



Team-Programming als Katalysator für Modernisierung

Thomas Much

 @thmuch

16.03.2022

Softwareentwickler

Technical Agile Coach



Team (Mob) Programming
seit 2016

Remote Team Programming
seit 2020

... auf den Schultern von Riesen ...

 @thmuch



www.tk.de/IT



Mob Programming

A Whole Team Approach



By Woody Zuill and Kevin Meadows



The Mob Programming Guidebook



i & Llewellyn Falco

MOB PROGRAMMING GUIDEBOOK

MAARET PYHÄJÄRVI

Technical Agile Coaching with the Samman method

By Emily Bache
Foreword by Kent Beck



Jochen Christ
Simon Harrer
Martin Huber

Remote Mob Programming

At home, but not alone

INNOQ

Foreword by Mark Pearl

The Pragmatic Programmers

Pragmatic exPress

Code with the Wisdom of the Crowd

Get Better Together with Mob Programming

Mark Pearl
edited by
Tammy Coron

A photograph of three owls. The owl in the center is wearing round glasses. The owls are looking towards the camera.

Mob Programming

~2011 eher nebenbei entstanden

Seit 2014 weltweit diskutiert & eingesetzt

(ältere Ideen haben sich nicht durchgesetzt)

10
Jahre



Woody Zuill

<https://woodyzuill.com/>

<https://twitter.com/woodyzuill>

Mob Programming

„Mobbing“ 🤔🤨

Group Programming
(Whole) Team Programming

Ensemble Programming*

„Mobsen“** 😊

*) <https://visible-quality.blogspot.com/2020/05/five-years-of-mob-testing-hello-to.html>

**) Credit: Team „Transformers“ @ OTTO

Team-Programming
als **Katalysator** für
Modernisierung

Katalysator *[katalyˈzaːtoːr]*

- erhöht die Reaktionsgeschwindigkeit
- wird bei der Reaktion nicht verbraucht

Modernisierung / Innovation

Cooler,
nicht zu großes
Team!

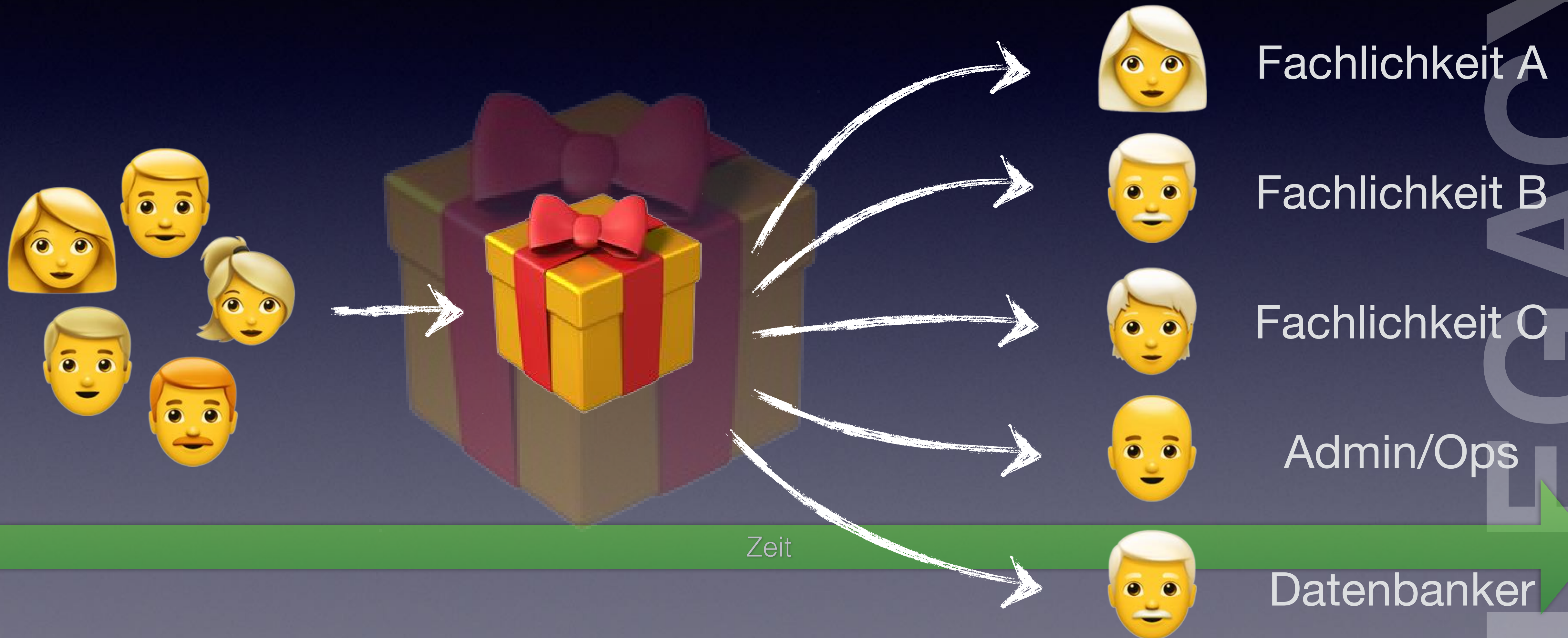


aktuelle
Technologien!

COBOL
statt
Assembler
(1970er)

Java
statt
COBOL
(2000er)

Vom Produkt zur Wartung/Pflege



TypeScript
Kotlin
Rust
Java 17

Container!
Cloud!

