

to the Critics

Knowledge Iceberg
EMERGES
HIDES

Flow
Flowchart showing a diagonal line representing flow.

Groupflow
Using differences among participants as an opportunity, rather than an obstacle

Teamwork
BUSINESSCLUB
The fuel that allows common people to attain uncommon results.

Thanks
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Twitter: @sschuermann
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Pairing Training:
<http://tinyurl.com/pairingtraining>
<http://www.mytaxi.com/about/jobs.html>

Types of Pairing

Promiscuous Pairing
Diagram showing a staircase with people on different levels.

Pair Hinging
SEARCH AND RESOLVE
Handwritten notes on a sticky note.

Test First Pairing
Diagram showing a cycle between 'TEST' and 'DEVELOP'.

Stakeholder Pairing
Wolfgang Editor Hardware Test
@sschuermann Not getting it!

Dojo
Diagram showing a group of people in a circle.

To Pair or not to Pair

That is not the question

What preaching Pair
Programming to over 100 persons
taught me

@sschuermann
sebs@2xs.org



whois @sschuermann

Scrum Master @ intelligentApps/myTaxi

Ex-Teamlead

Kind of trainer for all things Agile

First Contact to XP in 2004

Scrum since 2008

I <3 Open source

Eve Online Covert Ops



The story of this talk

Waltz!

Allegro grazioso

The image shows a musical score for a waltz. The title "Waltz!" is at the top left. Below it, the tempo marking "Allegro grazioso" is written. The score consists of two staves: a treble staff (top) and a bass staff (bottom), both in 3/4 time. The treble staff begins with a treble clef and a key signature of one sharp (F#). The melody is composed of eighth and quarter notes, with a slur over the first three measures. The bass staff begins with a bass clef and a key signature of one sharp. It features a simple accompaniment of quarter notes and chords, with a slur under the first three measures. The piece concludes with a double bar line at the end of the fourth measure.



walitz

In parts of Europe, such as in later medieval Germany, spending time as a journeyman (Geselle, literally "companion", or in France, compagnon, with the same meaning), moving from one town to another to gain experience of different workshops, became an important part of the training of an aspirant master. Carpenters in Germany have retained the tradition of travelling journeymen even today, although only a small minority still practise it.

going on a waltz



**free workshops for
everybody**

@s0enke

Chief Trolling Officer (CTO) @Jimdo



**Reduce Bus
Factor**

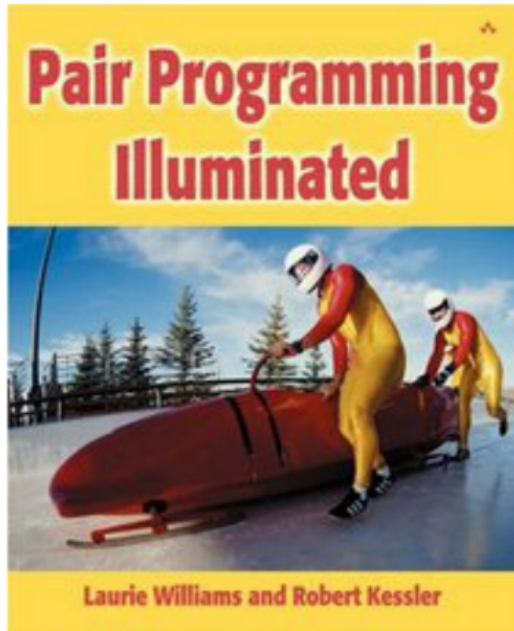
**Improve
Teamwork**

**Improve
Learning**



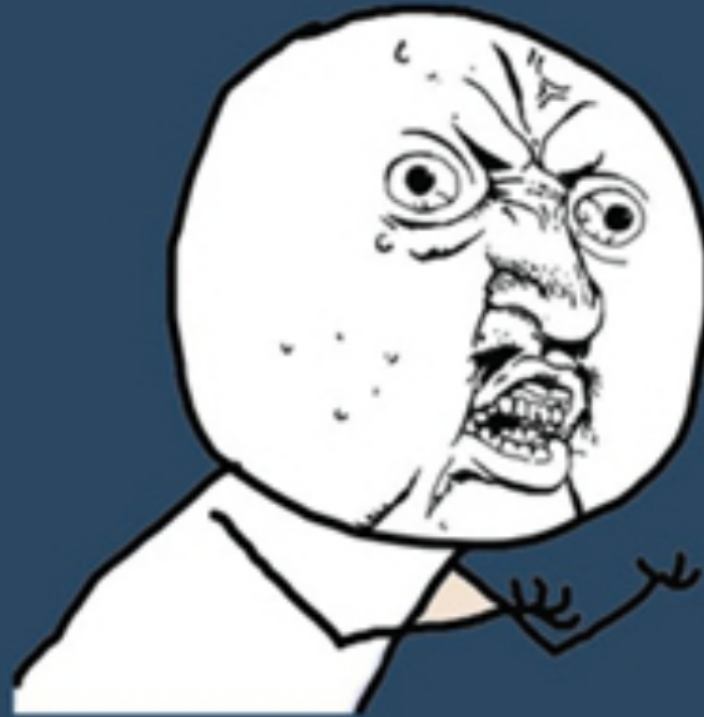
Pairprogramming Workshop

Let's read a book



"I started a bit skeptical about pairing until I read this book. After completing the book I realized that I was thoroughly mistaking about my premature conclusions and comments on the topic."

Y U NO

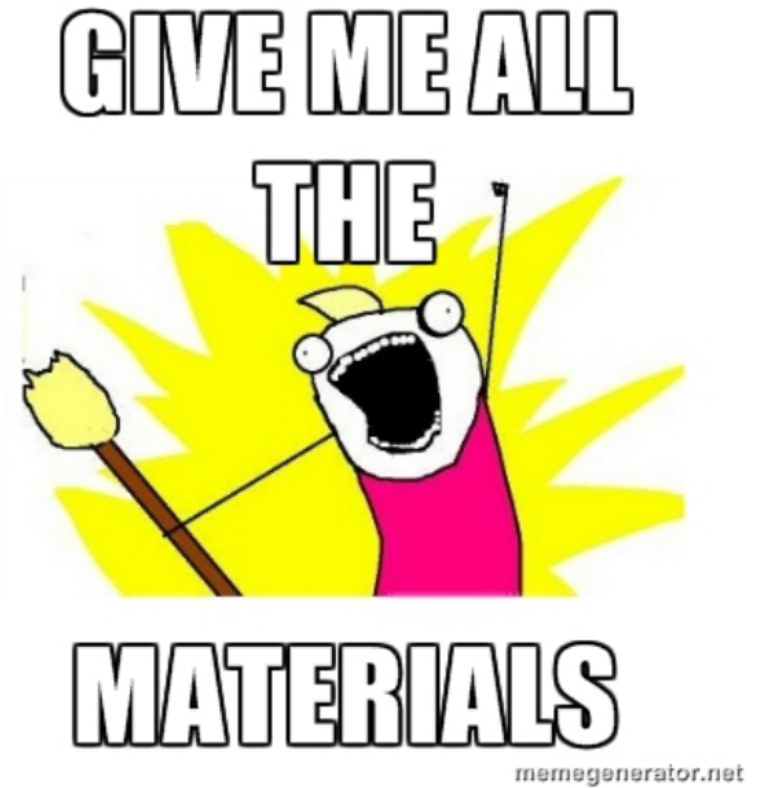


READ BOOKS?

