

(Remote) • Mob Programming

Building Teams and Keeping Teams Together

Thomas Much

@thmuch

25.02.2021

Software developer -

Agile developer coach

Mob Programming since 2016

Remote Mob Programming since 2020

... on the shoulders of giants ...







Mob Programming

A Whole Team Approach



By Woody Zuill and Kevin Meadows





Page 1 of

Simon Harrer Martin Huber

Remote Mob Programming

At home, but not alone

Foreword by Mark Pearl

GUIDEBOOK MAARET PYHÄJÄRVI

Code with the Wisdom of the Crowd

Get Better Together with Mob Programming





Jochen Christ

The

Mob Programming

Guidebook

Pyhäjärvi & Llewellyn Falco



INOQ



#MobProgramming gets another well deserved shoutout and excellent quick intro by @lisihocke #agrs2018

This is the most important improvement I've seen the last

couple of years.

Please get hold of me if you want to Especially if you think it's ineffective

Tweet übersetzen

11:33 vorm. · 20. Sep. 2018 · Twitter for iPhone



Allen Holub @allenholub

4/6 I've had a lot of experience with mob programming. I've introduced it to many teams, run workshops, seen its impact. It's one of the most significant improvements that a team can adopt. Most of the teams I've worked with love it, though not all.

Tweet übersetzen

12:24 vorm. · 23. Aug. 2019 · Little Pork Chop

XP PragProg
Agile Scrum
Software Craft

IT-Kanban

~ 20 years old

User Stories

Pair Programming

Refactoring IDD Iterations

Continuous Integration

Mob Programming

Emerged ~2011 en passant

Used by teams around the globe since 2014

(similar older ideas never took off)



Woody Zuill

https://woodyzuill.com/

https://twitter.com/woodyzuill

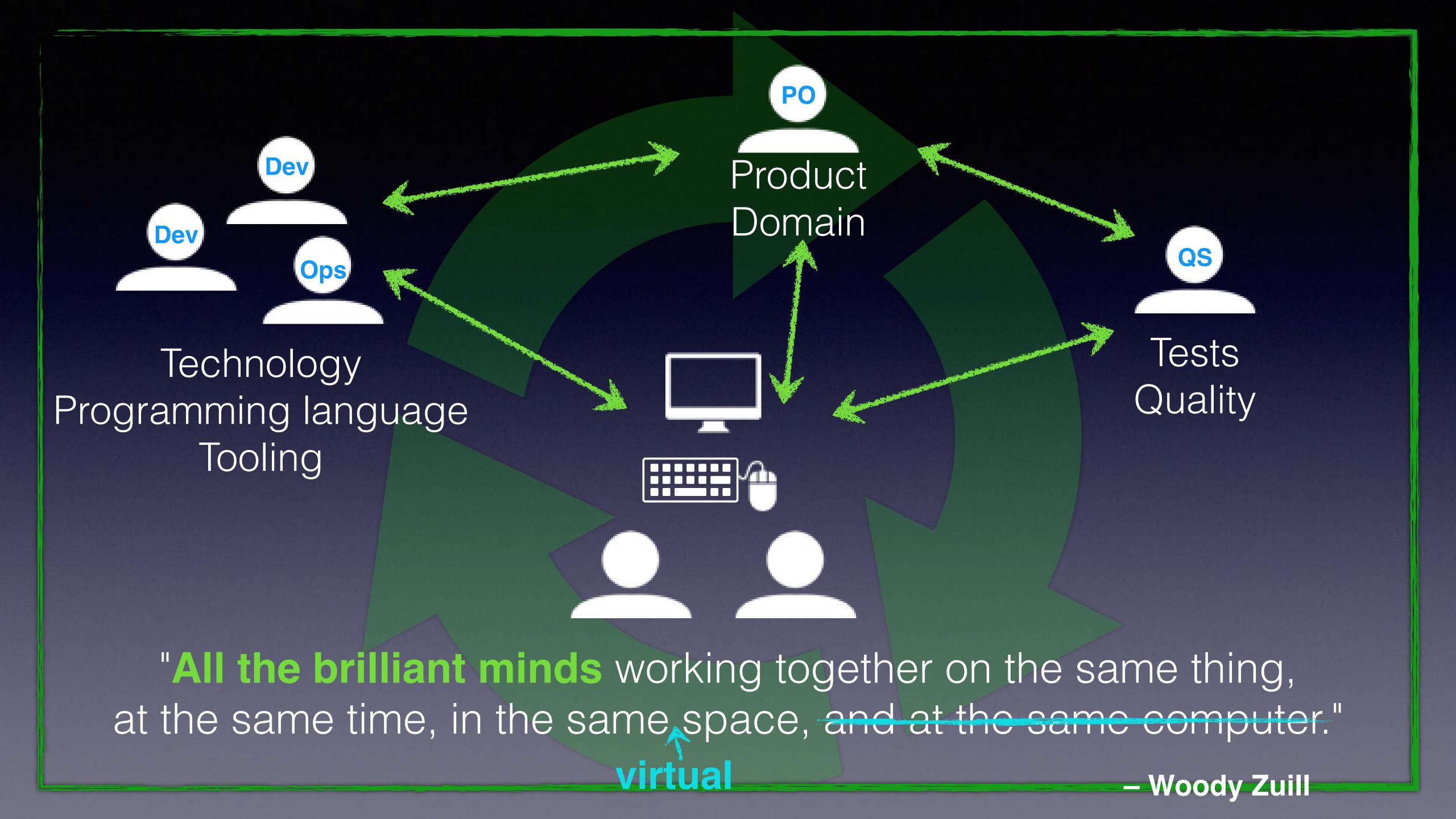
Mob Programming

"Mobbing"

Group Programming
Team Programming

Ensemble Programming*

(like, in a jazz combo)



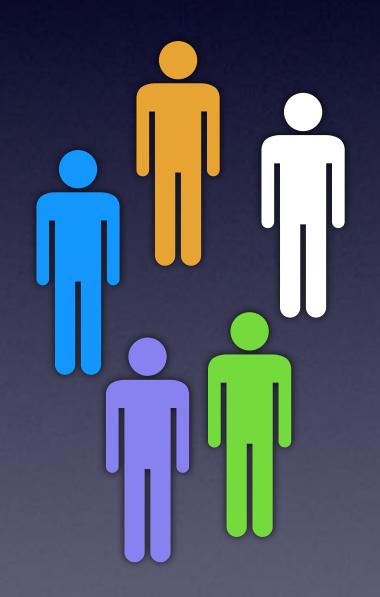
How's your team working? (& is this a problem?)

How does (Remote) Mob Programming (usually) work?

Why does it work (& solve several problems)?

How's your team working?

Are we one team?



One team of 5

Or rather several teams?



Five teams of 1

Or rather several teams?



Five teams of 1

5 devs for 1 (ONE) task???

Well... what do you optimise for?

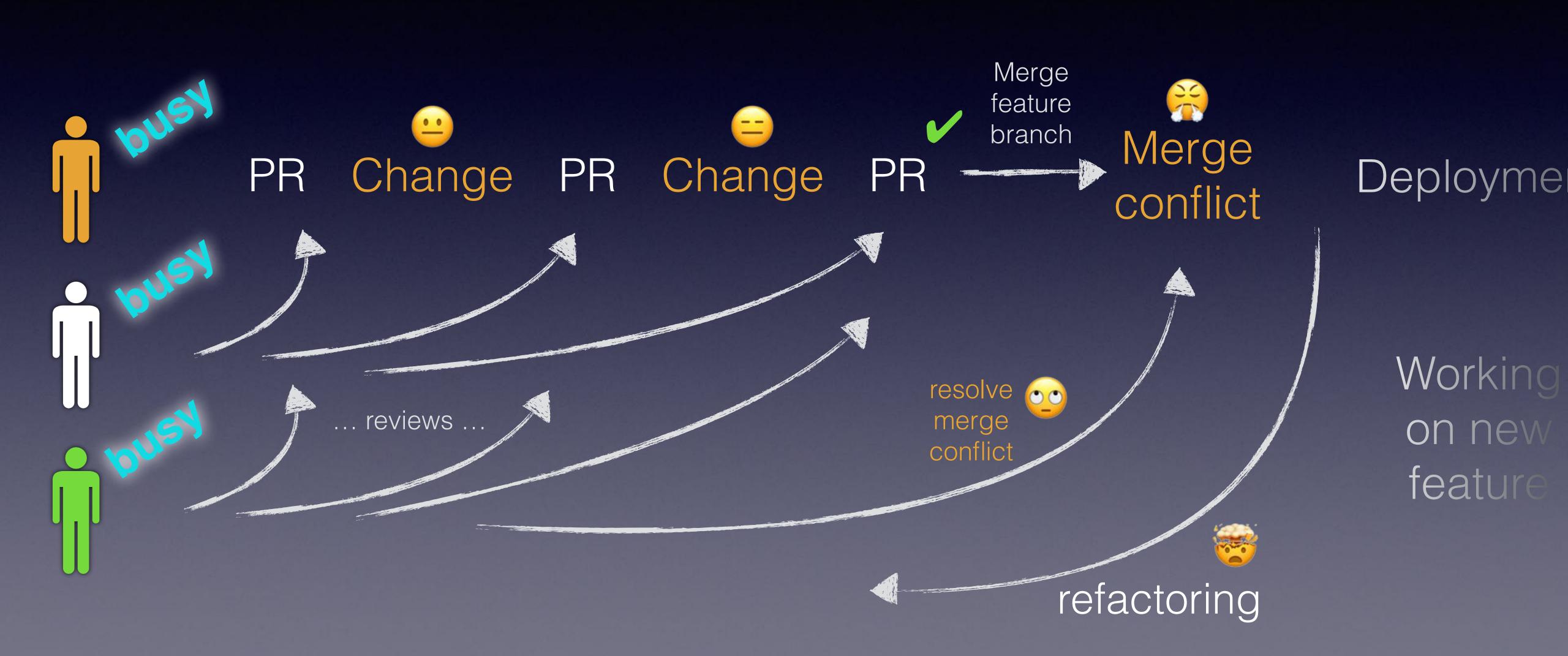
Deliver most important feature to our customers

Or

Keep developers as busy & working to capacity as possible

(hint: WYO4IWYG)

Busy waiting



Flow

... of value delivered to our customers:

Maximize number of things done

Minimize waste



working on feature (including reviews + refactorings + ... + learning)





But our speed!