„Erneuert!
Seid modern!“

Continuous Integration & Continuous Delivery

Was brauchen wir für **Modernisierung**?

Kreativität

Zusammenarbeit

Out-of-the-Box-Denken,

ausgetretene Pfade verlassen

Mut!
Sicherheit!

Wo stehen wir?

Crossfunktionales Team!??

Gruppe...

Spezialisten,
Einzelne,
ausgelastet



Fachlichkeit A

Fachlichkeit B

Fachlichkeit C



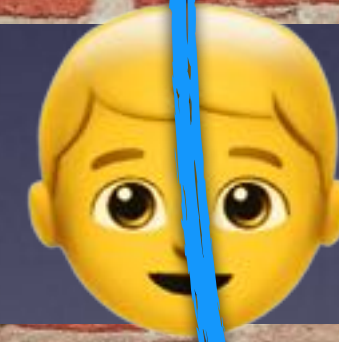
Fachlichkeit B



React/Typescript



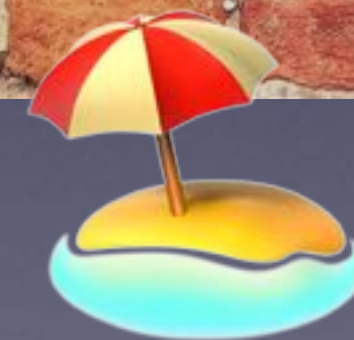
Fachlichkeit C



NoSQL-Spezialist



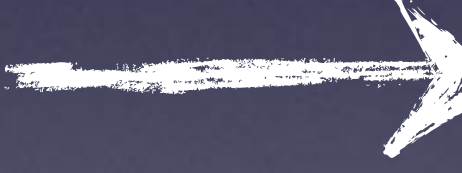
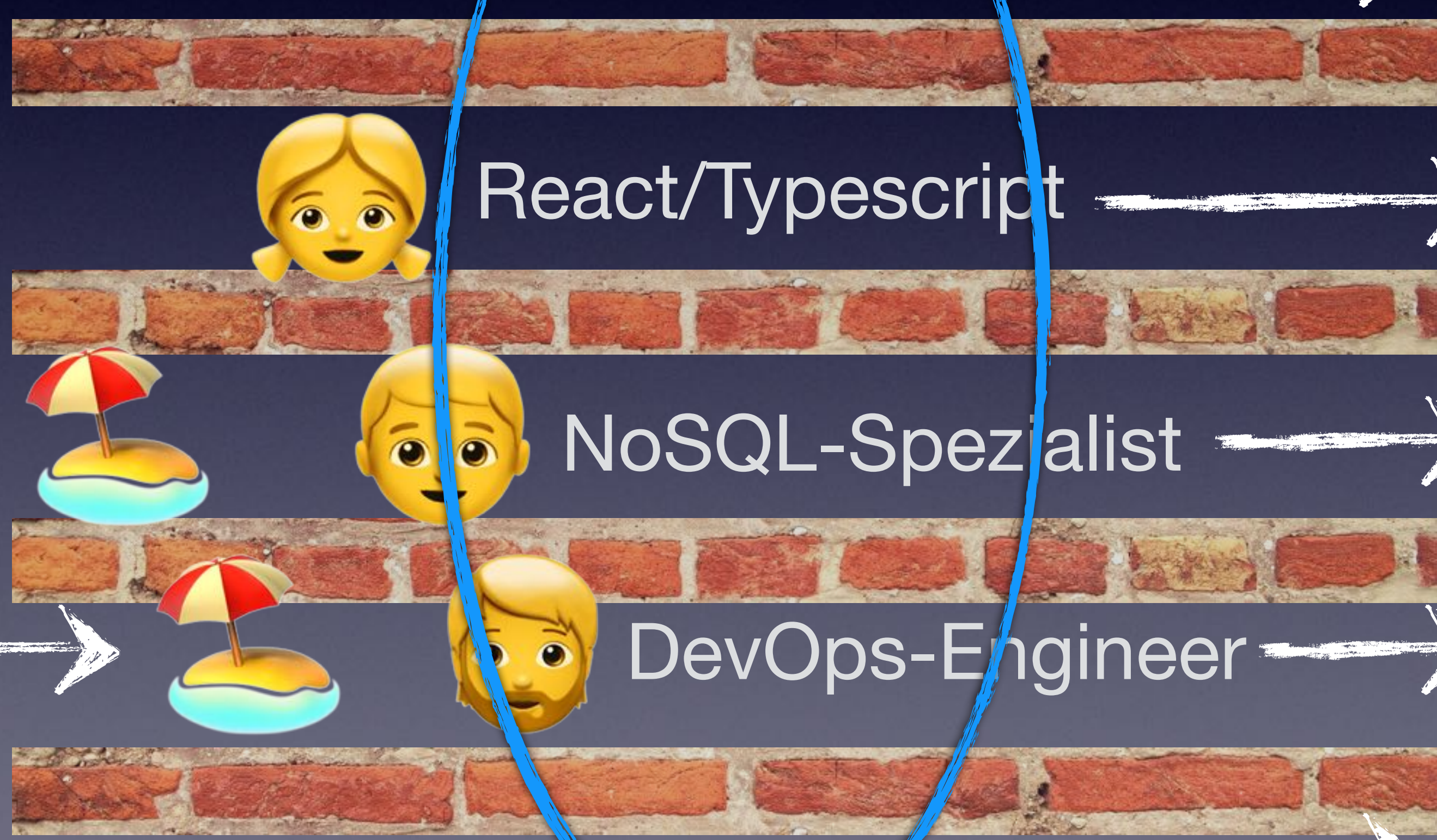
Admin/Ops



