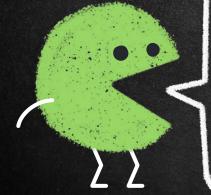
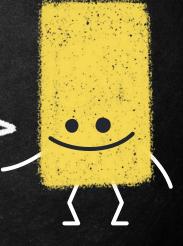


SOFTWARE INVESTIGATION &

**EXPLORATION** 









HELLO!

#### I am Huib Schoots

I am here because I love to do workshops. You can find me on twitter at @huibschoots





















#### I am Alex Schladebeck

I am here because I love Huib.
You can find me on twitter at @alex\_schl



















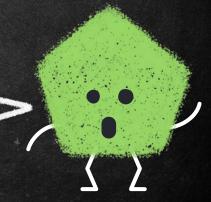






#### GOALS FOR TODAY

- → EXPLAIN WHAT WE THINK (EXPLORATORY) TESTING IS
- → LEARN BY DOING LOTS OF FUN EXERCISES WHERE WE TEST REAL SOFTWARE.
- → LEARN ESSENTIAL SKILLS LIKE EXPLORATION, NOTE TAKING, USE OF HEURISTICS AND CHARTERING
- → LEARN TO BECOME A BETTER TESTER, NOT BY TEACHING YOU HOW TO TEST, BUT BY LETTING YOU EXPERIENCE WHAT YOU DO!
- → YOU WILL LEARN TO RECOGNISE WHAT YOU DO WHILE YOU ARE
  TESTING. YOU CAN USE THAT AS A LEARNING TOOL TO GET BETTER AT
  TESTING.

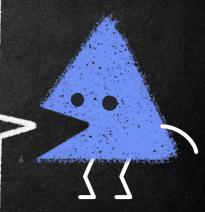


#### FIRST QUICK EXERCISE...

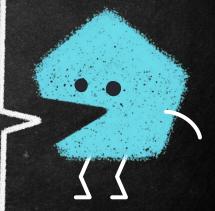
#### WHAT IS ET ANYWAY?

- → WHAT IS EXPLORATORY TESTING?
- → WHAT IS THE GOAL OF ET?
- → WHO DOES IT?

WRITE DOWN YOUR ANSWERS IN 3 MINUTES



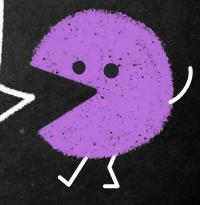
## WHAT MAKES ET HARD?

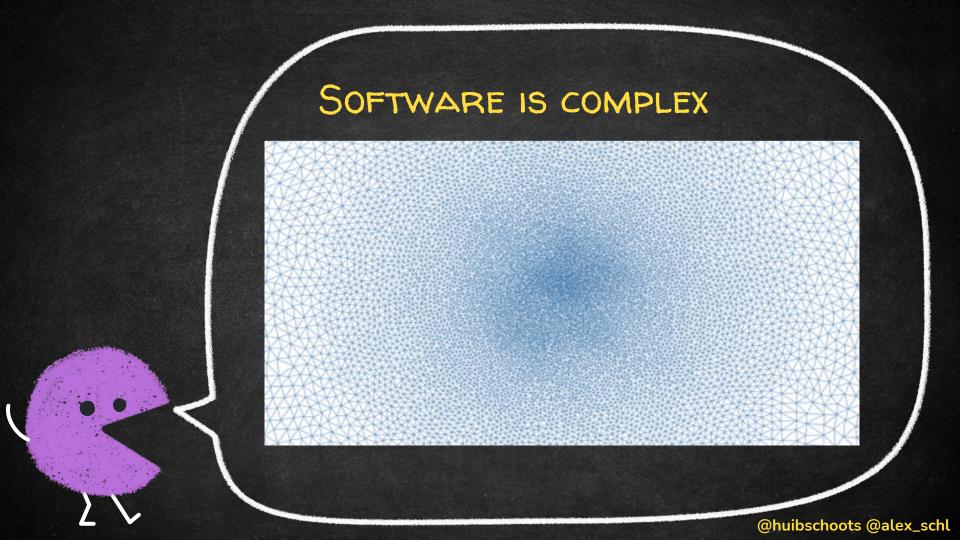


### LET'S TALK ABOUT SOFTWARE DEVELOPMENT



SOFTWARE DEVELOPMENT = RESEARCH & DEVELOPMENT





#### PEOPLE ARE COMPLEX





#### DEALING WITH THIS VUCA WORLD

- → VOLATILE PRODUCT VISION
- → UNCESTAIN TRY TO UNDERSTAND THE CONTEXT
- → COMPLEX LEARNING, INSIGN T AND PROVIDING CLARITY
- → AMRIGUOUS AGILITY TO INCORPORATE ADAPTABILITY