"If you need to be fast, slow down"

Don't **be** slow. But avoid rush & haste. do things right do the right things

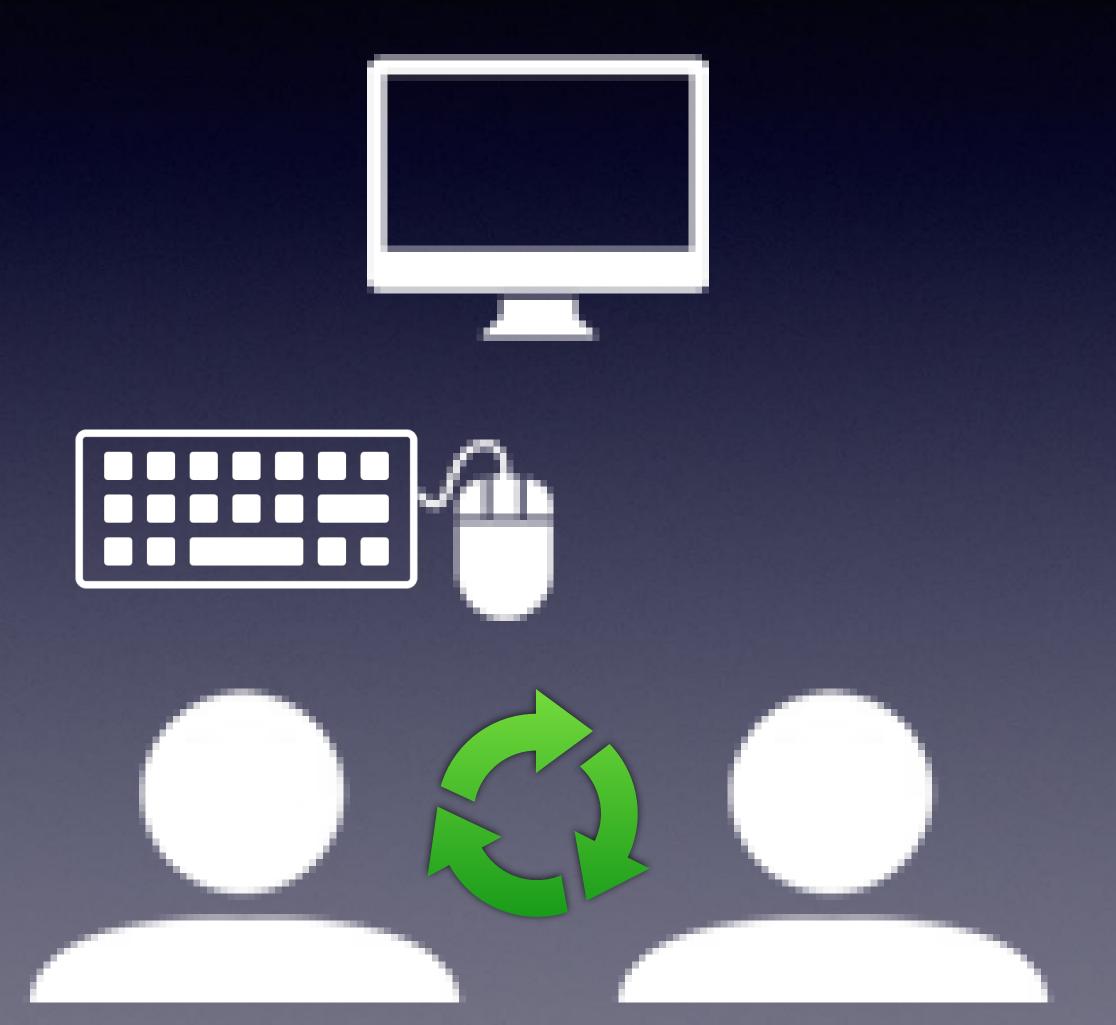
deliver value deliver outcome

build team & keep team together

from each other

How does (Remote) Mob Programming work? NB: There is no "right" or "wrong"!

Driver & Navigator





Driver-Observer Anti-Pattern



Watcher

Worker

Rotation for attentiveness

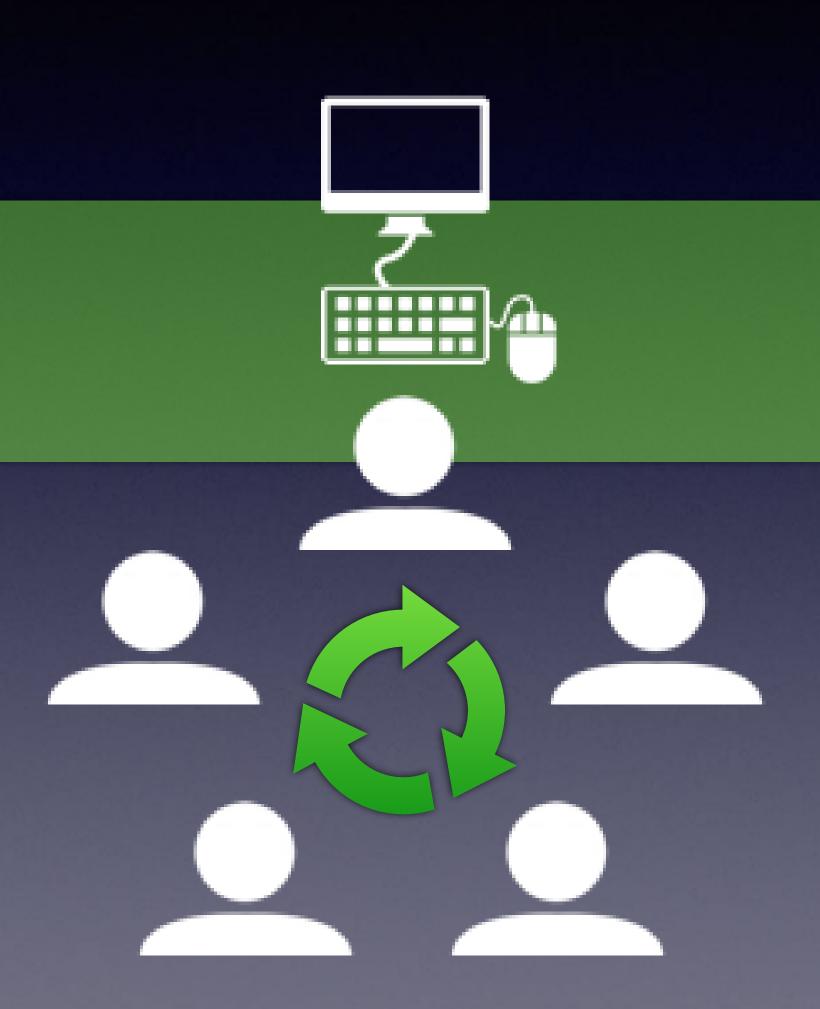
Switch roles!

Fixed timebox → pass keyboard (every 5-10 min. / remote 10-15)

Use timer app, e.g.

- * http://mobster.cc/
- * https://cuckoo.team/
- * https://mobti.me/

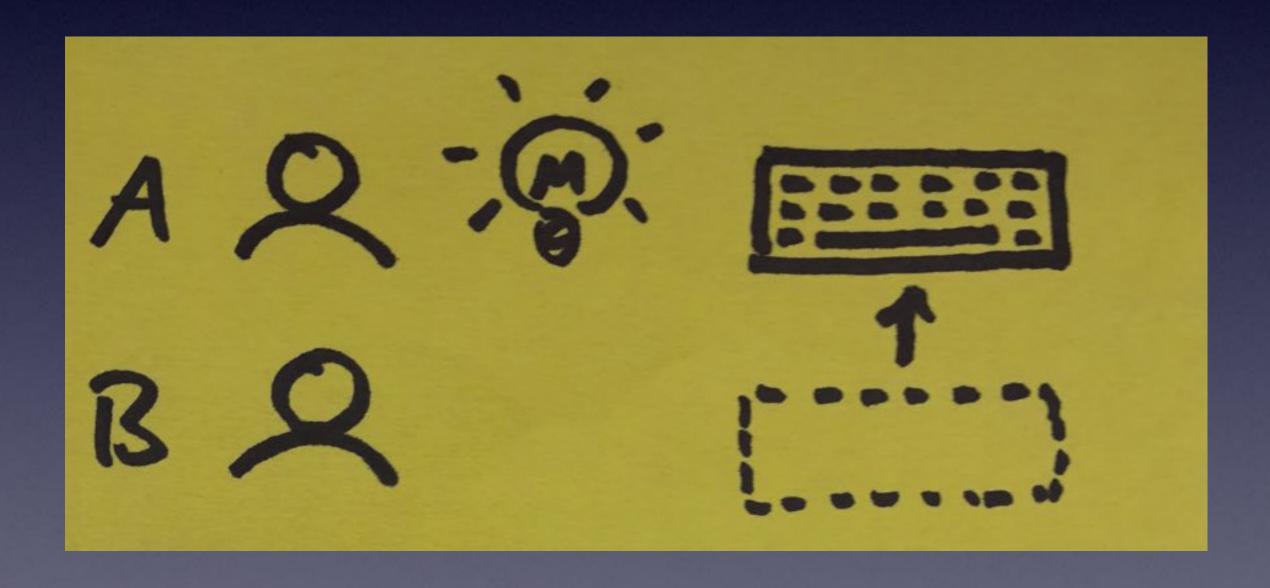
or smartphone timer app

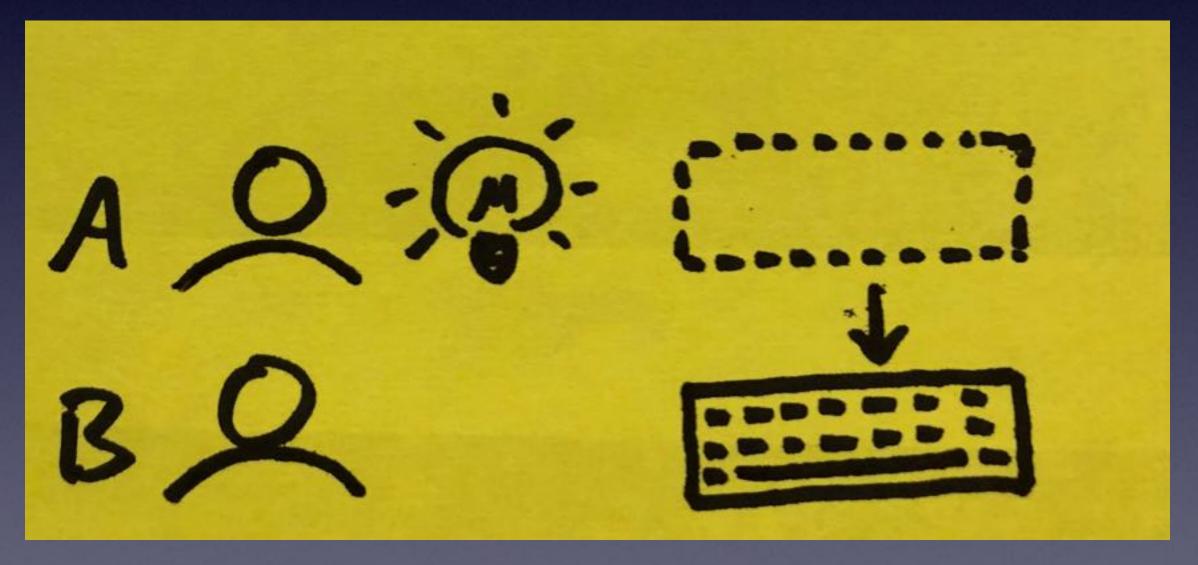


Strong style navigation! default

"traditional"