DevOps-Engineer

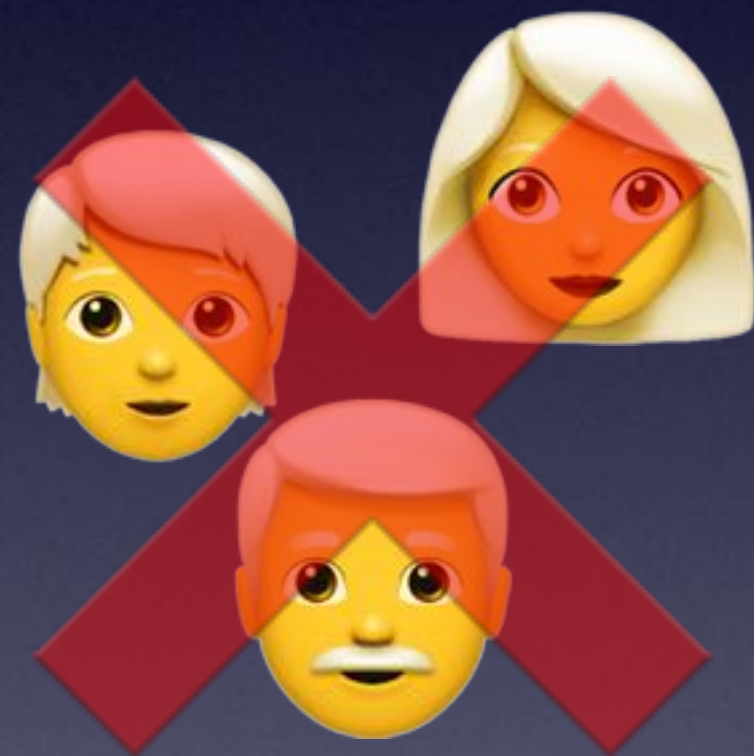


Datenbanker



Einfach alle(s) neu?

Nur Externe und/oder nur neu eingestellte Entwickler...



„Alles alte doof!“

Yippiie – alle alten Fehler nochmal machen!



Gegenseitigen Respekt entwickeln



Woody Zuill
@WoodyZuill

A simple rule I follow when working on legacy code:
Honor the coder and their code. The constraints they
endured are not mine to know.

4:12 nachm. · 4. März 2018 · Twitter Web Client

780 Retweets 57 Zitierte Tweets 1.769 „Gefällt mir“-Angaben

Geht das nicht via Dokumentation?

„Wo ist die Dokumentation?“

„Ist die noch aktuell?“

„Ich verstehe nicht, was da steht...“

Alte Fachlichkeit
Alte Tools & Programmiersprachen
Alte Dokumentation

Wissen **und Können**

Know how

Neue Fachlichkeit
Neue Tools & Programmiersprachen
Neue Dokumentation (?!)

Und nun?

Schulungen, Teambuilding ...

Gemeinsam ins Handeln kommen

Alle aktiv beteiligen!

Team-Programming

Alle zusammen.

(idealerweise 4–6 Personen)

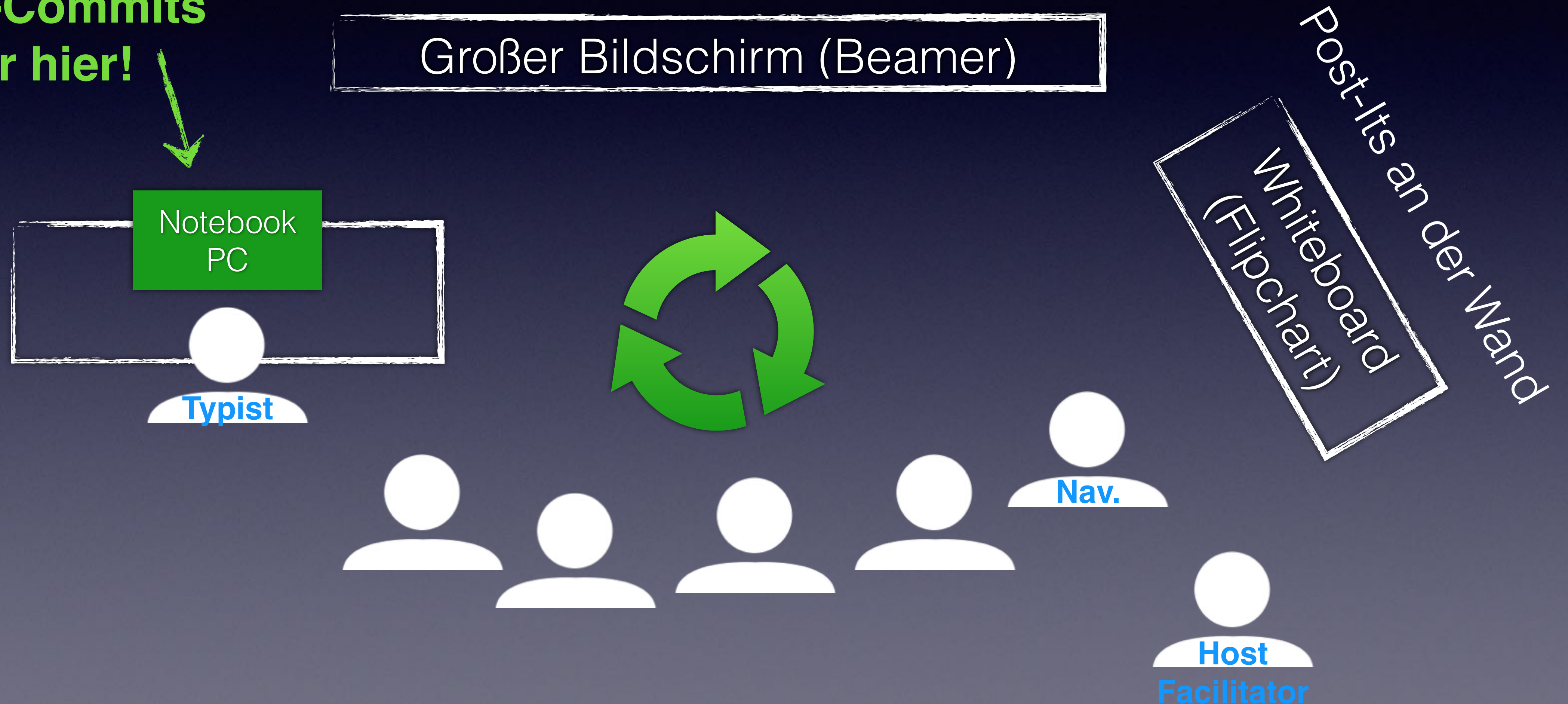
Eine gemeinsame Aufgabe.