## DURING SOFTWARE DEVELOPMENT WE HAVE TO DEAL WITH UNKNOWN UNKNOWNS

- → QUALITY IS PERCEPTION
- → CUSTOMERS AND PRODUCT OWNERS DON'T KNOW
  OR CAN'T IMAGINE WHAT THEY WANT
- → DEVELOPMENT TEAM CAN'T IMAGE WHAT CUSTOMERS
  WILL ACTUALLY DO
- → RESEARCH: BUILDING NEW INSIGHTS & EVOLUTIONARY DESIGN
- → DEALING WITH COMPLEXITY, CONFUSION, CHANGE, NEW INSIGHTS
  AND HALF ANSWERS

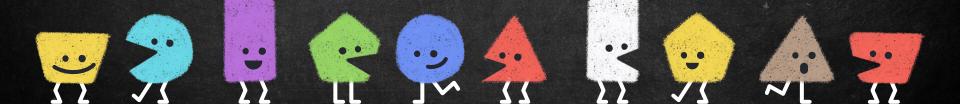
WE HAVE TO LEARN AND TO DEAL WITH RISKS!





# STORY BY ALEX

HEY ALEX, HOW WOULD YOU EXPLAIN EXPLORATORY TESTING?



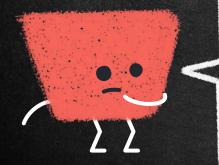
#### 1. MANUAL TESTING TAKES AGES

- → DESIGNING AND MAINTAINING TEST CASES TAKES A GREAT DEAL OF TIME
- → THE TESTS ALSO NEED TO BE EXECUTED (OFTEN MANUALLY)
- THE PEOPLE WHO EXECUTE THE TESTS OFTEN AREN'T THE PEOPLE WHO WROTE THEM
  - SO THERE ARE DIFFERENCES AND QUESTIONS
  - OR WE ATTEMPT TO ADD SO MUCH DETAIL TO THE TEST
    CASES WHICH RESULTS IN EVEN MORE WORK



## 2. SCRIPTED TESTS DON'T FIND NEW PROBLEMS

- → Boris Beizer: "Every method you use to prevent or find bugs leaves a residue of subtler bugs against which those methods are ineffectual."
- TEST CASES BECOME LESS AND LESS EFFECTIVE OVER TIME.
- → THEY NEED TO BE UPDATED, ADDED TO, DELETED, CHANGED
- → EVEN THEN, WE CANNOT HOPE TO WRITE AND EXECUTE AND MAINTAIN \*ALL KNOWN\* TEST CASES FOR SOFTWARE



# 3. SCRIPTED TESTS DON'T HELP US FIND UNKNOWN RISKS

- → WE CAN ONLY WRITE TEST CASES FOR RISKS THAT WE HAVE IDENTIFIED
- → AND THE TEST CASES FOR THESE IDENTIFIED RISKS BECOME LESS EFFECTIVE IN FINDING PROBLEMS (PREVIOUS SLIDE)
- → AND IT'S USUALLY THE THINGS WE DIDN'T THINK ABOUT THAT CAUSE PROBLEMS
- THINK OF A NET: THE INDIVIDUAL STRINGS ARE TEST CASES. BUT THERE WILL ALWAYS BE HOLES

ELISABETH HENDRICKSON, EXPLORE IT!



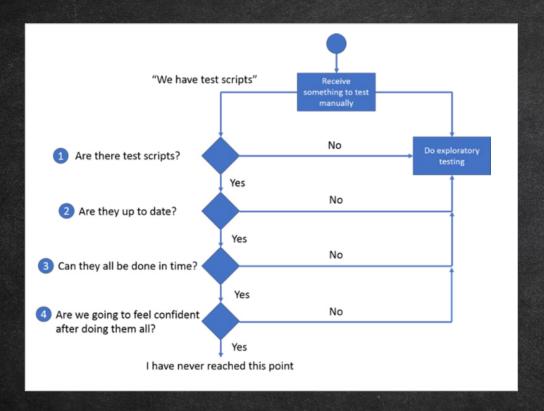
#### 4. OBSERVATIONAL BLINDNESS

→ INATTENTIONAL BLINDNESS IS THE PSYCHOLOGICAL PHENOMENON
THAT CAUSES YOU TO MISS THINGS THAT ARE RIGHT IN FRONT OF
YOUR EYES.





#### 5. ET WILL ALWAYS BE NECESSARY





### 6. AND SOMETHING ABOUT PELICANS...

[EXPLORATORY TESTING] IS A THING THAT ALWAYS HAS TO HAPPEN BECAUSE WE CAN AUTOMATE AS MUCH AS WE LIKE BUT WE CAN ONLY AUTOMATE JUST RISKS WE HAVE SEEN AND THERE ARE ALWAYS GOING TO BE RISKS THAT WE HAVEN'T SEEN.





MY CURRENT FAVORITE EXAMPLE OF THIS IS: I WENT RUNNING IN A PARK VERY EARLY IN THE MORNING. OBVIOUSLY, I HAVE VARIOUS RISKS I CAN THINK ABOUT: I MIGHT INJURE MYSELF, I MIGHT GET LOST, I MIGHT GET ACKED. THOSE ARE THINGS I THOUGHT ABOUT. AS IT TURNED OUT, IN THE PARK THEY HAVE A PELICAN. I APPROACHED THIS PELICAN TO GFT A PHOTO OF IT.