"strong style"





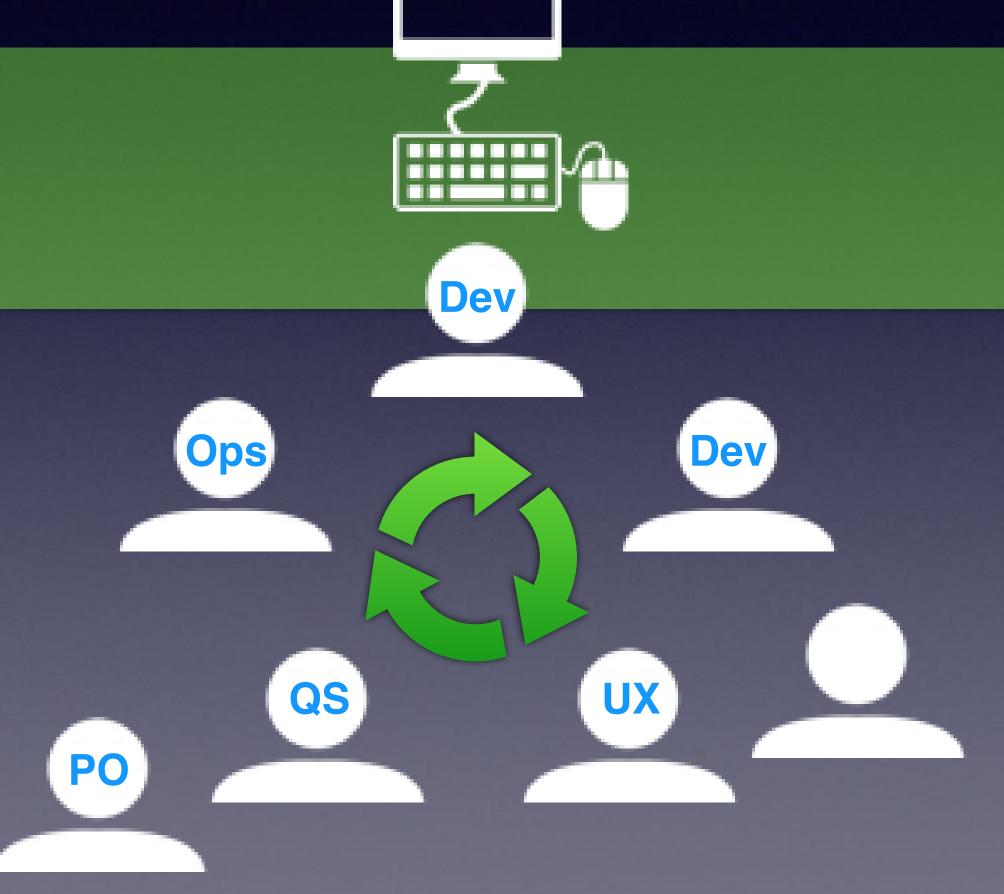
@LlewellynFalco

"All the brilliant minds"

Switch roles across the whole team!

Fixed timebox → pass keyboard (every 5-10 min. / remote 10-15)

Getting the **most important** task done first.

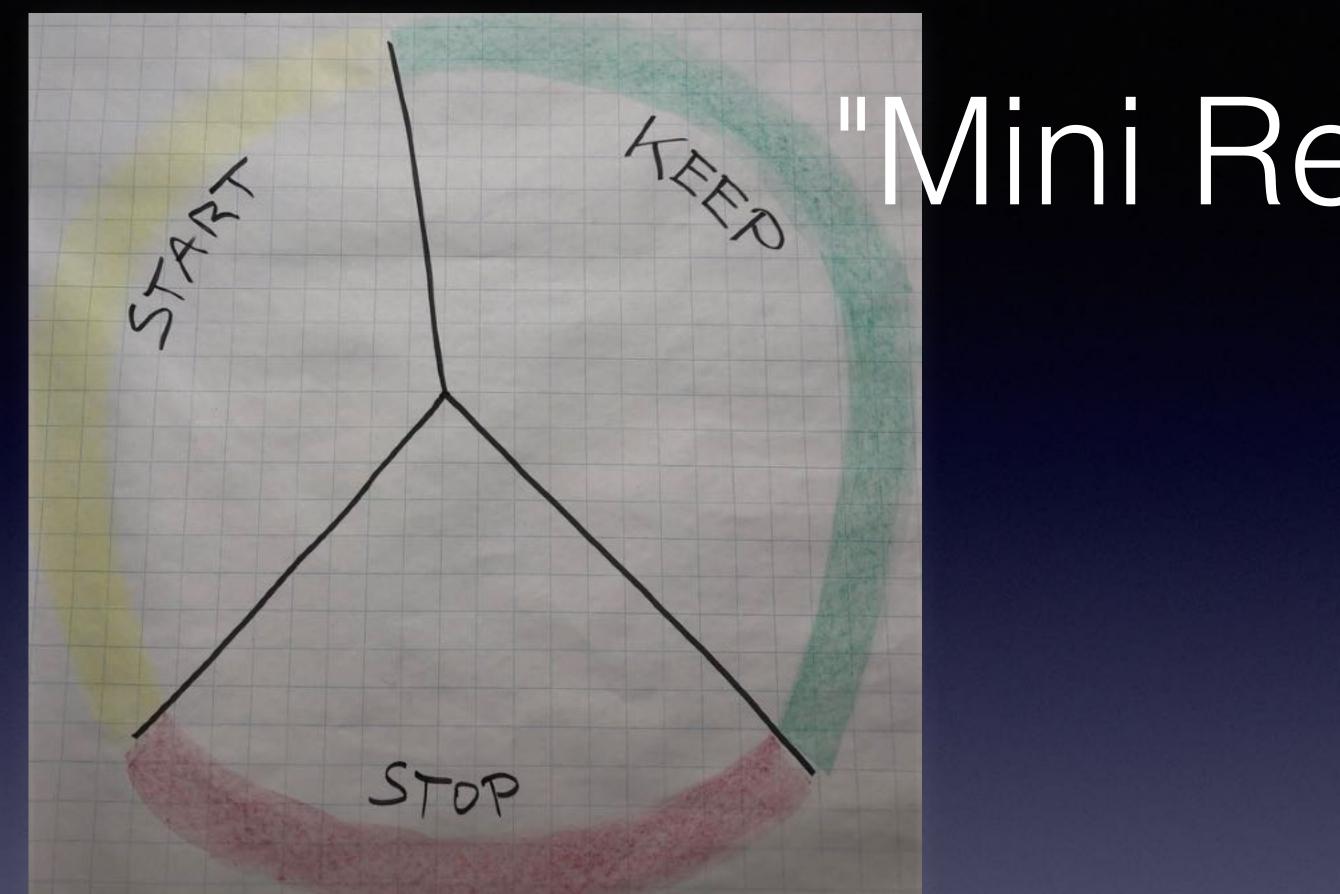


Mob session agenda

- Agree guidelines for this mob session (timebox, navigator? etc.)
- Short introduction to the task
- Discovery/estimation/planning/implementation



- Break ca. 1x per hour
- Duration of the mob session? 2h, ..., half day, whole day
- Short retrospective (start/stop/keep)



"Mini Retros"

