Make Your *Impact* with Testing

by Maaret Pyhäjärvi

VAISALA

HUSTEF
HUNGARIAN SOFTWARE TESTING FORUM

@maaretp@mas.to

Testing is a profession specialicing in **FEEDBACK**.

I

❤️

testing

4

Destroying code

developer was proud of
in like an hour and a half

3

Software *can actually work* when delivered to us.

* 2261 issues over 2,5 years

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2

Shortening releases
from months to hours
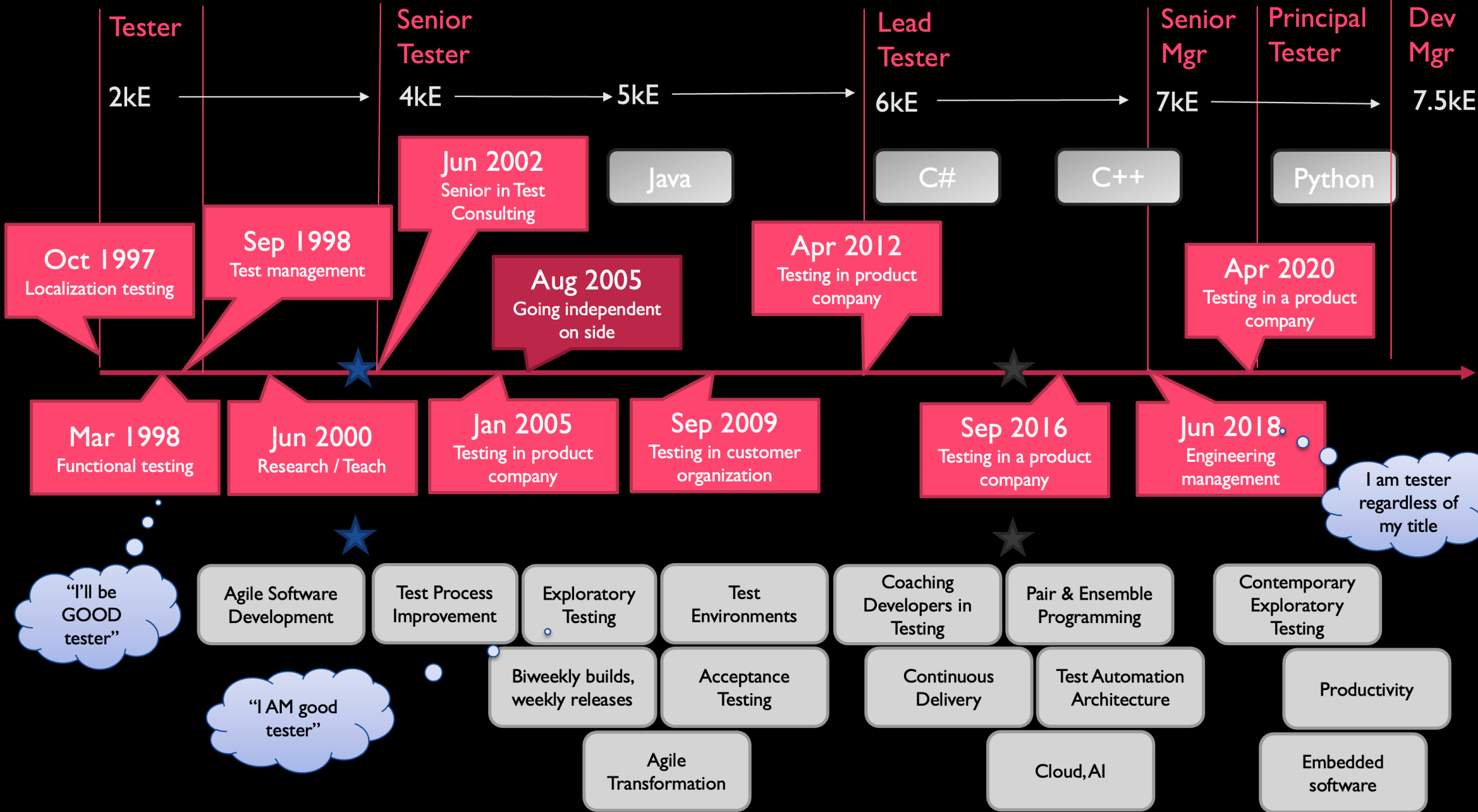
I

Retiring from *public speaking.*

I became a tester because of you.
I am better because of you.

