

Welcome to
European Testing Conference 2017
and
Exploratory Testing Clinic!



European Testing Conference

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"the adventures of a space monkey"

38 yrs, wife Malin, baby girl Vilja, 2 cats, jujutsu/BJJ,
disc golf, whiskies, etc.

25 yrs in work, 13 yrs in testing/quality work, 15+
business domains, 30+ projects, 500+ trained/coached
souls, etc.

Co-founder of Software Testing Finland and Happy
Monkey, Head of Testing at Telia Company Finland.

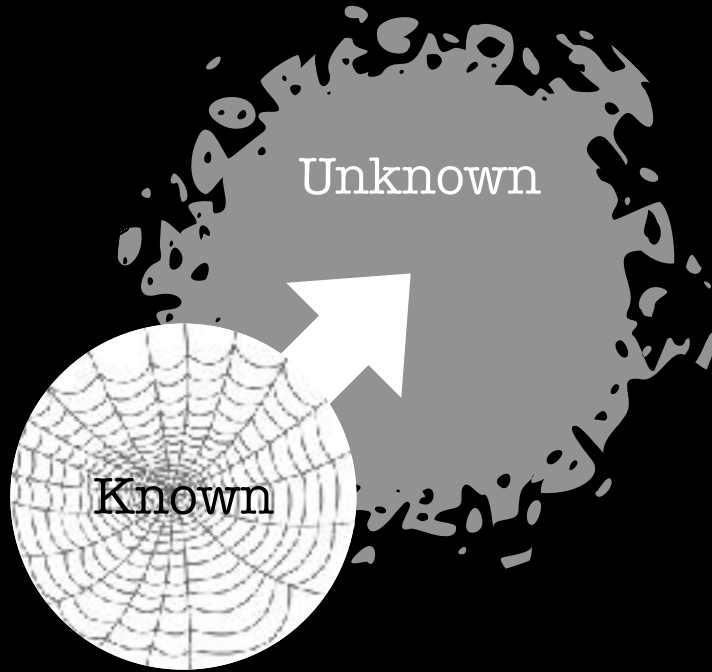


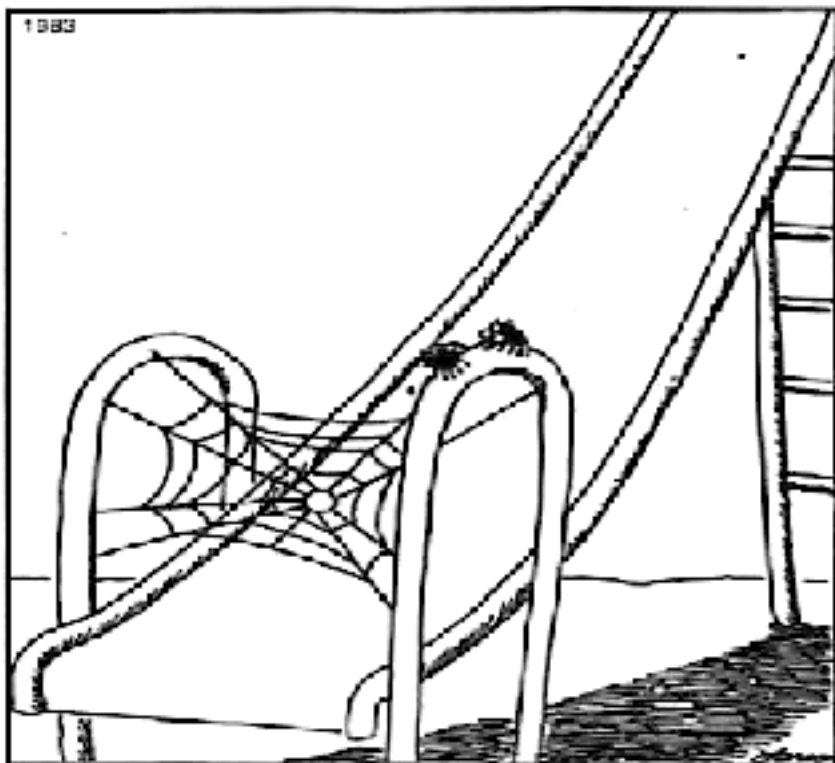
Task 1:

1. Pick a product
2. Adapt to following context:

“You’ve just arrived to an assignment. You know nothing about it or the product that is about to be released in just a few minutes. You are however responsible for testing it. So test it, and report. Good luck.”