memegenerator.net

The Workshop

- 2 day workshop
- All "sources" available
- Based on the contents of Pair Programming Illuminated
- A little more added - Dojos
- Coaches: Hold a workshop yourself
- Instructions for each Segment included
- Attribution please
- <https://github.com/DissidentTrainings/workshop-pairprogramming>



THIS IS NOT A SALESJOB
THIS IS CREATIVE COMMONS

Workshop Stats

- **over 100 Developers trained**
- **10K Kilometers on Rail**
- **pretty good feedback over all**
- **some teams really adopt the technique**



Theory

Practice

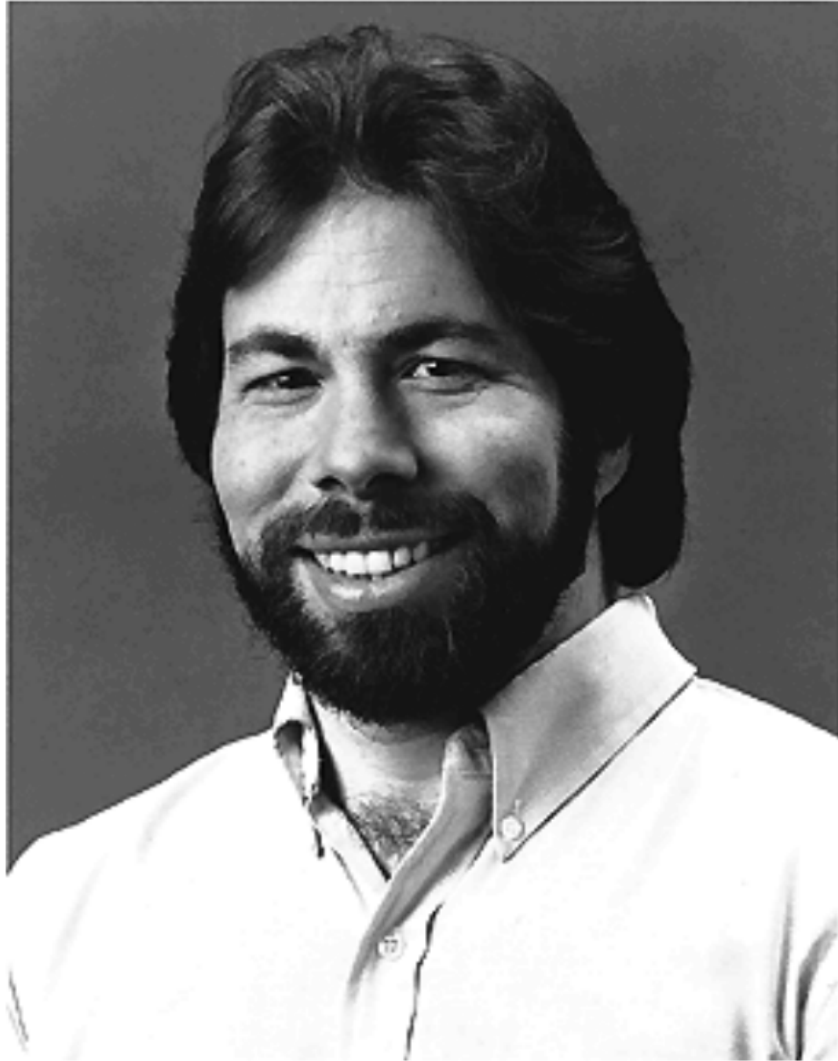
Critics

Pair Programming



Critics

Programm



WOZ

SAYZ:

“Most inventors and engineers I’ve met are like me ... they live in their heads. They’re almost like artists. In fact, the very best of them are artists. And artists work best alone I’m going to give you some advice that might be hard to take. That advice is: Work alone... Not on a committee. Not on a team.”

But decades of research show that individuals almost always perform better than groups in both quality and quantity, and group performance gets worse as group size increases.

mytimes: The rise of the new

groupthink





Thesis

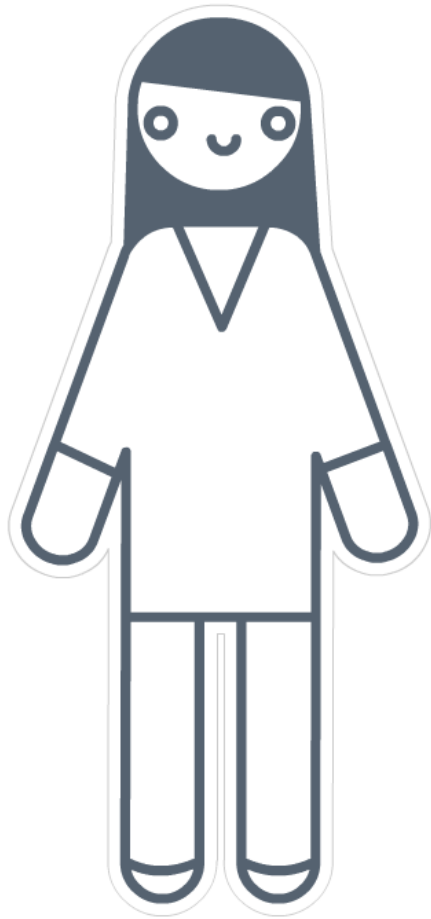
Working alone, undisturbed = good

Talking = disturbance = bad

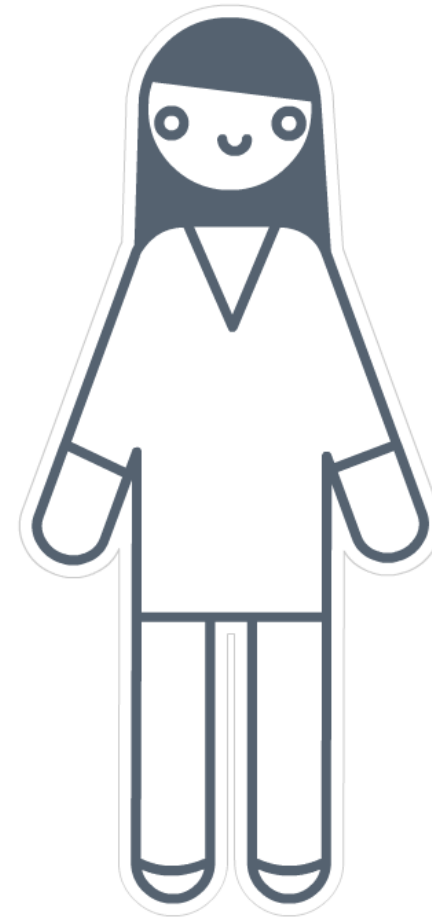


Theory

Pair Programming 101



Driver



Navigator



Switching Roles



WHY?

