

Testing in the Dark

Robert Sabourin President

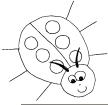
AmiBug.Com, Inc. Montreal, Canada rsabourin@amibug.com robsab@gmail.com

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Testing in the Dark



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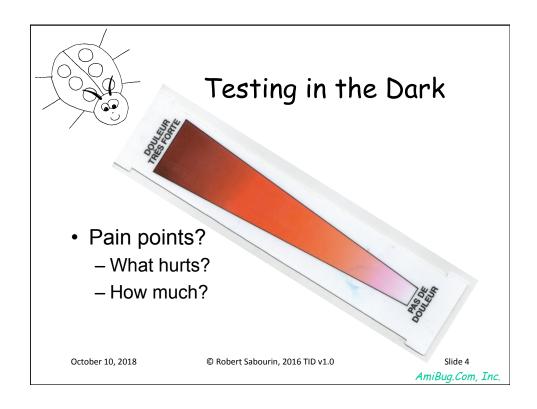
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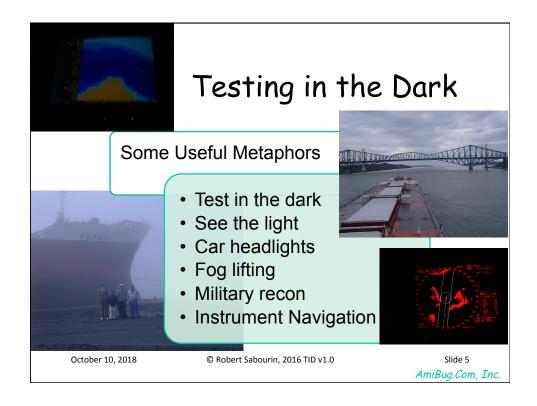
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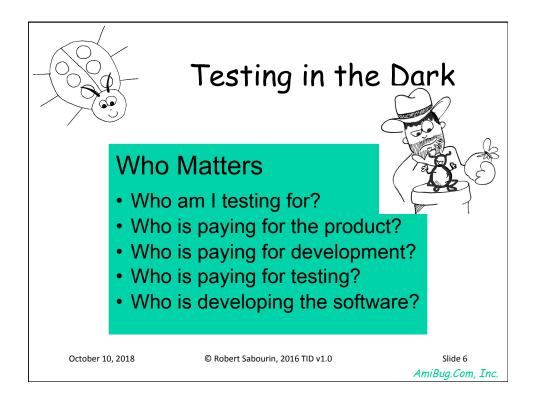


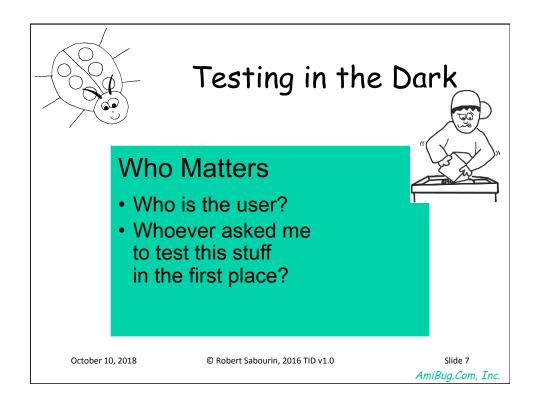


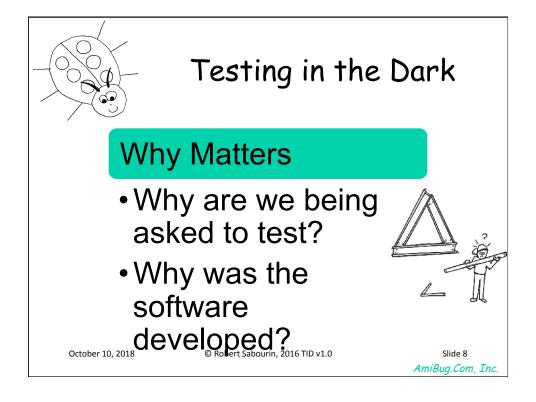














Testing in the Dark

What Matters

- What is being tested?
- · What is quality?
- What are we solving?
- What is a bug?
- · What is good enough?