What is exploration?





"If we pull this off, we'll eat like kings.

Operating unit

Motherboard

Power

Requirement:

"This electronic equipment has to work within the nominal range of 100-250 VAC."

Equivalence classes

Under 100 VAC

Between 100-250 VAC

Over 250 VAC

Algorithms

Boundaries

Dummy

99 VAC

Failed

How about nominal range?

100 VAC

Passed

101 VAC

Passed

249 VAC

Passed

250 VAC

Passed

251 VAC

Failed

Smart

110 VAC

Passed

220 VAC

Passed

Are you sure?

Do you mean that no one else could set this to "Failed"?

Chassis

Main peripherals

Keyboard

Mouse

Complementary peripherals

Printers

Audio

Drives

Desktop

Laptop

Tablet

Mobile phone

Heuristics

algorithm

noun

A process or **set of rules to be followed** in calculations or other problem-solving operations, especially **by a computer**.

heuristic

adjective

Enabling **a person to discover or learn** something for themselves.

source: Oxford Dictionaries



Algorithms ⊕

In what environment does this equipment has to operate?

To what market is this equipment released (domestic/international)? What kind of currents are there?

To what kind of usage it is exposed?

Is there specifics for "has to work", can it e.g. work partly?

Is hazardous operation allowed, and if so, in what terms?

What does "nominal" mean?

What does "VAC" mean?

How about DC?

Amps?

Heuristics ●

By whom it is used?

How long does it have to operate, and in what kind of stress?

Are there competing products?

Are other systems dependent on it?

Is it possible to maintain this equipment?

Is there operation and maintenance guide?

Do we have claims that have to be fulfilled?

Does it bring added value to this company?

Do we have anyone who knows about electronics?

Algorithms

Heuristics

has to work
"100-250 VAC."

Keyboard
Mouse

Peripherals ⊕
Printers
Audio
Drives

Oracles

- A **heuristic** is a fallible method of solving a problem or making a decision. An **oracle** is a heuristic for recognizing a problem once it has manifested.
- Oracles can be written requirements, wishes from important people, laws of conformity, unwritten rules, etc.
- Oracles don't often produce information by default. You may have to dig for it, to **ask questions**.
- The information from oracles may also change, constantly even. Keep your friends close, and your oracles closer. ;)

