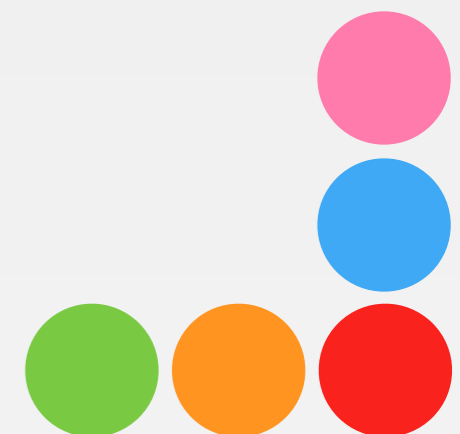


Cost-Saving Strategies for Testers

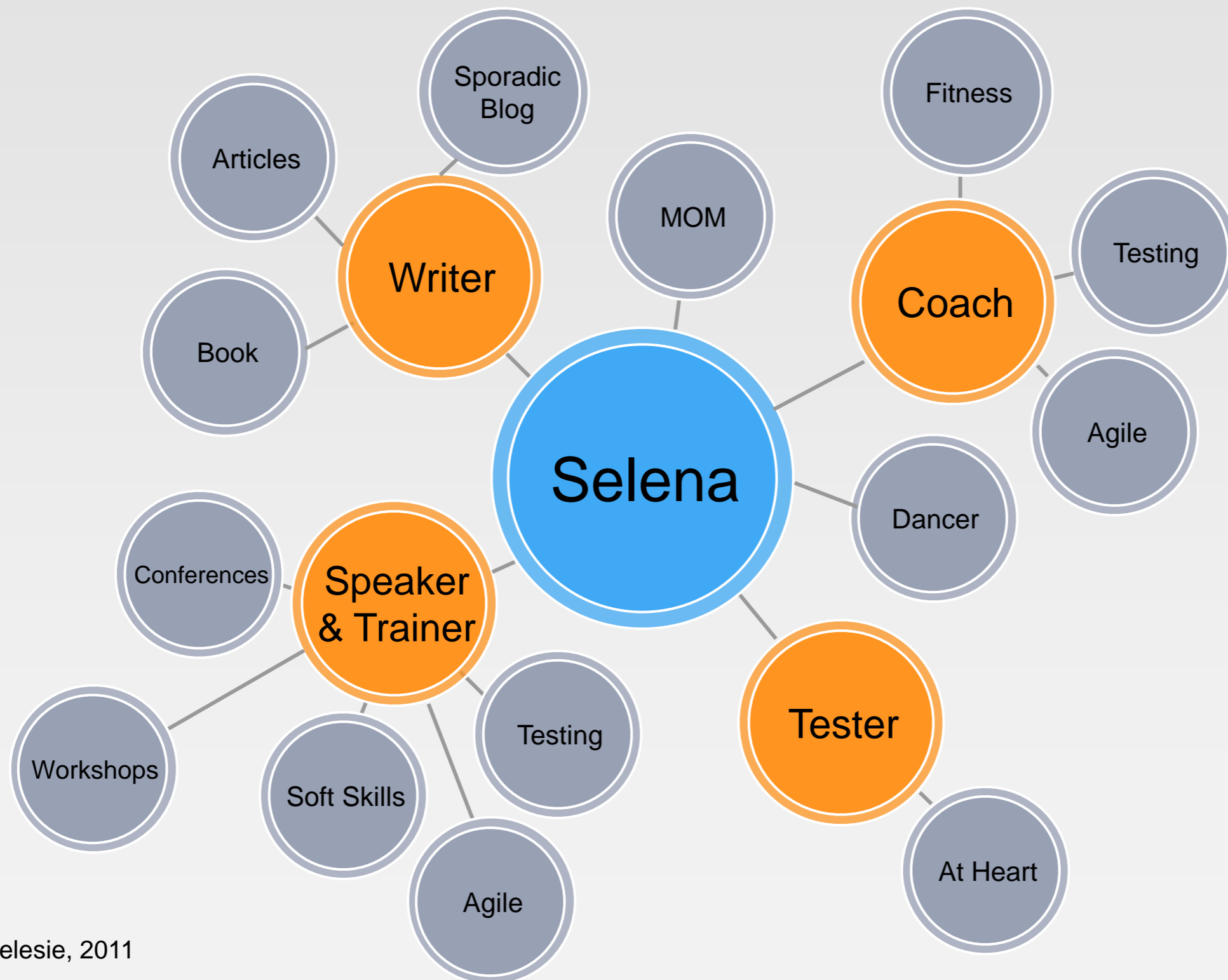


Agenda

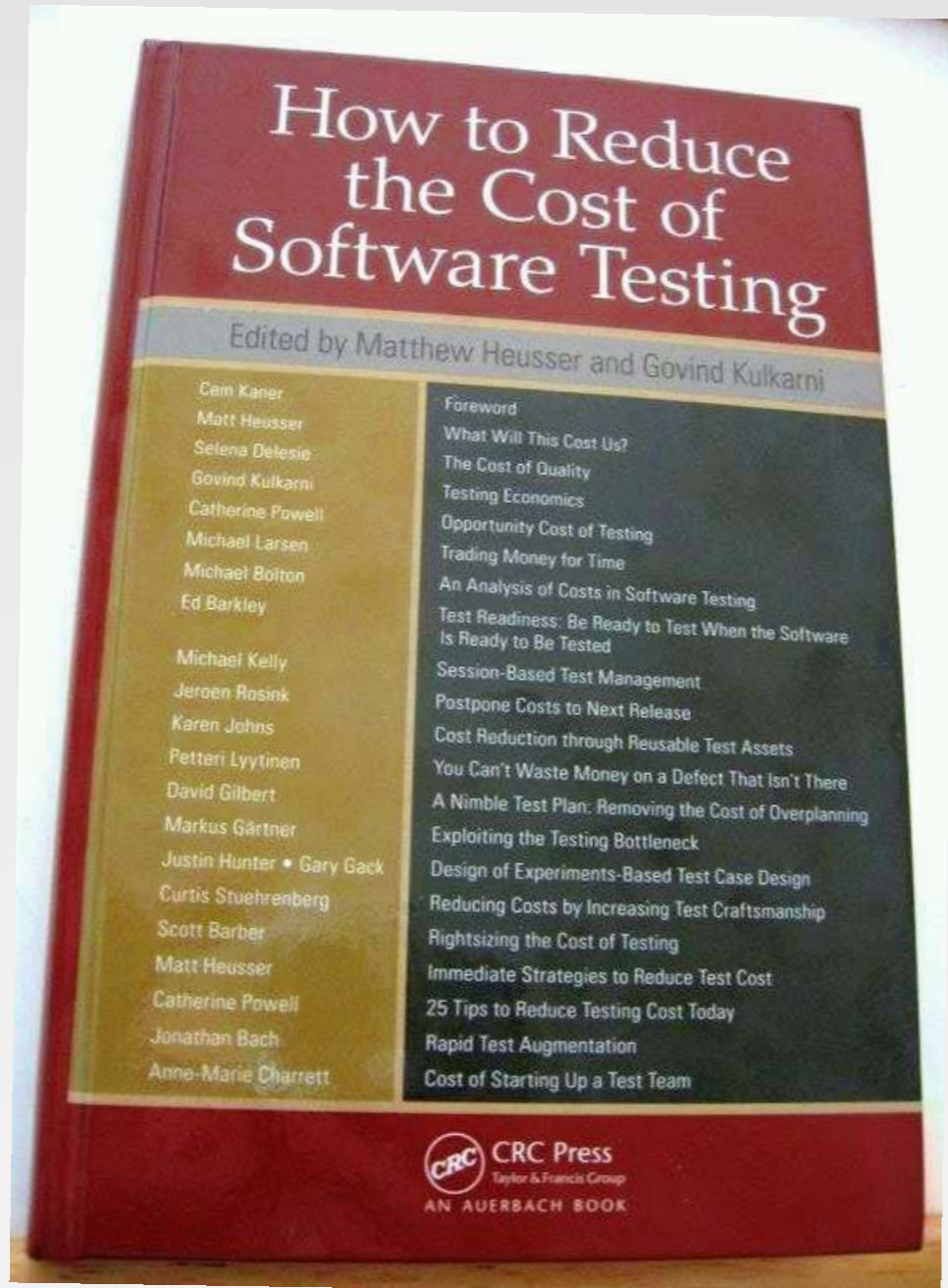
1. Introduction
2. Why Bother
3. 5 Cost-Saving Strategies (that work)
4. Wrap-up
5. Q&A



Who Am I?