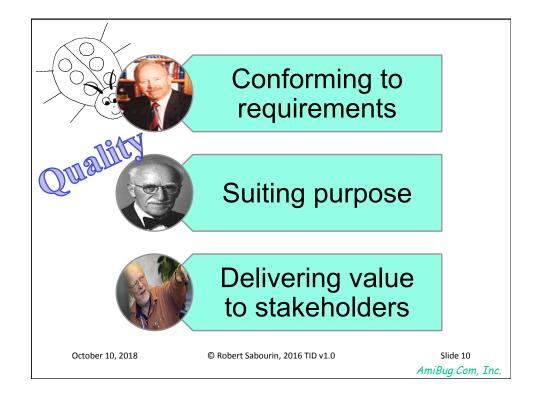


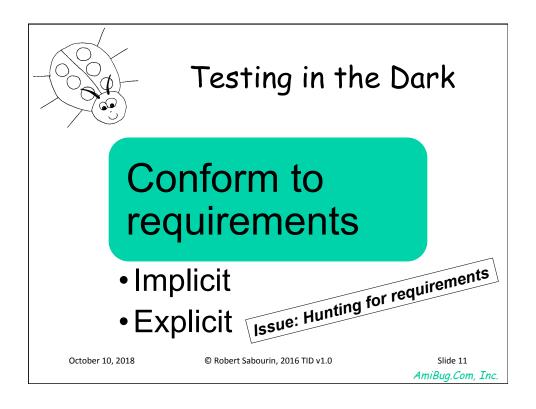
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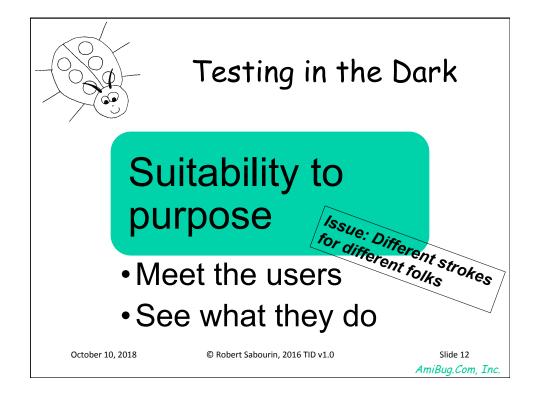
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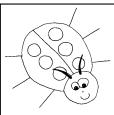
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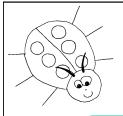
Value to stakeholders

- Who are stakeholders
- What do they value Different cares at Issue: Different times

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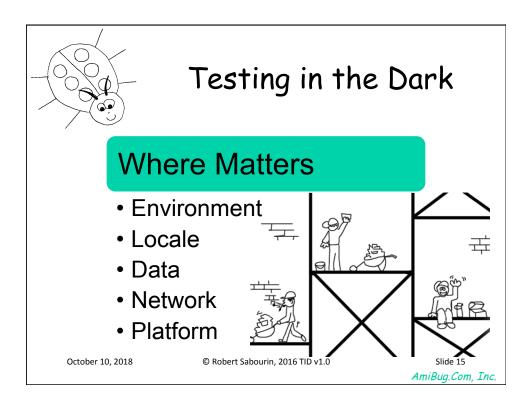
What Matters

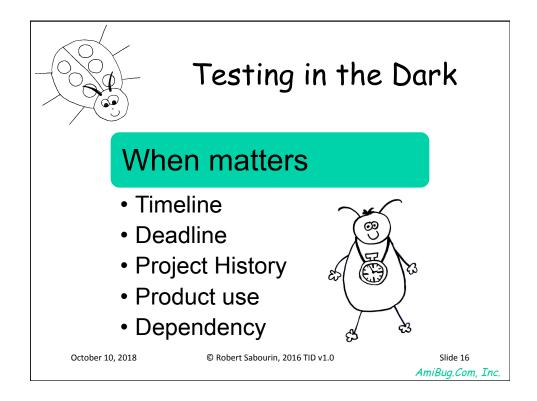
- What problem?
- · What items?
- · What's in?
- · What's out?
- What variables?