THE PELICAN MADE A THREATENING MOVE TOWARDS ME AND I RAN AWAY, TERRIFIED. ON THE LIST OF RISKS THAT I HAD IN THAT PARK ON THAT MORNING, BEING ATTACKED BY WILDLIFE WAS NOT ONE OF THEM. AND THAT IS ONE OF MY BEST EXPLANATIONS OF WHY WE NEED EXPLORATORY TESTING.

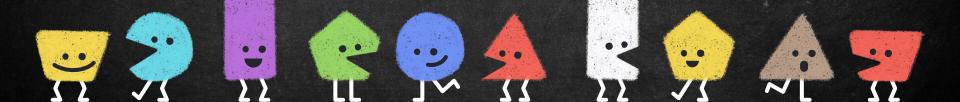
- ALEX SCHLADEBECK





# STORY BY HUIB

SO HUIB, DO YOU HAVE ANYTHING TO ADD TO THAT STORY?



#### CALL THIS "CHECKING" NOT TESTING

operating a product to check specific facts about it...

means

Observe

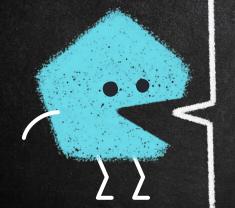
Evaluate

Report

Interact with the product in specific ways to collect specific observations

Apply algorithmic decision rules to those observations

Report any failed checks



#### A CHECK HAS THREE ELEMENTS

- An observation linked to...
- 2. A decision rule such that...
- 3. both observation and decision rule can be applied algorithmically.

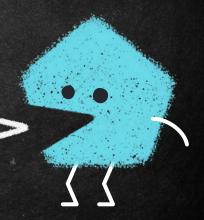
A *check* can be performed



by a machine that can't think (but that is quick and precise)



by a human who has been instructed *not* to think (and who is slow and variable)



#### TESTING IS...

Acquiring the competence, motivation, and credibility for...

creating the conditions necessary for...

evaluating a product by learning about it through experimentation, which includes to some degree: questioning, study, modeling, observation and inference, including...

operating a product to check specific facts about it...

...so that you help your clients to make informed decisions about risk.

And perhaps help make the product better, too



#### THE TESTING FORMALITY CONTINUUM

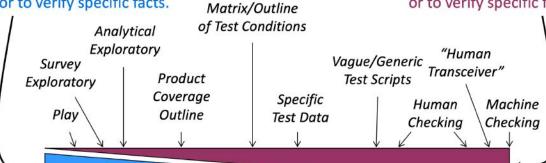
#### Mixing Scripting and Exploration

#### **INFORMAL**

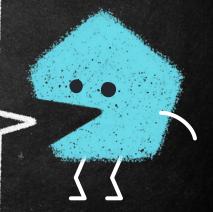
Not done in any specific way, nor to verify specific facts.

#### **FORMAL**

Done in a specific way, or to verify specific facts.

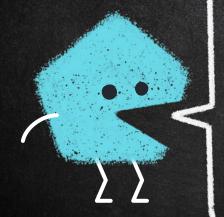


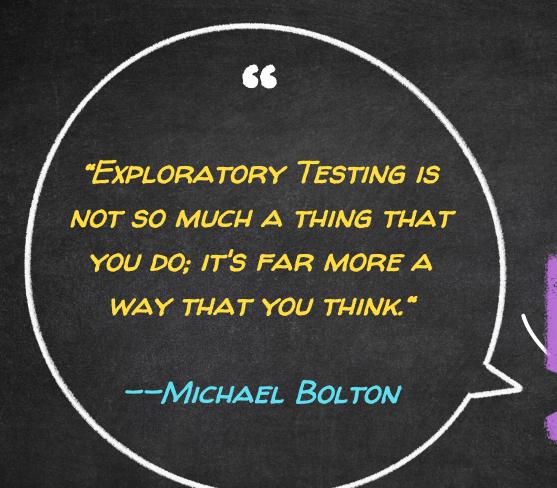
When I say "exploratory testing" and don't qualify it, I mean anything on the informal side of this continuum.



#### MYTHS & MISCONCEPTIONS

- → ET IS UNSTRUCTURED
- → ET IS UNDOCUMENTED
- → ET DOESN'T PROVIDE ACCOUNTABILITY
- → ET CANNOT BE MEASURED
- → ET IS FOR EXPERIENCED PEOPLE ONLY
- → SCRIPTED TESTING IS EASIER TO DO THAN ET
- → NO REVIEW IN ADVANCE
- → HARD TO REPEAT
- → DIFFICULT TO REPORT TEST COVERAGE





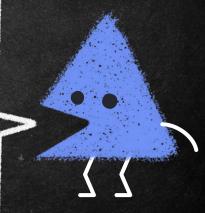
#### LET'S DO A TESTING EXERCISE...