We Made a Book



- ▶ LinkedIn Discussion
- ▶ An Idea
- ▶ Twitter
- ▶ Invitation
- ▶ 1.5 Years Later



Why Bother?

- ▶ Can't test everything
- ▶ Not enough time
- ▶ Not enough people
- ▶ Release dates
- ▶ Money



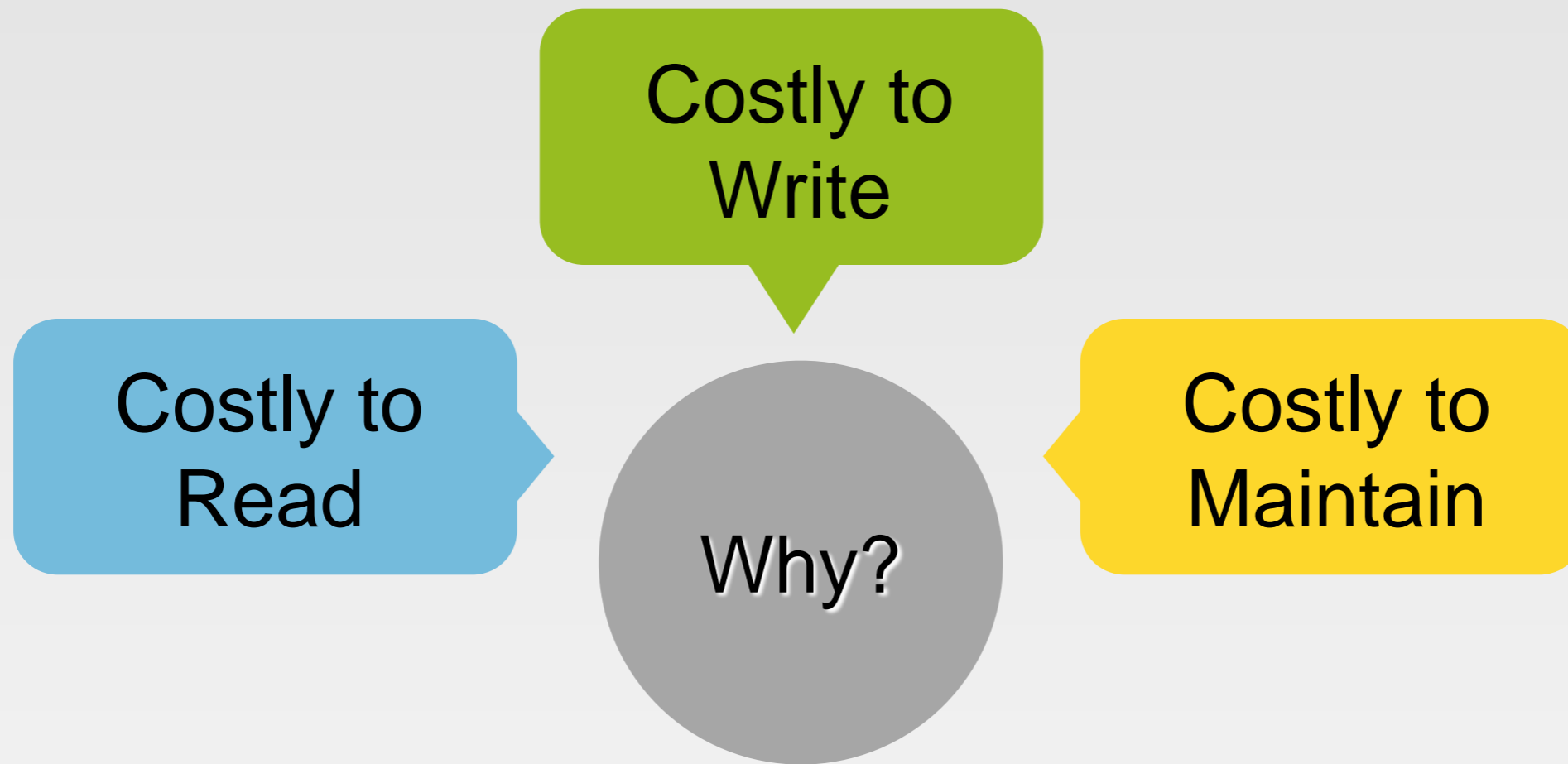
What Does It Mean?