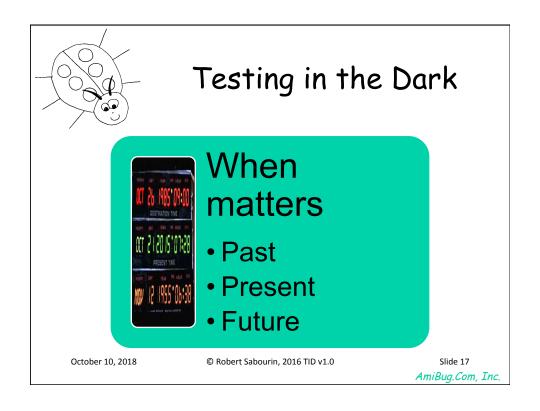
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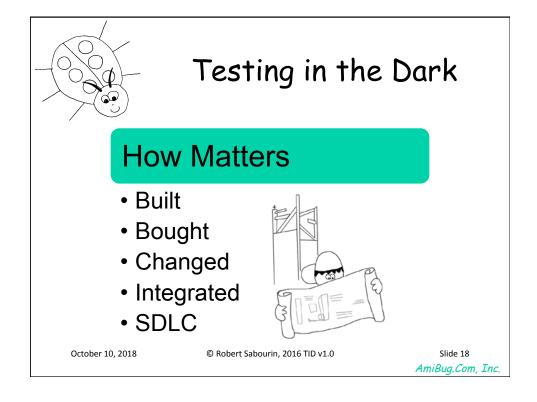
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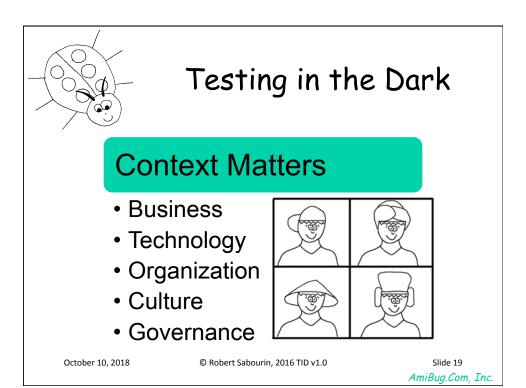