"**All the brilliant minds** working together on the same thing,
at the same time, in the same space, and at the same computer."

– Woody Zuill

Typist, Navigator & Rest vom Team

**Code-Commits
nur hier!**



Team-Programming

macht implizites (stilles)

Wissen & Können

sichtbar

Anderen beim Denken zuschauen.

Beobachten. Erleben. Selber machen.

Team-Programming üben

Strong-Style-Navigation

“for an **idea** to go from your head to the computer, it **must go through someone else’s hands**” – Llewellyn Falco

Tastaturwechsel

alle

5-10 Min. / remote 10-15

Feste Timebox

“We make a commitment to treat each other with **kindness, consideration** and **respect**”

– Woody Zuill

Sichere Umgebung

Mini-Retro am Ende

Ein paar Regeln zum Start – erst danach experimentieren

Remote Mob Programming

Remote Everybody
Camera Always On
Regular On-Site Meetings
Small Team
Same Time

Typist and the Rest of the Mob
Screen Sharing
10 Minute Intervals
Git Handover
Group Decisions
Constant Momentum
Learn from the Team
Trust
Save the Planet
Dine with your Family



<https://www.remotemobprogramming.org>

Gemeinsam entwickeln



<https://mob.sh/>

<https://timer.mob.sh/>
<https://cuckoo.team/>
<https://mobti.me/>
u.a.

Timer

**gemeinsam
coden**

Tastatur-
Freigabe

**Online-
Whiteboard**

Miro
Mural
Conceptboard
u.a.

Cloud-
Dev-VM

IDE-
Freigabe

IntelliJ Code With Me
VS Code Live Share
Code Together
u.v.a.m.



Screen Sharing



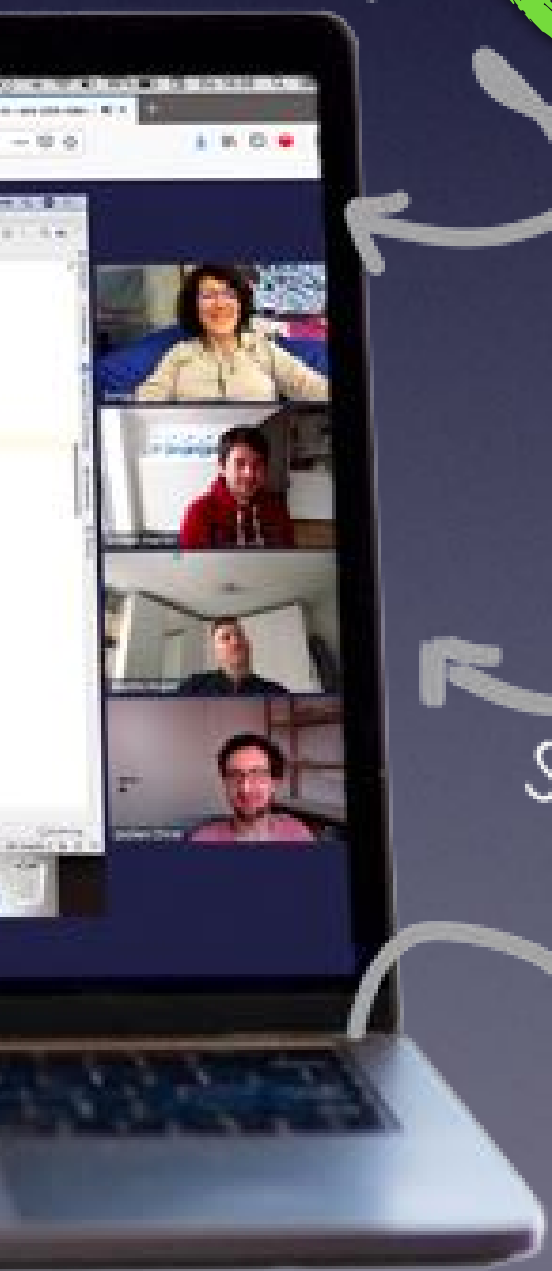
Git Handover
GIT



Small Team



Dine with your Family



Egal ob remote oder vor Ort ...

