Testing

What (Skilled) Testers Are Turning Into

James Bach

james@satisfice.com

What is "meta-testing?"

- A. Theoretical
- B. Self-Referential
- C. Practical

What is "meta-testing?"

- A. study of ontological/epistemic foundations of testing
- B. testing of a testing process
- C. creating or improving testing w/o necessarily testing

Test management (without test managers)

What happened to test managers?



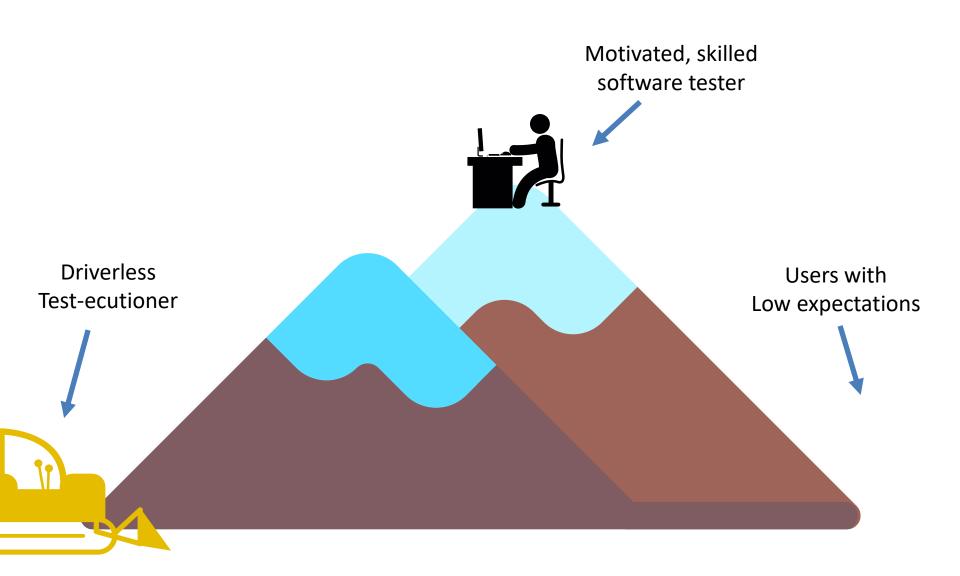
Trend: Test Management Collapse

- Management abdicated stewardship of craftsmanship in testing. The ISTQB has successfully lowered expectations for testing expertise, with its stupid "certifications" and bogus "standards." Test managers failed to build credibility with the development community.
- 2. Lean/Agile then destroyed test management. In that environment of happily shallow testers, the Lean/Agile movement arose and challenged the need for testing groups. Test groups folded into dev groups with managers getting axed.
- 3. Testing craftsmanship lost its support base. Without a robust test management community, software testing craftsmanship no longer had a natural home. In many places, the culture dominating testing is not business culture but rather "maker" culture. What do makers want to do? Build robots to do testing! (Because building is more fun than testing, for them; anyway, it's what they know.)
- 4. "Testers" became tool jockeys or developer assistants. Many of those shallow tester took one selenium class and became shallow automation tenders. So, how does anyone become good at deep testing?
- 5. These testers are perpetually over-stressed. Testing are now driven by task cards, one after another, with little time to reflect. A creative activity has become "taskified." Test data and infrastructure preparation suffer; testing, in many teams, is permanently shallow.

