

ANNE-MARIE CHARRETT  
TESTING TIMES

# DISRUPTIVE TESTING





@CHARRETT



# Your plan







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“The black swan theory or theory of black swan events is a metaphor that describes an event that comes as a surprise, has a major effect, and is often inappropriately rationalized after the fact with the benefit of hindsight. ”

NASSIM NICHOLAS TALEB

"average cost of IT projects overrun is only 27%"

"1 in six had a cost overrun of 200% and a schedule overrun of almost 70%."

BENT FLYVBJERG & ALEXANDER BUDZIER, SEPTEMBER  
2011, "WHY YOUR IT PROJECT MAY BE RISKIER THAN  
YOU THINK", HARVARD BUSINESS REVIEW

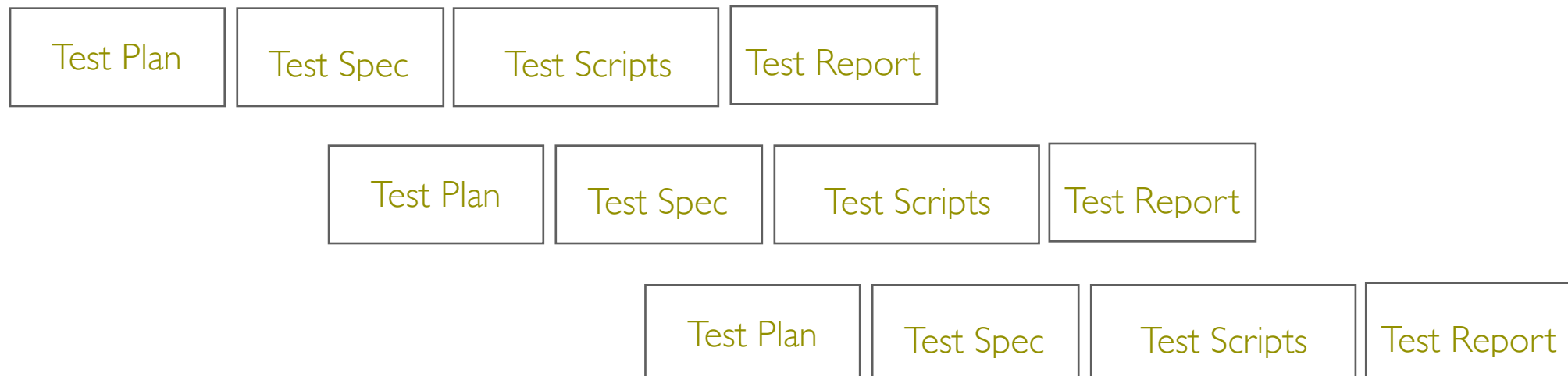
# THE ORDER

## WATERFALL TEST PROCESS



designed in 1950

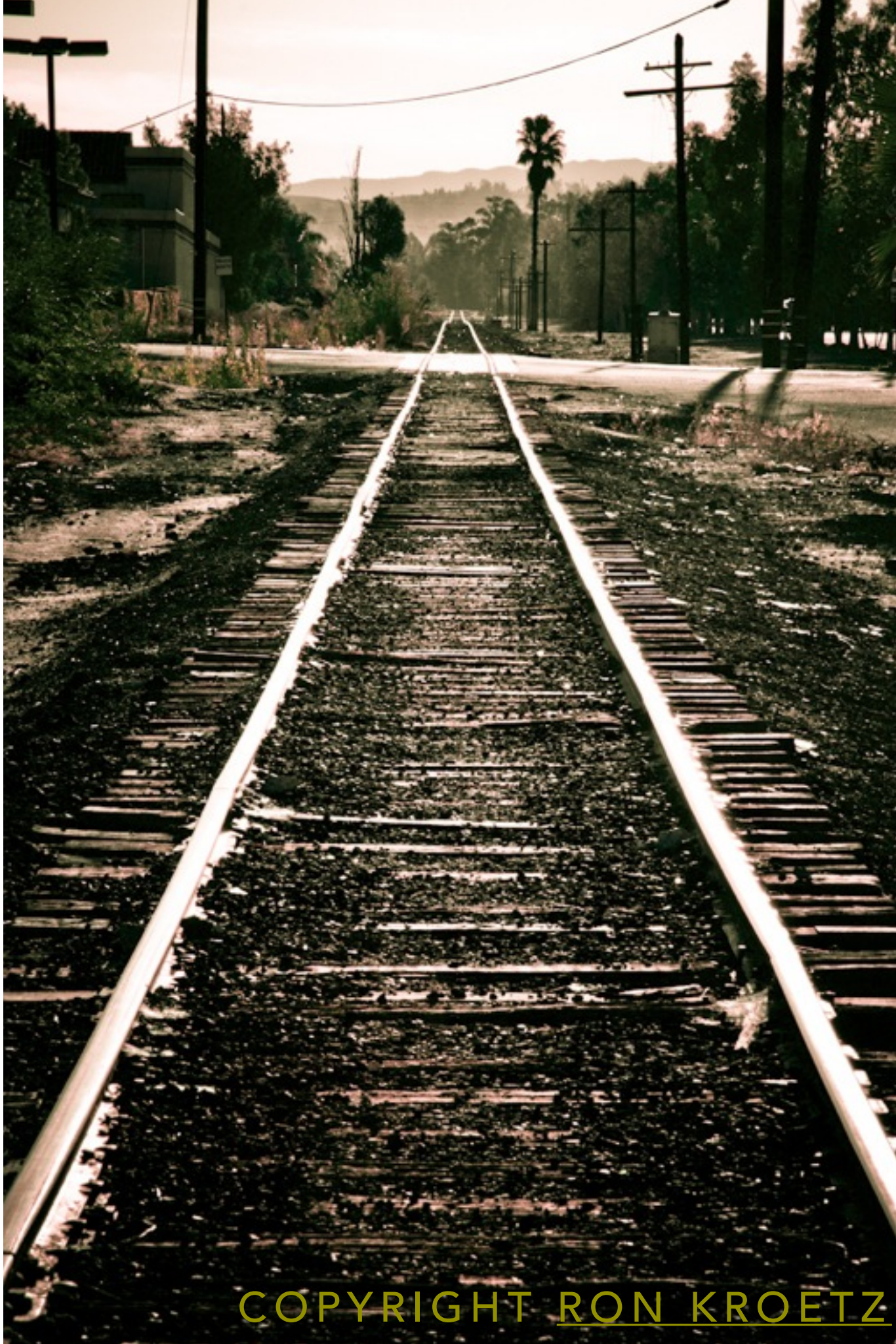
## AGILE TESTING PROCESS





# DETERMINASTIC TESTING

- Meticulous adherence to test process
- Try and predict accurate estimates
- Try and predict number of bugs to be found
- Lock down mentality





AVOID PREDICTION

FOCUS ON ORGANIZATIONS AND INDIVIDUALS THAT ARE PREPARED  
& EMPOWERED TO DEAL— MENTALLY, POLITICALLY, AND  
EMOTIONALLY—WITH SURPRISES  
BECOME ROBUST  
-MICHAEL BOLTON