- ▶ Focus on the right activities
- ▶ Valuable activities provide more / new information about a product
- ▶ Waste = non-value add activity

*We eliminate / reduce waste in test process
to reduce costs without incurring risk.*



#1 - Minimal Documentation

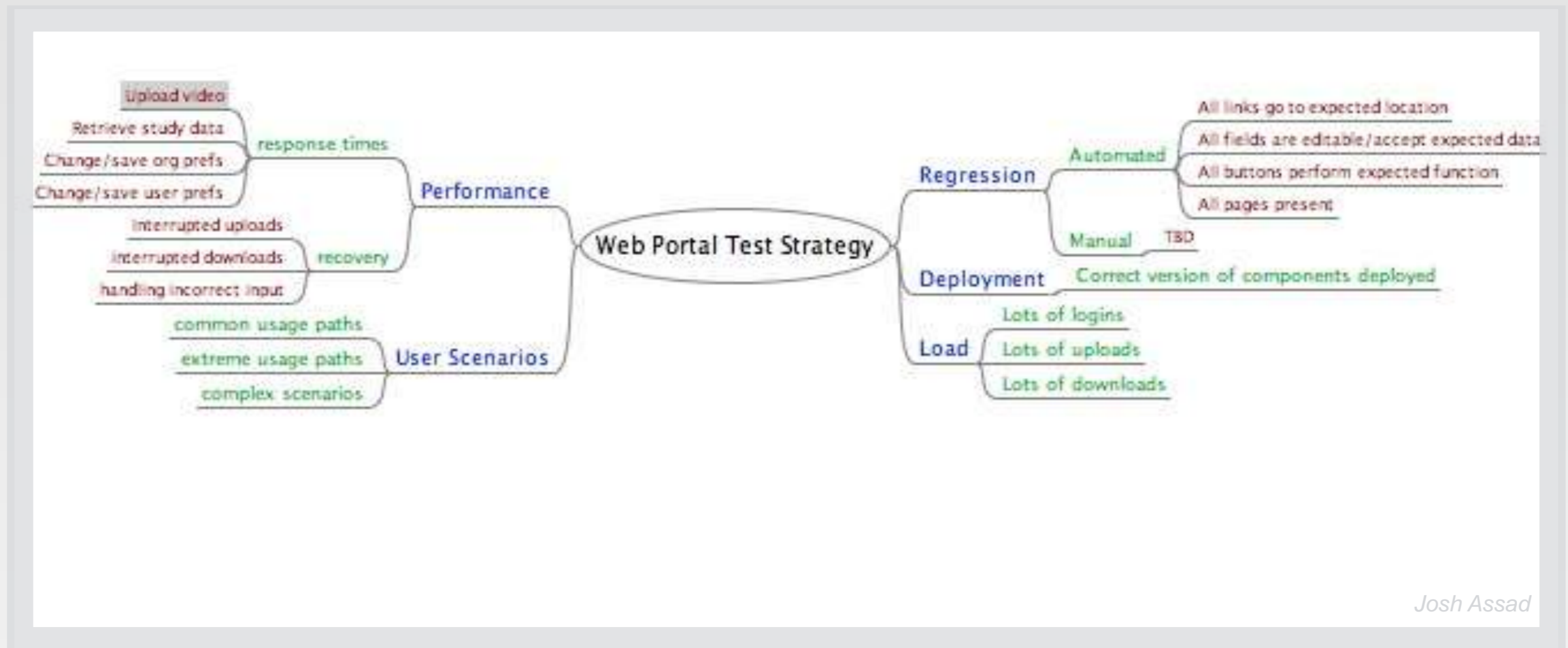


Minimal Documentation in Action

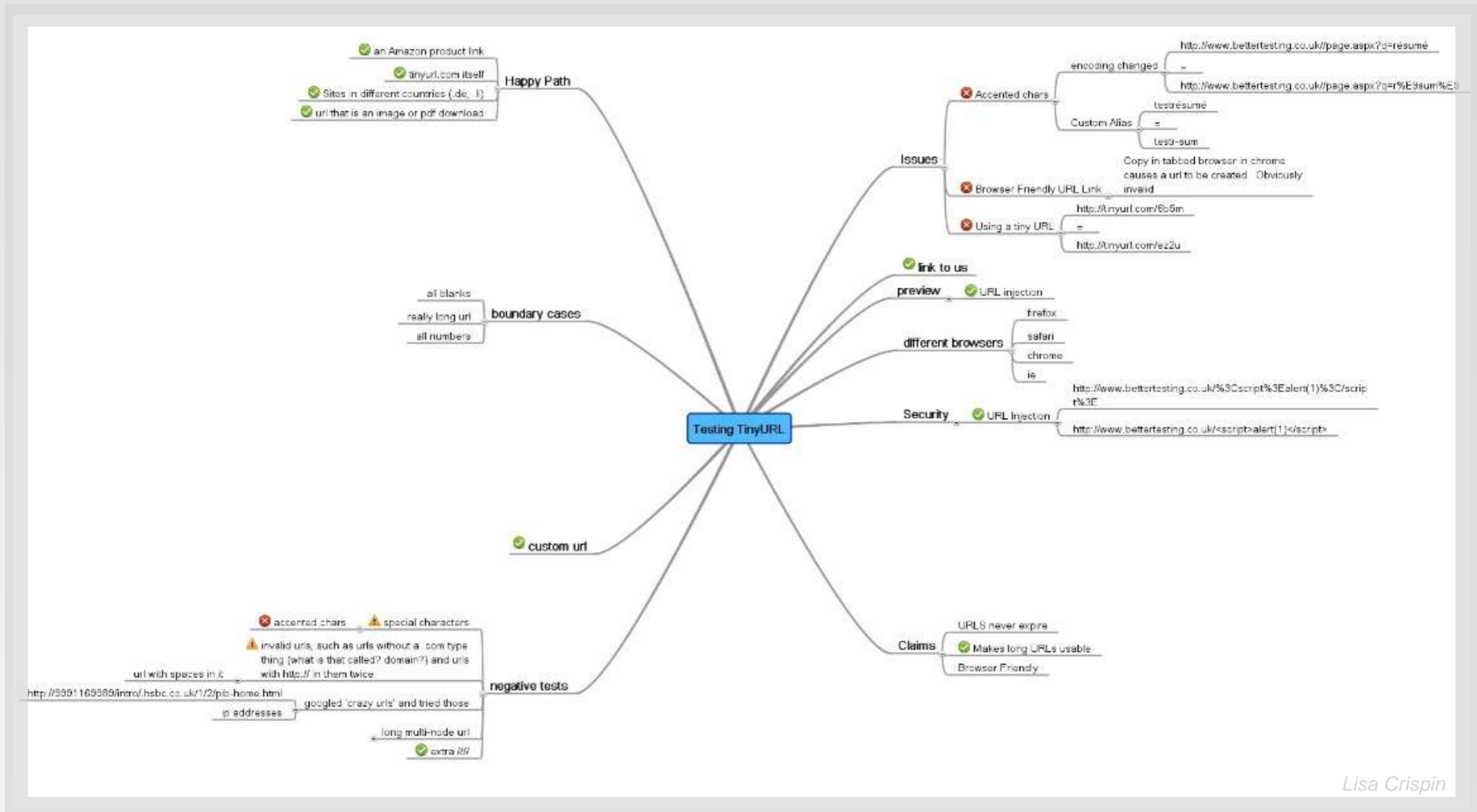


Refactor Information

Lightweight Test Strategy



Lightweight Test Plan / Cases



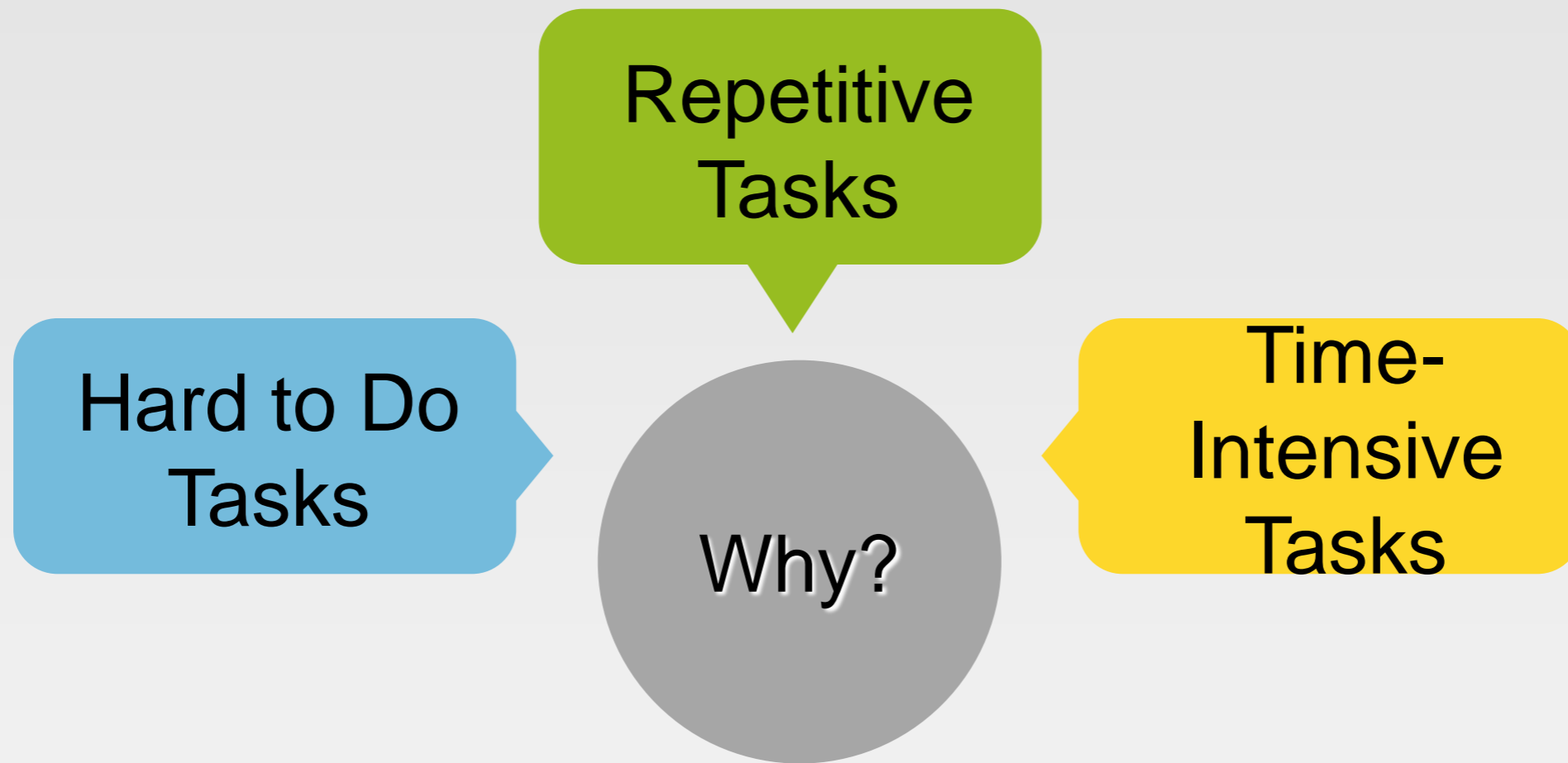
Lisa Crispin

Lightweight Test Report

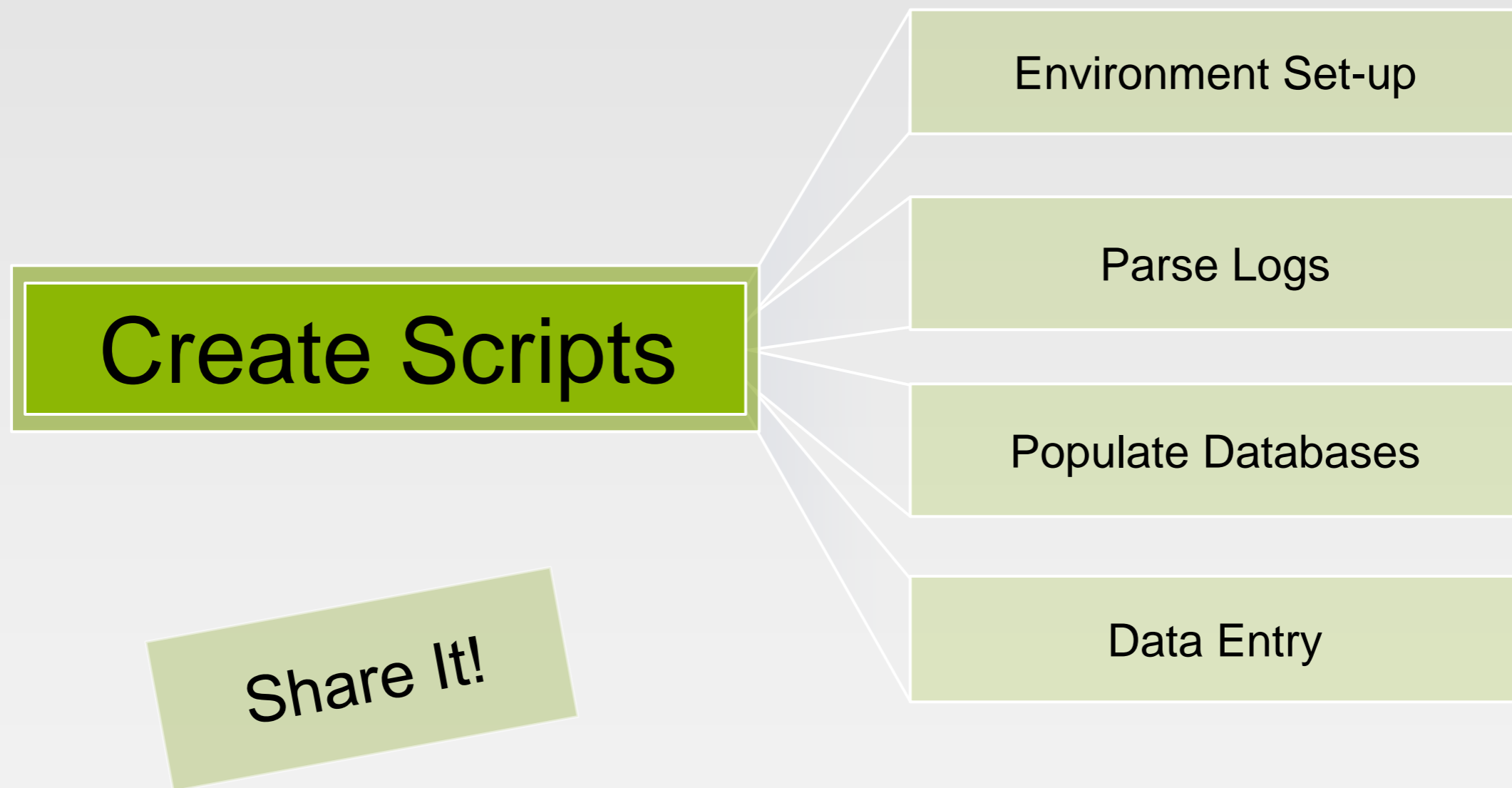
Area	Effort	Coverage	Quality	Comments
Installation	High	2+	Yellow	Install guide issues
Subscriptions	High	2	Red	No way for user to cancel subs
Pay Per View Events	Pause	3	Red	Payment fails, still able to view
Interactive Voice Response	Low	1	Yellow	50% flow coverage
Reporting	Go Live	2	Green	Critical reports covered
Payment Methods	Go Live	1+	Green	CC/DD
User eXperience/Look & Feel	High	3	Red	UX laborious and inconsistent
Performance	Blocked	1	Yellow	Mem leak manifests @ 250 users
Interoperability	Pause	1+	Yellow	WinRunner problems with Java 6
Security	Start 17/04/11	0		Tenable Nessus license required