→ USE THIS APPLICATION:

HTTP://DEMOWEBSHOP.TRICENTIS.COM/

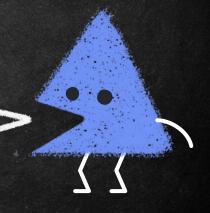
Test it for 20 minutes

WE WILL DEBRIEF TOGETHER



### CREDIT CARDS DETAILS

Туре	Number	Exp date	Check ID
Visa	4444 3333 2222 1111	03/2030	737
MasterCard	5555 4444 3333 1111	03/2030	7373
Amex	3700 0000 0000 002	03/2030	7373
Diners	3607 0500 0010 20	03/2030	737
Discover	6445 6445 6445	03/2030	737
Visa Electron	4001 0200 0000 0009	03/2030	737
Maestro	6771 7980 2100 0008	03/2030	737





## STRUCTURING YOUR TESTING

















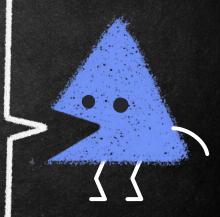




#### LET'S DO A SURVEY EXERCISE...

- → CONDUCT A "SURVEY SESSION" TO LEARN THE PRODUCT FOR 15 MINUTES
- → Tour the product to map every important aspect of it

WE WILL DEBRIEF TOGETHER





#### WHAT IS A PCO?

→ A product coverage outline is a detailed, working reference used to answer questions such as:

What could we test?

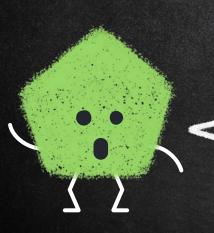
What should we test?

What are we testing?

What did we test?

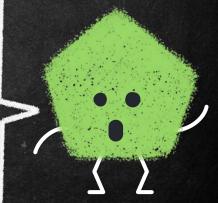
What did we NOT test?

→ It may be in plain text or in mindmap form. It may even be a diagram, or a set of Post-Its.



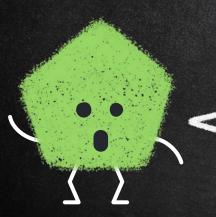
#### PRODUCT COVERAGE OUTLINE

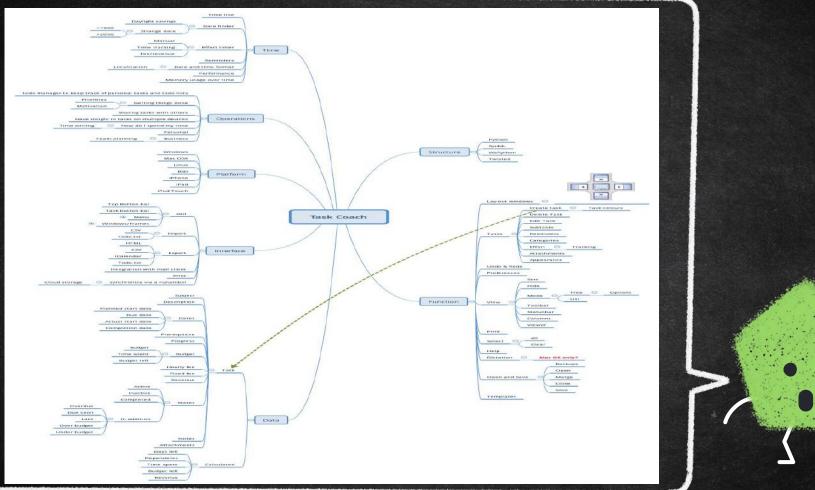
- → Is an artifact (a map, list, diagram, sketch, table...) that identifies the factors or elements of a product that might be relevant to testing it
- → Put these factors on the PCO if there is some chance you would otherwise forget or neglect them
- → Factors include things users see, and things they don't see
- → The Product Elements section of the Heuristic Test Strategy Model (SFDIPOT) provides a point of departure for creating a coverage outline



### SFDIPOT

- → Structure
- → Function
- → Data
- → Interfaces
- → Platform
- → Operation
- → Time



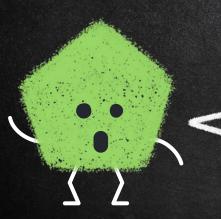


### WATCH THE VIDEO

# Product coverage outline

Huib Schoots www.huibschoots.nl/blog

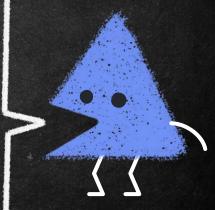
HTTP://YOUTU.BE/NUOJNFDJIJW



### LET'S DO A SURVEY EXERCISE...

- → CONDUCT ANOTHER "SURVEY SESSION" TO LEARN THE PRODUCT FOR 20 MINUTES
- → Tour the product to map every important aspect
- → Using a mind map, model an overview of the product
  (IF YOU THINK OF RISKS, WRITE THEM DOWN TOO)

WE WILL DEBRIEF TOGETHER





## Sources & Heuristics



















### Sources & Heuristics

→ How do we know what to test?

- How do we generate ideas?

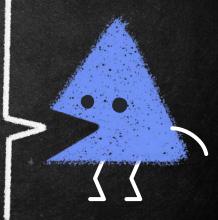


### EXERCISE

- → WHAT SOURCES OF INFORMATION ARE THERE?
- → WHAT INFORMATION CAN WE GET FROM THEM?