Es wird 2er-„Teams“ geben ...

Euer Pair-Programming wird besser

durch das (Aus-)Üben von Team-Programming!

"Pair Programming is like going on a date.
Mobbing is like having dinner with friends.
Different dynamic."



Allen Holub
@allenholub

Antwort an @BillyGarnet und @mcflyDev

I see Mob Programming as an improvement over Pair Programming. They're both useful, of course, but I've seen Mob Programming be successful in places where Pairing didn't work. Pair Programming is like going on a date. Mobbing is like having dinner with friends. Different dynamic.

6:34 nachm. · 11. Mai 2020 · TweetDeck

Voraussetzungen schaffen

Sicheren Raum für Team-Programming schaffen:

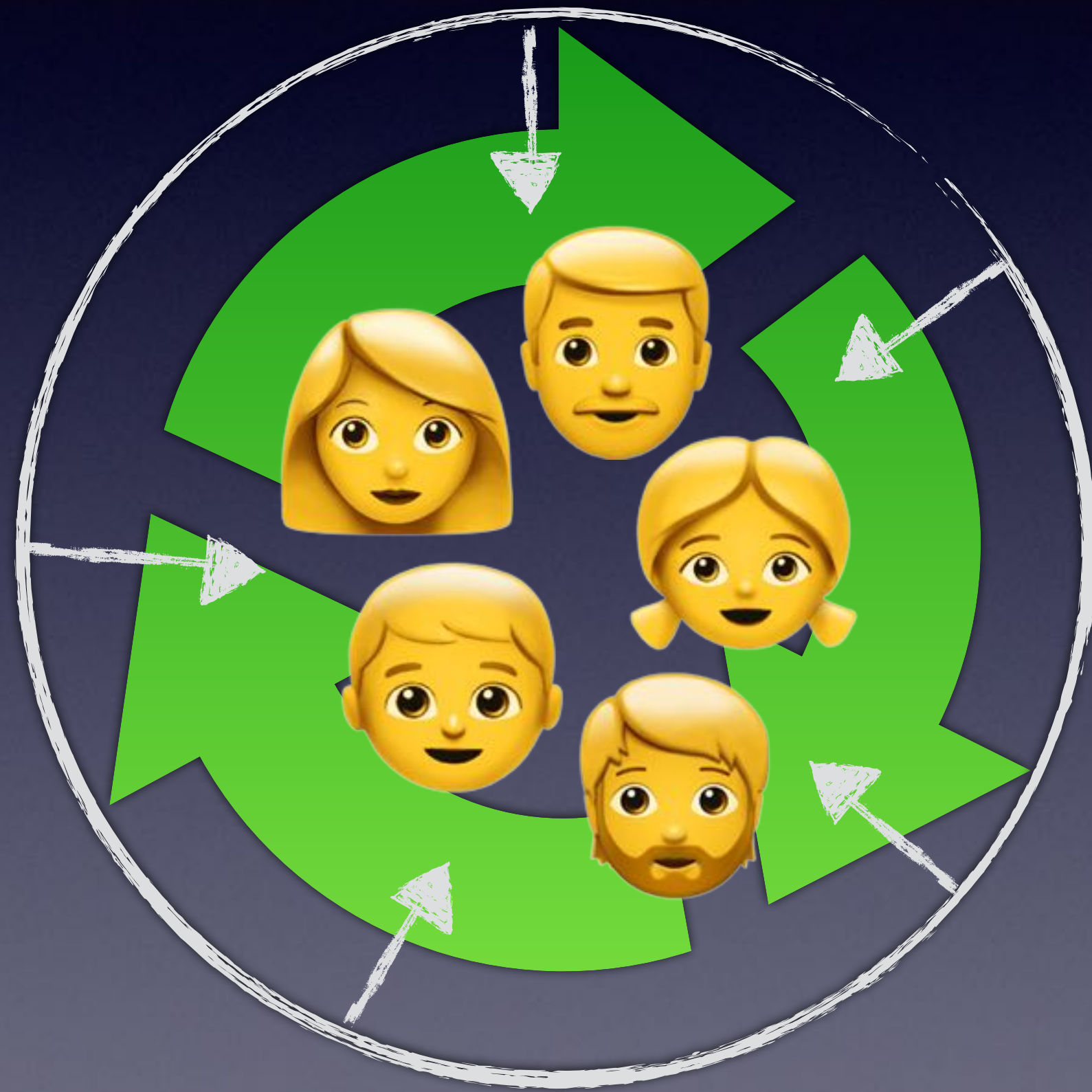
Passende Ziele setzen – gemeinsames Lernen
statt Feature-Fließband