less

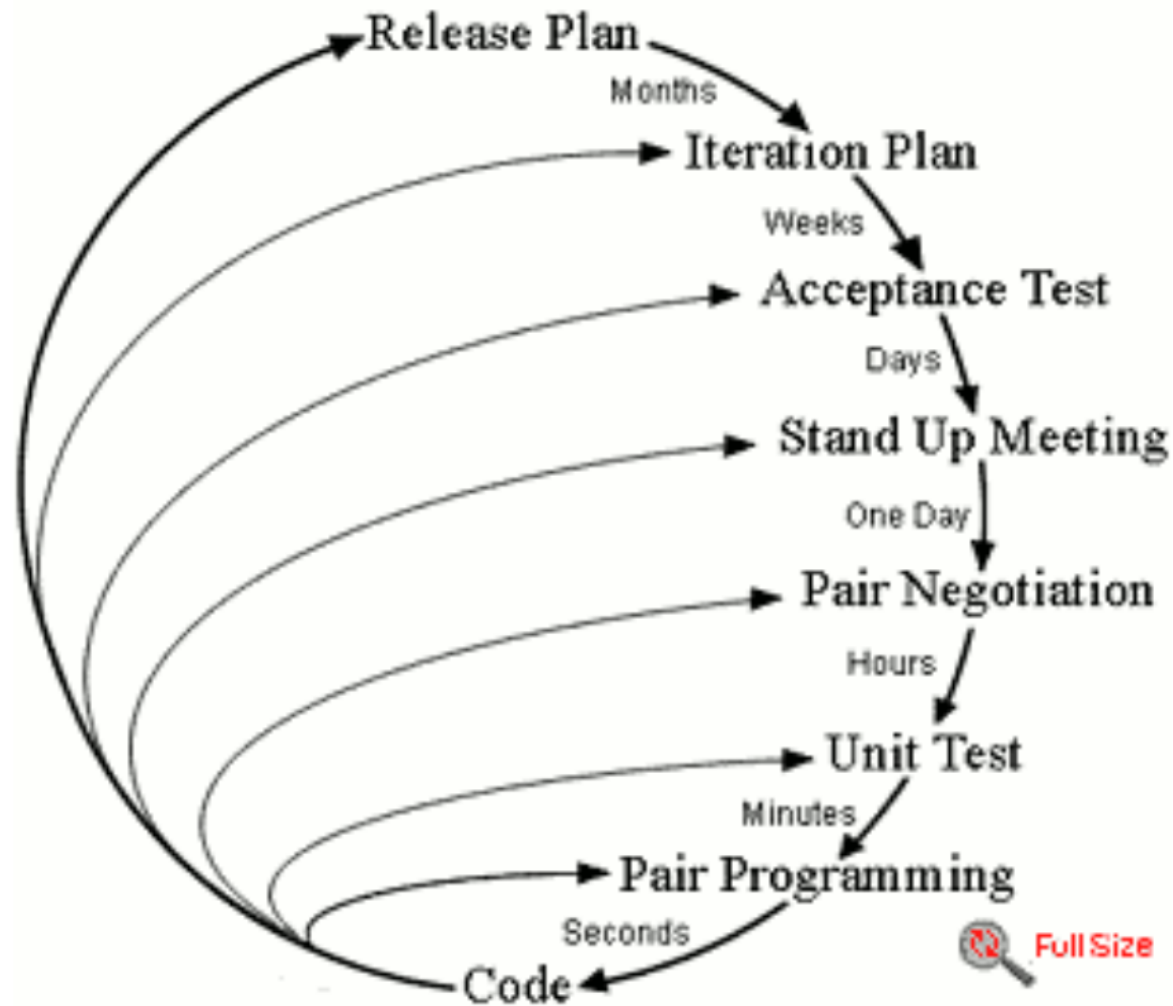
Bugs

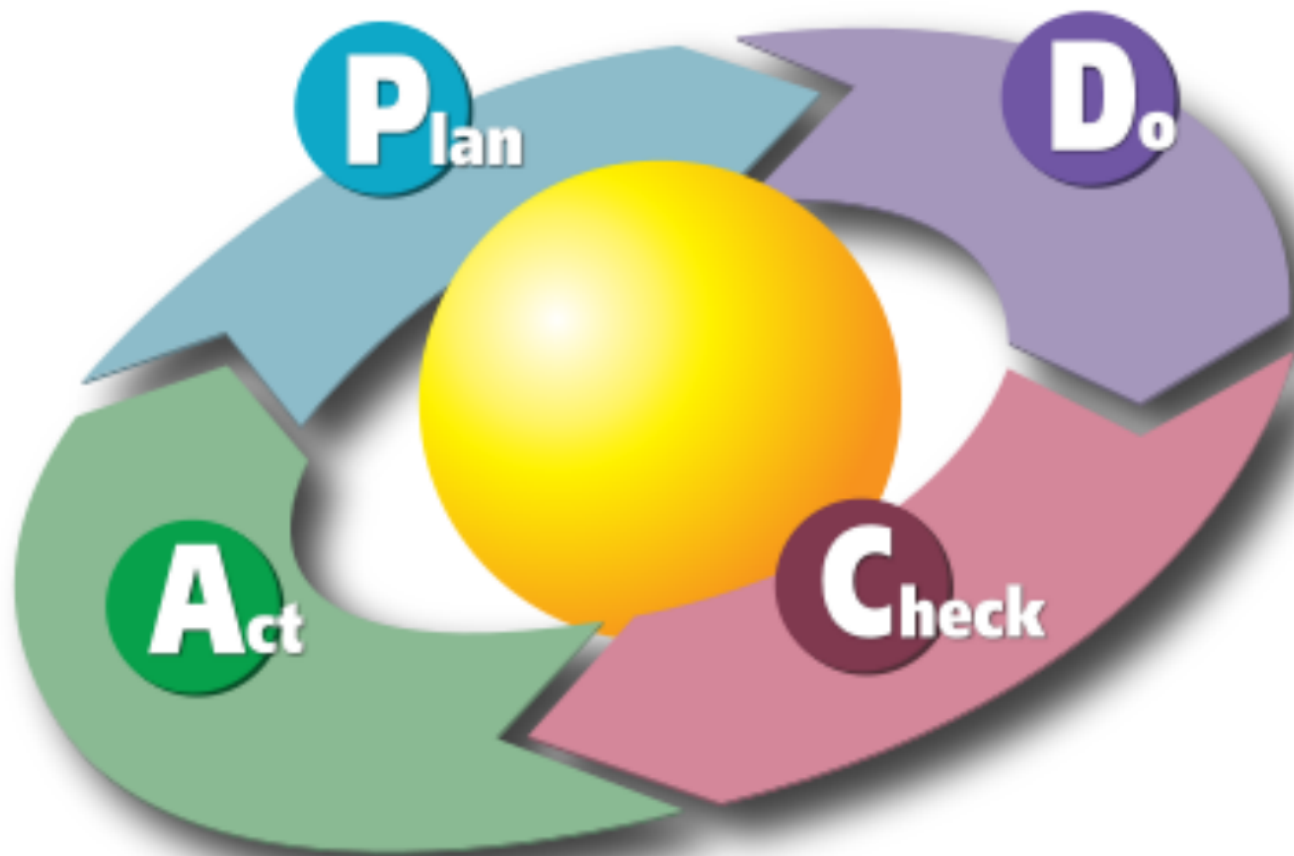
Faster Development

Knowledge Exchange

XP Practice

Planning/Feedback Loops







Practice

XP Values

Value

Communication

Value

Simplicity

Value

Feedback

Value

Respect

Value

Courage

XP Principles

Principle Feedback

Principle Embracing Change

Principle

Assuming simplicity



7 Synergies

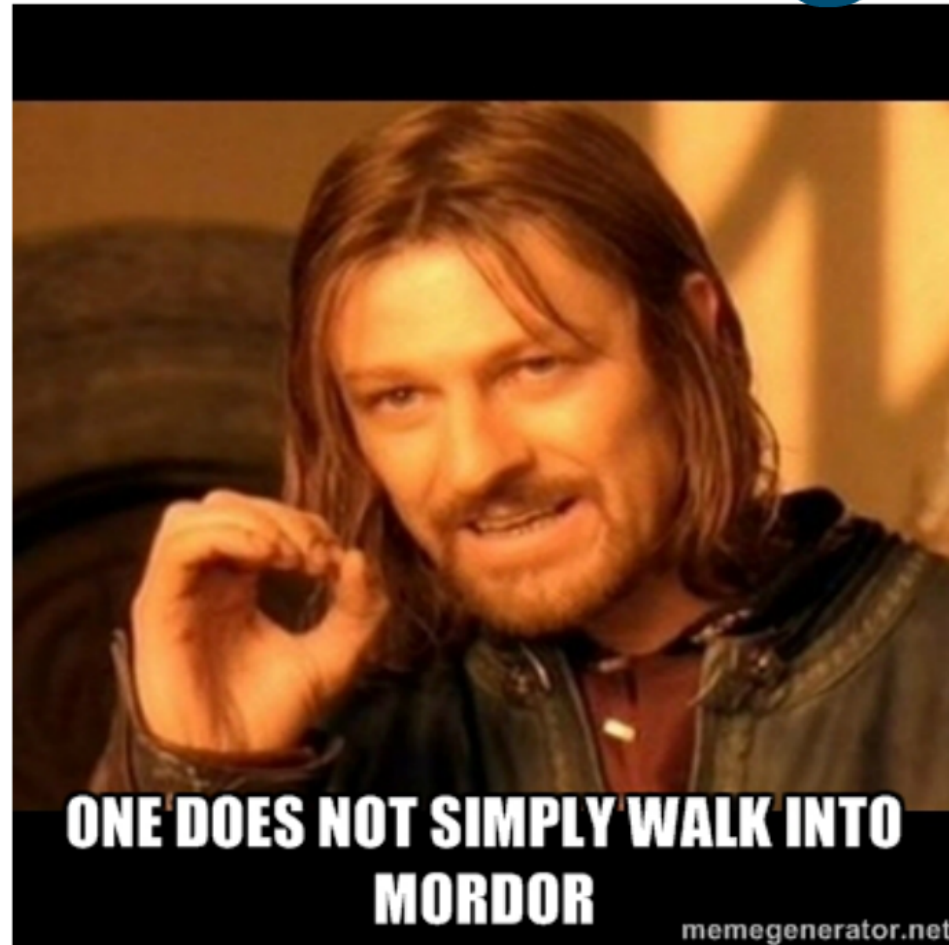
Pair Pressure



Pair Negotiation



Pair Courage



Pair Reviews



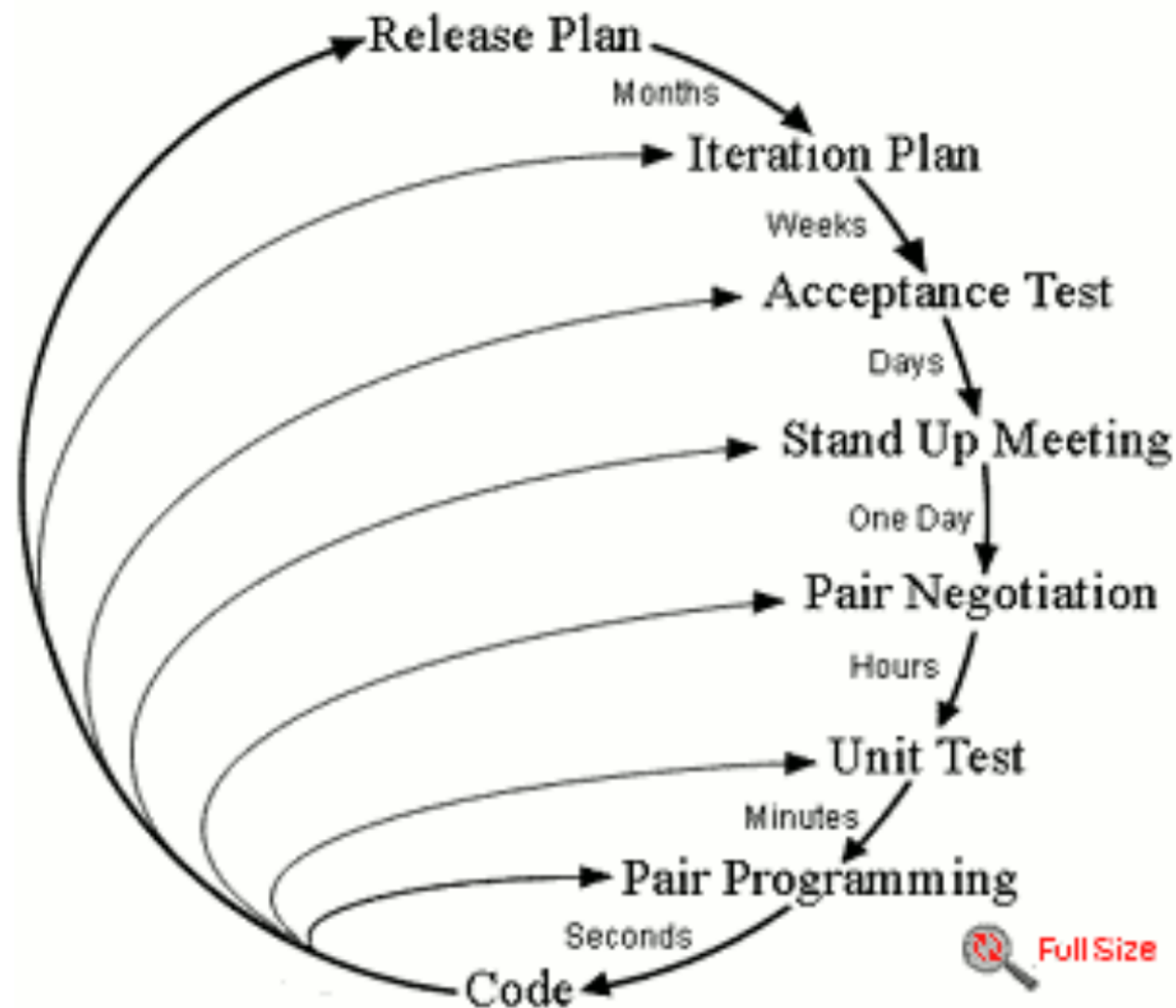
Pair Debugging

Message

```
Unhandled exception in OMC: java.lang.NumberFormatException: null
EXCEPTION STACK TRACE:
java.lang.NumberFormatException: null
    at java.lang.Integer.parseInt(Integer.java:454)
    at java.lang.Integer.parseInt(Integer.java:527)
    at com.pgp.omic.AdminUserPolicyEditHelper.PrefKeyDataAuditLoggedEnableMobileProtection(AdminUserPolicyEditHelper.java:710)
    at com.pgp.omic.AdminConsumerPolicyEditWindowsMobileOptionsScreen.handleUpdateDesktopSettings
(AdminConsumerPolicyEditWindowsMobileOptionsScreen.java:609)
    at com.pgp.omic.AdminConsumerPolicyEditWindowsMobileOptionsScreen.doEvent