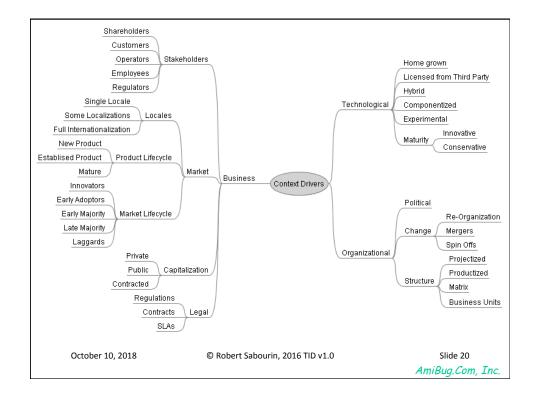


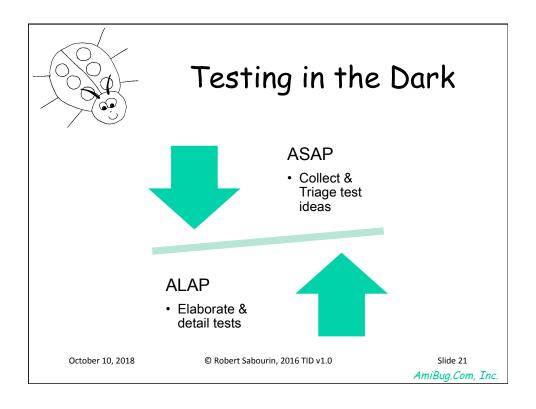


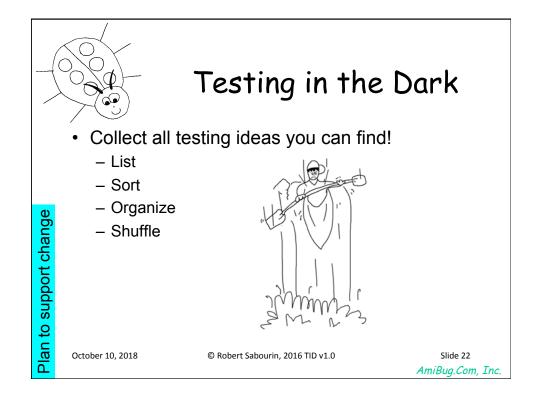




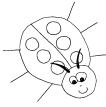








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- How to find them?
 - Does system do what it is suppose to do?
 - Does the system do things it is not supposed to?
 - How can the system break?
 - How does the system react to it's environment?
 - What characteristics must the system have?
 - Why have similar systems failed?
 - How have previous projects failed?

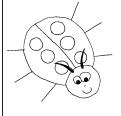


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Plan to support change

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Testing in the Dark

- Collect testing ideas
- From testing ideas build a series of testing objectives
 - Each can be assigned as work to testers
 - Each can include all, part of, or multiple testing ideas



re testing id

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- I often use Index Cards
 - Unique id
 - One testing idea per card
 - Colour indicates source
 - Shuffled and reviewed
 - Organized and reorganized
 - Sorted, grouped, prioritized and collected

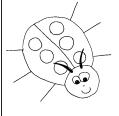
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Capture testing ideas

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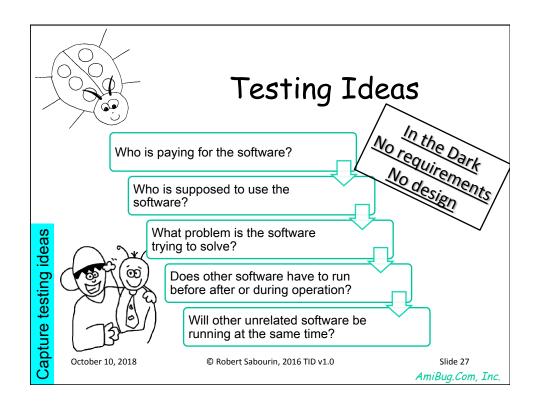


