About me

- Experience from component to solution level testing

- Focus on Test automation (trainer for internal test framework)

- RST Technical Coordinator / Test Architect for HDS 8000
  - Part of Ericsson Cloud infrastructure

Guys

Young software developers

Starting own super-cool project

There is a hype around QA

Goal: start testing until JavaCro17

What „Google says" about testing

- Testing proves that everything works

- Clicking around the GUI

- Boring but 'everybody do it'

- Testing is easy with right tools

- Anybody can do it

Charlie

Former Project Manager

Took some Agile trainings

Scrum Master

JavaCro'17

What Charlie thinks about testing

- It does not bring 'customer value'

- Test is costly (time and money)

- It is team's responsibility

- It is matter of personal craftsmanship

- Must be automated (100%)

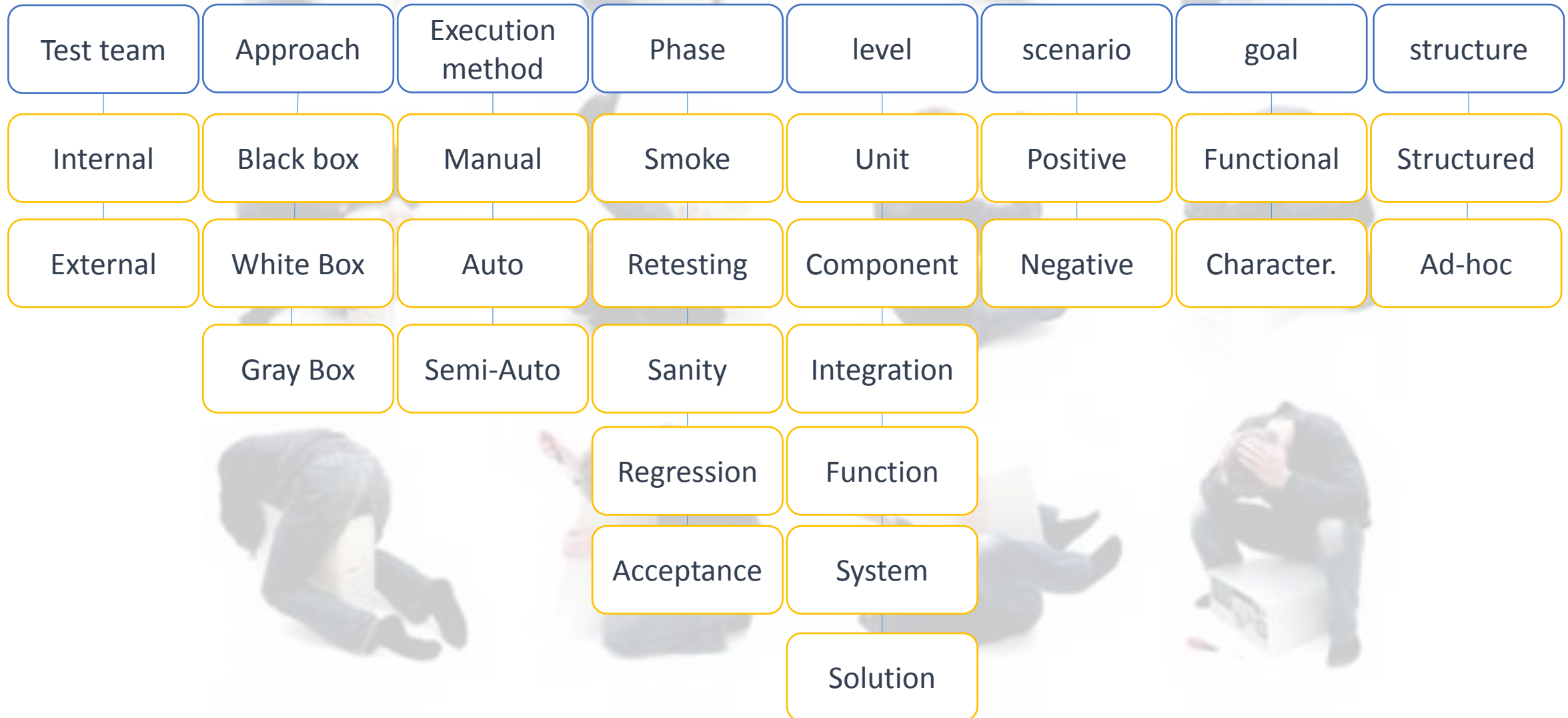- You can do something more if there is a time left