DISCUSS IN A GROUP FOR 15 MINUTES

WE WILL DEBRIEF TOGETHER



### HEURISTICS

- → A HEURISTIC IS "A FALLIBLE METHOD FOR SOLVING A PROBLEM OR MAKING A DECISION"
- → A HEURISTIC IS A MENTAL SHORTCUT THAT ALLOWS PEOPLE TO SOLVE PROBLEMS AND MAKE JUDGEMENTS QUICKLY AND EFFICIENTLY. THESE RULE—OF—THUMB STRATEGIES SHORTEN DECISION—MAKING TIME AND ALLOW PEOPLE TO FUNCTION WITHOUT CONSTANTLY STOPPING TO THINK ABOUT THEIR NEXT COURSE OF ACTION.
- → SNAP JUDGEMENT / RULE OF THUMB
- → https://www.verywellmind.com/what-is-a-heuristic-2795235



### TESTING HEURISTICS

- → FEW HICCUPS (ORACLES: CONSISTENCY HEURISTICS)

  HTTP://www.developsense.com/blog/2012/07/few-hiccupps/
- → TESTING HEURISTICS CHEAT SHEET (HTTPS://BIT.LY/10R9INN )
- → GOLDILOCKS (ELISABETH HENDRICKSON)
- → BAD STRINGS (HTTHTTPS://GITHUB.COM/MINIMAXIR/BIG-LIST-OF-NAUGHTY-STRINGS)
- → Falsehoods programmers believe

  (https://spaceninja.com/2015/12/08/falsehoods-programmers
  believe/)
- → SFDIPOT HEURISTIC FOR PRODUCT ELEMENTS
- → RCRCRC FOR REGRESSION TESTING

  (HTTP://KARENNICOLEJOHNSON.COM/2009/11/A-HEURISTIC-FOR-REGRESSION-TESTING)



### RCRCRC:

# IT IS A REGRESSION TESTING HEURISTIC

RECENT: NEW FEATURES, NEW AREAS OF CODE ARE MORE VULNERABLE

CORE: ESSENTIAL FUNCTIONS MUST CONTINUE TO WORK

RISK: SOME AREAS OF AN APPLICATION POSE MORE RISK

CONFIGURATION SENSITIVE: CODE THAT'S DEPENDENT ON ENVIRONMENT

SETTINGS CAN BE VULNERABLE

REPAIRED: BUG FIXES CAN INTRODUCE NEW ISSUES

CHRONIC: SOME AREAS IN AN APPLICATION MAY BE PERPETUALLY

SENSITIVE TO BREAKING



### SOME MORE...

- → PERSONAS
- → Test Tours: Heuristics to Guide exploratory testing

  HTTP://www.developsense.com/blog/2009/04/of-testing
  Tours-and-dashboards/ and http://test
  ABLE.BLOGSPOT.com/2013/11/web-testing-exploratory
  Tours.html
- → SOFTWARE QUALITY CHARACTERISTICS

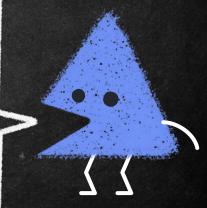
  HTTP://THETESTEYE.COM/POSTERS/THETESTEYE\_SOFTWAREQU

  ALITYCHARACTERISTICS.PDF



### EXERCISE: USING A HEURISTIC

- → EACH CHOOSE A HEURISTIC:
  - CHEAT SHEET
  - → Tours
  - QUALITY CHARACTERISTICS
- → FIND OUT WHAT THE HEURISTIC IS AND HOW YOU COULD USE IT IN YOUR TESTING (15 MIN)
- → Present your findings to the group (5 min)

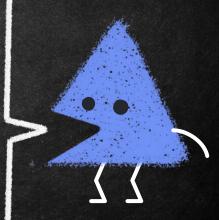


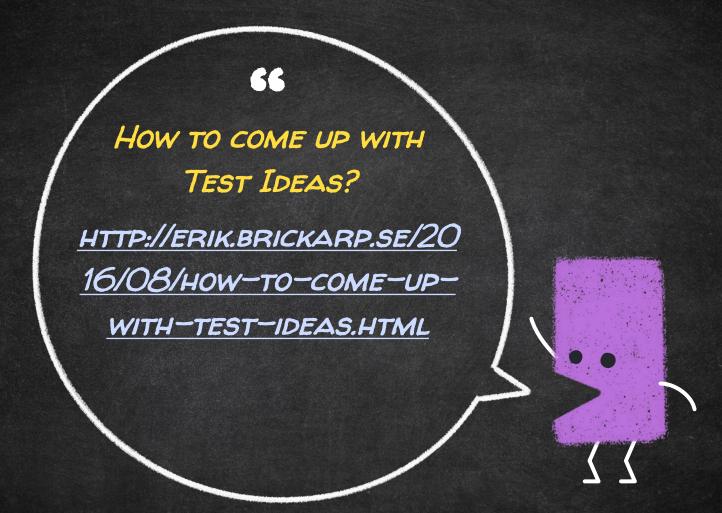


### EXERCISE: DISCUSSION ON TESTIDEAS

→ How do you come up with testideas?