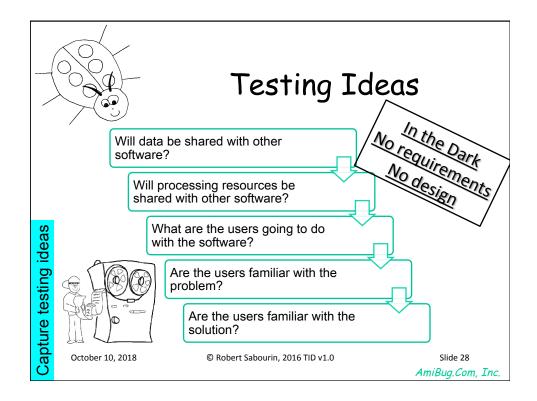
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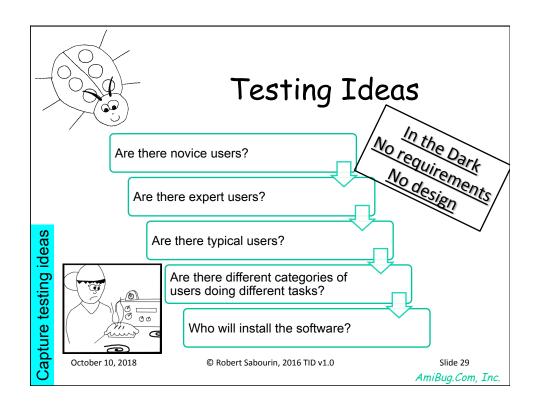
Capabilities	Failure modes
Quality factors	Usage scenarios
Creative ideas	States
Data	Environments
White box	Taxonomies
Across story selations	
End to end	Sequencing
Work flow	Process flow
Integration points	Pareto
Control flow	Domain specific
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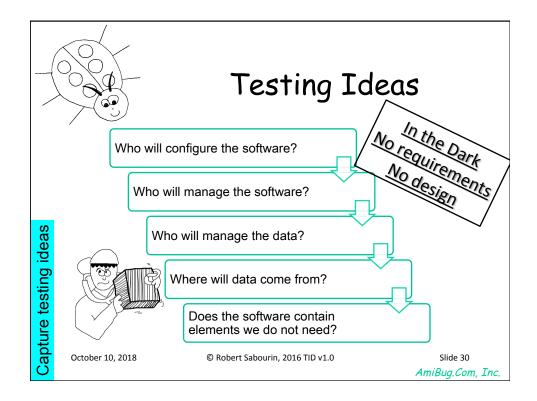
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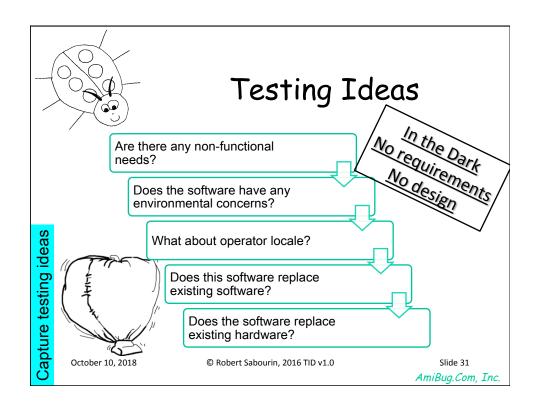
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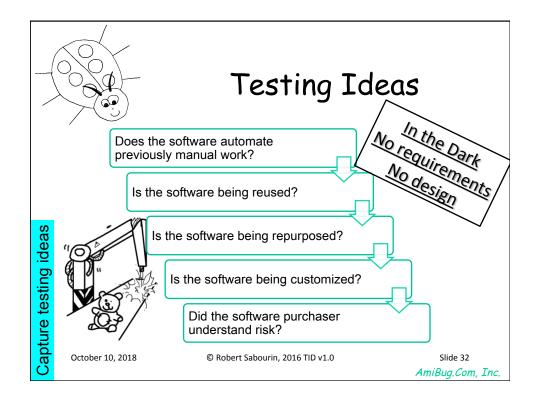














Testing in the Dark

Identify testing ideas

Reconnaissance Testing

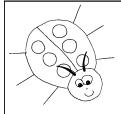


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Recon

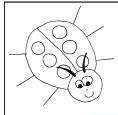
- Find users
- · Learn what test ideas matter
- · Learn what users do
- Learn what varies
- Identify capabilities



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Recon

- Discover strategies to assess correctness
- · How have similar projects failed?
- · How have similar products failed?
- · Inventory product claims
- Knowledge from past testing efforts