litle, Topic, Subject (Participants?) etc. **KEEP** START **STOP**

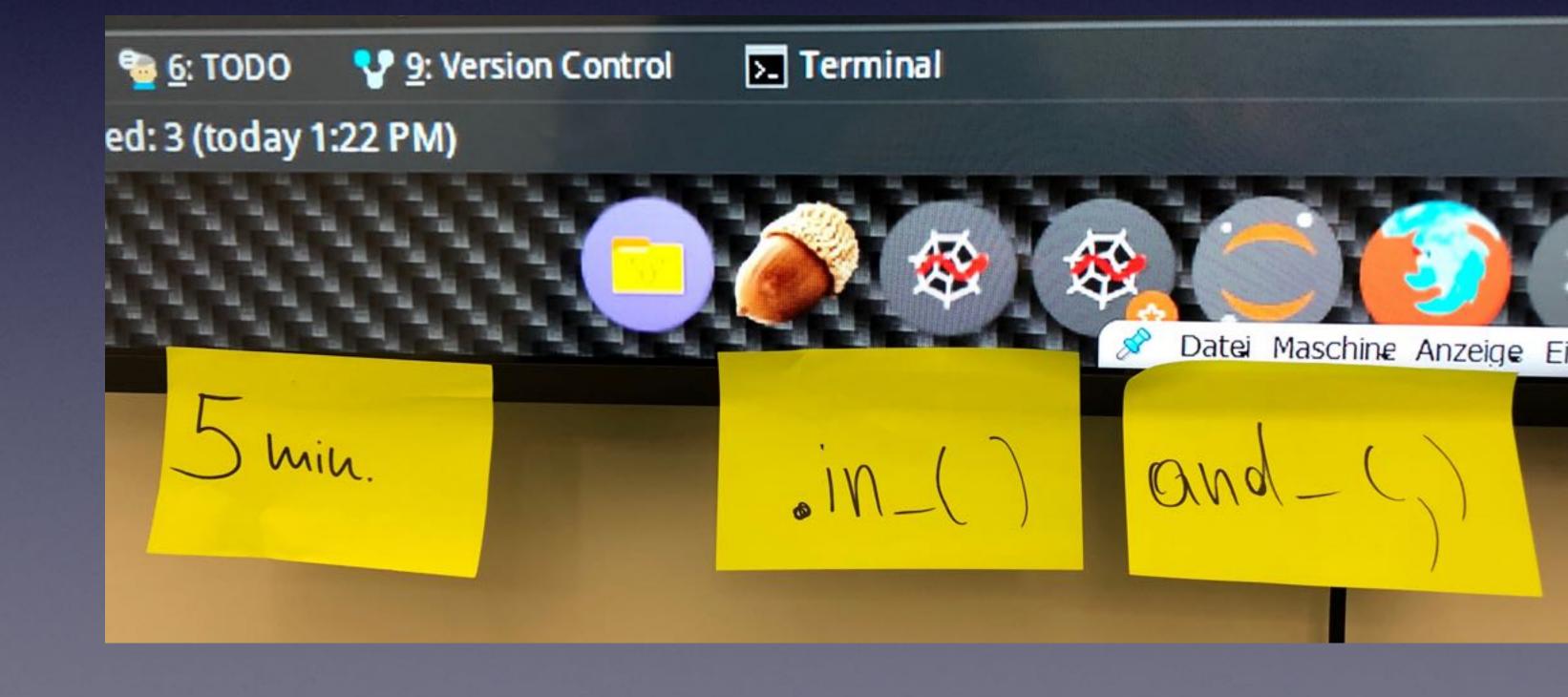
Next steps for tomorrow / for next session:

Focus on "keep" & "start" --> "Turn up the good"

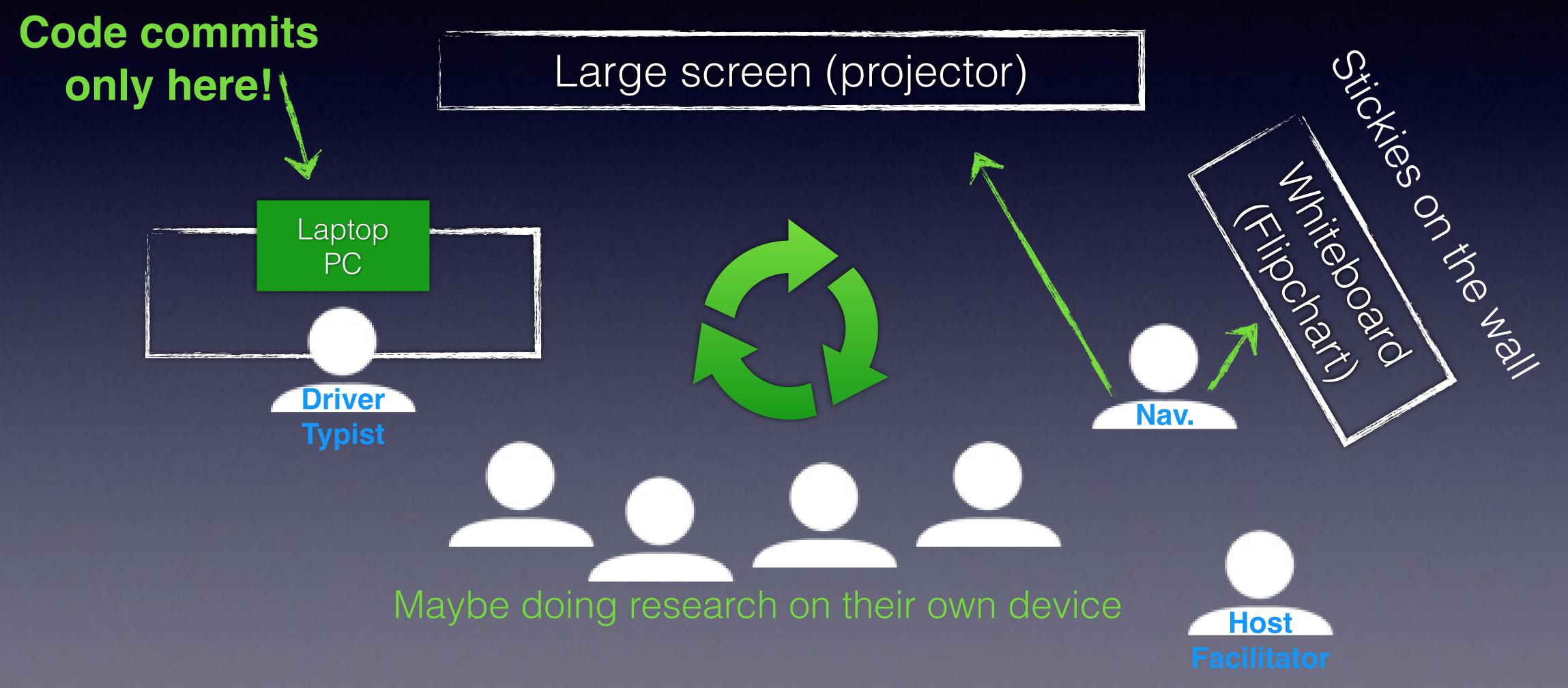
Write a concise "check-in" for next session (recap & next steps & ...)

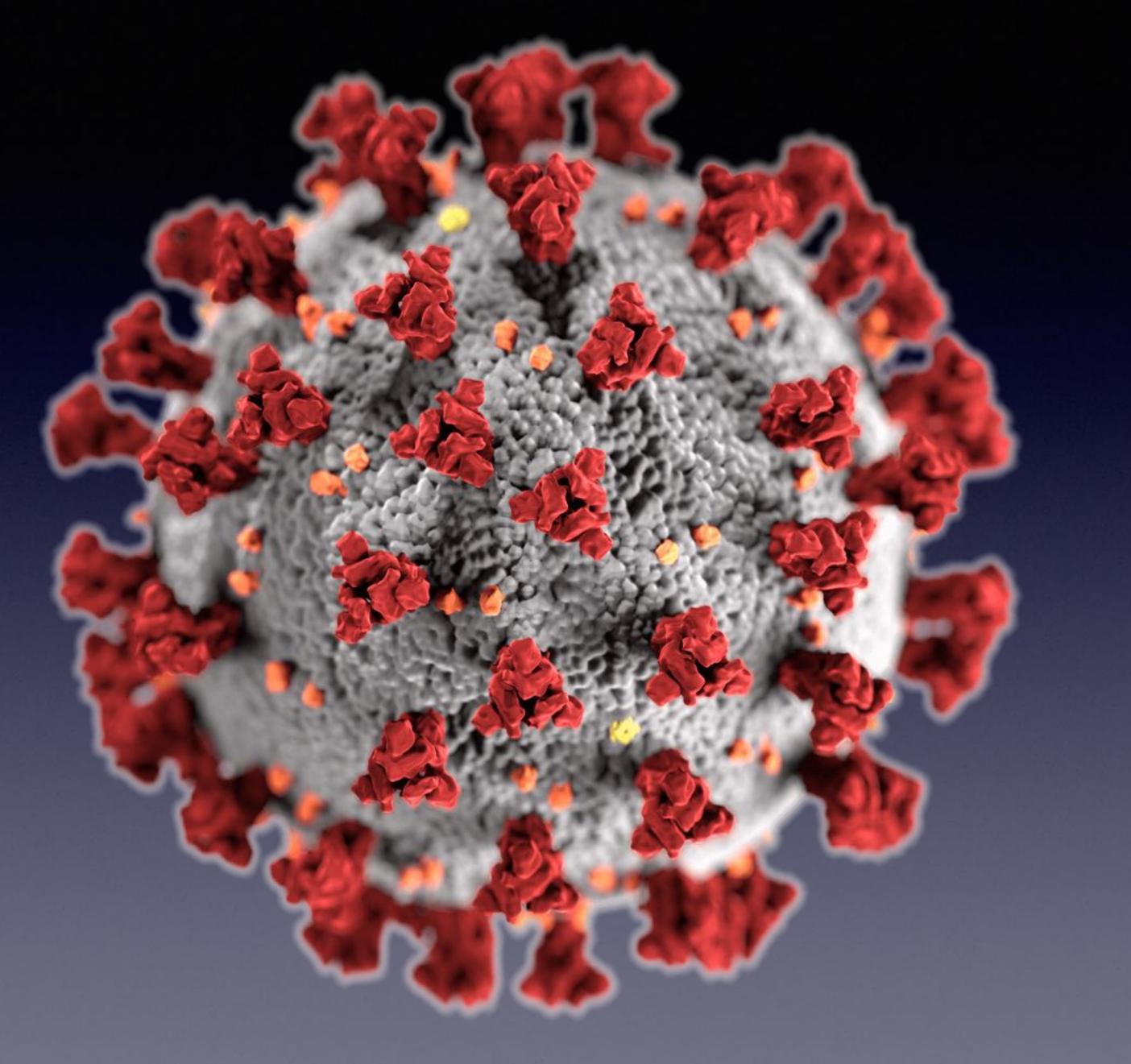
Helpful

- Note down guidelines & insights clearly visible (timebox, ideas, shortcuts ...)
- Use all media!
 (flip chart, whiteboard, wallpaper, writable wall, sticky notes ...)