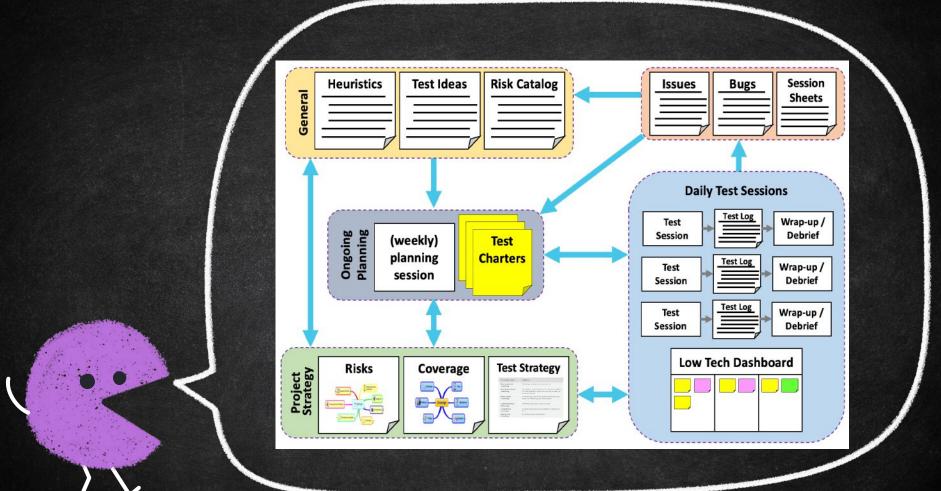
→ Do you use Heuristics? Lists?





# SESSION BASED TEST MANAGEMENT





### TEST CHARTERS

A CHARTER IS A ONE- TO THREE-SENTENCE MISSION FOR A TESTING SESSION

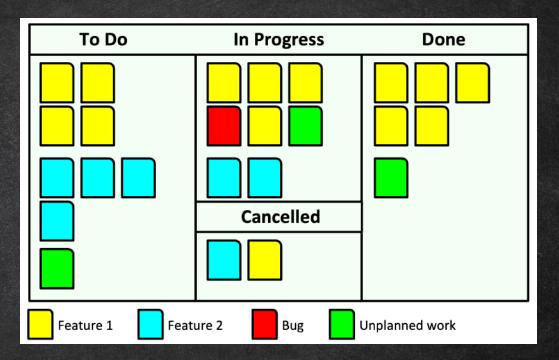
Explore (target)
With (resources)
To discover (information)

Explore Application X import menu. Identify important features with the goal of developing a coverage outline and a risk list.

My mission is to test <insert risk here> to <insert coverage here> Read Chapter 4 of the product specification. Prepare a mind map, and discuss it with Peter (programmer) and David (architect).



### TESTING DASHBOARD



### CHARTER PATTERNS: EVOLVING TEST STRATEGY

#### INTAKE SESSIONS (GOAL: NEGOTIATE MISSION)

→ "INTERVIEW THE PROJECT MANAGER ABOUT TESTING XMIND."

#### SURVEY SESSIONS (GOAL: LEARN PRODUCT)

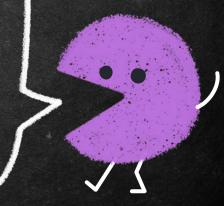
→ "FAMILIARIZE YOURSELF WITH XMIND."

#### SETUP SESSIONS (GOAL: CREATE TESTING INFRASTRUCTURE)

→ "DEVELOP A LIBRARY OF MINDMAPS FOR TESTING XMIND."

#### ANALYSIS SESSIONS (GOAL: GET IDEAS FOR DEEP COVERAGE)

- → "IDENTIFY THE PRIMARY FUNCTIONS OF XMIND."
- → "CONSTRUCT A PRODUCT COVERAGE OUTLINE."
- → "BRAINSTORM TEST IDEAS."
- → "PREPARE A STATE MODEL FOR STATE-BASED TESTING."
- → "PERFORM A COMPONENT RISK—ANALYSIS TO GUIDE FURTHER TESTING."
- → "DISCOVER ALL THE ERROR MESSAGES IN XMIND."



### CHARTER PATTERNS: EVOLVING TEST STRATEGY

#### DEEP COVERAGE SESSIONS (GOAL: FIND THE RIGHT BUGS)

- → "PERFORM SCENARIO TESTING BASED ON THE SCENARIO PLAYBOOK."
- → "PERFORM A TOUR THAT ACHIEVES DOUBLE-TRANSITION STATE COVERAGE."
- → "PERFORM STEEPLECHASE BOUNDARY TESTING ON THE MAJOR DATA ITEMS."
- → "Test each error message in Xmind."
- → "PERFORM A FUNCTION TOUR USING THE 2300 NODE MINDMAP."