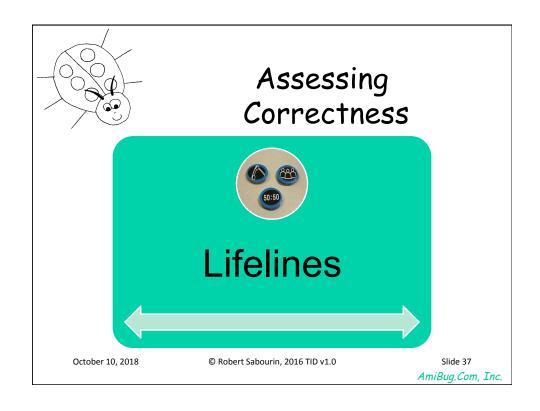
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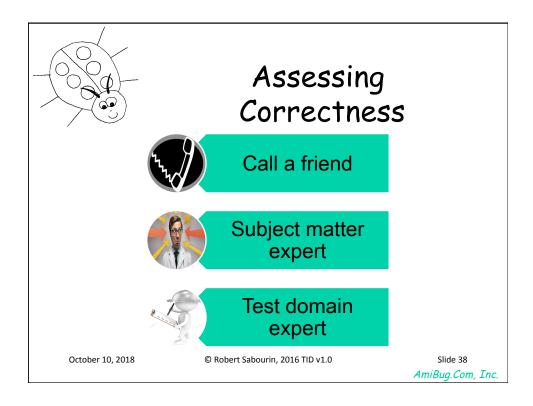
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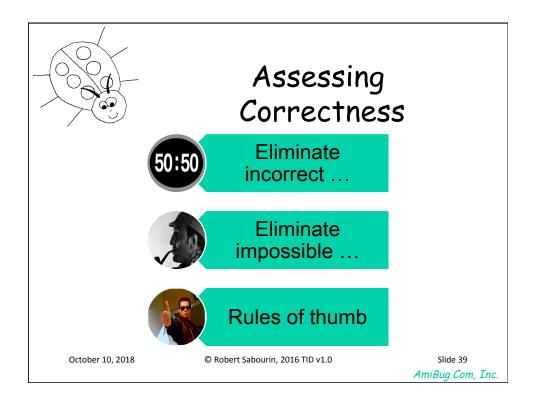
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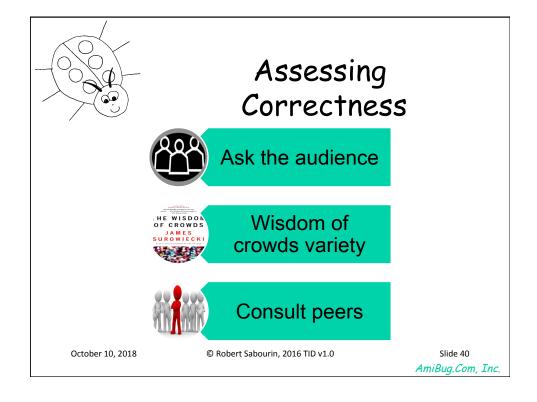


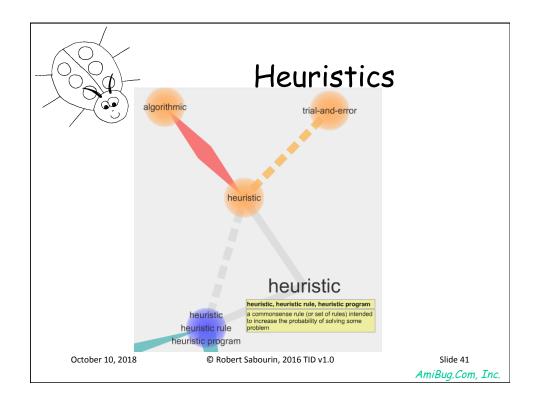


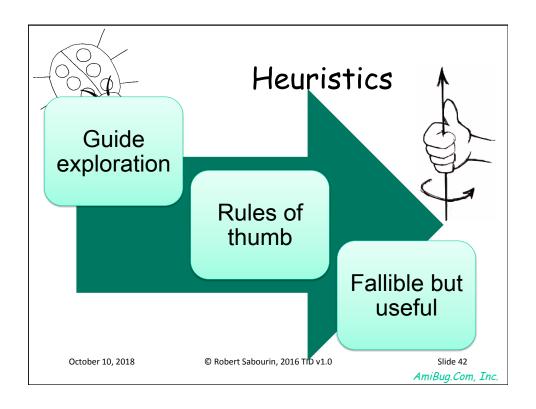


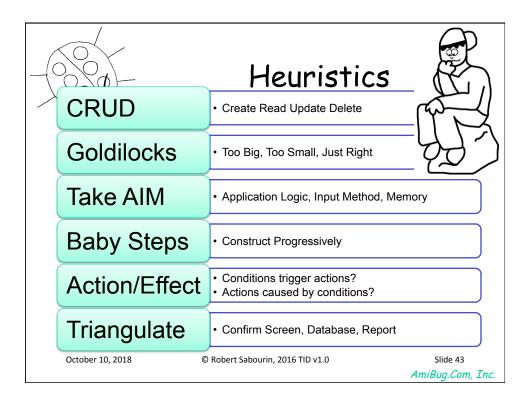
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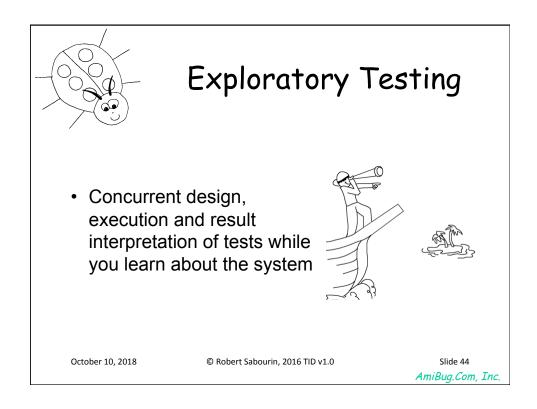