I left testing because of you.

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Position titles
and salaries

Testing is *Work* with *Career*

Pivotal Moments

EXPLORATORY TESTING

1998: Test Design Responsibility

2005: A4 Paper Self Management

WALKING VOCABULARY OF TEST

2001: Researching testing at university

2003: Sampling 30 companies for testing

OVERCOMING FEAR OF PUBLIC SPEAKING

2000: Researching testing at university

AGILE vs PLAN-DRIVEN

2005: Agile Transformation

2009: 30-day acceptance in end

PAIR and ENSEMBLE TESTING

2014: Ensemble Programming / Testing

2015: Pair & Ensemble Testing Tours

JOB CRAFTING

2012: Leaving Test Manager position to be a tester

2017: Labeling for overlapping perspectives

2018: Crafting MANAGER position

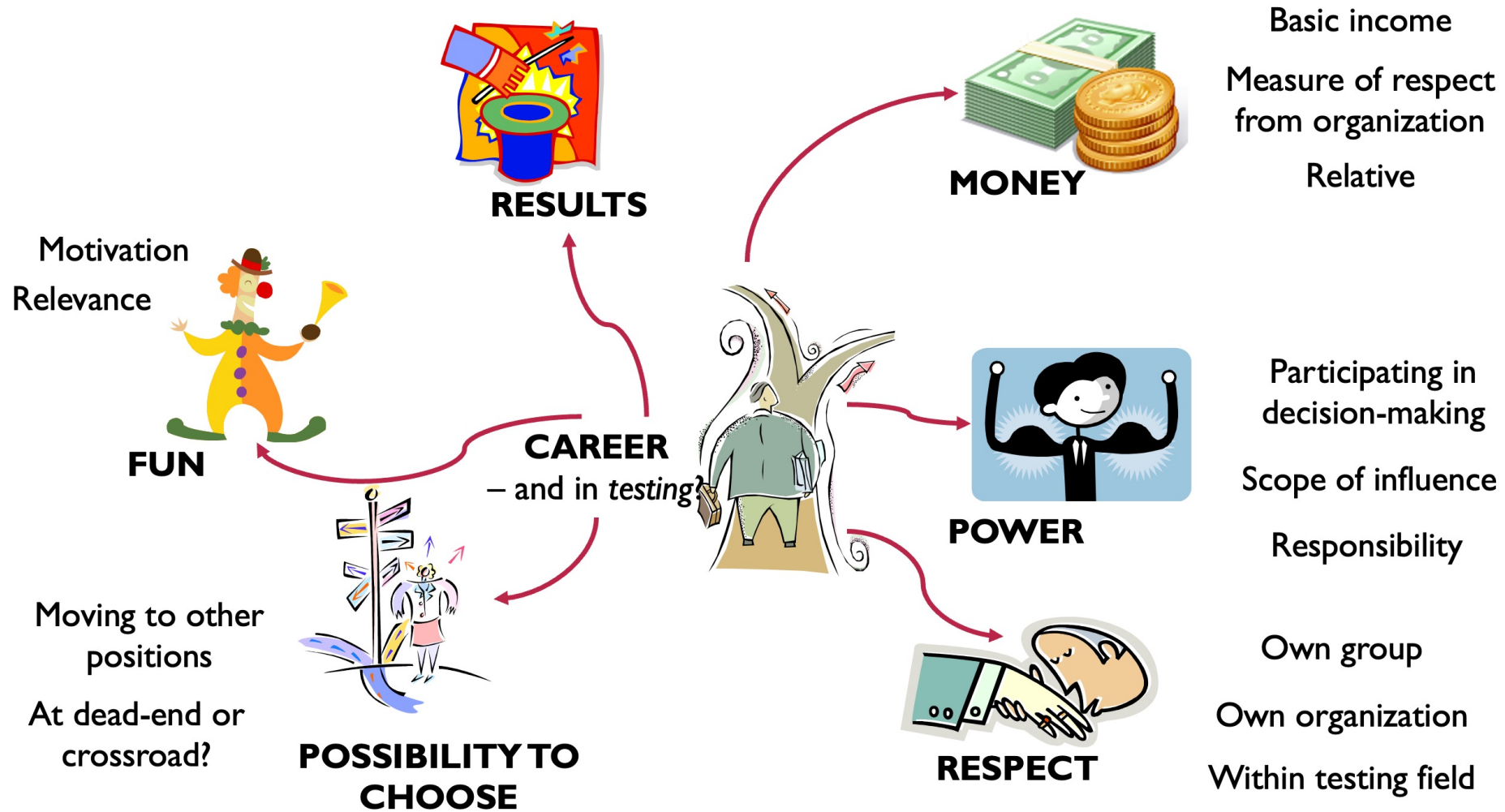2023: Crafting MANAGER position in hierarchical org