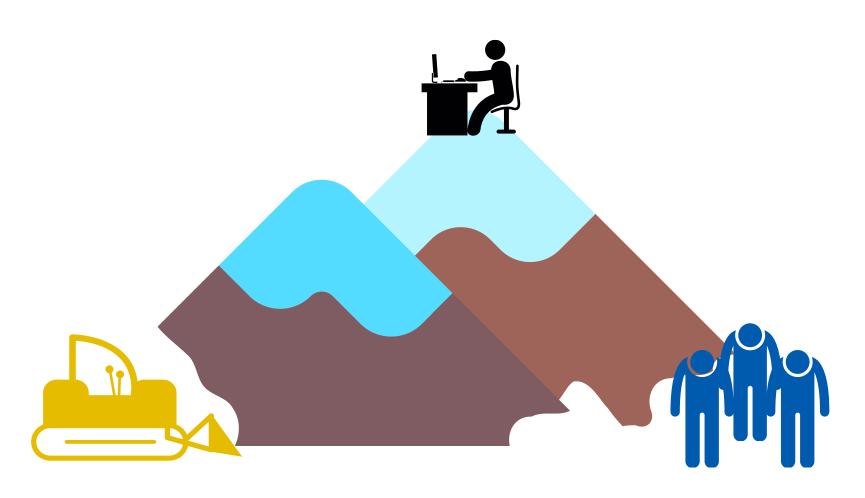
What happened to test managers?



Meanwhile, demand for skilled testing is eroding.



Demand for skilled testing is eroding under assault by shiny automation on one side, and low quality standards on the other.



Demand for skilled testing is eroding under assault by shiny automation on one side, and low quality standards on the other.

The entire industry has become enthralled by the values and practices appropriate for experimental, non-critical software.



Demand for skilled testing is eroding under assault by shiny automation on one side, and low quality standards on the other.

The entire industry has become enthralled by the values and practices appropriate for experimental, non-critical software.

Meanwhile, testing culture, already weakened by the ISTQB zombie virus, is stagnating.



What must good testers do?

- A. Good testing.
- B. A lot of meta-testing.

It seems good testers must become good meta-testers.

Activities of Meta-Testing

Yourself

- Developing your professional mentality
- Developing your testing methodology
- Developing yourself as a coach and trainer
- Building credibility so you will be heard
- Developing yourself as a meta-tester (that's meta-meta-testing!)

Your Project

- Advocating for responsible risk taking
- Advocating for testing (and knocking down harmful testing myths)
- Advocating for testing role
- Advocating for testability
- Negotiating scope and mission of testing
- Moderating testing load by controlling the pace of development
- Acquiring time, information, and other resources needed for good testing
- Nurturing the relationship between development and testing (social distance vs. critical distance)
- Evaluating the need for testing— and knowing when to stop
- Assessing the status and quality of testing (via interview, observation, audit testing, escaped bug review)
- Communicating test results and discussing implications for product risk

Other People Who Test

- Recruiting people to test (including volunteers and part-timers)
- Advocating for reasonable developer-level testing and build checking.
- Fostering diversity of temperament, skills, and methods in the testing process
- Setting reasonable expectations for testers and the test process
- Fostering powerful and clear ways to explain and discuss testing
- Teaching people to test faster, more thoroughly, or both
- Organizing test events (i.e. "bug hunts" "testing days")
- Observing and interviewing people about their testing
- Supporting people as they are testing (e.g. providing tools, data, environment support, record keeping)
- Fostering lean, helpful documentation
- Creating better tools for testers to use; automating the simpler checks

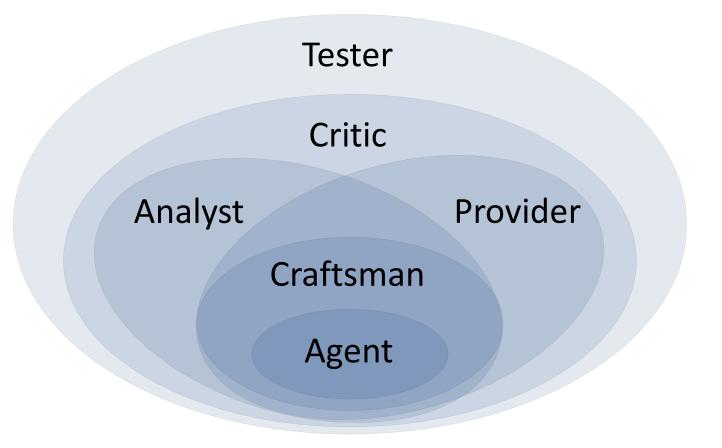
Activities of Meta-Testing

Yourself

- Developing your professional mentality
- Developing your testing methodology
- Developing yourself as a coach and trainer
- Building credibility so you will be heard
- Developing yourself as a meta-tester (that's meta-meta-testir

Your Project

- Advocating for responsible risk taking
- Advocating for testing (and knocking down harmful testing m
- Advocating for testing role
- Advocating for testability
- Negotiating scope and mission of testing
- Moderating testing load by controlling the pace of development



Each of these mentalities is a independent way of thinking to some degree, but the outer ones depend on the foundation provided by the inner ones.