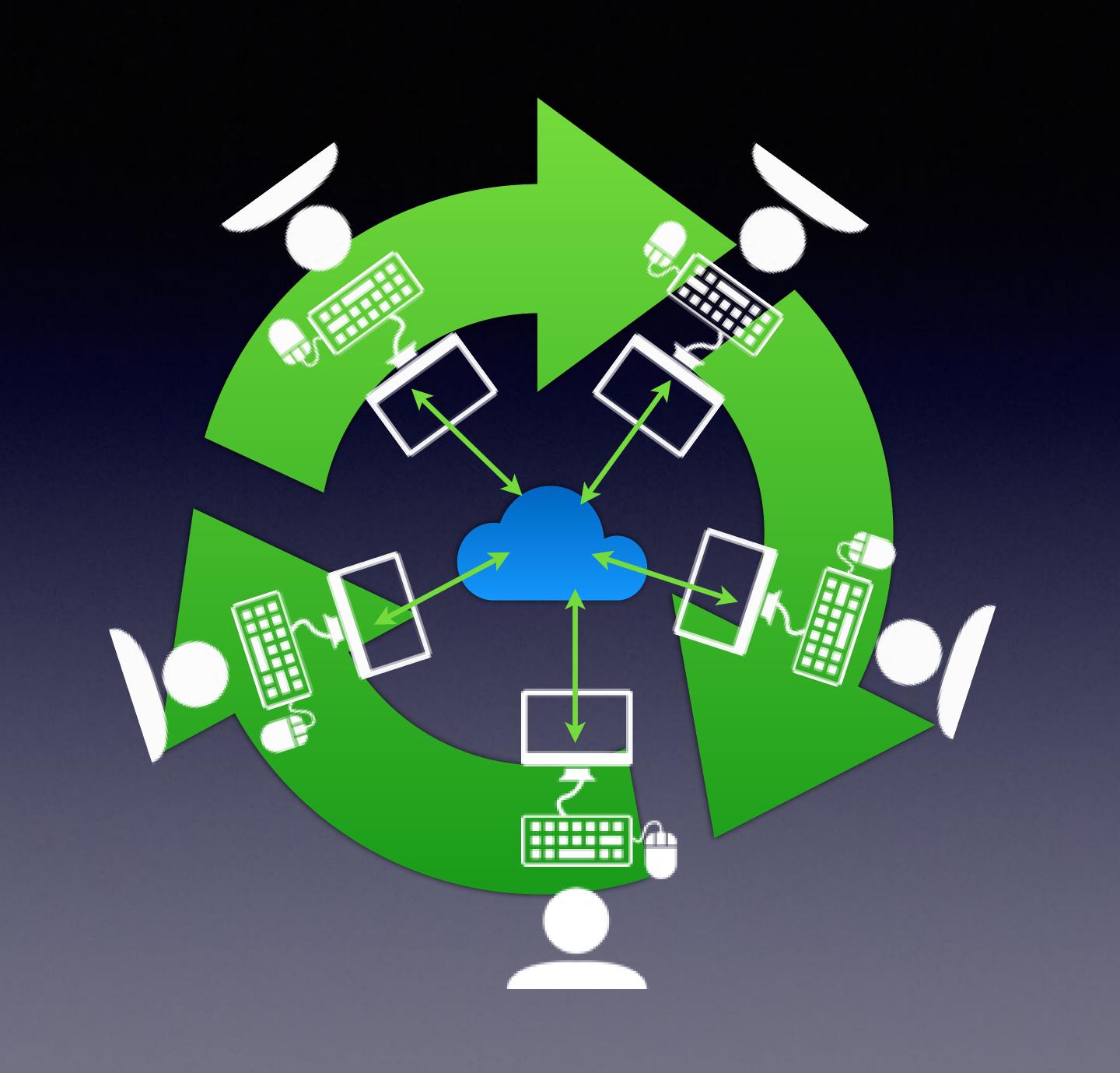


Typist, navigator & rest of the mob





https://phil.cdc.gov/Details.aspx?pid=23312



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

Remote Mob Programming

More than just remote, distributed teams!

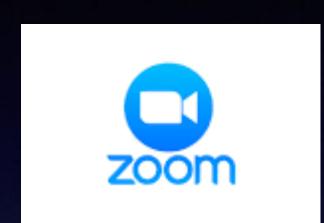
(GitLab) Remote Manifesto - Remote Mob Programming

"Asynchronous communication *over* synchronous communication."

"same time"

How to see each other?













"remote everybody"

How to code together?



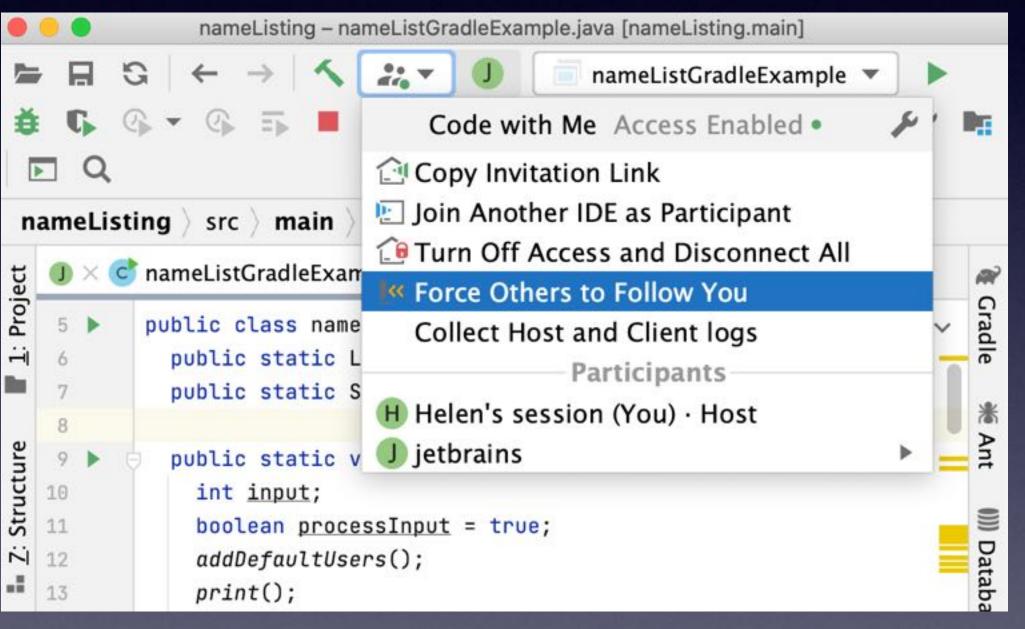
```
# simon begins the mob session as typist
simon$ mob start 10
# WORK
# after 10 minutes...
simon$ mob next
                                                  https://mob.sh/
# carola takes over as the second typist
carola$ mob start 10
# WORK
# after 10 minutes...
carola$ mob next
                                                       IntelliJ plug-in:
simon$ mob start 10
                                            https://plugins.jetbrains.com/plugin/14266-mob
# WORK
# After 6 minutes the work is done.
simon$ mob done
simon$ git commit --message "describe what the mob session was all about"
```

How to code together?

IntelliJ & Code With Me

Share your IDE!

