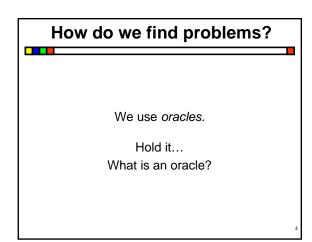


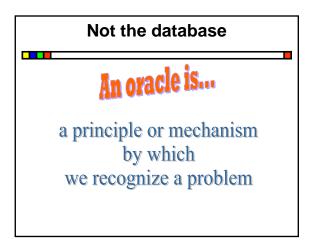
What Is Testing?

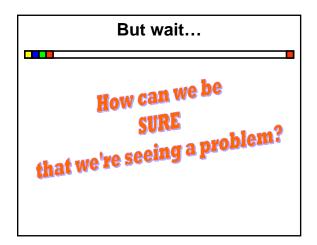
- Questioning a product in order to evaluate it
 - James Bach
- Gathering information with the intention of informing a decision
 - Jerry Weinberg
- An empirical, technical investigation of a product, done on behalf of stakeholders, with the intention of revealing quality-related information of the kind that they seek.
 - · Cem Kaner



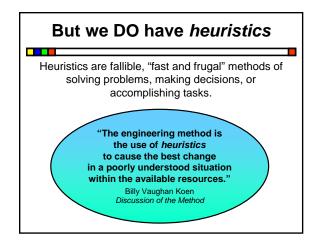


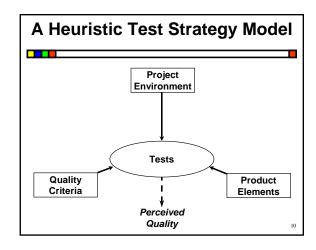


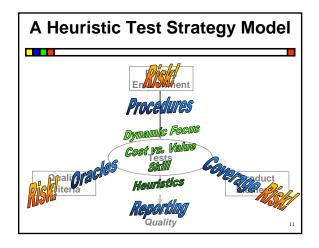








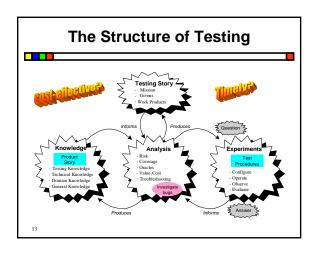


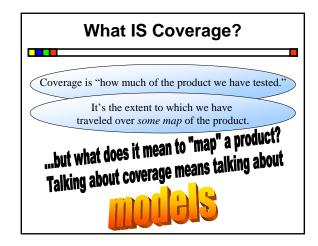


To test is to compose, edit, narrate, and justify two parallel stories.

You must tell a story about the product...
...about how it failed, and how it might fail...
...in ways that matter to your various clients.

But also tell a story about testing...
...how you configured, operated and observed it...
...about what you haven't tested, yet...
...or won't test, at all...





Models

A model is a heuristic idea, activity, or object...

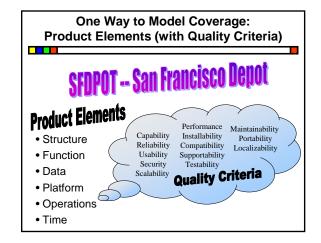
such as an *idea in your mind*, a *diagram*, a *list of words*, a *spreadsheet*, a *person*, a *toy*, an *equation*, a *demonstration*, or a *program*

- ...that represents (literally, re-presents) another idea, activity, or object...
 - such as something complex that you need to work with or study
- ...whereby understanding something about the model may help you to understand or manipulate the thing that it represents.
- A map is a model that helps to navigate across a terrain.
- 2+2=4 is a model for adding two apples to a basket that already has two apples.
- Atmospheric models help predict where hurricanes will go.
- A fashion model helps understand how clothing would look on actual humans.
- Your beliefs about what you test are a model of what you test.

There are as many kinds of test coverage as there are ways to model the system.

Stricture Asias Ist Time
Incline Maintain Incline Ist
And cach could be...

Intentional or... Accidental

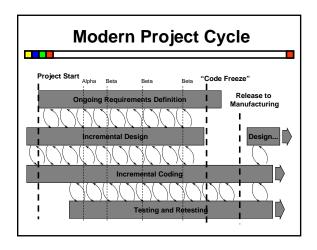


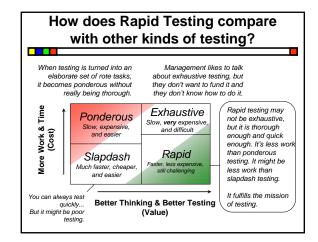
Extent of Coverage

With respect to each model.

· Smoke and sanity

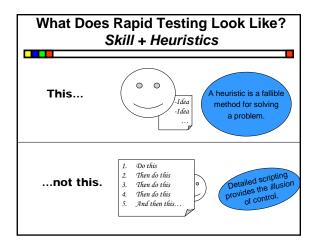
- Can this thing even be tested at all?
- Common and critical
 - Can this thing do the things it *must* do?
 - Does it handle happy paths and regular input?
 - Can it work?
- · Complex, extreme and exceptional
 - Will this thing handle challenging tests, complex data flows, and malformed input, etc.?
 - Will it work?

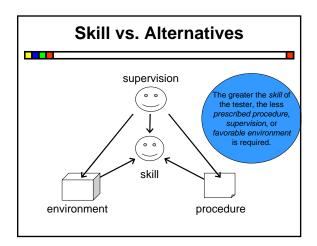


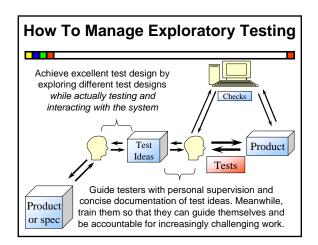


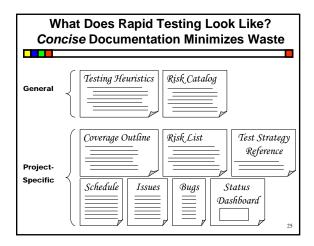
The Themes of Rapid Testing

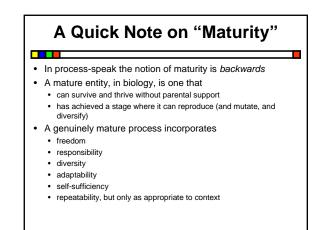
- Put the tester's mind at the center of testing.
- Learn to deal with complexity and ambiguity.
- · Learn to tell a compelling testing story.
- Develop testing skills through practice, not just talk.
- Use heuristics to guide and structure your process.
- Be a service to the project community, not an obstacle.
- Consider cost vs. value in all your testing activity.
- Diversify your team and your tactics.
- Dynamically manage the focus of your work.
- Your context should drive your choices, both of which evolve over time.











Acknowledgements

 Much of the material in this presentation is from the class "Rapid Software Testing", by James Bach and Michael Bolton