Hank

Experienced with Waterfall,
V-model, XP and Agile

QA Coach

QAma Sutra

Test team	Approach	Execution method	Phase	level	scenario	goal	structure
Internal	Black box	Manual	Smoke	Unit	Positive	Functional	Structured
External	White Box	Auto	Retesting	Component	Negative	Character.	Ad-hoc
	Gray Box	Semi-Auto	Sanity	Integration			
			Regression	Function			
			Acceptance	System			
				Solution			

Quality and expectations

- Good looking
- Good functionality – it does the job well
- Reliable – acceptable level of breakdowns or failure
- Consistency
- Durable – lasts as long as it should
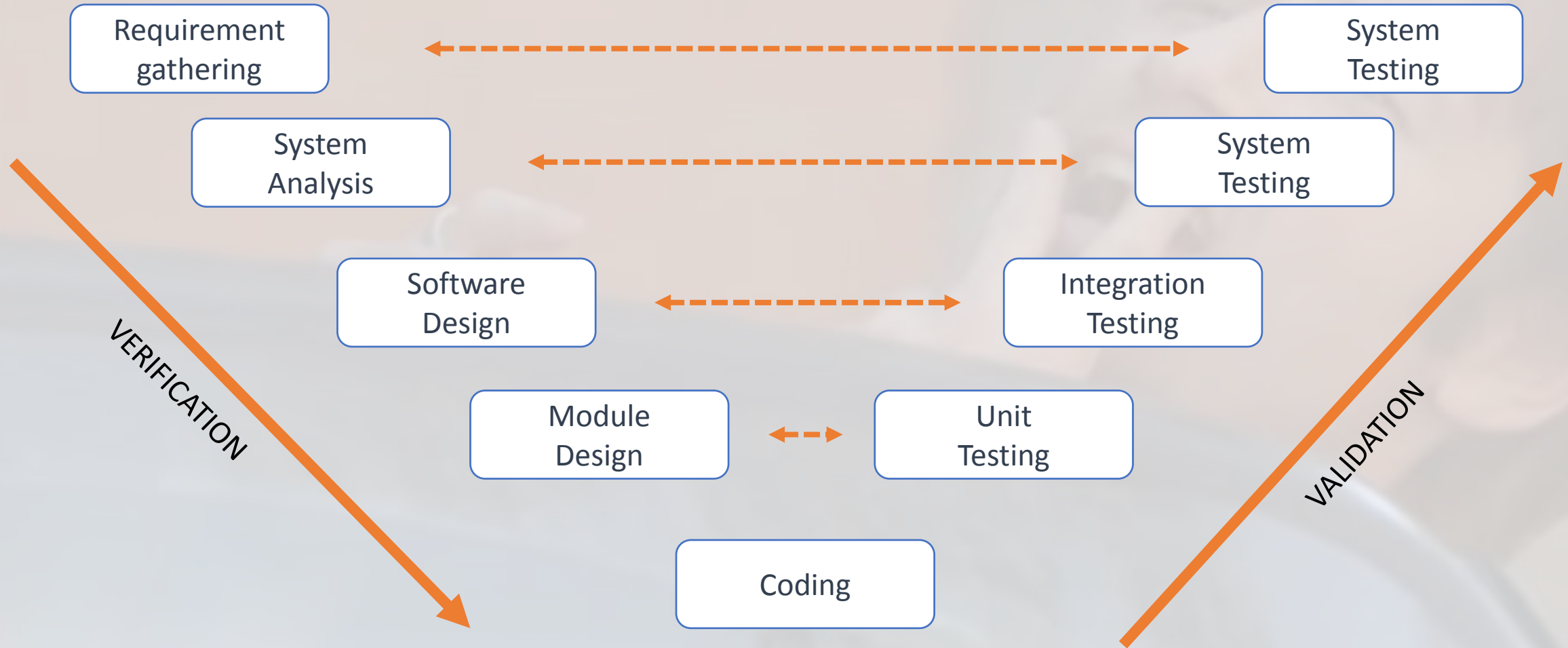- Good after sales service
- Value for money

V words

Verification:

  „Are we doing things right?"

Validation

  „Are we doing right things?"