The agent mentality is about being an adult; taking control of your own choices and actions, and taking responsibility for your decisions. You avoid being objectified, commodified, or victimized—but when that happens you take action to regain agency. All the other mentalities depend on agency.

Agent

"I make choices for myself.

I am accountable for my choices."

The craftsman mentality is about assuring the quality of your own work; seeking to be ever better at whatever you choose to do with your life. Craftsmanship means taking the time to do with your life. Craft, whatever that is. And when and energy to study your craft, whatever that is. And when your work is not good enough, it means you make it right.

Craftsman

Agent

"I take pride in my work."
I strive to be better in my work."

The analyst mentality includes the skills and attitudes of studying complex things, modeling them, and applying those models. It requires the courage to deal with things that are confusing and poorly explained. It require curiosity. It involves the design and application of heuristic problemsolving methods.

Analyst

Craftsman

Agent

"I study the world and figure it out."

The service provider mentality is about being useful to others. It's about being able to do a job for money, deliver the goods, and get along with people while you do so. There are different ways to succeed as a provider, including being especially sociable or especially reliable.

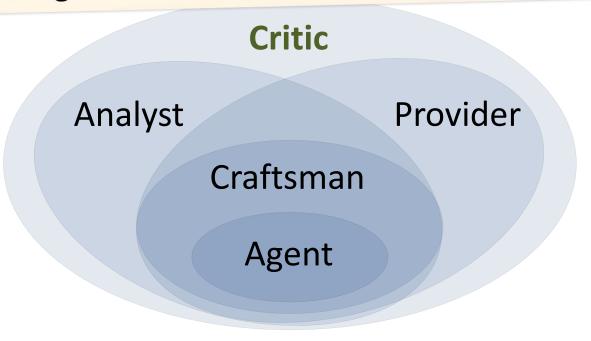
Provider

Craftsman

Agent

"I serve; I support; I provide."

The critic mentality includes the skills and attitudes of thinking critically and scientifically. It's the art of productively complaining. It's the habit of questioning safe assumptions. It requires faith that there are problems here even if you haven't yet found them. You can't be a good tester if you are a poor critic.



"I will find trouble wherever I look!"

Tester

The tester mentality adds all the nuts and bolts of designing specific tests for your specific product. It includes how to operate your product, how to use tools, wrangling of test data, configuring test environments, and all that nitty gritty.

"I evaluate the product so my client can make good decisions about it."

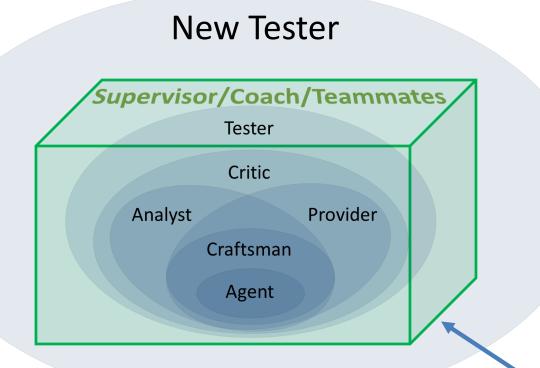
The One Mentality of New Tester

New Tester

I guess I'll muddle through and look for bugs?

"Please don't fire me."