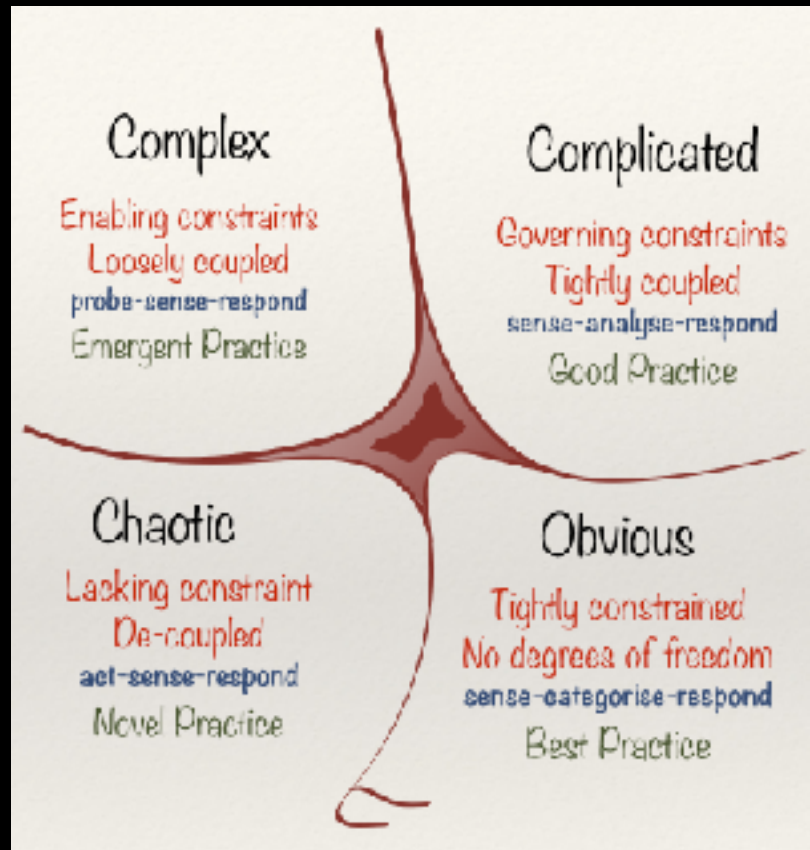




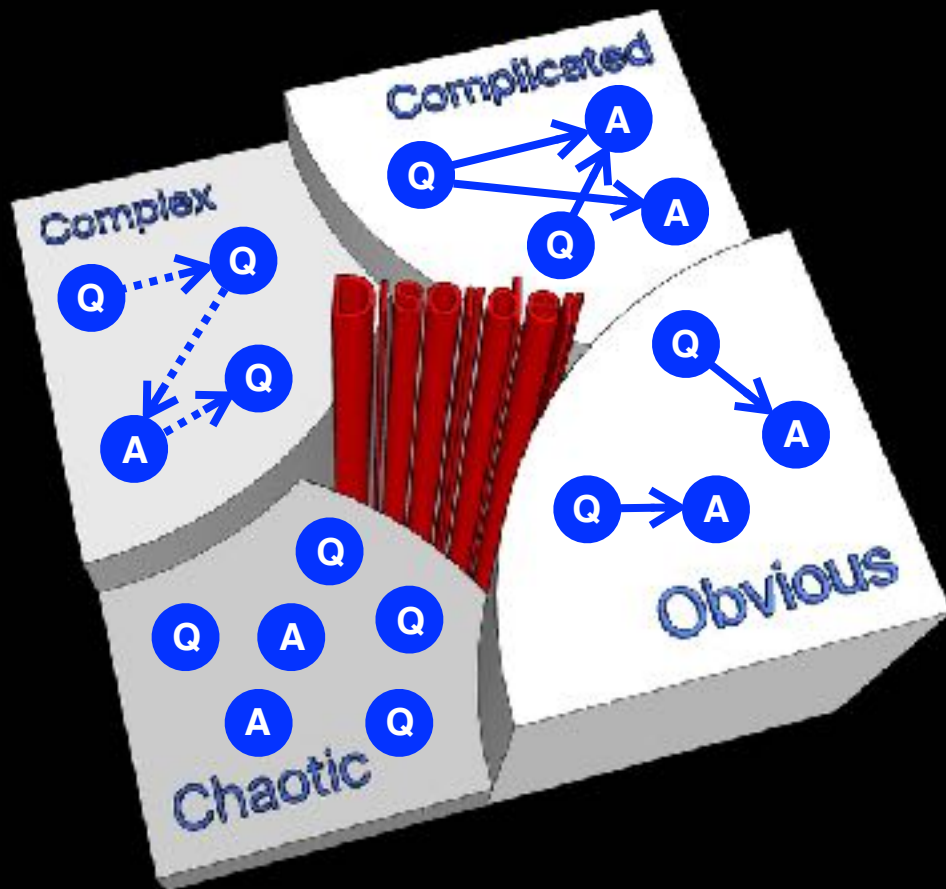
Freestyle

Deterministic





Cynefin
[ki-neh-vin]



Cynefin
[ki-neh-vin]

20 ways to bringing structure into ET

- Stealth job
- Traditional retreat
- Off-Piste (Iron Script)
- Off-Piste (Marshmallow Script)
- Bug Hunt
- Set Aside Time
- Gambling
- Script-Substitute
- **Session-Based**
- Questioning
- Thread-Based
- Touring
- Scouting
- **Kanban**
- Following Lenfle
- Daily News
- R&D
- Testing Guru
- Video Reports
- Post-Partum Labelling
- The Summarizer
- GPS
- Cloudy
- The Inquiring Metricator