CONTEMPORARY EXPLORATORY TESTING

2018: Manual/Automated Unification

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Software industry doubles every five years.

→ Different people with DIFFERENT first 5 years of focus

Career *2007

RESULTS

MONEY
- Basic income
- Measure of respect from organization
- Relative

Motivation

Relevance

FUN

CAREER
– and in *testing?*

POWER
- Participating in decision-making
- Scope of influence
- Responsibility

Moving to other positions

At dead-end or crossroad?

POSSIBILITY TO CHOOSE

RESPECT
- Own group
- Own organization
- Within testing field

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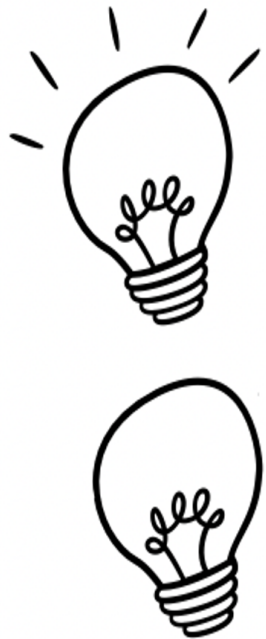
Productive

Generative
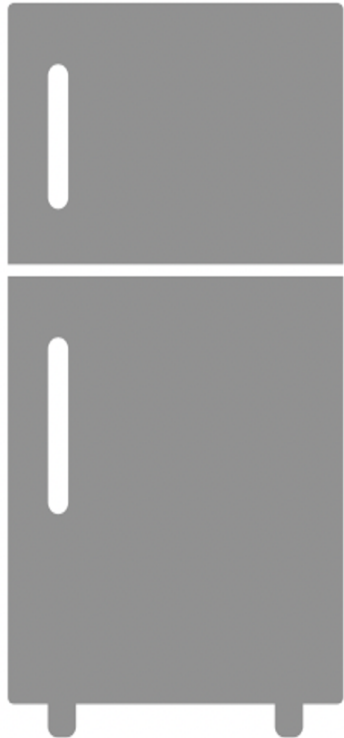
*2017

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My Product's Six Types of Testers

1. Sparse coverage, find, document with automation, fix
2. Thorough intent captured with automation
3. Domain specialist, vague coverage, deep observations
4. Patient claims confirmer, requirement coverage
5. System tester, systematic coverage of perspectives in contemporary exploratory testing
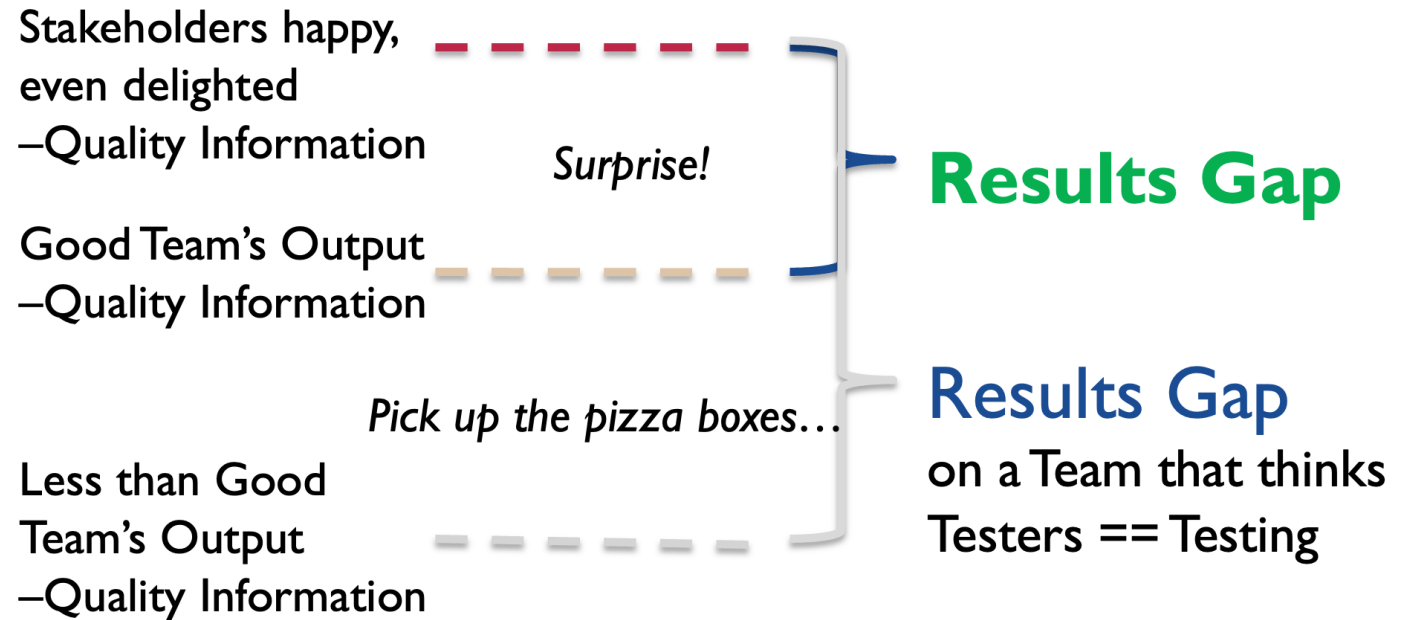6. Testing as effort, capabilities to build over time