VS Code & Live Share



https://www.jetbrains.com/help/idea/code-with-me.html



GitDuck

https://gitduck.com/



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

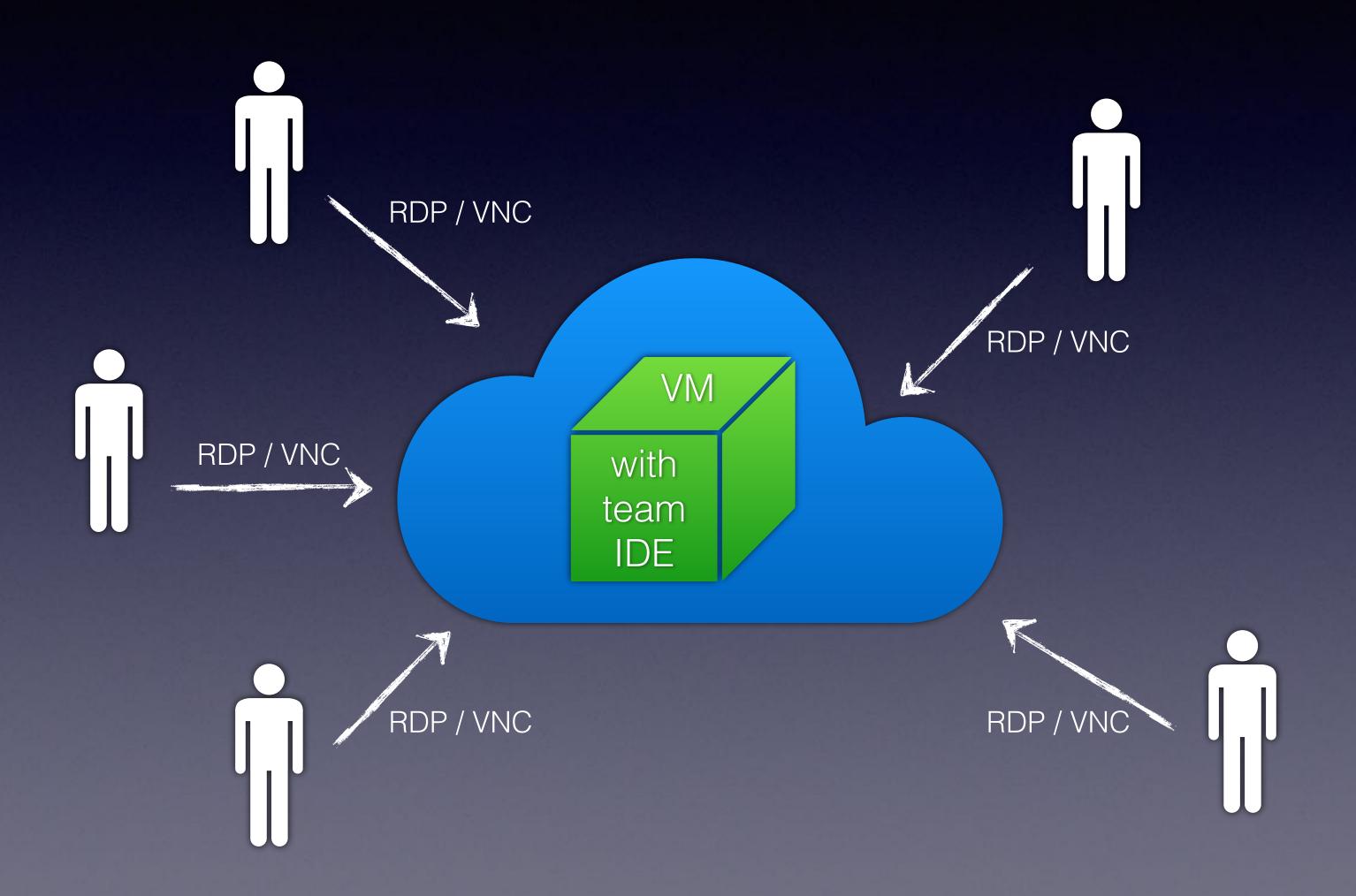




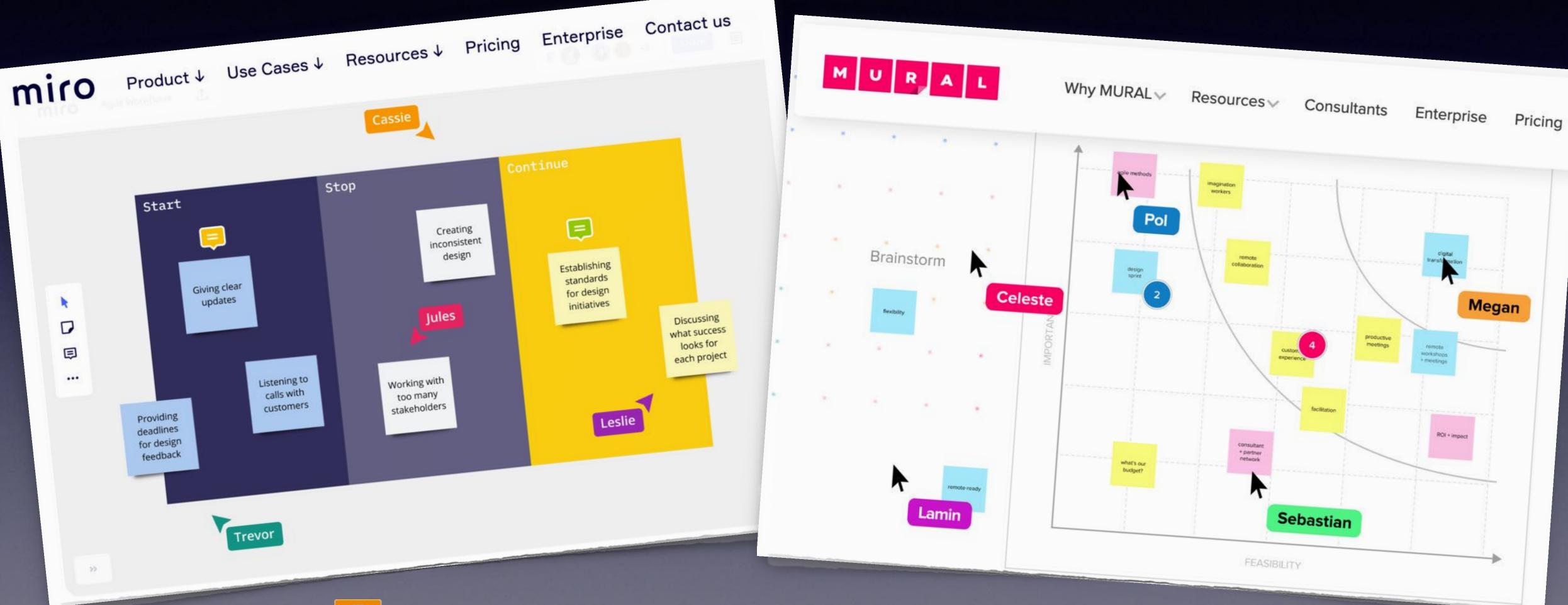


Gitpod 39 THEIA

How to code together?

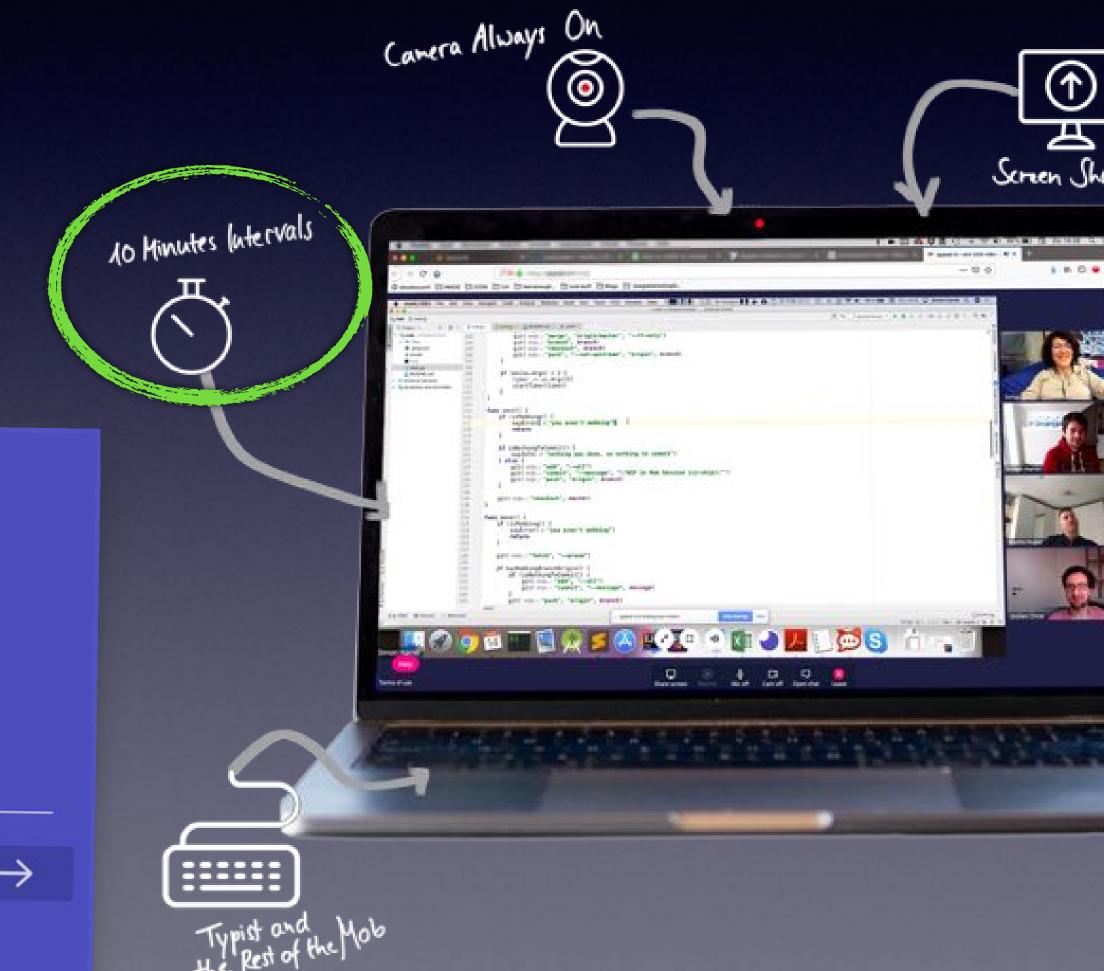


How to draw on a whiteboard?



How to keep track of time?







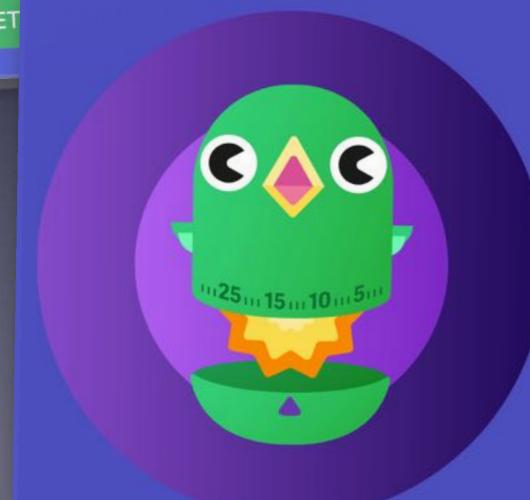
A productivity timer for remote teams.

CREATE A SHAREABLE LINK

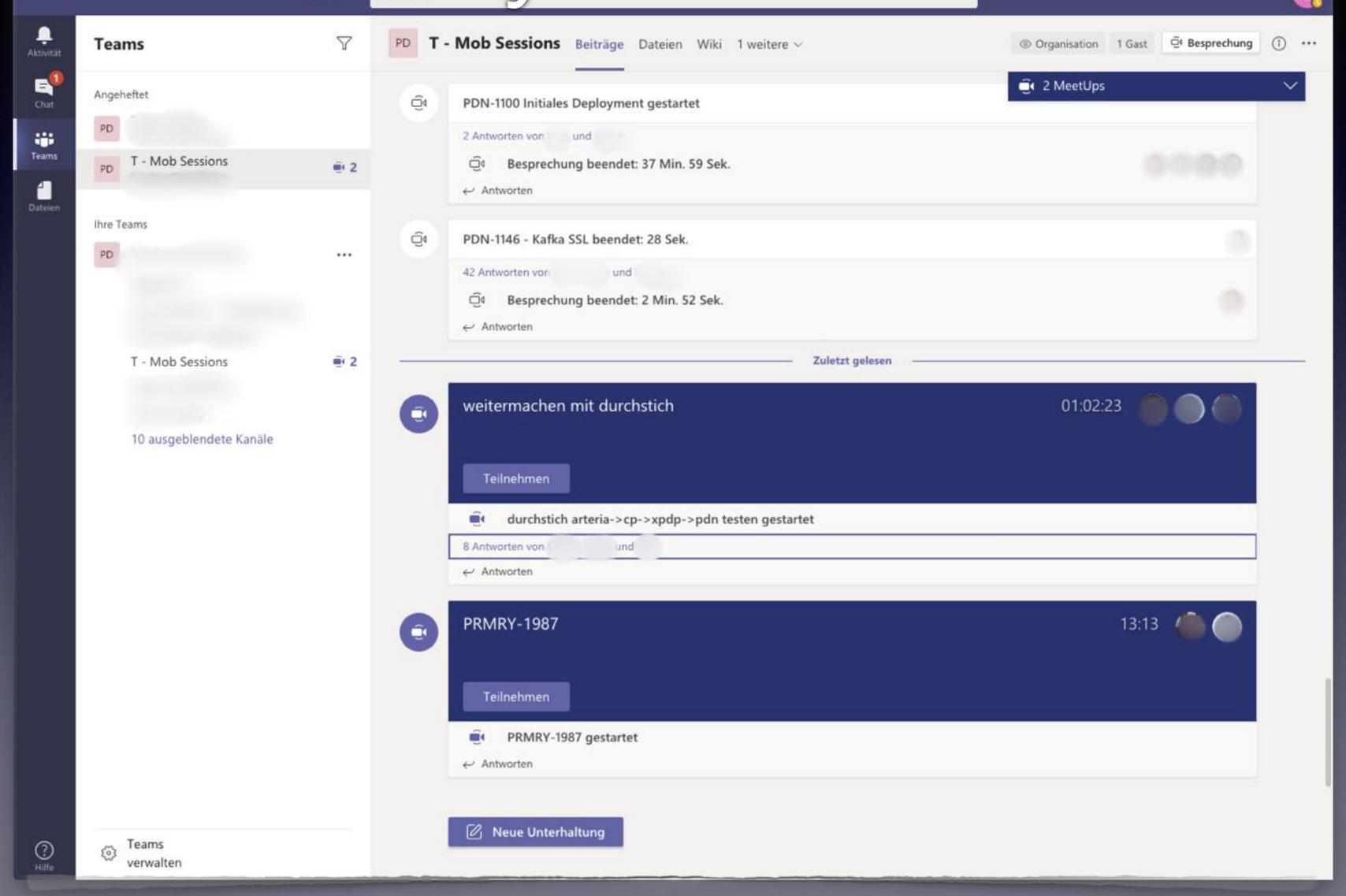
cuckoo.team/ my-mob-session-123

Skip





How to find my next mob session?