(AdminConsumerPolicyEditWindowsMobileOptionsScreen.java:155)
    at com.pgp.omic.AdminControllerServlet.dispatchEvent(AdminControllerServlet.java:706)
    at com.pgp.omic.AdminControllerServlet.doPost(AdminControllerServlet.java:454)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:641)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:722)
    at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:305)
    at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
    at com.pgp.web.ResponseHeaderFilter.doFilter(ResponseHeaderFilter.java:41)
    at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:243)
    at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
    at org.owasp.csrfguard.CSRFGuardFilter.doFilter(CSRFGuardFilter.java:73)
    at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:243)
    at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:210)
    at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:225)
    at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:169)
    at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:472)
    at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:168)
    at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:98)
    at org.apache.catalina.valves.AccessLogValve.invoke(AccessLogValve.java:927)
    at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:118)
    at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:407)
    at org.apache.coyote.ajp.AjpProcessor.process(AjpProcessor.java:200)
    at org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(AbstractProtocol.java:565)
    at org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:307)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1110)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:603)
    at java.lang.Thread.run(Thread.java:722)
```

Pair Learning

Planning/Feedback Loops



Pair T(h)rust



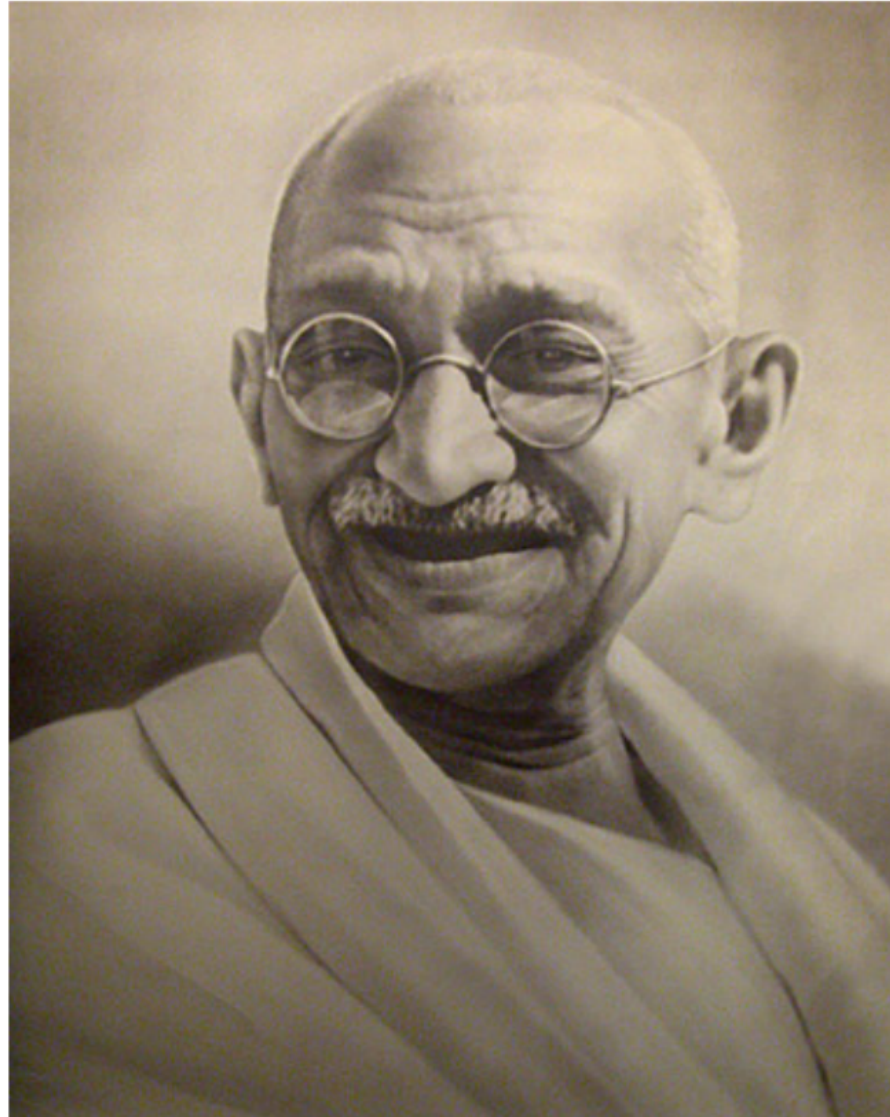
Seven habits of effective Pair Programmers



Take Breaks



Practice Humility



Be Confident

Be Receptive

IF you can keep your head when all about you
Are losing theirs and blaming it on you,
If you can trust yourself when all men doubt you,
But make allowance for their doubting too;

Rudyard Kipling - IF



Communicate



Listen

Be a Teamplayer



John McEnroe Grand Slams

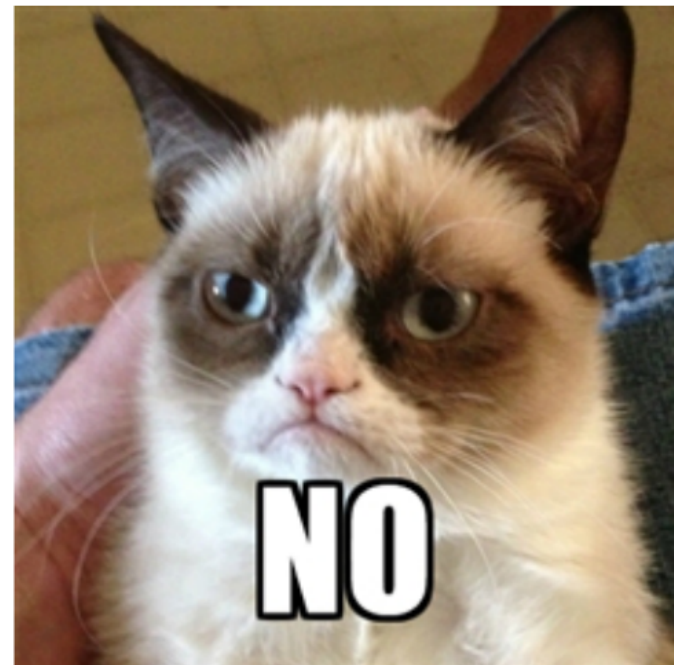
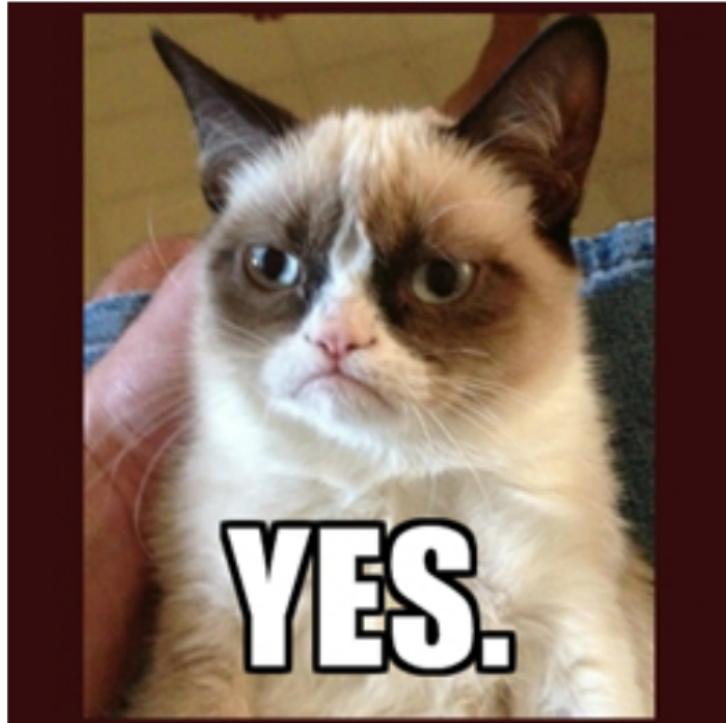
7 Single