The One Mentality of New Tester



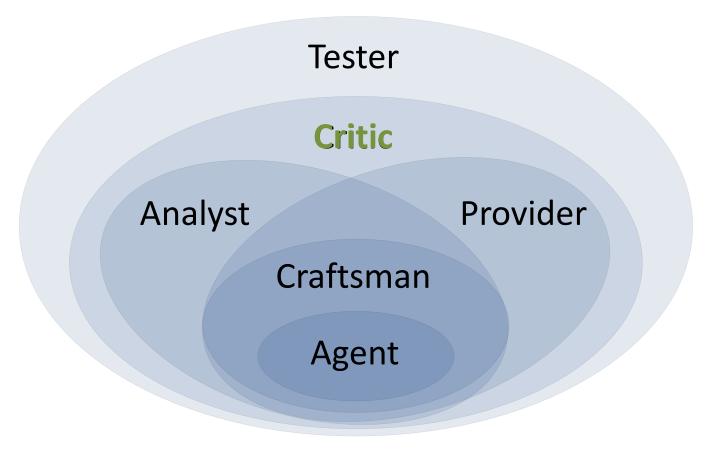
"Please don't fire me, I learn fast." Good testers become that way most rapidly when properly supervised, coached, and trained. It is a lengthy growth process, not about following scripts.

The One Mentality of Fake Testing

Fake Tester

Push buttons. Check output.
Follow scripts. Tick boxes. Move cards.
Don't ask why, just obey.

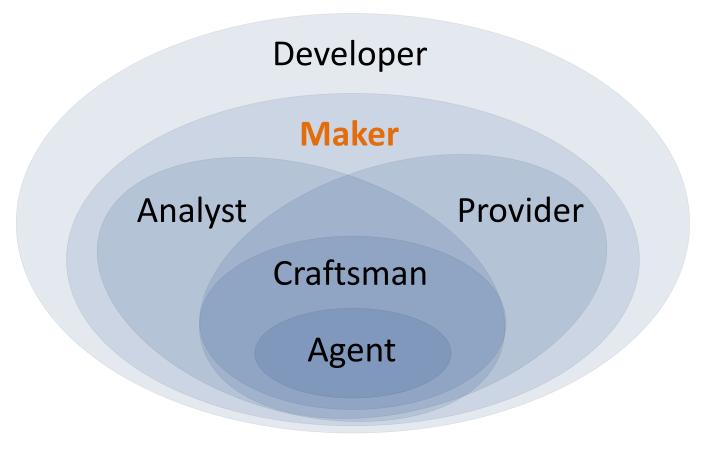
"Don't fire me,
I am ISTQB certified."



"I will find trouble wherever I look!"

The developer mentality has much in common with that of a tester... but there is one huge difference.

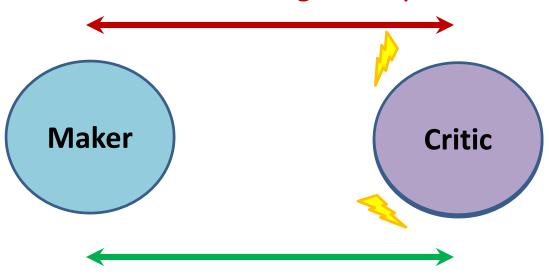
Six Mentalities of Development



"I invent things that end your troubles!"

Critical Distance and Social Distance A Creative Tension

Social distance is generally bad.



Critical distance is generally good.

Whither the Testing Role?

The testing specialist role
is a heuristic
for developing, operating, and expressing
good testing mentality across the organization.

(Because complicated things don't just happen unless someone commits to it.)