Mut, Neues gemeinsam auszuprobieren
statt Tools perfekt beherrschen

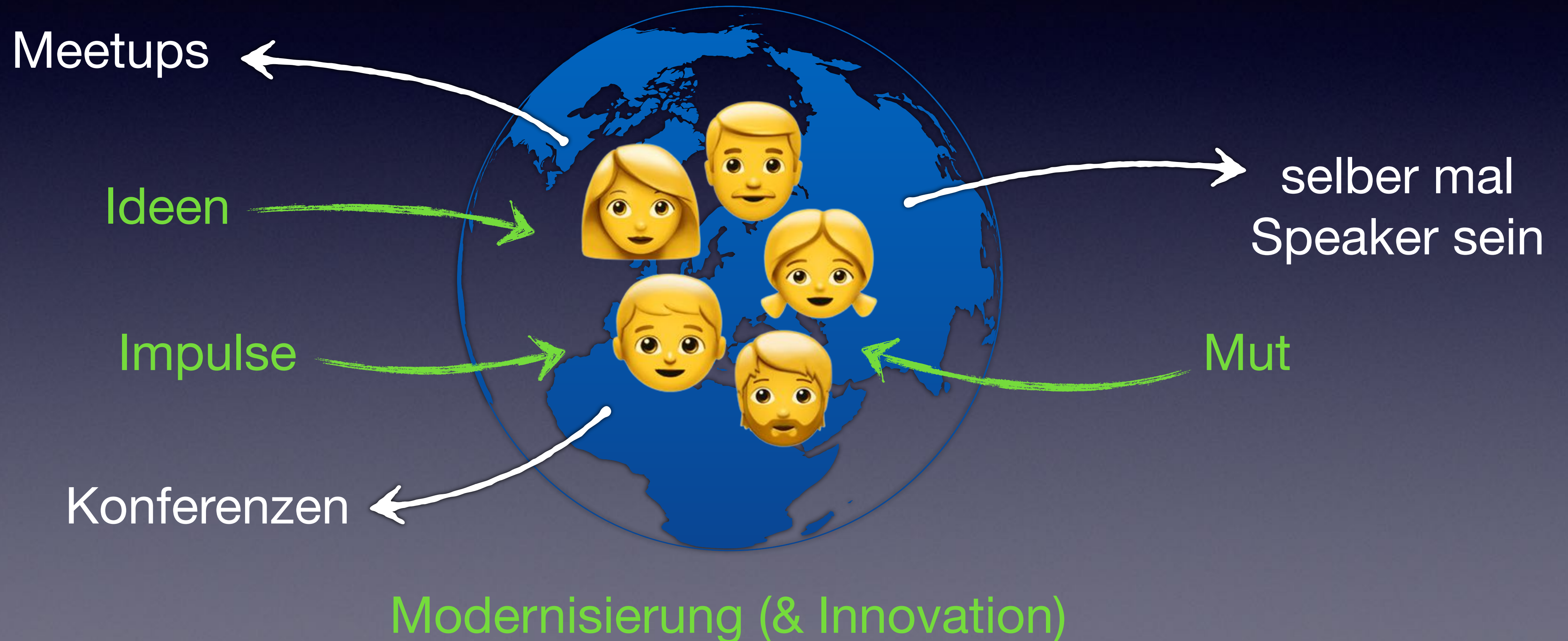
Nutzung aktueller Tools ermöglichen

(funktionierende Videokonferenzen & Screensharing,
Online-Kollaborationsboard, Git etc.)