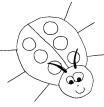






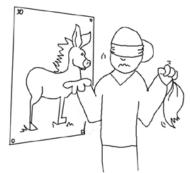






Exploratory Testing

- Charter driven
 - One test idea can become many charters
- Session based
 - Testing is time boxed
 - Short sessions 30 minute
 - Typical sessions 2 hours
 - Long sessions 2 days

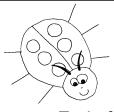


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Exploratory Testing

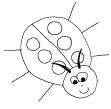
- · End of session
 - Review findings
 - What did we learn
 - What do we still want to learn
 - Did we learn enough
 - Did we discover new ideas
 - Should we invest a new session on the same charter or move onto something new



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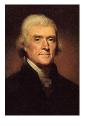
Mandate to explore







William Clark



The object of your mission is to explore the Missouri river, & such principle streams of it, as, by its course and communication with the waters of the Pacific ocean...may offer the most direct & practicable water communication across this continent for the purposes of commerce.

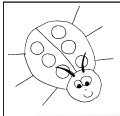
- Thomas Jefferson's letter to Meriwether Lewis, June 1803

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Make intelligent decisions



Take notes about your decisions

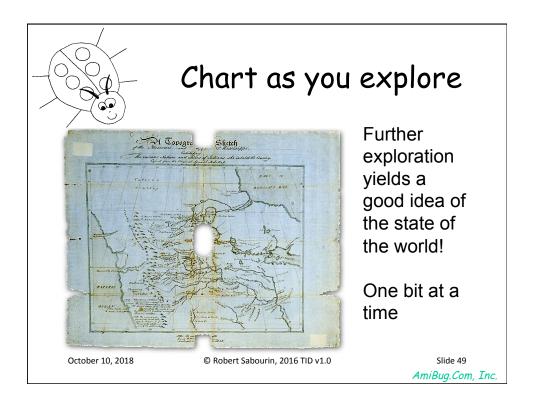
Map out where you have been

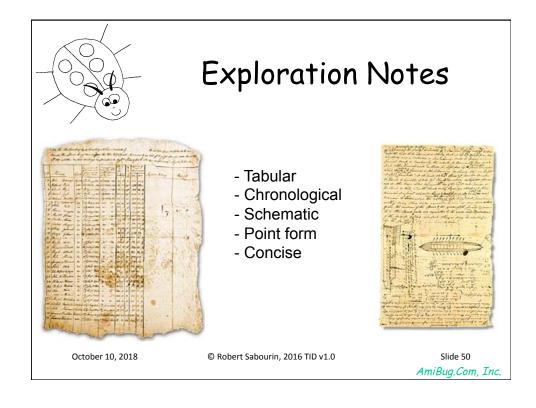
Others can use the result

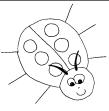
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Exploratory Testing

Test Cases

- Not known in advance
- Defined & executed "on the fly" while you learn about the product

Map Making Skills

- Consistent note taking style
- Practice

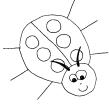


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Exploratory Testing

During test we must capture

- Function, options or sub-functions being explored
- Test cases attempted
- Comments, notes, images or attachments
- Hints, reminders and observations which may be useful to future testers
- Date, Platform, Build or Configuration under test
- Name of person running test
- Oracles, "strategy to assess correctness"
- Other relevant details

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