9 Double

Compromise

VS

Standing Firm



Introverts

or

Extraverts

Introversion

and

Extraversion

Extraversion

Extraversion is "the act, state, or habit of being predominantly concerned with and obtaining gratification from what is outside the self".[4] Extraverts tend to enjoy human interactions and to be enthusiastic, talkative, assertive, and gregarious.

Introversion

Introversion is "the state of or tendency toward being wholly or predominantly concerned with and interested in one's own mental life".[4] Some popular writers have characterized introverts as people whose energy tends to expand through reflection and dwindle during interaction

Introvert

and

Extravert

Introvert

and

Introvert

Extravert

and

Extravert

Skill

守破離

SHU-Beginner

In shu, we repeat the forms and discipline ourselves so that our bodies absorb the forms that our forbearers created. We remain faithful to the forms with no deviation.

HA-Intermediate

Next, in the stage of ha, once we have disciplined ourselves to acquire the forms and movements, we make innovations. In this process the forms may be broken and discarded.

RI-Expert

Finally, in ri, we completely depart from the forms, open the door to creative technique, and arrive in a place where we act in accordance with what our heart/mind desires, unhindered while not overstepping laws.

SHU-Beginner

In shu, we repeat the forms and discipline ourselves so that our bodies absorb the forms that our forbearers created. We remain faithful to the forms with no deviation.

SHU-SHU

2 Beginners

SHU-HA

**Train a Beginner
and
become a Master**

SHU-RI

Give a talented Beginner a shortcut

HA-Intermediate

Next, in the stage of ha, once we have disciplined ourselves to acquire the forms and movements, we make innovations. In this process the forms may be broken and discarded.

HA-HA

Biggest Bang for the Buck

HA-RI

**Create another Expert while
you get things done**

RI-Expert

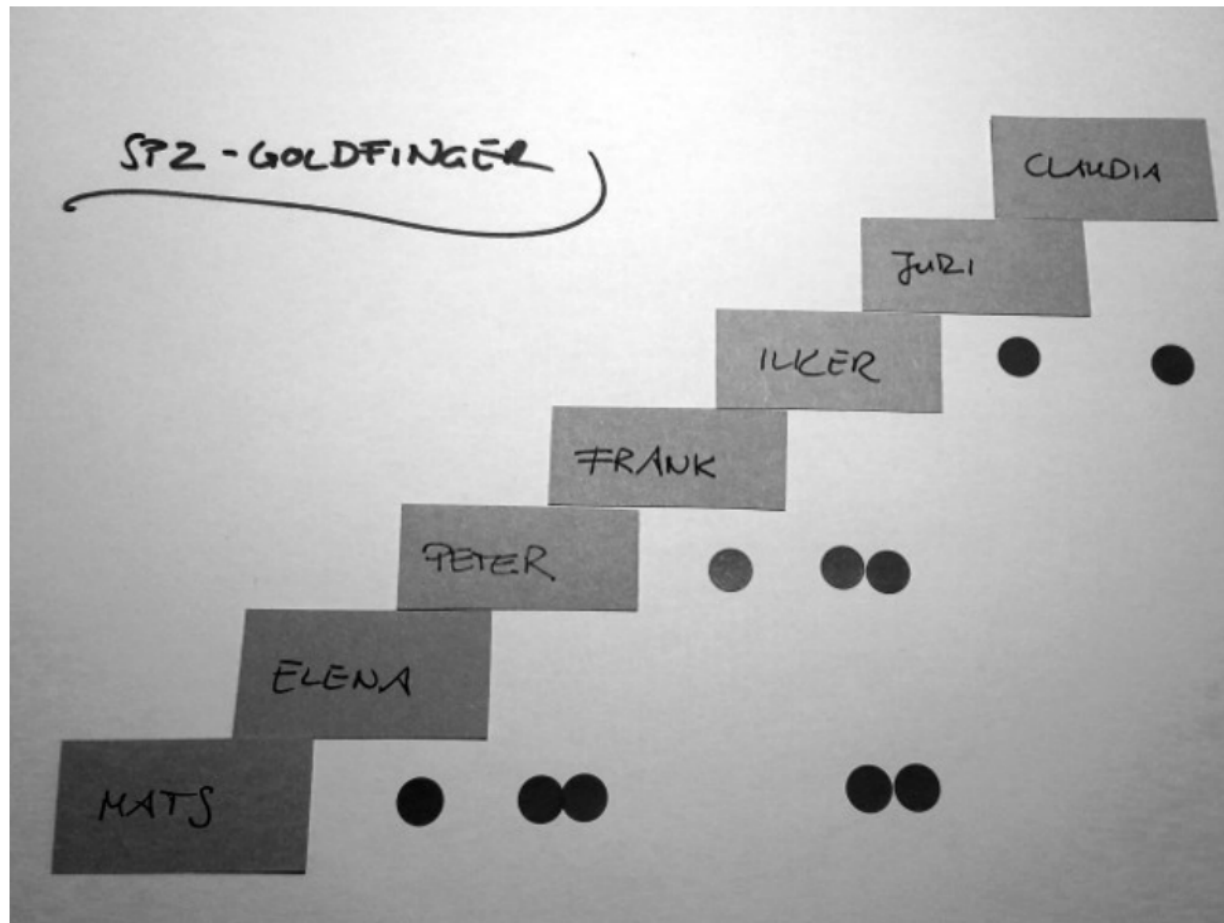
Finally, in ri, we completely depart from the forms, open the door to creative technique, and arrive in a place where we act in accordance with what our heart/mind desires, unhindered while not overstepping laws.