Kontakt zur Welt



Kontakt zur Welt



MOB MENTALITY



Mob Mentality Show
















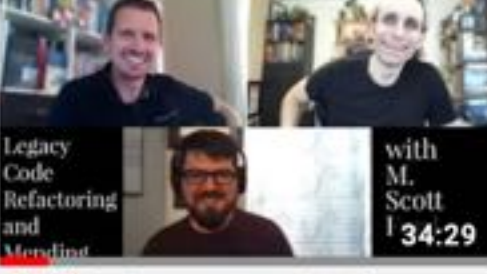


1.18K subscribers

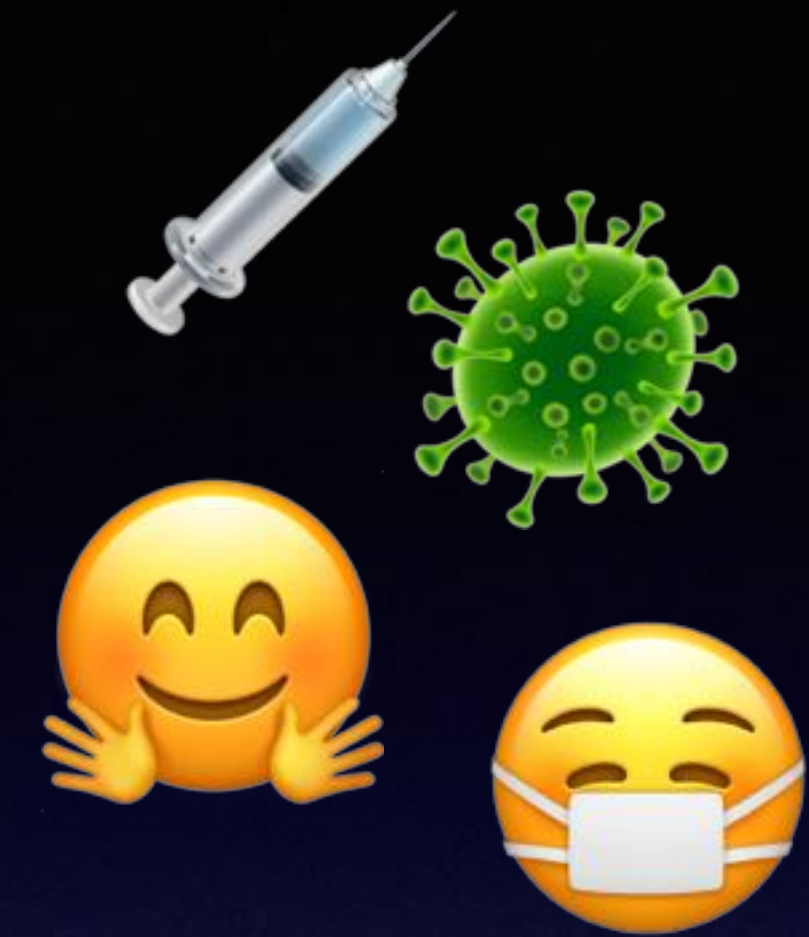
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|--|--|--|---|--|--|
|  <p>Mobbed Lean Public Speaking
with Reinier Pamintuan
36:23</p> |  <p>Thinking Big, Working Small, and Sense-Making Together
with John Cutler
46:06</p> |  <p>MASTERING FOCUS IN TEAM PROGRAMMING SESSIONS
with Thomas Much
39:27</p> |  <p>Mob Programming: Lean Turned up to 10
59:00</p> |  <p>MOB PROGRAMMING 10 YEAR ANNIVERSARY PANEL
with DanYoung Wang, Dexter Baga, and Woe
46:06</p> |  <p>SOCIO-TECHNICAL TRAINING FROM THE BACK OF THE ROOM
with Marco Conzelaro, Alessandro Di Gioia, and Pedro Santos
45:56</p> |
| <p>Mobbed Lean Public Speaking with Reinier...
32 views · 19 hours ago</p> | <p>Thinking Big, Working Small, and Sense-Making Together...
372 views · 7 days ago</p> | <p>Mastering Focus in Team Programming Sessions with...
123 views · 2 weeks ago</p> | <p>Lean Turned Up to 10
265 views · 3 weeks ago</p> | <p>Mob Programming 10 Year Anniversary Panel with...
143 views · 4 weeks ago</p> | <p>Socio-Technical Training from the Back of the Room...
222 views · 1 month ago</p> |
|  <p>DEVELOPING DEEP TEAM TRUST VIA MOB PROGRAMMING
with Jean-Michel and Art Bergquist
24:41</p> |  <p>The Future of Product Dev
42:38</p> |  <p>Agile + Craftsmanship Tag Team Coaching
with Nicolas Unastowski and Cedric Martin
29:01</p> |  <p>Introverts vs. Extroverts in Mob Programming?
with Matthew Killoran and Aaron Griffith
35:11</p> |  <p>THE HIDDEN COSTS OF ESTIMATES
25:23</p> |  <p>MANY MORE MUCH SMALLER STEPS
WITH GEEPAW HILL
39:07</p> |
| <p>Developing Deep Team Trust via Mob Programming with...
91 views · 1 month ago</p> | <p>The Future of Product Development
109 views · 1 month ago</p> | <p>Agile + Craftsmanship Tag Team Coaching with Nicola...
149 views · 1 month ago</p> | <p>Introverts vs. Extroverts in Mob Programming? with...
226 views · 2 months ago</p> | <p>The Hidden Costs of Software Estimates
227 views · 2 months ago</p> | <p>Many More Much Smaller Steps with GeePaw Hill
382 views · 2 months ago</p> |
|  <p>Mob Programming in Intro Comp-Sci Courses
with Youwen Yu and ...
37:55</p> |  <p>MOB PROGRAMMING ROLES: MAJOR PAIN & DR. FEEL GOOD
11:52</p> |  <p>SOCRATIC LEARNING AND TECH OPTIMIZED INTERPERSONAL INTERACTIONS
with Michael Strong
42:55</p> |  <p>Legacy Code Refactoring and Mending
with M. Scott Ford
34:29</p> |  <p>MODELS OF TEACHING AND LEARNING IN MOB PROGRAMMING
21:35</p> |  <p>AI ENABLED MOBS FOR LEARNING
WITH CAROLYN ROSE
37:55</p> |
| <p>Mob Programming in Intro Comp-Sci Courses with...
69 views · 2 months ago</p> | <p>Mob Programming Roles: Major Pain and Dr. Feel Good
87 views · 2 months ago</p> | <p>Socratic Learning and Tech Optimized Interpersonal...
84 views · 3 months ago</p> | <p>Legacy Code Refactoring and Mending with M. Scott Ford
173 views · 3 months ago</p> | <p>Models of Teaching and Learning in Mob...
101 views · 3 months ago</p> | <p>AI Enabled Mobs for Learning with Carolyn Rosé
70 views · 3 months ago</p> |



"We are uncovering better ways of developing software by doing it and helping others do it." *

Vielen Dank!