Agency!

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Concepts Key to My Impact, with Survivorship Bias

From Fridge Lights…   …and Invisible Ink…

Stakeholders happy,
even delighted
–Quality Information

Surprise!

Results Gap

Good Team's Output
–Quality Information

Pick up the pizza boxes…

Results Gap

on a Team that thinks
Testers == Testing

Less than Good
Team's Output
–Quality Information

…to Pizza boxes.

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Picking Three Out of Ten

Career growth as Self-Service

Ensemble Programming and Testing

Framing for Job Crafting

Collaborative Credit

Radiate intent

First Follower

Gradual Change

Stories with Numbers

Agency and Pull

Opportunity Cost

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Collaborative Credit

Why are there no baby dinosaurs?

5/12 identified types of dinosaurs did not exist

Stories with numbers

S Satisfaction
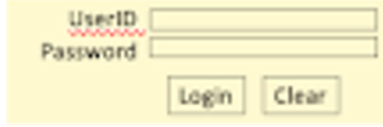Wellbeing

P Performance
Outcome

A Activity
Output

C Collaboration
Communication

E Efficiency
Speed, Waste, Flow

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The Login Example

Example: The Scales of Documenting Tests

Pure Scripted

Sample test script 1:
- Launch the Login screen
- Enter UserId: "abc"
- Enter Password: "xyz"
- Press <Enter>
- Expected result: login ok

Sample test script 2:
- Launch the Login screen
- Enter UserId: "abc"
- Enter Password: "xyz"
- Click the "Login" button
- Expected result: login ok

Sample test script 3:
- Launch the Login screen
- Enter UserId: ""
- Enter Password: "xyz"
- Press <Enter>
- Expected: login rejected

Sample test script 4:
- Launch the Login screen
- Enter UserId: ""
- Enter Password: "xyz"
- Click the "Login" button
- Expected: login rejected

Generic (Vague) Scripts

Sample generic test script 1:
- Launch the Login screen
- Enter valid UserID
- Enter valid Password
- Press <Enter> or click button
- Expected result: login ok

Sample generic test script 2:
- Launch the Login screen
- Enter invalid UserId
- Enter valid Password
- Press <Enter> or click button
- Expected result: login rejected

Checklist

Input fields:
- Valid data
- Invalid data
- Length > max
- Length = max +1
- Length = max
- Length = max −1
- Combinations of above

Actions:
- Keyboard
- Buttons

Operations:
- Add, Modify, Inquiry, Delete
- What to test for each...