#2 - Computer-Assisted Testing



Let Your Computer Help You



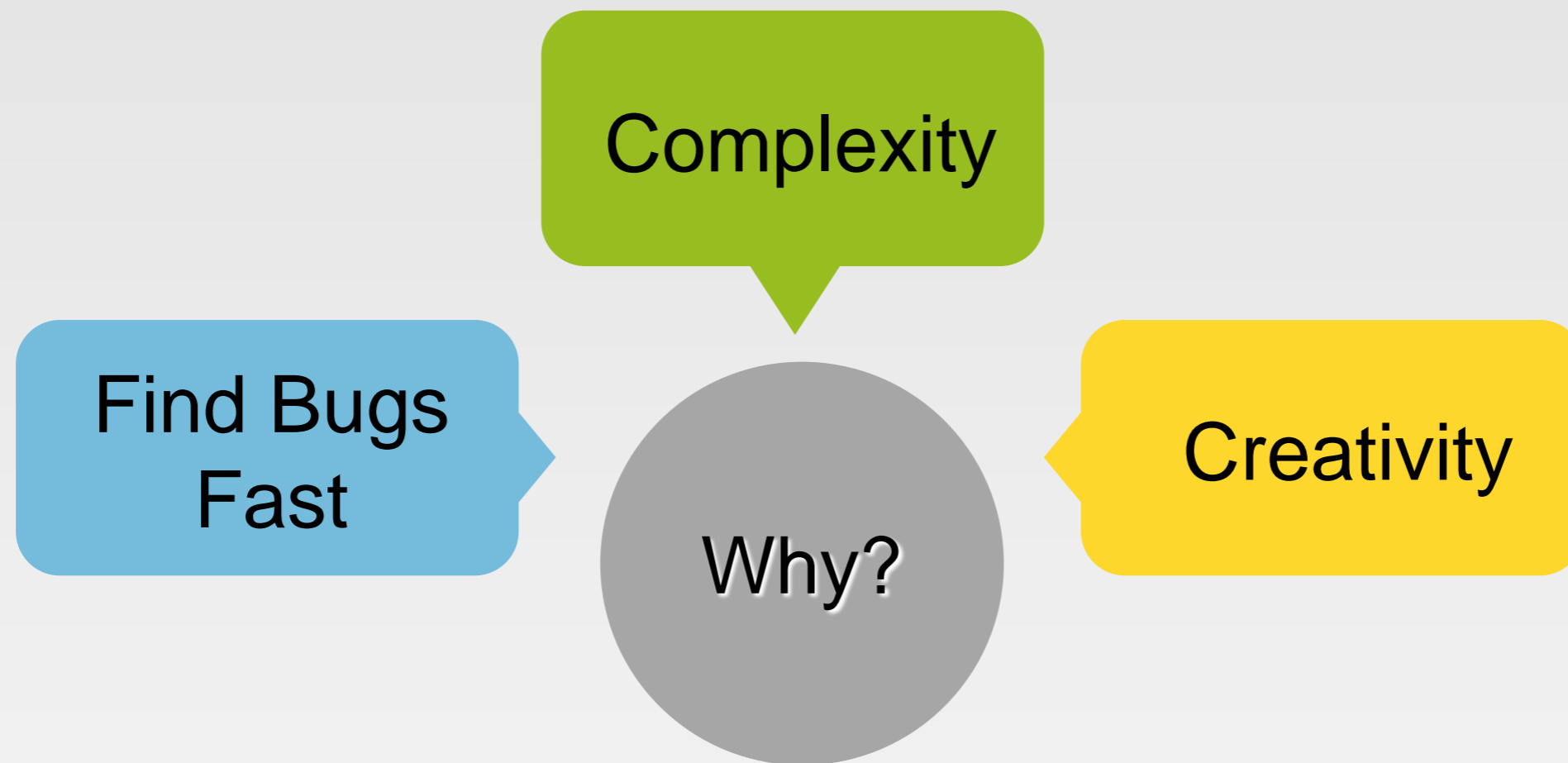
#3 - Communicate



Improve Communication



#4 - Scenario Testing



A Flavour of Scenario Testing

Soap Opera Testing

Create a Story