WE FOCUS ON TESTING, WE FOCUS ON SKILL.





PROCESS

TOOLS

ACTIVITY

# THE AGE OF THE THINKING TESTER

- CRITICAL THINKING
- LATERAL THINKING
- COMPLEXITY
- TESTING SKILL
- COMMUNICATION
- OPINION
- COMMUNITY





# GEOMETRIC RISK ANALYSIS HEURISTICS

**Cardinality:** Can there be 0, 1, or more than one object?

**Boundaries:** Is there a limit? More than one? Are different limits consistent?

**Extrapolation:** If we can go THIS far, can we go FARTHER?

**Interpolation:** If two things exist in different places, does something exist between them?

**Intersection:** Do components collide? Can one contaminate another?

**Surfaces:** How does behavior change along different dimensions simultaneously?  
(combinatorial testing)

**Symmetry:** If a behavior exists for A, does a corresponding behavior exist for B?

**Pattern Completion:** Is a pattern apparent that has not yet been completed, or is obscured (all customary parts of a shape)?

**Negation:** Whatever is there, might not be there, or might disappear.

OZWST2014: Anne-Marie Charrett, James Bach, Dean McKenzie, Kim Engel, Rita Manning, Angela Baird,  
Joey Corea, David Greenlees, Mags Dineen, Sigge Birgisson, Richard Robinson