V model

Basic facts

- Testing shows presence of defects
- Exhaustive testing is impossible
- Early testing
- Defect clustering
- Pesticide paradox
- Testing is context dependent
- Absence – of – errors fallacy
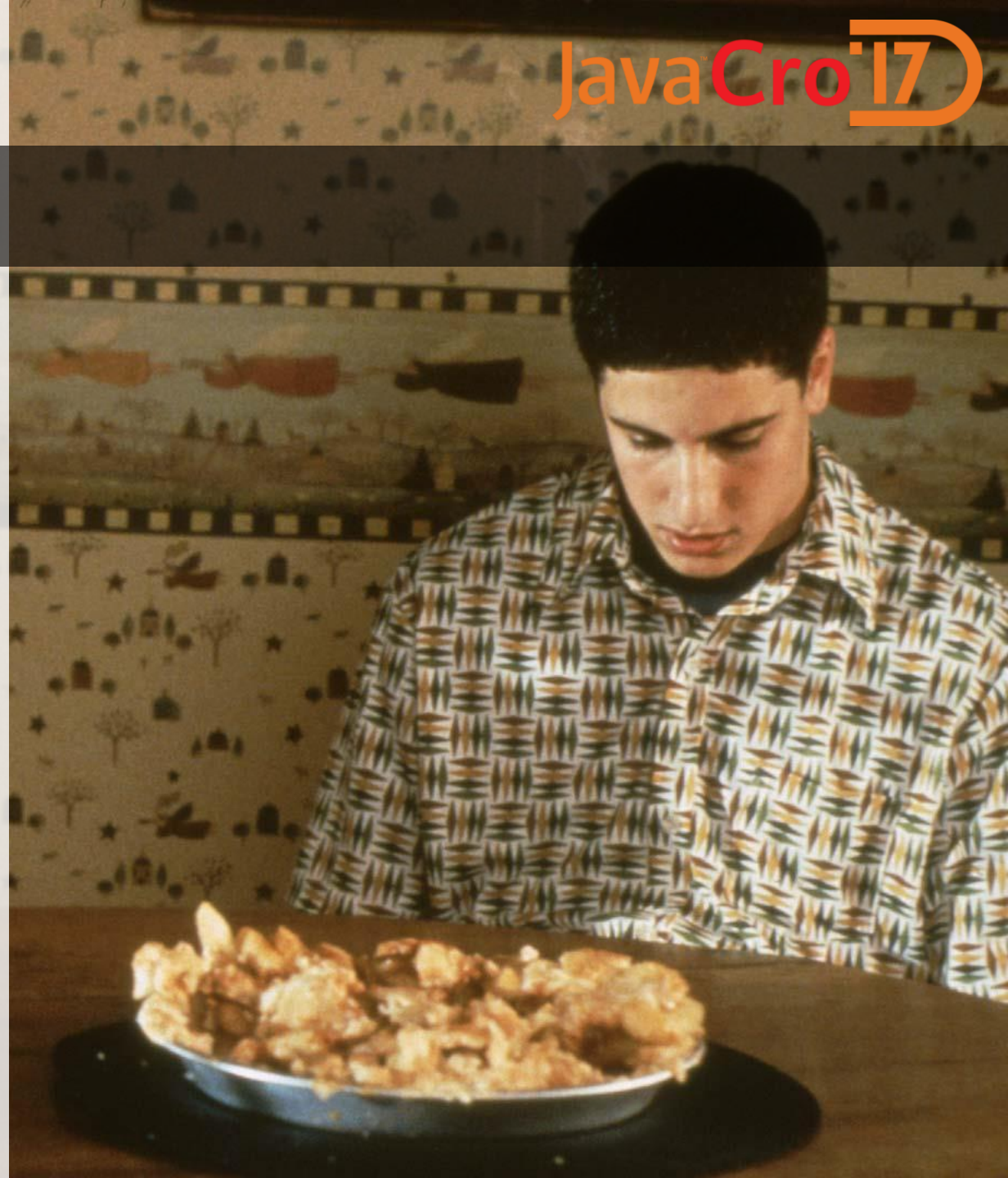
Know your process!

Let's dig into it

Issue: Holding my own

- Developers can overlook own mistakes
- Task for least experienced developer
- Ignoring issues that 'nobody would notice'

Independence levels:

Find a partner

BENEFITS

- Improved Software Quality *

- No 'insider assumptions'

- Honesty without concerns

- Separate budget
  - For competence ramp-up
  - Prevents skipping testing phase

RISKS

- Lack of integrity

- Isolation
  - Communication problems
  - Blame festivals

- Lack of commitment

- Perceived as bottleneck

Issue: *Slow to start, quick to finish*

- Testing start after development

- Testing phase used for compensating delays from development

- Used to detecting defects instead of improving quality

„Why do we never have time to do it right, but always have time to do it over?"

Issue: Overburden of tools

- Main goal for test scenario is that it can be automated.

- Seeking 100% tests automated

- Altering test scenarios to fit into tools and processes (CI/CD)

- Spending more effort on test development than on product development

„If you automate chaos, all you get is faster chaos!"