Source: James Lindsay, <http://workroomprds.blogspot.com/>

Session-Based Test Management (SBTM)

- A timeframe is given to tester or a group of testers. Within this **session** intensive and uninterrupted testing takes place.
- A **charter** gives focus area for testing session.
- After a session short **retrospective** takes place. It's about discussing session experiences, having a bug triage, setting focus for next session, etc.
- In retrospective you get an insight whether to continue with the same charter or to choose a new one.
- The nature of a charter dictates what kind of testing session is the wisest to choose.



Different session types

- **Intake**. Starting a dialogue with the software, getting to know the rough outlines what it does.
- **Survey**. Mapping the entirety of the software, seeking coverage.
- **Analysis**. Systematic approach e.g. listing the primary and complementary functions.
- **Setup**. Forming the environmental context e.g. installations, infra inspection, noticing end user need, etc.
- **Deep coverage**. Making an effort to understand the business and technical needs of the software, going beyond the obvious to find those hard-to-find bugs.
- **Closure**. Ending activities for the project and/or testing round e.g. forming handover documentation, reporting, retesting fixed bugs, regression testing, etc.



“Explore [target]
with [resources]
to discover [information].”

- Elisabeth Hendrickson

Task 2:

1. Form teams
2. Pick a product (or keep the same)
3. Adapt to following test case/scenario/
mission statement/whatnot:

Explore **your product**
with **survey mode**
to discover **manipulation points**.

Heuristic Test Strategy Model

TEST STRATEGY

I

What do we know?
What do we want to know?



INFORMATION
OBJECTIVE

Explore TARGET
w/ resources
to discover
INFORMATION

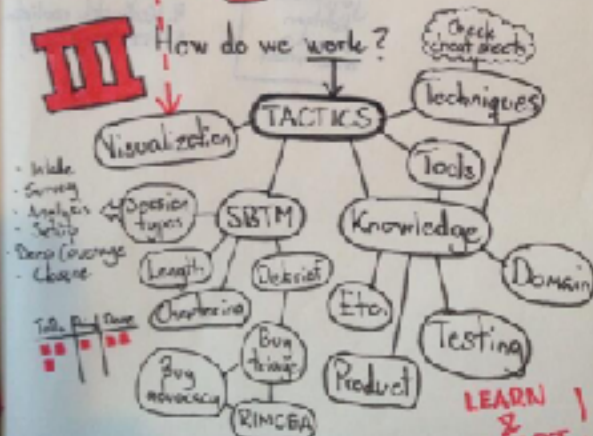
II

Where do we focus?



III

How do we work?



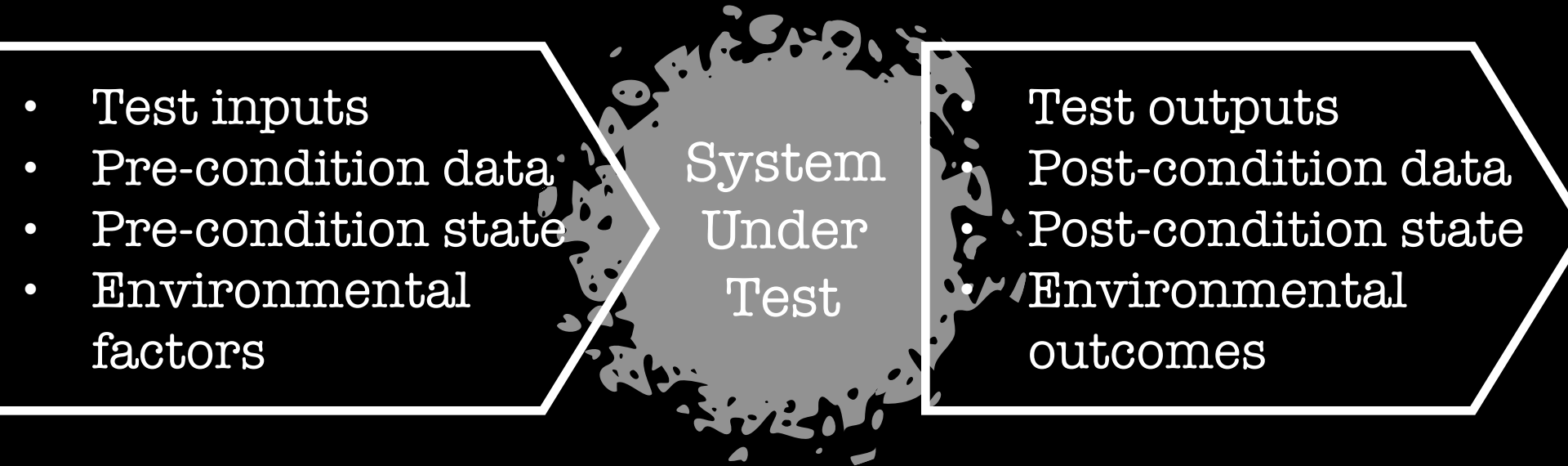
- Model
- Survey
- Analysis
- Script
- Design Coverage
- Closure