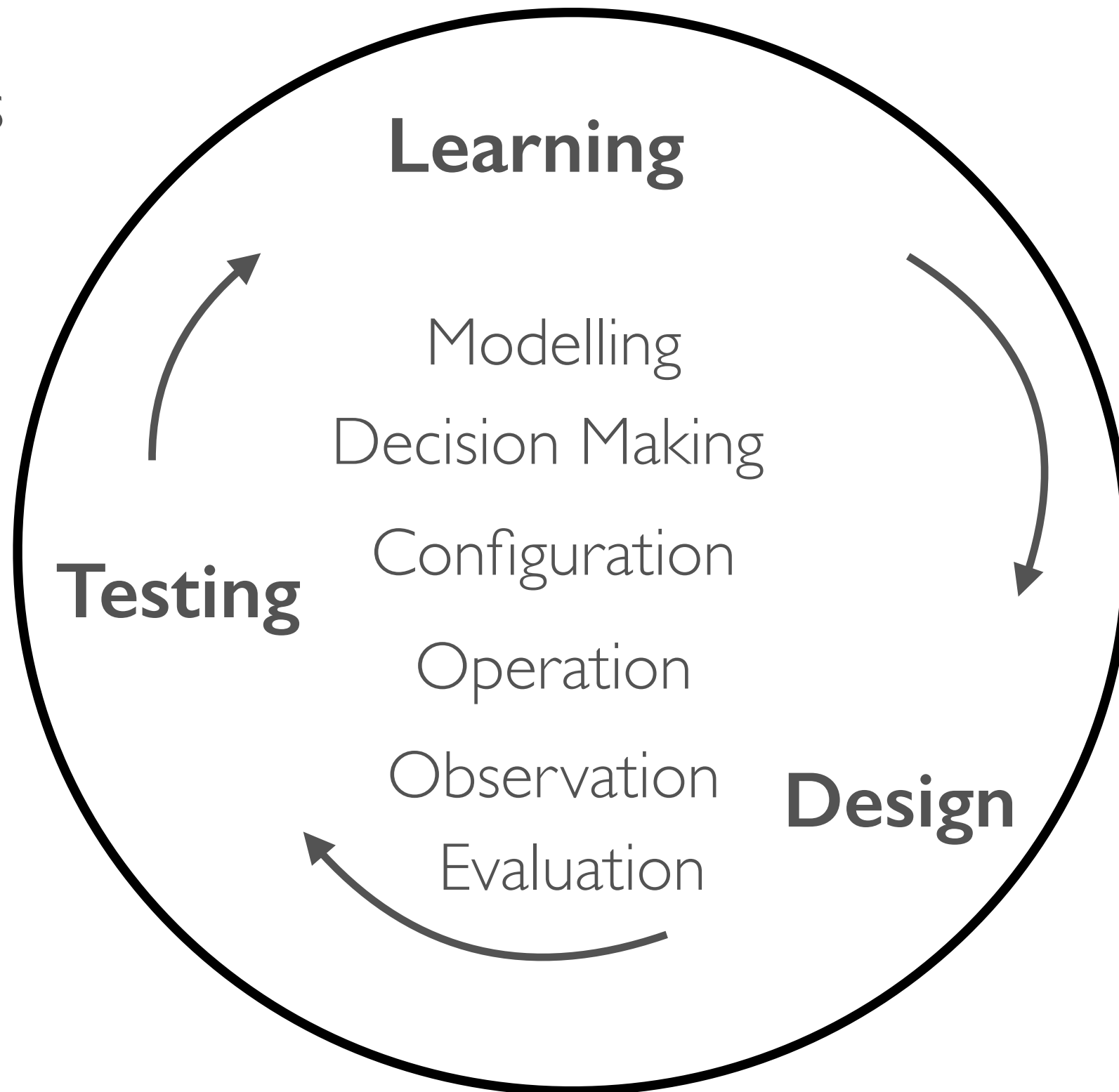
# HABITAT

- AUTONOMY
- COLLABORATION
- CONTINUOUS SELF LEARNING
- EMPOWERMENT
- SAFETY



# EXPLORATORY TESTING

Activities



# TESTER CENTRIC

Learning

Autonomy  
Responsibility



Self Awareness  
Courage  
Mental Engagement

Design

Testing



# PROCESS



# HEURISTICS

A HEURISTIC  
IS A FALLIBLE  
METHOD OF  
SOLVING A  
PROBLEM OR  
MAKING A  
DECISION.