UserID [_____]
Password [_____]
[Login] [Clear]

My course on Test Case Design in 200x

http://robotframework.org/WebDemo/

```
1   *** Settings ***
2   Documentation    A test suite with a single test for valid login.
3   ...
4   ...              This test has a workflow that is created using keywords in
5   ...              the imported resource file.
6   Resource         resource.robot
7
8   *** Test Cases ***
9   Valid Log
10      Open
11      Input
12      Input
13      Submi
14      Welco
15      [Tear
```
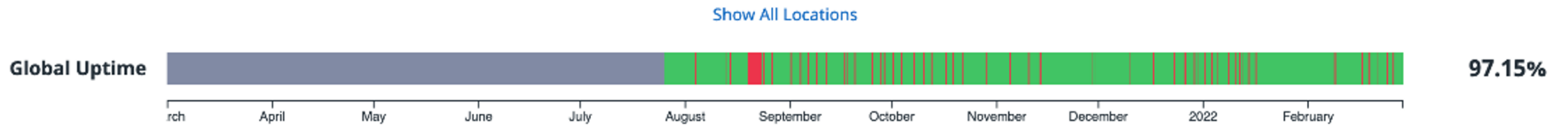
```
10   Suite Setup      Open Browser To Login Page
11   Suite Teardown   Close Browser
12   Test Setup       Go To Login Page
13   Test Template    Login With Invalid Credentials Should Fail
14   Resource         resource.robot
15
16   *** Test Cases ***                      USER NAME          PASSWORD
17   Invalid Username                        invalid            ${VALID PASSWORD}
18   Invalid Password                        ${VALID USER}      invalid
19   Invalid Username And Password           invalid            whatever
20   Empty Username                          ${EMPTY}           ${VALID PASSWORD}
21   Empty Password                          ${VALID USER}      ${EMPTY}
22   Empty Username And Password             ${EMPTY}           ${EMPTY}
23
24   *** Keywords ***
25   Login With Invalid Credentials Should Fail
26      [Arguments]    ${username}    ${password}
27      Input Username    ${username}
28      Input Password    ${password}
29      Submit Credentials
30      Login Should Have Failed
31
32   Login Should Have Failed
33      Location Should Be    ${ERROR URL}
34      Title Should Be    Error Page
```

Exploring Discovered Problems

- **Complementing functions**. While it did log me in, it did not log me out but pretended it did.
- **Performance**. While it did log me in, it took its time.
- **Session length**. While it did log me in, the two different parts of it disagreed on how long I was supposed to be in, resulting in fascinating symptoms while being logged in long enough combined with selected use of features.
- **Concurrency**. While it did log me in, it also logged me in a second time. And when it did so, it got really confused on which one of me did what.
- **Security controls**. While I could log in, the scenarios around forgetting passwords weren't quite what I would have expected.
- **Multi-user**. While it logged me in, it did not log me out fully and sharing a computer for two different user names was interesting experience.
- **Browser functions**. While it logged me in, it did not play nicely with browser functions remembering user names and passwords, and password managers.
- **Environment**. While it worked on test environment, it stopped working on test environment when a component got upgraded. And it did not work in production environment without ensuring it was setup (and tested) before depending on it.

Show All Locations

Global Uptime | 15% ... | 97.15%

rch   April   May   June   July   August   September   October   November   December   2022   February

360d x 24h/d x 2.85% = 246,24h

Time used on warning about test automation is away from succeeding with it.

* opportunity cost

Extra Concepts We Should Talk About L8R

* In future my work is quality of connections over quantity, and I love meaningful conversations between peers

Career growth as Self-Service

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Stories with Numbers

Agency and Pull

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Maaret Pyhäjärvi (from Finland)

VAISALA

EuroSTAR
TESTING EXCELLENCE AWARD
2020

AGILE TESTING DAYS
MIATPP
Most Influential Agile Testing Professional Person
2016

tivi
100 ICT-influencers in Finland
2019 - 2022

Exploratory Testing
https://exploratorytestingacademy.com

Ohjelmistotestaus ry

TECH VOICES
https://techvoices.org

Email: maaret@iki.fi
Mastodon: @maaretp@mas.to
Web: maaretp.com
Blog: visible-quality.blogspot.fi
(please connect with me through Mastodon or LinkedIn)

#PayToSpeak #TechVoices
#EnsembleTesting #EnsembleProgramming #StrongStylePairing
#ExploratoryTesting #TestAutomation
#ModernAgile
#AwesomeTesters

Se **TIVIA**

@maaretp@mas.to