Whether remote or co-located...

There will be "mobs" of 2 ...

Your pair programming will get better

by practicing mob programming!

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



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

Being "driver" vs. being "typist"

Pair programming – being driver can be stressful

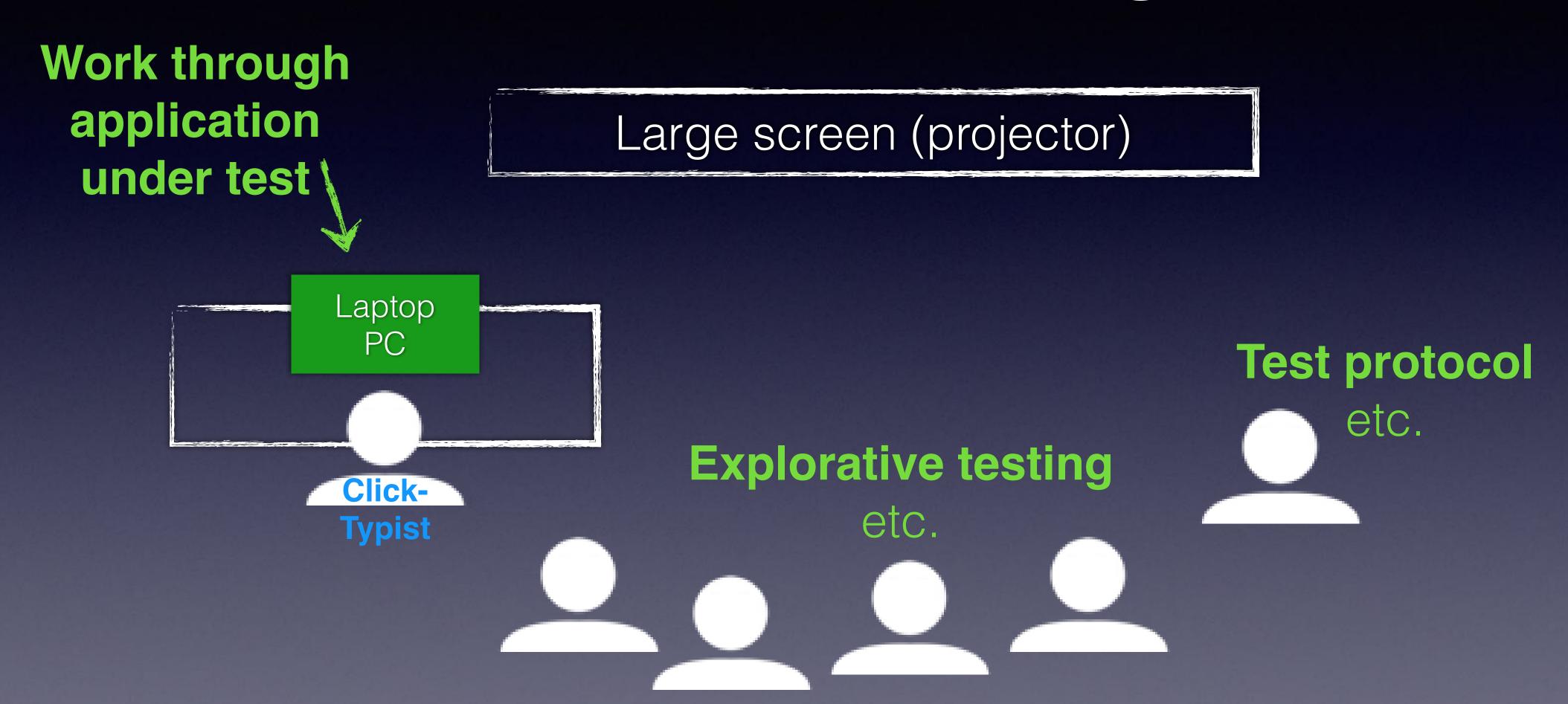
1:1

Too large gap in knowledge and skills?

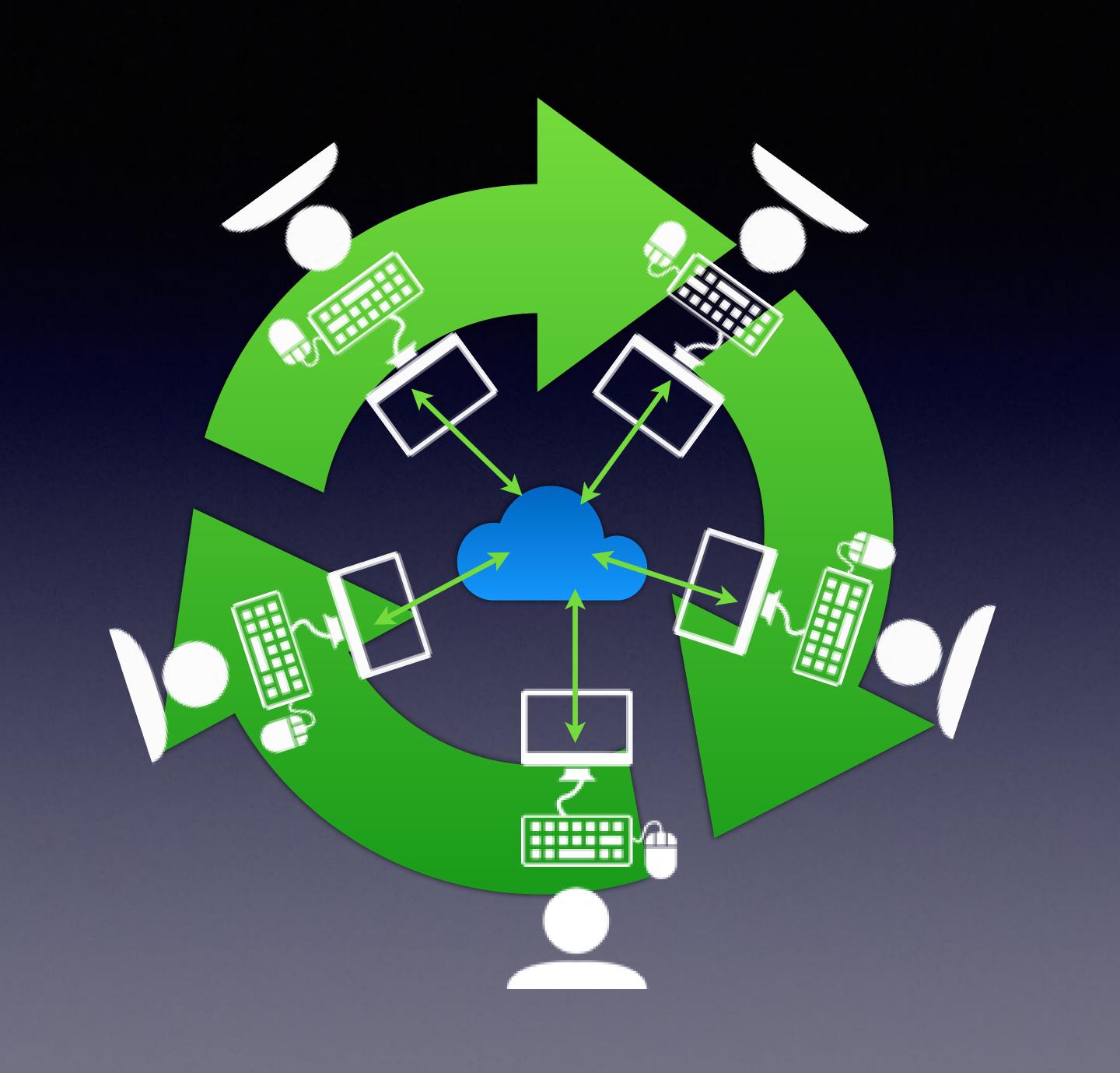
Mob programming – relax while being typist

Wait, lean back & let the navigators do the thinking Keep the minutes (in code)