Scope (what the role covers)

- Responsibilities
- What depends on it
- What it depends on

Power (what the role influences)

- Authority/Sponsorship
- What roles control it
- What roles it controls

Value (what the role does for people)

- Specific problems solved
- Necessity to organization
- Desirability to others
- Prestige for actor

Cost (what the role takes from people)

- Cost of the actor, equipment, and materials
- Cost to accommodate the role
- Cost due to other roles becoming complacent

Requirements (what role/actor needs)

- Environment & tools
- Skills & knowledge
- Motivation
- Outside support

Openness (how actors relate to it)

- Ownership & commitment
- Casual shareability
- Informality
- Interruptability
- Simplicity
- Legibility

Presence (when & where it operates)

- Persistence
- Responsiveness
- Disruptiveness

Elements of Role

http://bit.ly/2c062wN

Dimensions Of Role

Expectations Of Actors

Commitment (acceptance of duty)

- Investment of energy
- Accountability

Competence (ability to perform)

- Study and practice
- Self-evaluation

Readiness (operational status)

- Anticipating events
- Adapting to new conditions
- Maintaining efficiency
- Troubleshooting

Coordination (relating to other roles)

- Mission negotiation
- Resource negotiation
- Helping and accepting help
- Respecting agreements
- Failover strategy
- Status reporting
- Delivery

Why do some people think a role is a prison or a fortress?

This happens when role is defined as the only things you do and what no one else does.



I like to think of roles this way.

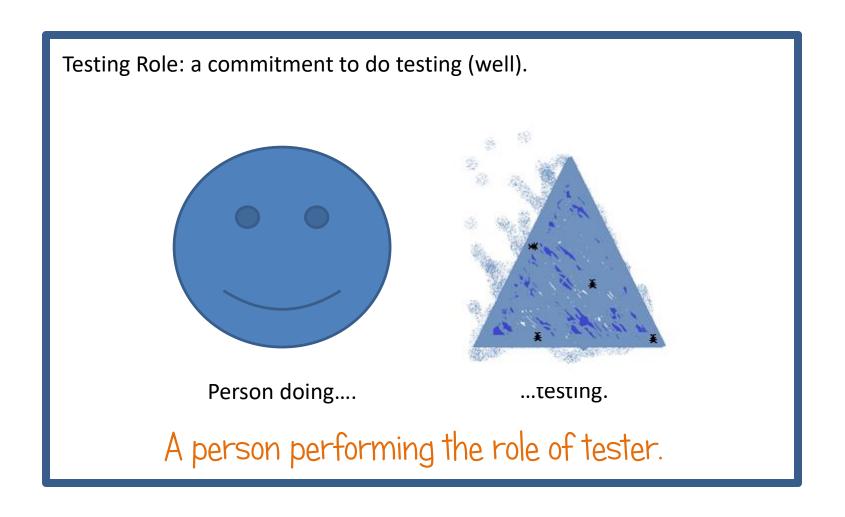
A role is like a villa. It is a semi-private space. Someone dwells in it. Someone is responsible. But visitors may

come and help.

- Devs help testers.
- Testers help devs.
- But testers are ACCOUNTABLE for test process.



People can help us without taking over our role.



So, maybe this is your context...

No one else cares about testing. You care about testing!

Or this...

Everyone else cares about "testing" which is not really testing.

You care about testing!

I hope this is the one.

Everybody cares about testing but they are really busy and need help to do it well and make it better.

You care about testing!

Activities of Meta-Testing

Testers are turning

into meta-testers.

(or else...)

Yourself

- Developing your professional mentality
- Developing your testing methodology
- Developing yourself as a coach and trainer
- Building credibility so you will be heard
- Developing yourself as a meta-tester (that's meta-meta-testing!)

Your Project

- Advocating for responsible risk taking
- Advocating
- Advocating
- Advocati
- Negotiati
- Moderati
- Acquiring
- Nurturinę
- Evaluatin
- Assessing
- Commun

Other People

- Recruitin
- Advocating
- Fostering diversity or temperament, skins, and methods in the testing process
- Setting reasonable expectations for testers and the test process
- Fostering powerful and clear ways to explain and discuss testing
- Teaching people to test faster, more thoroughly, or both
- Organizing test events (i.e. "bug hunts" "testing days")
- Observing and interviewing people about their testing
- Supporting people as they are testing (e.g. providing tools, data, environment support, record keeping)
- Fostering lean, helpful documentation
- Creating better tools for testers to use; automating the simpler checks

ce)

ıg review)