| Talk | Plan | Do |
|------|------|----|
| ■ | ■ | ■ |

LEARN !
&
ADAPT !

Extended Black Box Testing Model

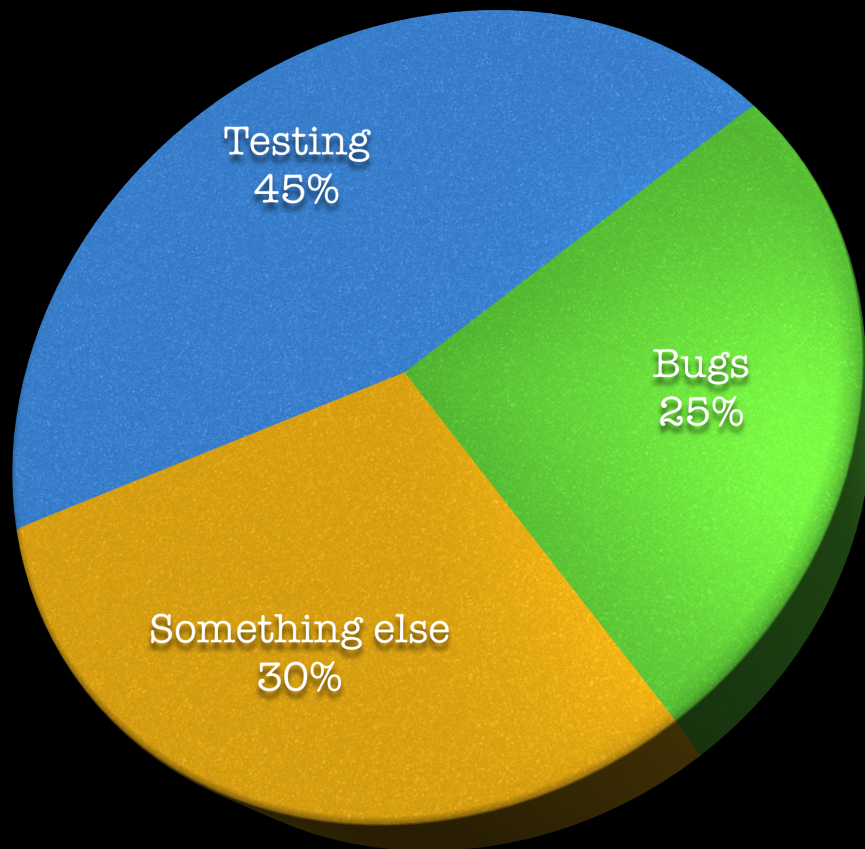
by Doug Hoffman



Task 3:

1. Keep your teams
2. Another mission statement
3. Focus on reporting










TBS metric

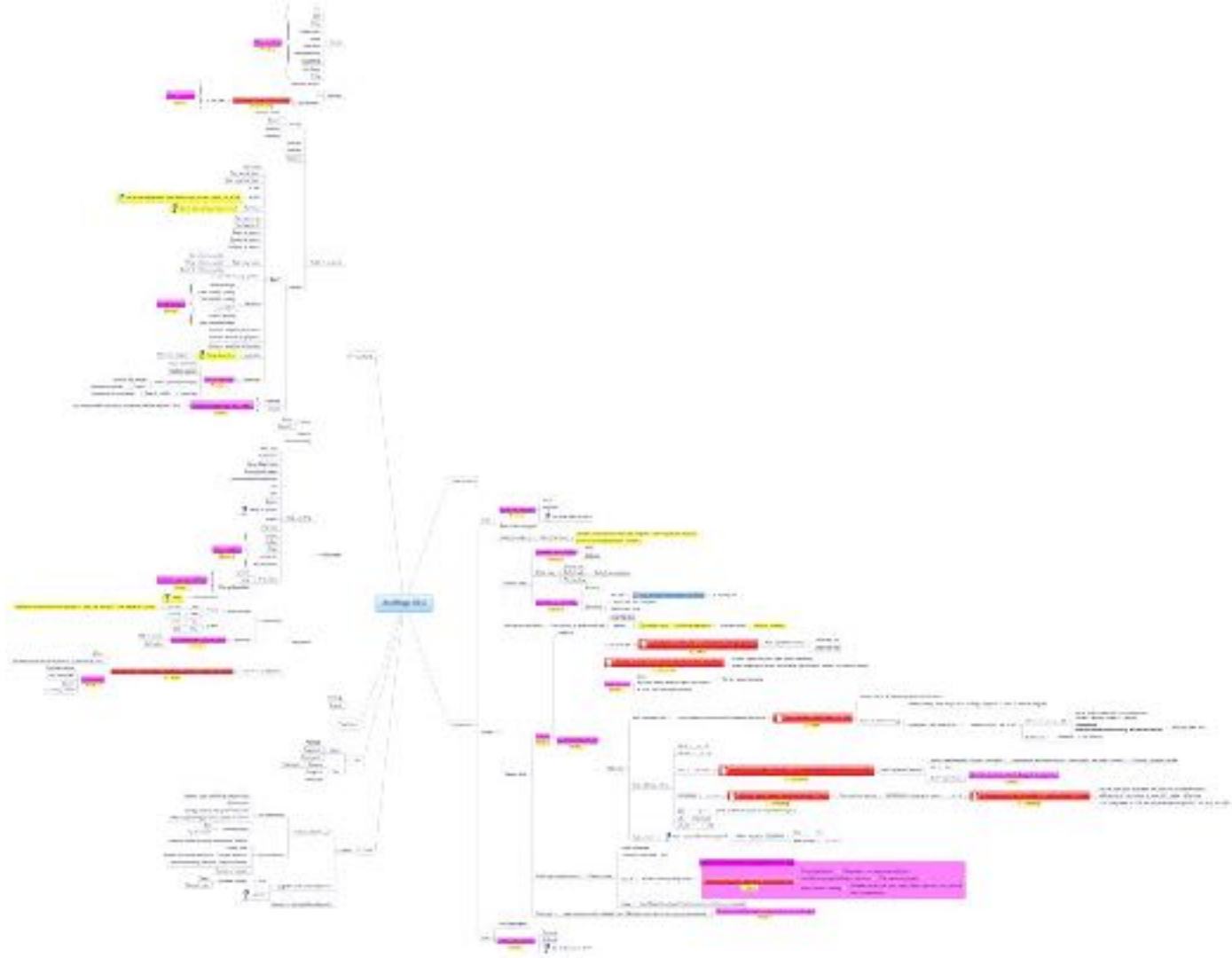


Testing Dashboard

Updated:
2/21

Build:
38

| Area | Effort | C. | Q. | Comments |
|---------------|------------|----|---|-------------------------|
| file/edit | high | 1 |  | |
| view | low | 1+ |  | 1345, 1363, 1401 |
| insert | low | 2 |  | |
| format | low | 2+ |  | automation broken |
| tools | blocked | 1 |  | crashes: 1406, 1407 |
| slideshow | low | 2 |  | animation memory leak |
| online help | blocked | 0 | | new files not delivered |
| clipart | none | 1 |  | need help to test... |
| converters | none | 1 |  | need help to test... |
| install | start 3/17 | 0 | | |
| compatibility | start 3/17 | 0 | | lab time is scheduled |
| general GUI | low | 3 |  | |