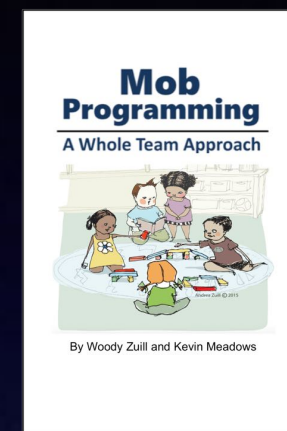
Thomas Much
 @thmuch



www.tk.de/IT

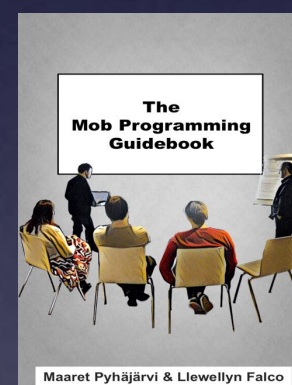
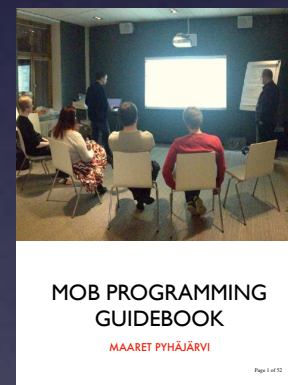
*) <https://agilemanifesto.org/>

Weitere Informationen



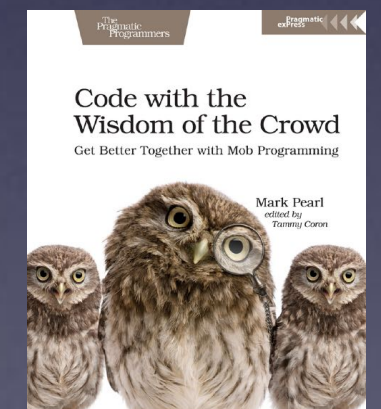
<https://mobprogramming.org/>
<https://leanpub.com/mobprogramming>

<https://www.remotemobprogramming.org/>
<https://leanpub.com/remotemobprogramming>

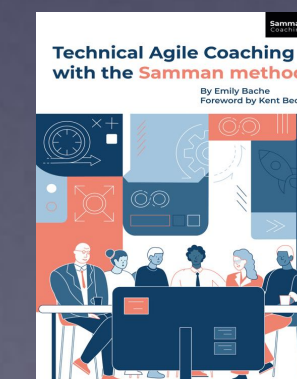


<https://mobprogrammingguidebook.xyz/>
<http://www.mobprogrammingguidebook.com/>

<https://pragprog.com/book/mpmob/code-with-the-wisdom-of-the-crowd>



<https://leanpub.com/techagilecoach>



<https://www.chrislucian.com/p/companies-that-are-mob-programming.html>
<https://trello.com/b/1lfMkCOh/software-profession-resources>

Code-Sharing

Git Handover

<https://mob.sh/>

IntelliJ Plug-in: <https://plugins.jetbrains.com/plugin/14266-mob>

IDE Sharing

<https://www.jetbrains.com/de-de/code-with-me/>

<https://visualstudio.microsoft.com/services/live-share/>

<https://www.codetogether.com/>

<https://duckly.com/>

<https://git.live/>

<https://codeshare.io/>

<https://gitpod.io/>

<https://theia-ide.org/>

<https://aws.amazon.com/de/cloud9/>

Cloud Dev VM

<https://claremacrae.co.uk/blog/2020/12/virtual-machines-for-online-mobbing-and-training>

Online-Whiteboards

Miro

<https://miro.com/>

Mural

<https://www.mural.co/>

Conceptboard

<https://conceptboard.com/>

Microsoft Teams Whiteboard

diagrams.net / draw.io

excalidraw.com

Online-Timer

<https://timer.mob.sh/>

<https://cuckoo.team/>

<https://mobti.me/>

<http://mobster.cc/>

Aber die Geschwindigkeit!

„~~busy~~“ sein → Zeug ~~raushauen~~

„If you need to be fast, **slow down**“

voneinander **lernen** → **wertvolle** Ergebnisse liefern

Team aufbauen & zusammenhalten

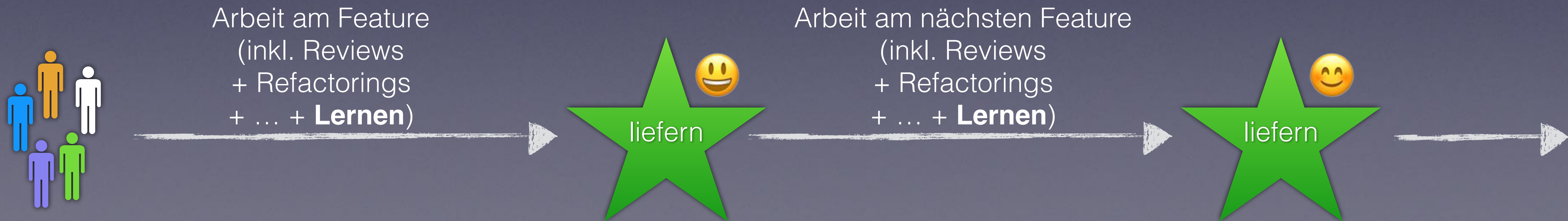
Seid nicht langsam.
Aber vermeidet Hektik.

Flow

Kontinuierlich Wertvolles an unsere Kunden ausliefern

Anzahl der erledigten Dinge maximieren

Verschwendung (Wartezeit) minimieren



Am Code herumprobieren

Als Team **experimentieren**

Selbstverständlichkeiten erfragen

Angstfreie Kommunikation

*Schnell viel Code ist **nicht das Ziel!***

Entspannen an der Tastatur

Einfache, kleine Schritte anstreben

Komplexität kommt früh genug

Team Programming

"It's about getting the **BEST** (not the **most**) from your team."

– Llewellyn Falco

"**All the brilliant minds** working on the same thing,
at the same time, in the same space, and at the same computer."

– Woody Zuill

"Continuous Integration of Ideas"

– Joshua Kerievsky