Reality-Based
Exaggerated
Condensed
Customer-Focused

Aggressively pressure
system to find hidden
problems

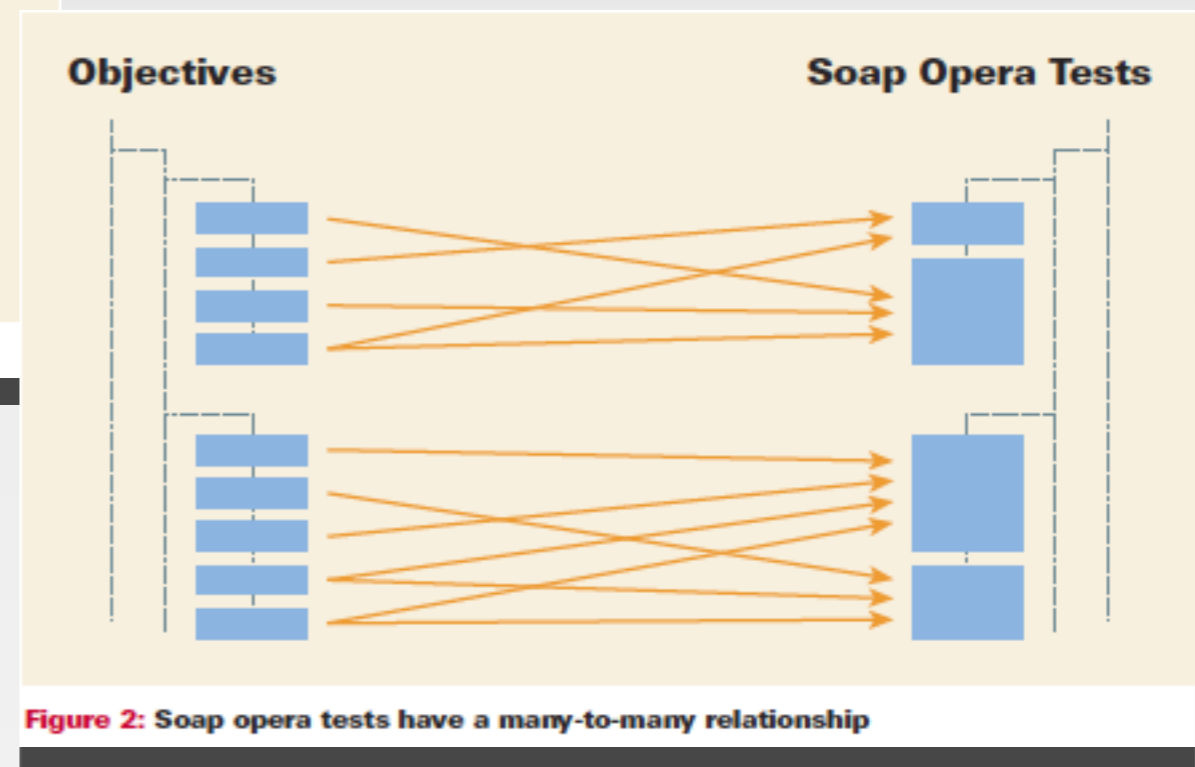
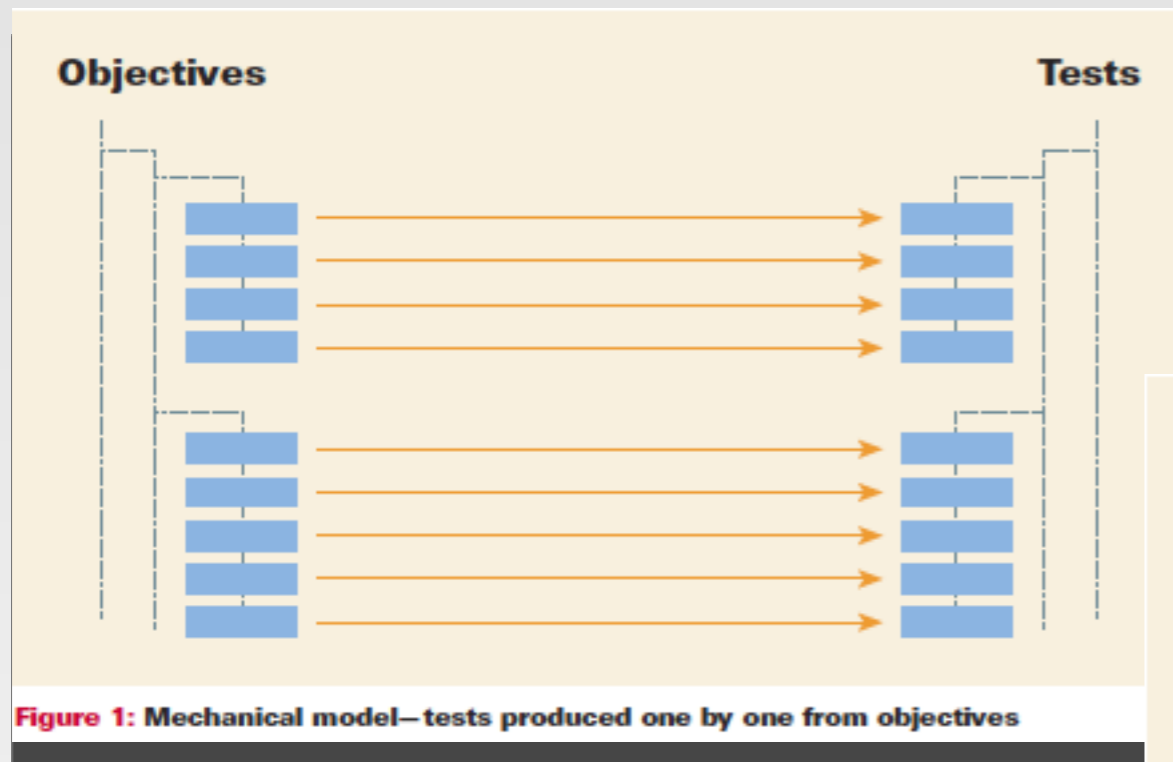
Many factors & inputs
in combination