Product
backlog

Sprint
backlog

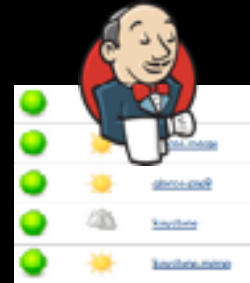
In progress

Done



As an admin
I login to
company
web portal.

**Is there
a problem?**



Nope :(



So, what did we learn today?

MB.
Milton Bradley

**Ages
8 to Adult**

Sink all of
your opponent's
ships.

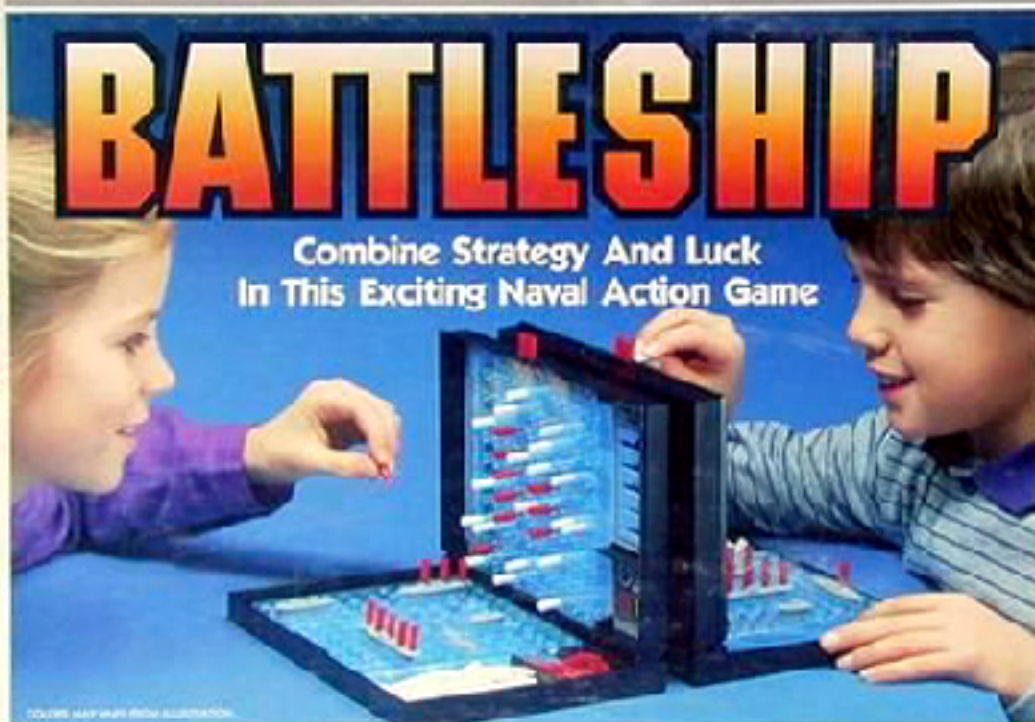
2 Players

Game instructions in
English and Spanish.
Instrucciones del juego
en inglés y español.

Milton Bradley Company
Springfield, MA 01102
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BATTLESHIP

**Combine Strategy And Luck
In This Exciting Naval Action Game**



COLOR MAPMAN FROM ILLUSTRATION

**SET UP
YOUR FLEET**



CALL OUT THE SHOTS



MARK THE HITS



**SINK YOUR
OPPONENT'S
FLEET**







That's all Folks!

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A bonus. Huib Schoots has gathered a pretty awesome collection of resources (kudos, Huib!). I couldn't think of anything that isn't there, so her you go. :)

http://www.huibschoots.nl/wordpress/?page_id=441