#### CLOSURE SESSIONS (GOAL: GET READY TO RELEASE)

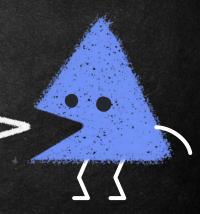
- → "VERIFY THE LATEST FIXES."
- → "RE-TEST TUTORIAL WITH THE LATEST BUILD."
- → "REVIEW HELP FILES AND README."
- → "GO OVER DEFERRED BUGS WITH CUSTOMER SUPPORT PEOPLE."
- → "PERFORM CLEAN—MACHINE INSTALL TEST."



### EXERCISE: CREATE CHARTERS

- → CREATE A LIST OF AT LEAST 5 CHARTERS FOR OUR TEST APPLICATION:
- → HTTP://DEMOWEBSHOP.TRICENTIS.COM/

WE WILL DEBRIEF TOGETHER

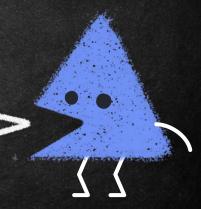




### EXERCISE: TEST A CHARTER

- → SELECT A CHARTER FOR DEEP TESTING (30 MINUTES)
- -> EXECUTE A DEEP TESTING SESSION ON THIS CHARTER

WE WILL DEBRIEF TOGETHER





# A DEBRIEF HEURISTIC: PROOF

PAST: WHAT HAPPENED DURING THE SESSION?

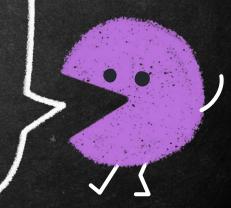
RESULTS: WHAT WAS ACHIEVED DURING THE SESSION?

OUTLOOK: WHAT STILL NEEDS TO BE DONE?

OBSTACLES: WHAT GOT IN THE WAY OF GOOD TESTING?

FEELINGS: How does the tester feel about all this?

- → DISCUSS SESSION AND ASK QUESTIONS: NEW SESSIONS MAY BE CHARTERED
- DISCUSS SESSION SHEET TO ASSURE THAT BOTH UNDERSTAND IT
- COACH & LEARN!



### EXERCISE: DEBRIEF YOUR SESSION

→ DO A DEBRIEF OF THE LAST SESSION AND USE PROOF

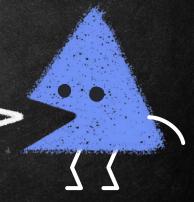
PAST: WHAT HAPPENED DURING THE SESSION?

RESULTS: WHAT WAS ACHIEVED DURING THE SESSION?

OUTLOOK: WHAT STILL NEEDS TO BE DONE?

OBSTACLES: WHAT GOT IN THE WAY OF GOOD TESTING?

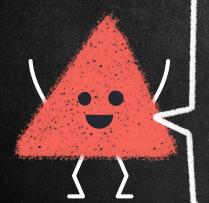
FEELINGS: How does the tester feel about all this?

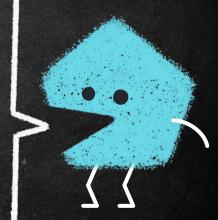






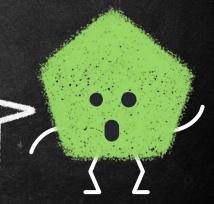
LET'S WRAP THIS THING UP!





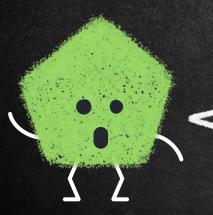
### WHY ET IS POWERFUL

- → Do what really needs to be done
- → It facilitates experimentation, serendipity, discovery and learning
- → It finds more bugs
- → Create engagement: help people use their brains
- → Take advantage of tacit knowledge and skill
- → Use insights from experiments to inform the next
- → Using the full creative power of exploration



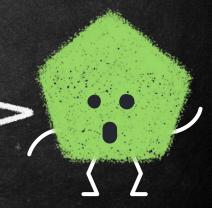
### CHALLENGES?

- → Exploratory Testing = (like testing in general) is not easy and needs (a lot) training and practice
- → Often seen as most difficult:
  - → Note taking
  - → Test ideas
  - → Coverage reporting
  - → Managing ET



### HOW TO MASTER ET?

- → Just do it!
- → Practice, practice and practice some more...
- → Pair with colleagues
- → Debrief & retrospect
- → Testing Dojo
- → TestOpsy
- → Train creating test ideas fast
- → Learn more about observation, experiments, biases, social science, ....



"Testing is about questioning & learning under conditions of fundamental uncertainty."

**RST** 

If you cannot trust your testers, you do not make them write more detailed test case. But you train them!

Rikard Edaren - EuroStar 2012 Gitte Ottosen - ATD 2012

"A tester knows that things can be different"

Jerry Weinberg

"I've participated and organized many testing competitions. I've never seen someone win such a competition by writing down tests. Doesn't that tell us something?"

James Bach





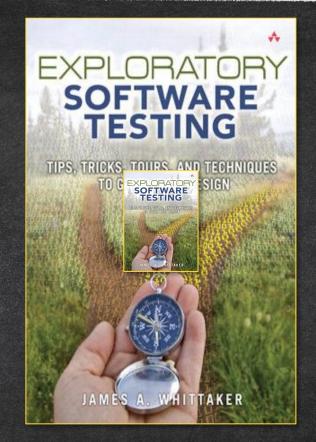
### Explore It!