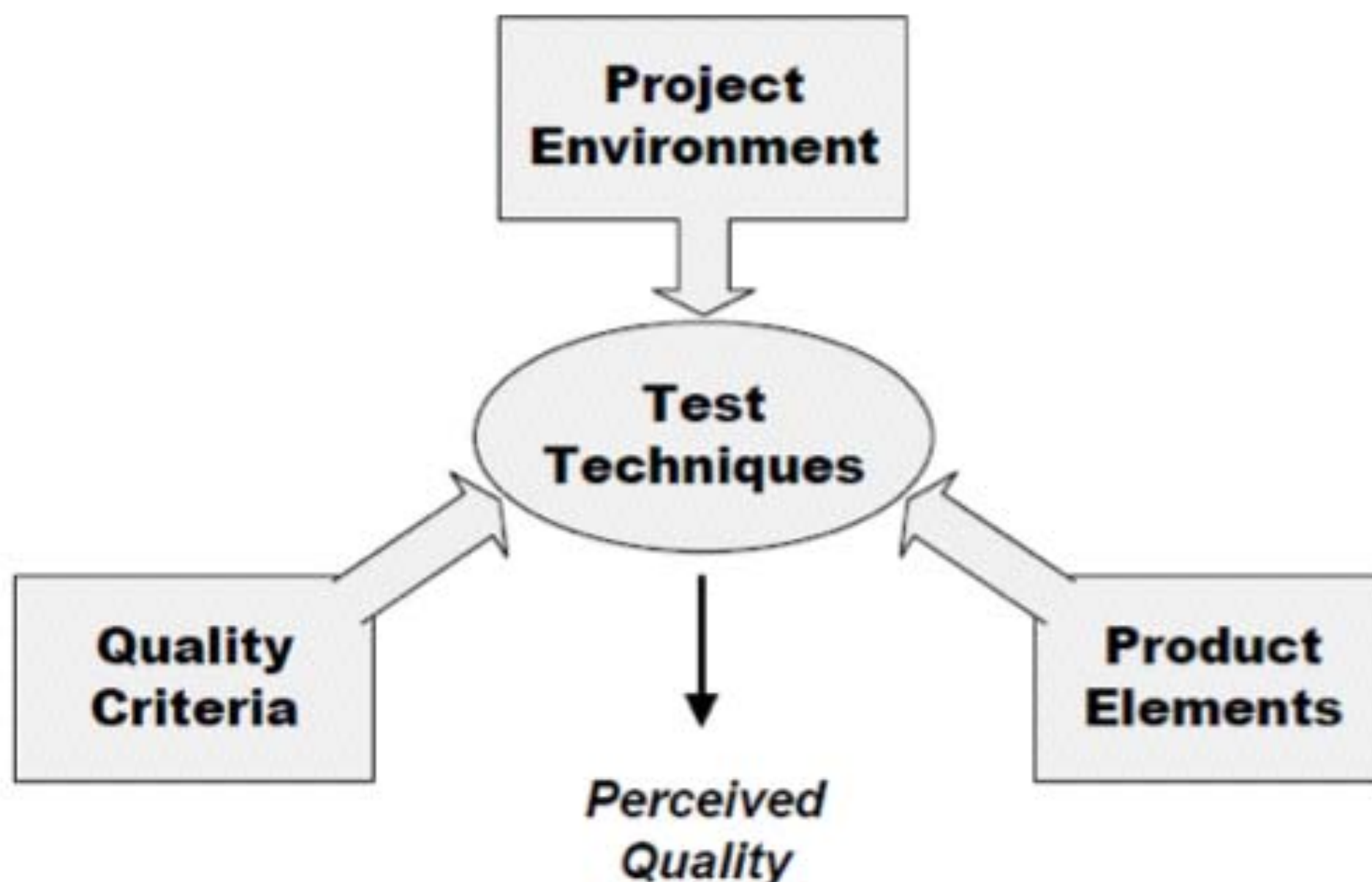
Imagine you are buying three items at a shop. These are the prices:

- \$19.95
- \$39.98
- \$29.97

About how much money are you spending?

A rounding heuristic

# Heuristic Test Strategy Model





# WE CANNOT PREDICT THE UNPREDICTABLE

"we can expect the unpredictable, anticipate it to some degree, manage it as best we can, and learn from the experience."

—MICHAEL BOLTON

THANK YOU  
&  
ANY QUESTIONS?

AVAILABLE FOR  
TRAINING, COACHING & CONSULTING

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<http://context-driven-testing.com>



## Registrations open for Let's Test Oz 2014!

Register now to get the whole conference package including tutorials, lodging and meals for only \$2400 AUD. Remember that both the tutorials and the conference as a whole have a limited number of seats. Make sure to register right away to attend the tutorial of your choice.

[Register here!](#)



For those about to rock...