

# Examine your testing *skills*

the really quick(1h30) workshop version

# Many thanks for creating blackboxes

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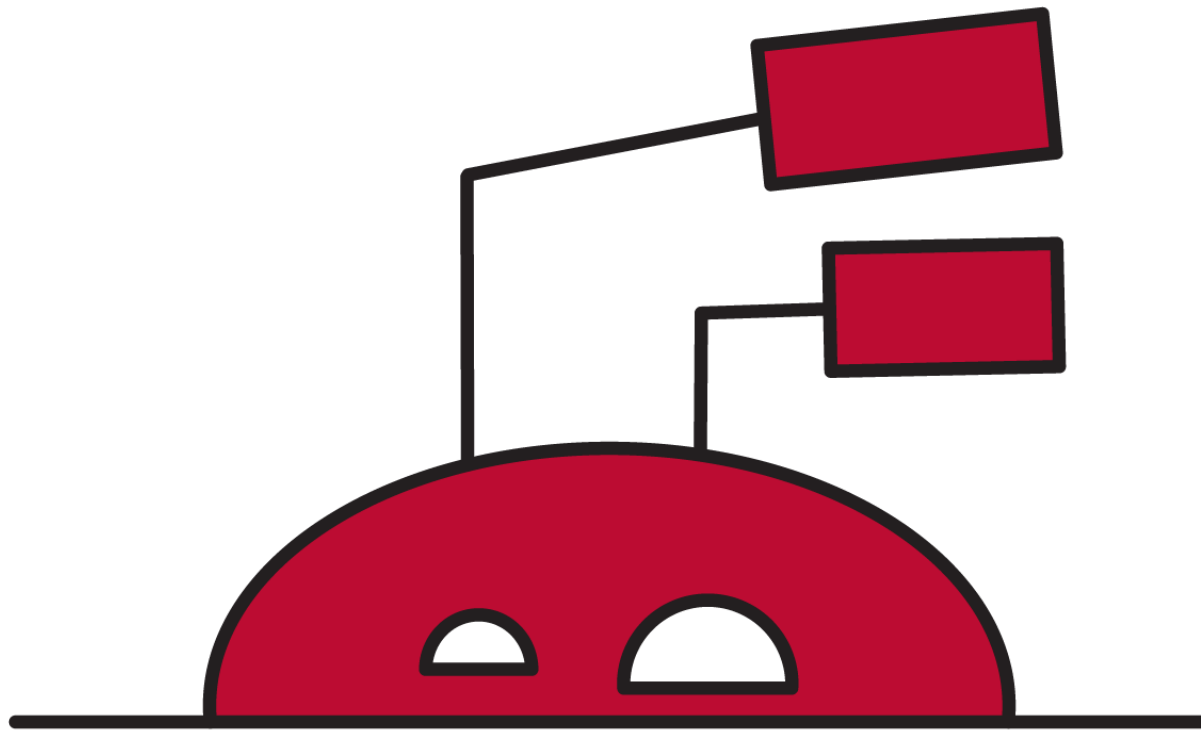
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Welcome!



# My reasons

Evaluate my work

Get a direction for development

Improve in teaching

## Alexandra's map of skills

### Human-Human Interaction skills

- asking questions(in a simple, non-offensive manner)
- have an empathetic approach
- be appreciative, considerate
- have the ability to explain my train of thoughts
- collect info effectively from team members
- offer my availability
- give useful feedback
- receive and incorporate useful feedback
- write effective bug reports

+ skill

### Risk controlling skills

- think critically
- use counterfactual reasoning
- deal with uncertainty and incompleteness
- prioritize
- work in a timeboxed manner
- decide when to stop
- analyze existing data

+ skill

### Rule of thumb skills

- focus
- defocus
- break a problem into multiple smaller problems
- use diverse view points
- stick with a consistent view point
- use curiosity
- exercise stubbornness
- don't use stubbornness
- create disconfirmatory experiments
- question things which seem "given"
- fix variables and vary one at a time
- decide when a skill is appropriate for a situation
- "steal" relevant knowledge to apply to my situations
- use helpful analogies

+ skill

### Information visualization skills

- describe coverage
- make maps of features under test
- create valuable documentation
- choose appropriate expression medium - e.g. whiteboard

+ skill

### Attitude determining skills

- find multiple ways to learn from experiences
- generate functionality flows
- analyze information
- recognize patterns
- read actively
- create models
- use models
- read code
- make logical connections
- change how testing is done and seen in the team
- collect relevant information from different sources
- handle complexity well
- evaluate the testing work
- self-assess my work
- adapt my working style to the team I am part of
- write good code
- detect the critical conditions of bugs
- explain models to test my understanding

+ skill

# Past workshops

Sweden – Let's Test – May 2015

Romania – Autumn Testing Camp by Tabara de Testare – Sept 2015

South Africa – Let's Test SA – Nov 2015

[testingskills.thesoftwaretestlab.org](https://testingskills.thesoftwaretestlab.org)

skills



What are they?