Reduce Risk and Increase Confidence with Exploratory Testing

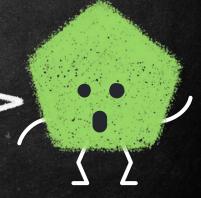


Elisabeth Hendrickson

Edited by Jacquelyn Carter







QUESTIONS

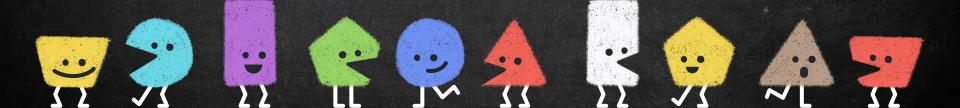
OR

REMARKS?

OR
FEEDBACK?
A STORY
MAYBE?



# THANK YOU!





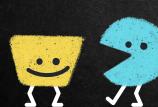


HUIB@QUALITYACCELEARATORS.NL
@HUIBSCHOOTS
HTTP://www.huibschoots.nl

ALEX.SCHLADEBECK@BREDEX.DE

@ALEX\_SCHL

HTTP://WWW.SCHLADEBECK.DE













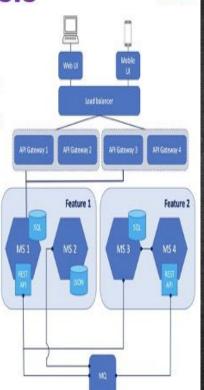






### Things to ask during Risk Analysis

- [pointing at a figure in a diagram] What if this function doesn't work?
- Can this function ever be invoked at the wrong time?
- [pointing at any part of the diagram] What error check are we doing here?
- [pointing at an arrow] What exactly does this arrow mean? What happens if it doesn't work?
- [pointing at a data stream] If the data going from here to there is somehow corrupted, how do we see it? What happens then?
- What is the greatest load this process can handle?
- On which external components, services, configurations does this process depend?
- Can the sources or components drawn here be influenced by another process? How can I crash the process?
- Is this the whole story? What did you leave out?
- How do you test this while you are building it?
- What are you most worried about? What do you think we need to test?





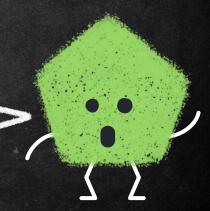
### REFERENCES & MORE INFO

- → EXPLORE IT (BOOK) BY ELISABETH HENDRICKSON
- → APPLYING SESSION—BASED TEST MANAGEMENT BY DJUKA SELENDIC HTTPS://www.infoq.com/articles/session—based—test—management/
- → "EVOLVING UNDERSTANDING OF EXPLORATORY TESTING" EN "STRUCTURES OF EXPLORATORY TESTING" HTTP://www.developsense.com/resources.html
- TEST CASES ARE NOT TESTING: TOWARDS A CULTURE OF TEST PERFORMANCE BY JAMES BACH & AARON HODDER HTTPS://www.satisfice.com/download/test-cases-are-not-testing
- → Considerations when testing a software application in a context-driven way HTTPS://www.huibschoots.nl/wordpress/?p=2781
- → LITTLE BLACK BOOK ON TEST DESIGN

  HTTP://www.thetesteye.com/papers/TheLittleBlackBookOnTestDesign.pdf
- → How to come up with test ideas by Erik Brickarp <a href="http://erik.brickarp.se/2016/08/how-to-come-up-with-test-ideas.html">http://erik.brickarp.se/2016/08/how-to-come-up-with-test-ideas.html</a>
- → MICROHEURISTICS BY ALEX SCHLADEBECK HTTPS://SCHLADEBECK.DE/MICROHEURISTICS
- → TEST INSANE TESTING MIND MAPS <u>HTTP://APPS.TESTINSANE.COM/MINDMAPS/</u>
- → RAPID SOFTWARE TESTING HTTPS://RAPID-SOFTWARE-TESTING.COM/
- → EXPERIENCE REPORT ON USING A PRODUCT COVERAGE OUTLINE HTTP://PRAIRIETESTER.BLOGSPOT.NL/2013/09/MONDAY-PRODUCT-COVERAGE-OUTLINES.HTML
- → TESTING STORY HTTP://www.developsense.com/blog/2012/02/braiding-the-stories/
- → COLLECTED RESOURCES: <u>HTTPS://www.huibschoots.nl/links</u>

TEMPLATE FOR SLIDES BY:





### More References & even more info

#### TestOpsy:

- → EXPLORATORY TESTING SKILLS & DYNAMICS (IN RST APPENDICES) -
- → SKILLS MIND MAP HTTP://GOO.GL/VCQOIN
- → Webinar Testopsies Dissecting Your Testing https://youtu.be/dz2g\_LUt2Wk
- → REPORT OF A TESTOPSY HTTP://PATTERNSOFPROOF.WORDPRESS.COM/2015/03/07/on-PERFORMING-AN-AUTOPSY/
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