general GUI

- 15-30 areas (keep it simple)
- Avoid sub-areas: they're confusing.
- Areas should have roughly equal value.
- Areas together should be inclusive of everything reasonably testable.
- "Product areas" can include tasks or risks- but put them at the end.
- Minimize overlap between areas.
- Areas must "make sense" to your clients, or they won't use the board.

9

## Test Effort

None	Not testing; not planning to test.
Start	No testing yet, but expect to start soon.
Low	Regression or spot testing only; maintaining coverage.
High	Focused testing effort; increasing coverage.
Pause	Temporarily ceased testing, though area is testable.
Blocked	Can't effectively test, due to blocking problem.
Ship	Going through final tests and signoff procedure.

10

## Test Effort

- Use red to denote significant problems or stoppages, as in **blocked**, **none**, or **pause**.
- Color **ship** green once the final tests are complete and everything else on that row is green.
- Use neutral color (such as black or blue, but pick only one) for others, as in **start**, **low**, or **high**.

11

## Test Coverage

0	We have no good information about this area.
1	Sanity Check: major functions & simple data.
1+	More than sanity, but many functions not tested.
2	Common Cases: all functions touched; common & critical tests executed.
2+	Some data, state, or error coverage beyond level 2.
3	Corner Cases: strong data, state, error, or stress testing.

12

## Test Coverage

- Color green if coverage level is acceptable for ship, otherwise color black.
- Level 1 and 2 focus on functional requirements and capabilities: *can* this product work at all?
- Level 2 may span 50%-90% code coverage.
- Level 2+ and 3 focus on information to judge performance, reliability, compatibility, and other “ilities”: *will* this product work under realistic usage?
- Level 3 or 3+ implies “if there were a bad bug in this area, we would probably know about it.”

13

## Quality Assessment



“We know of no problems in this area that threaten to stop ship or interrupt testing, nor do we have any definite suspicions about any.”



“We know of problems that are possible showstoppers, or we suspect that there are important problems not yet discovered.”



“We know of problems in this area that definitely stop ship or interrupt testing.”

14

## Comments

Use the comment field to explain anything colored red, or any non-green quality indicator.

- Problem ID numbers.
- Reasons for pausing, or delayed start.
- Nature of blocking problems.
- Why area is unstaffed.

15

## Using the Dashboard

- **Updates:** 2-5/week, or at each build, or prior to each project meeting.
- **Progress:** Set expectation about the duration of the “Testing Clock” and how new builds reset it.
- **Justification:** Be ready to justify the contents of any cell in the dashboard. The authority of the board depends upon meaningful, actionable content.
- **Going High Tech:** Sure, you can put this on the web, but will anyone actually look at it???

16