RI-RI

**Excite 2 Experts and solve
the big problems**

Types of Pairing

Promiscuous Pairing

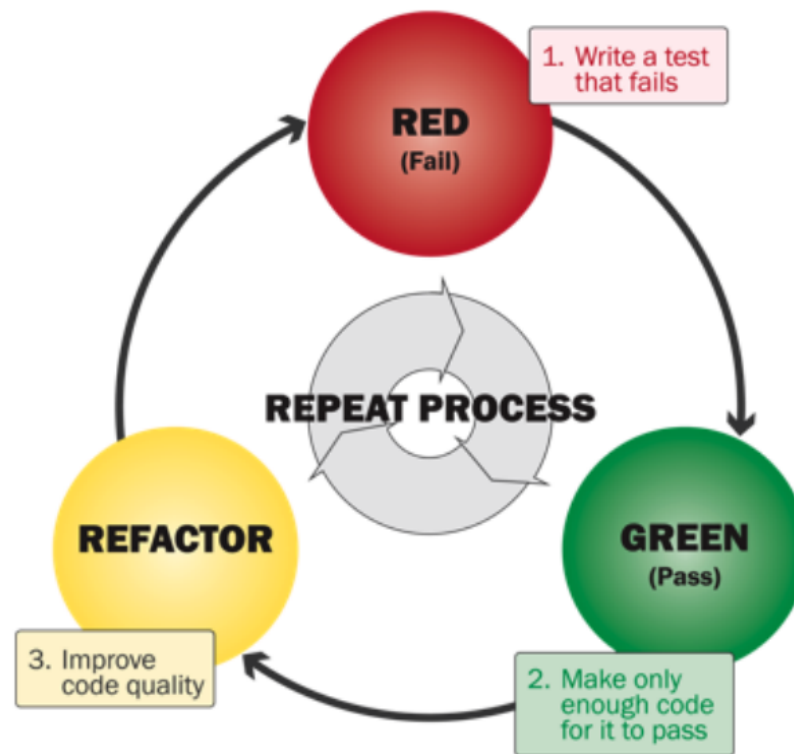


Pair Hinging

SEARCH AND REPLACE

A user realizes he mis-capitalized a word everywhere in his document, so he tells the word processor to search for all occurrences of it and replace them with the corrected word.