What are NOT skills?

reflection...

# Levels of feedback

## **Task level**

How well tasks are understood/performed

## **Process level**

The main process needed to understand/perform tasks

## **Self-regulation level**

Self-monitoring, directing, and regulating of actions

## **Self level**

Personal evaluations and affect (usually positive) about the learner













# A guideline

```
while (there are problems you wanna solve) {  
  
    Analyze_The_Problem_Solving_Process();  
    Identify_The_Skills_You_Use();  
    Find_Categories_For_Them();  
  
}
```

Step 1:

Analyze how you solve a problem

Step 2:

Identify skills in your problem-solving process

Step 3:

Create categories for your skills

Step 4:  
Repeat!

Let's roll

Let's roll

Goal:

Create an effective **STRATEGY**  
for finding the blackbox pattern

Time:

20 mins

<http://thesoftwaretestlab.org/puzzles/puzzle1/>

0 ▾, 0 ▾, 0 ▾, 0 ▾, 0 ▾, 0 ▾

Result

0 ▾

*You got it right!*

But are you able to guess consistently if the corresponding number is correct or not? What is the logic of this number?

Check

Test me!

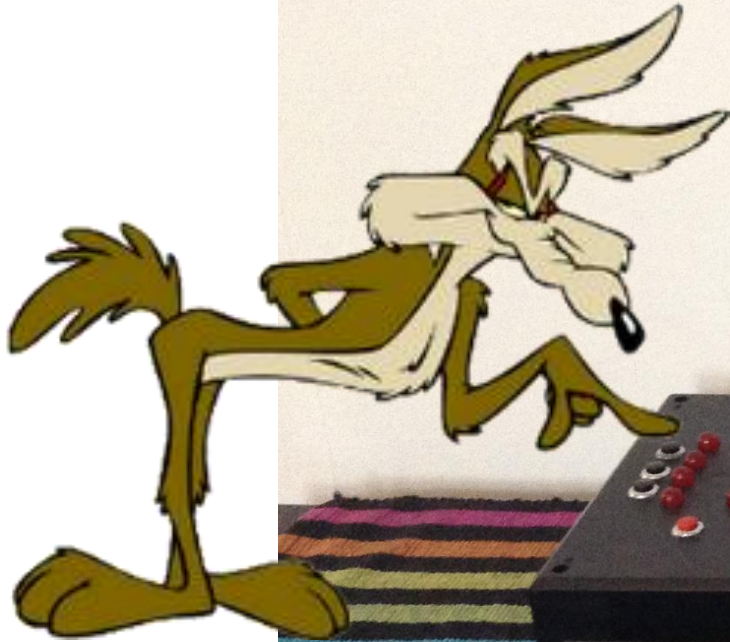


# Time for reflection





# Time for reflection



Time: 10 mins

1. How did you try to solve the problem?
2. List one/more skills you think you used
3. How could you apply the same skill/s better?
4. What other skills could you use?

Look at the differences and similarities in *skills*  
in your group

Goal:

Make the **map of skills** of your team  
aka create categories for the skills you identified

Time:

10 mins

# Debrief and conclusions

1. what, if anything, did you learn today?
2. what surprised you?
3. what, if anything, will you do differently in the future?

# References and Bibliography

- [The power of feedback](#) by John Hattie and Helen Timperley
- [How we think](#) by John Dewey
- [Discussion of the method](#) by Billy V. Koen
- [Learning through reflection](#) by Donald Clark

## Images:

- Image of buddha - [http://blogfiles.wfmu.org/KF/2013/01/30/buddha\\_timelapse.gif](http://blogfiles.wfmu.org/KF/2013/01/30/buddha_timelapse.gif)
- Image of reggie watts - <http://giphy.com/gifs/comedy-bang-reggie-watts-cbb-OGadRrJ6a8MZq>
- Images of road runner - [https://upload.wikimedia.org/wikipedia/en/5/56/Wile\\_E\\_Coyote.png](https://upload.wikimedia.org/wikipedia/en/5/56/Wile_E_Coyote.png) and [https://38.media.tumblr.com/43bec1713be83fb662b5dea528092947/tumblr\\_n9032gmfKR1r5mbvpo1\\_500.gif](https://38.media.tumblr.com/43bec1713be83fb662b5dea528092947/tumblr_n9032gmfKR1r5mbvpo1_500.gif)

Thank you!

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