Reusable characters
with multiple plots
and different episodes

Episode = Test



What About Coverage?



The Rented and the Wrecked

A customer named Brian hires a car for a three-day business trip. Midway through the rental, he extends it for another week. (This, by the way, gives him enough rental points to reach Preferred status.).

Several days later, he calls to report that the car has been stolen. He insists that the Preferred benefit of on-site replacement applies, even though he was not Preferred at the start of the rental. A new car is delivered to him. Two days after that, he calls to report that the “stolen” car has been found. It turns out he’d mis-remembered where he’d parked it. He wants one of the cars picked up and the appropriate transaction closed.

Oh, and one other thing: the way he discovered the mislaid car was by backing into it with its replacement, so they’re both damaged.

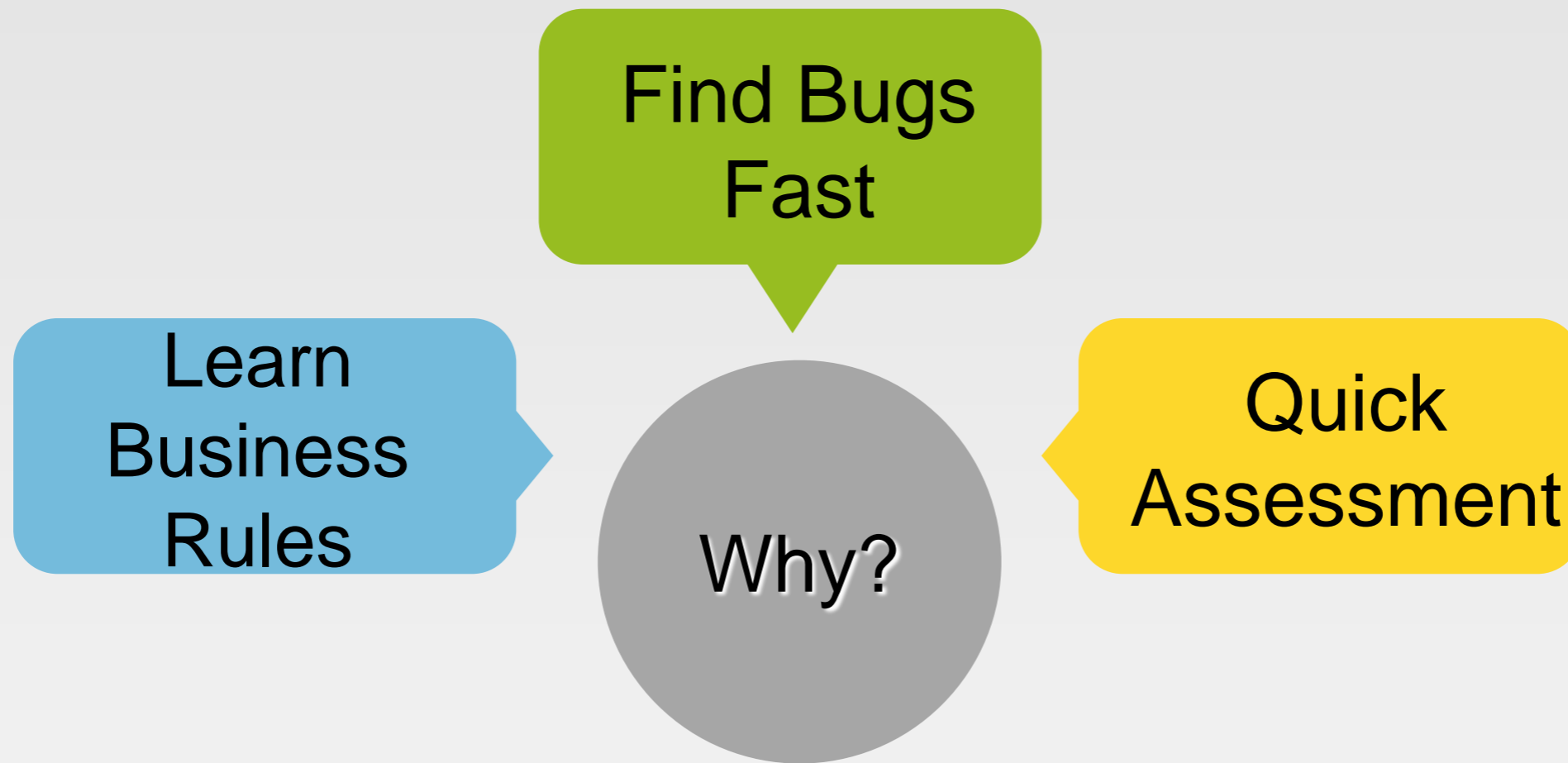
This scenario would test the following conditions:

- Upgrading to Preferred status (during rental)
- Extending a rental
- Handling a stolen car
- On-site replacement
- Undoing on-site replacement
- Undoing handling of stolen car
- Return of a damaged car

Brian Marick, 2004



#5 - Quick Attacks



Try These...

Inputs:
invalid, too
much, out of
range

I18N

Push
beyond
boundaries

Race
Conditions

Process
interrupts

Common
defects





More Ideas...

- ▶ Lightweight Regression
- ▶ Test what Yields Bugs
- ▶ Time-Box Bug Reproduction
- ▶ Examine Invalid Bugs
- ▶ Reusable Automation
- ▶ Automate Business Logic
- ▶ 'Exploratory' Automation
- ▶ No Multi-Projecting





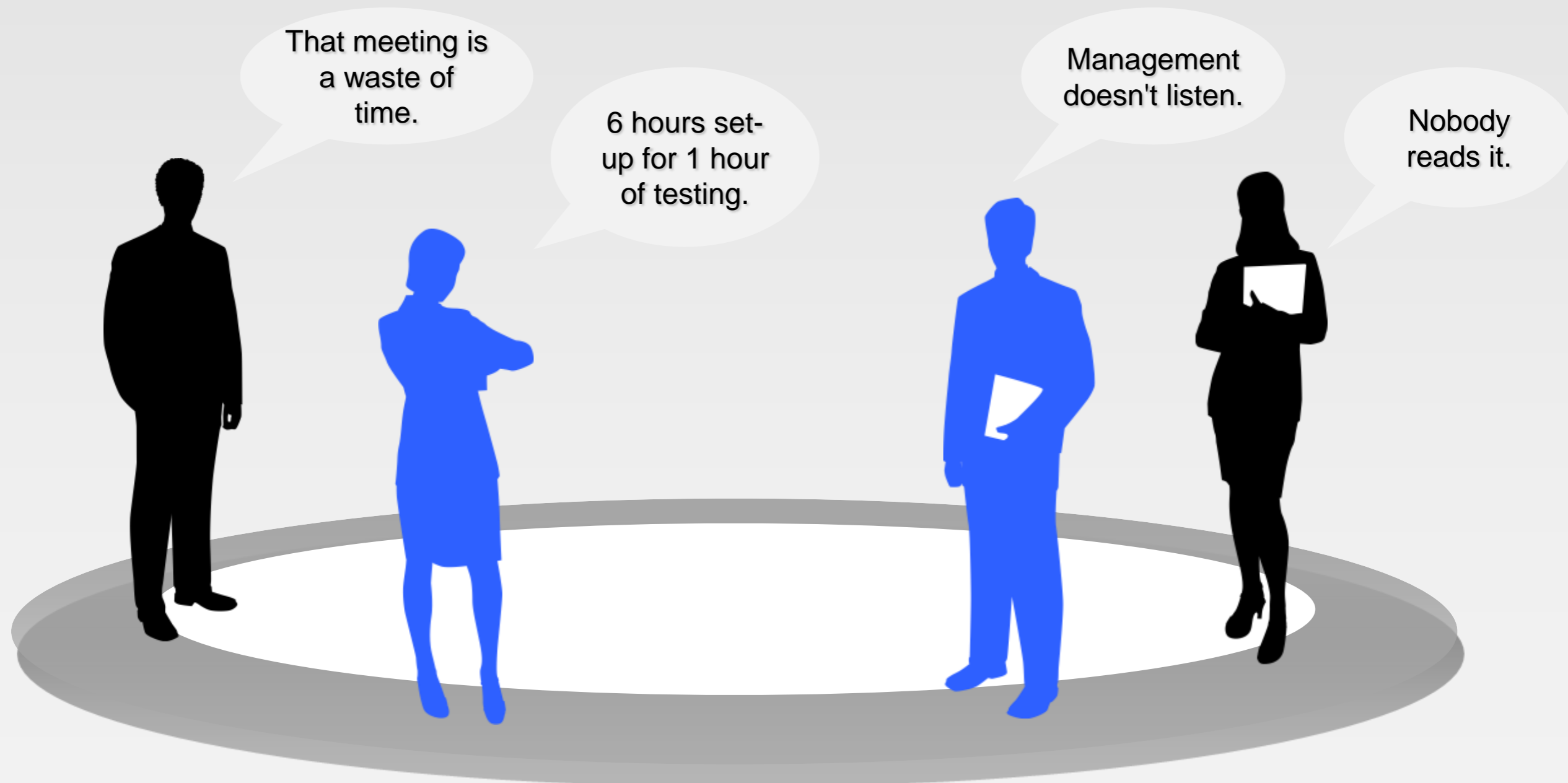
Testing that is not designed to provide valuable new information is waste.

- Cem Kaner

How to Reduce the Cost of Software Testing

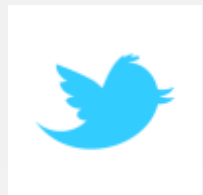


Find Waste, Reduce Costs



Q & A 

Thank
you



@sdelesie

DelesieSolutions.com