Issue: *Ignoring the obvious*

- No traceability (*Requirement-> Test Case-> Defect)*

- *Not measuring coverage*

- *Not analyzing the defects (RCA)*

„Discovering the unexpected is more important than confirming the known"

There is more than V

Testing

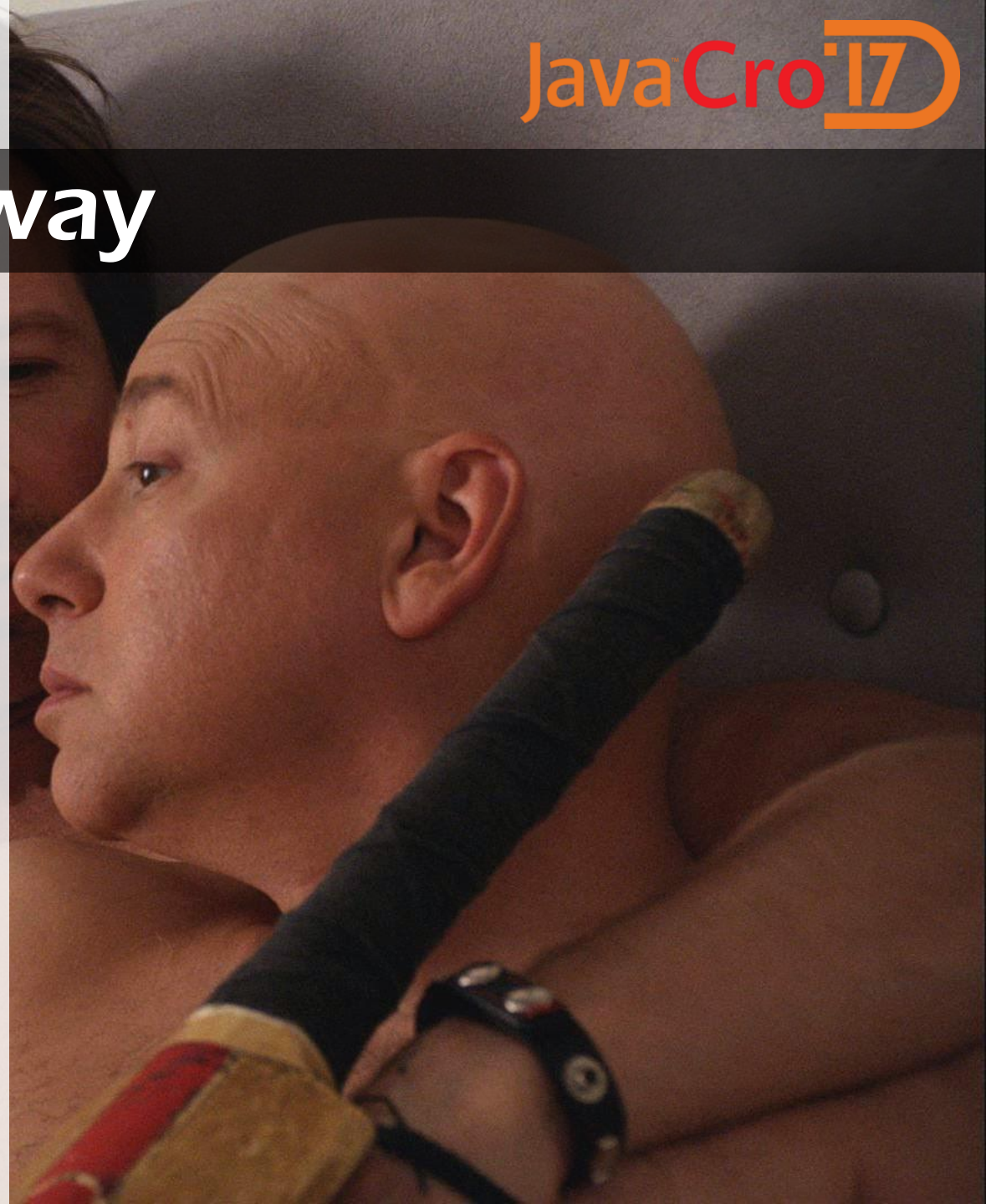- Detection of faults by inspecting & testing the product

- Are we doing right things?

- Align it with developement life cycle (never vice versa!)

Quality assurance

- Prevention of faults by (constant) inspecting & testing the process

- Are we doing things right?

- Align development life cycle (if needed)

Personality goes a long way

- Pedantic, skeptical and nitpicker
- Trust the developers but doubt the product
- Testing can be seen as destructive activity
- There is no 'yours' or 'my' problems
- „Tread lightly because your thread on their dreams"

Hank's cool quotes

"Testing is an infinite process of comparing the invisible to the ambiguous in order to avoid the unthinkable happening to the anonymous." – James Bach

"The bitterness of poor quality remains long after the sweetness of low price is forgotten" – Benjamin Franklin

"Quality is not an act, it is a habit" – Aristotle

Questions or concerns?

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