Test First Pairing



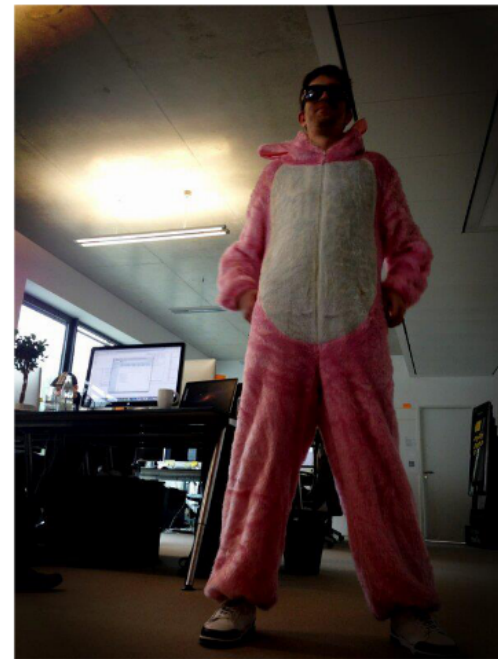
Stakeholder Pairing

Wolfgang



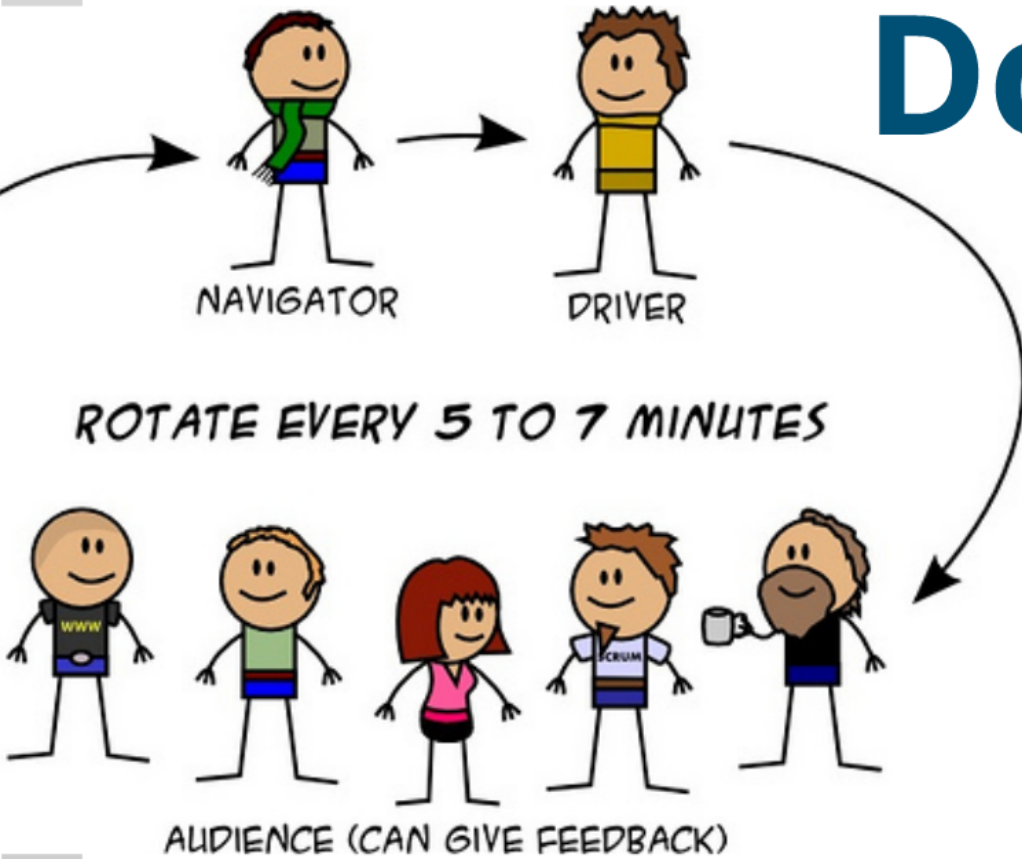
Editor Hardware Test

@sschuermann



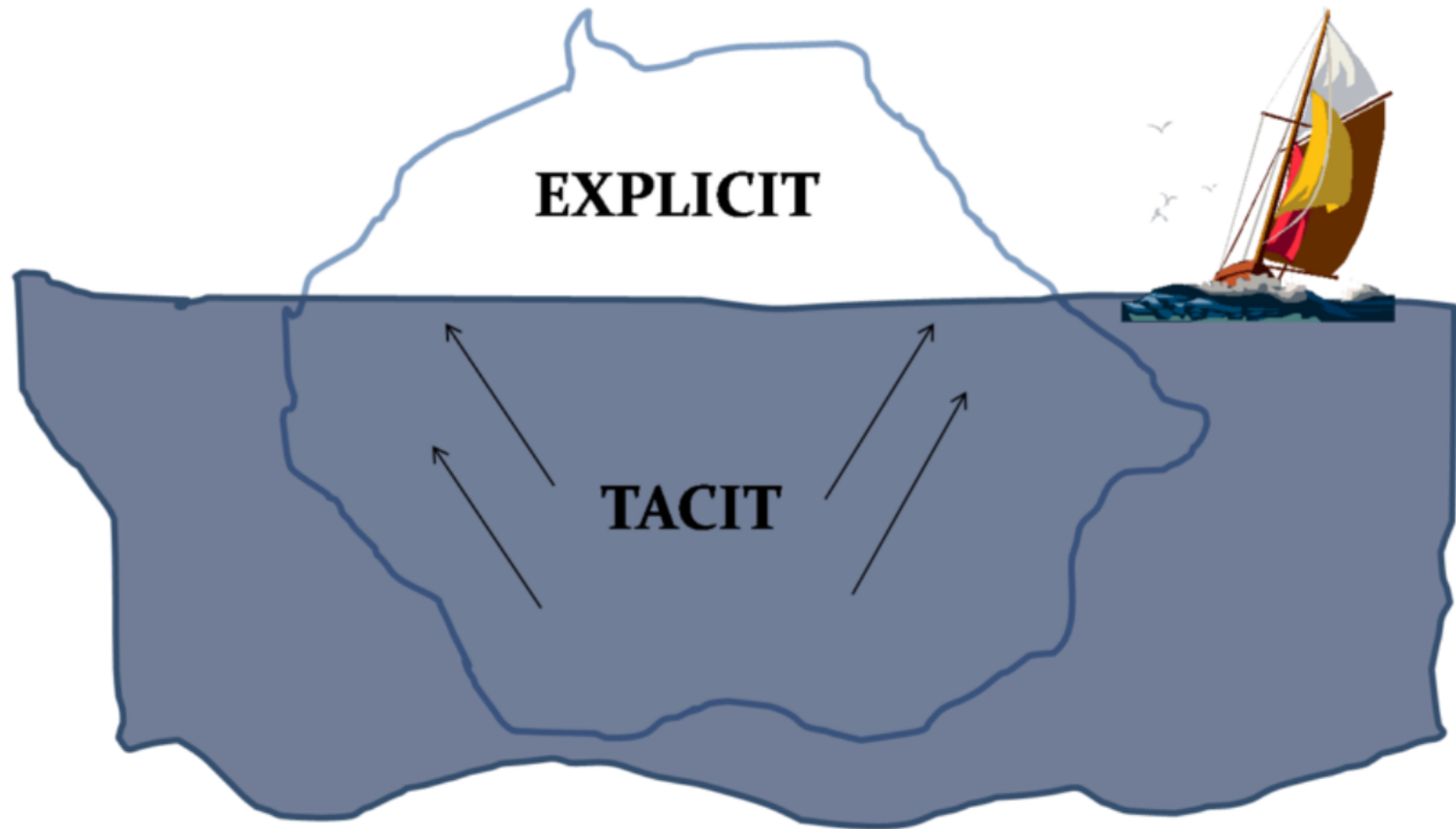
Not getting it!

Dojo

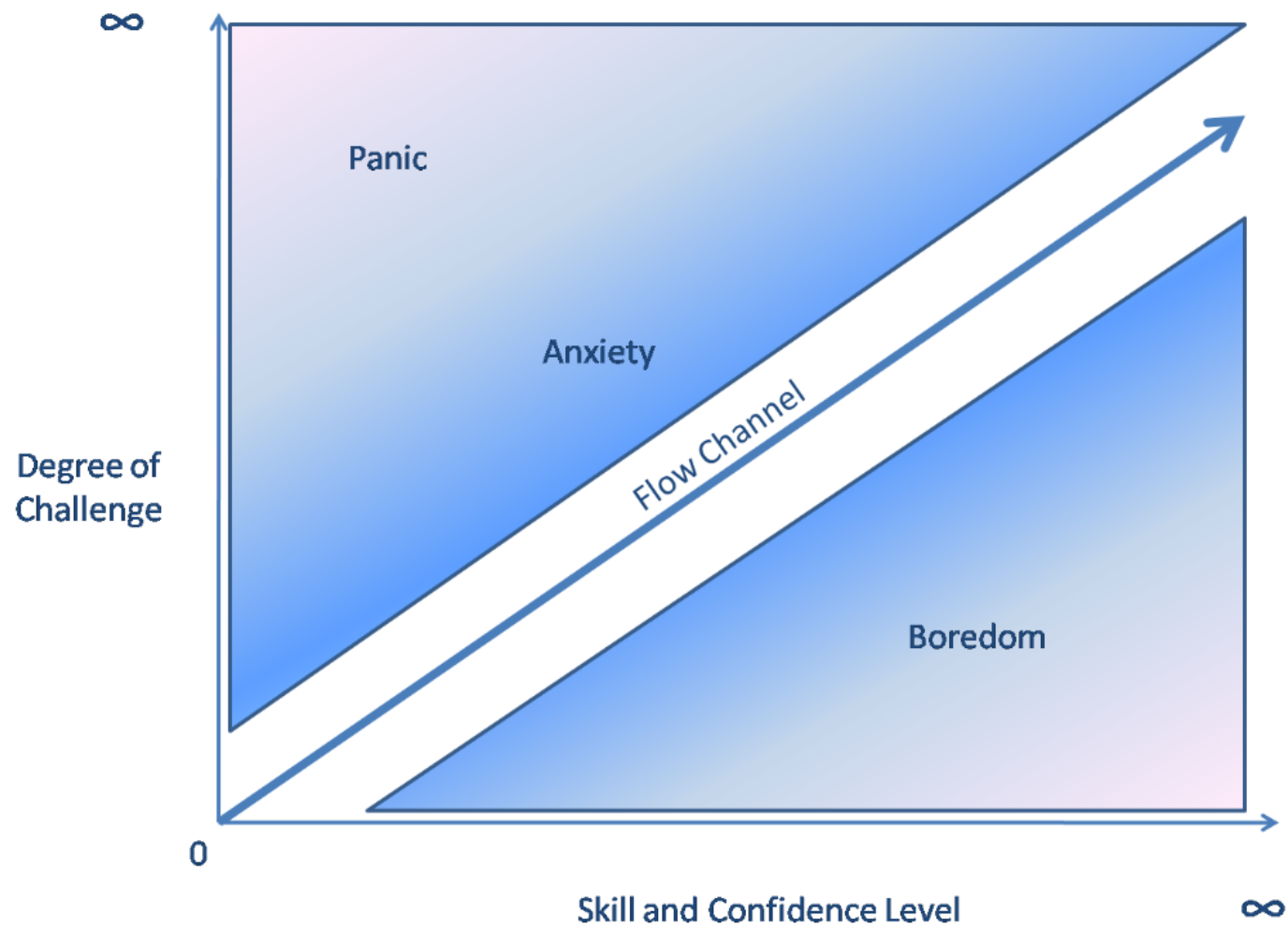


**to the
Critics**

Knowledge Iceberg



Flow



Groupflow



Using differences among participants as an opportunity, rather than an obstacle

Teamwork



The fuel that allows common people to attain uncommon results.

Thanks



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