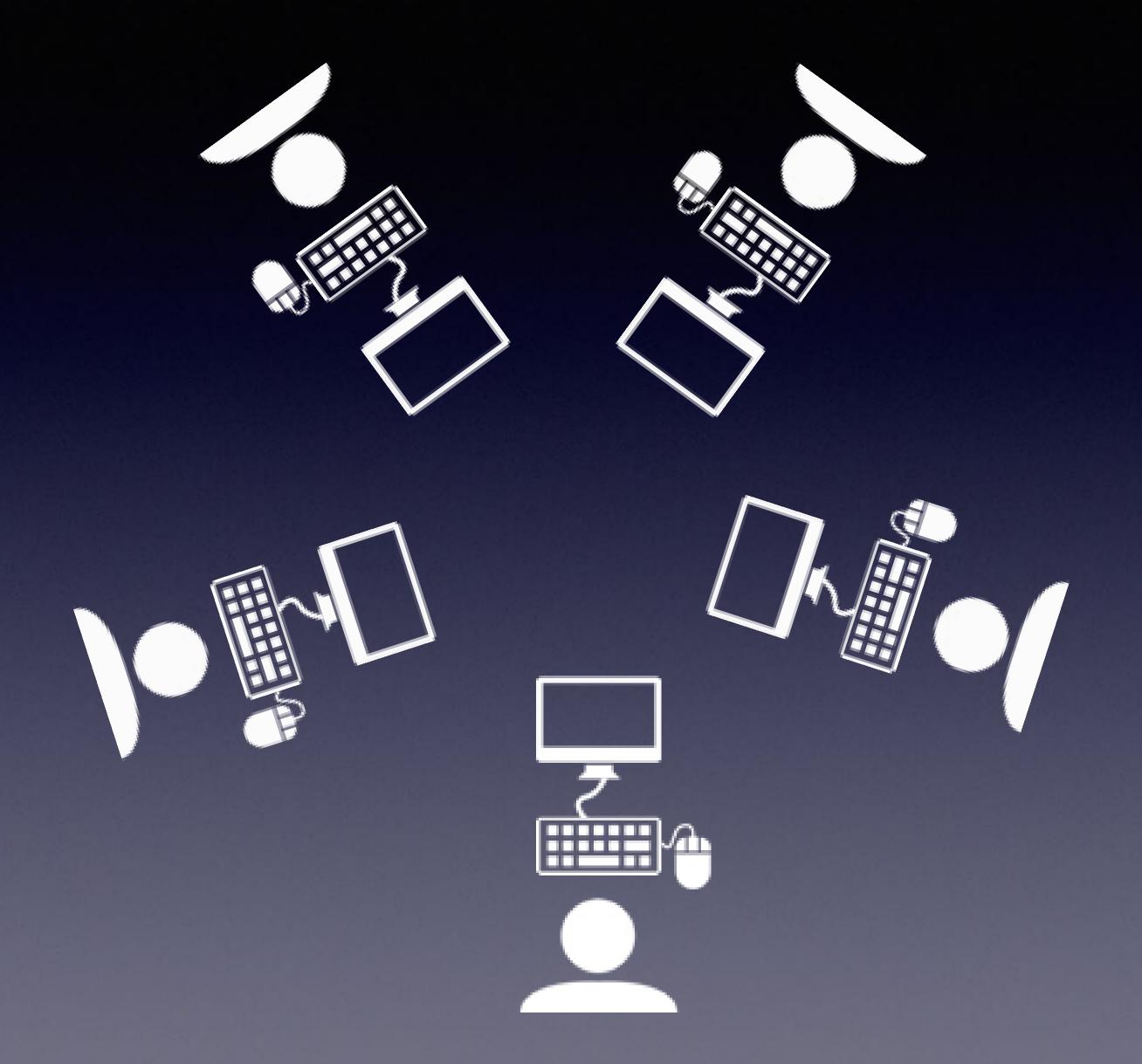
Mob Testing



Why does (Remote) Mob Programming work?

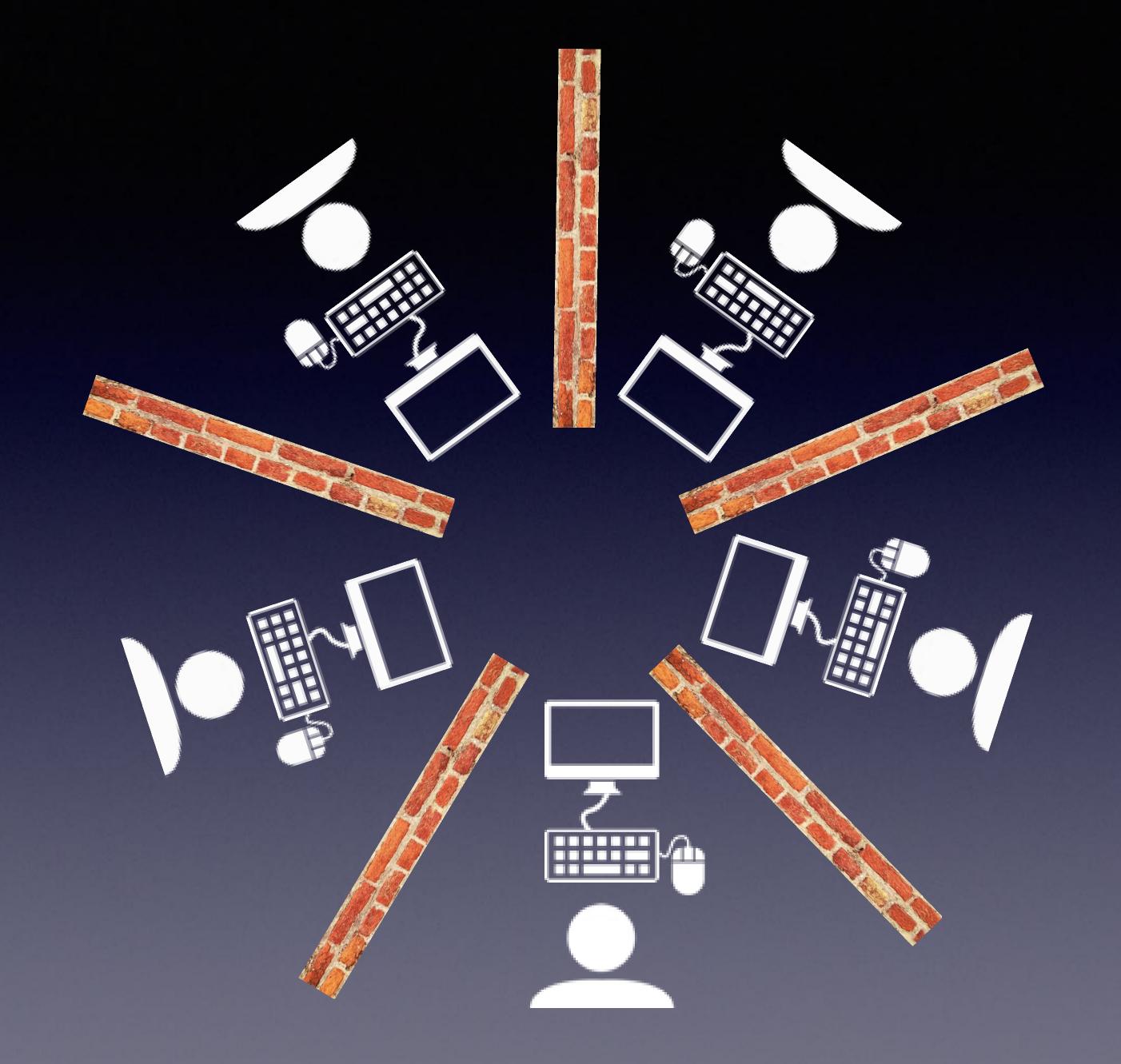


In Your Office



One team?

In Your Office



"Teams" of 1?

Home
Office
- worse?



duck away...

Remote? Not a Problem.

On-site presence *not* required for team spirit!

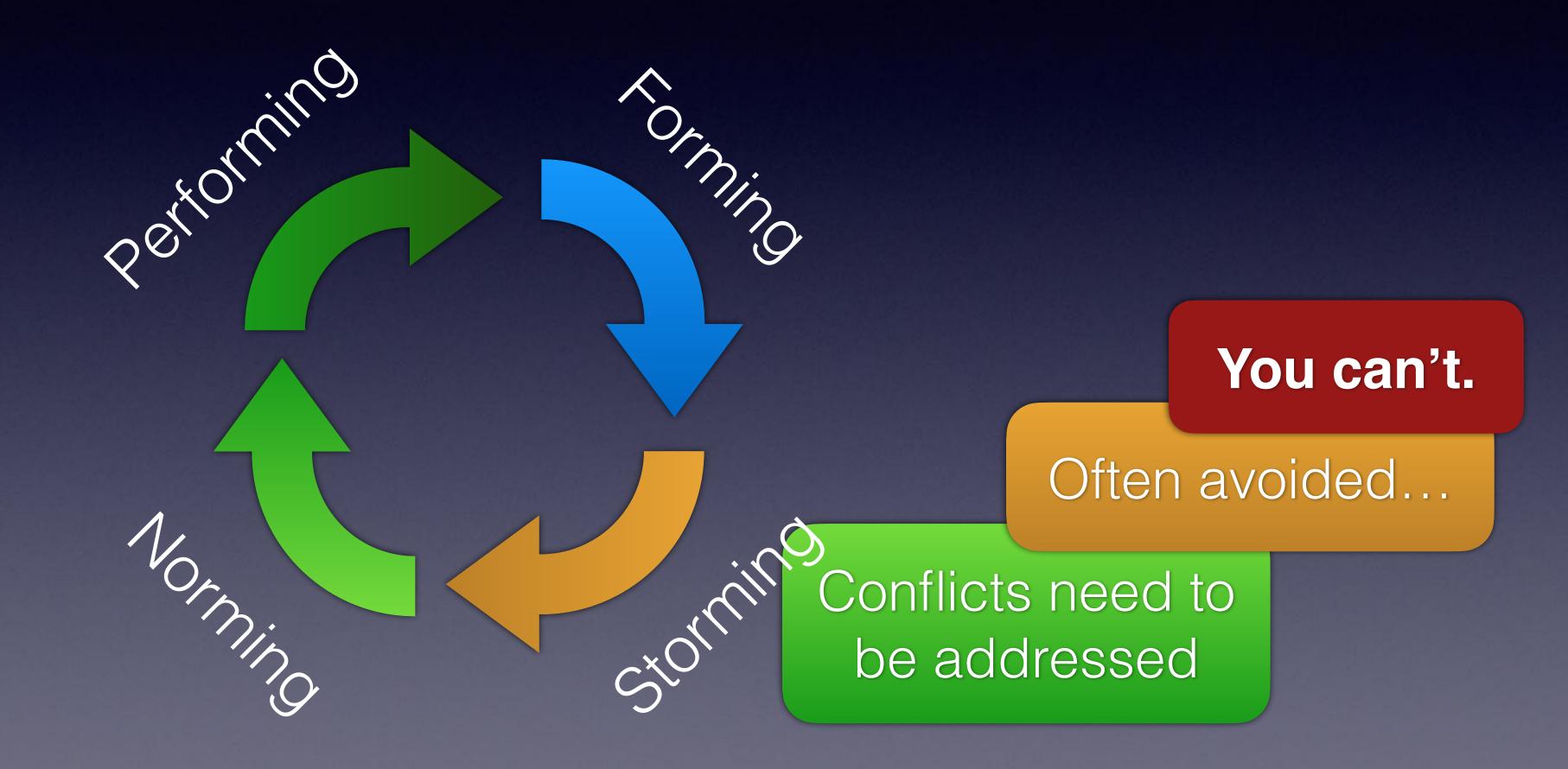
We need:

Common values

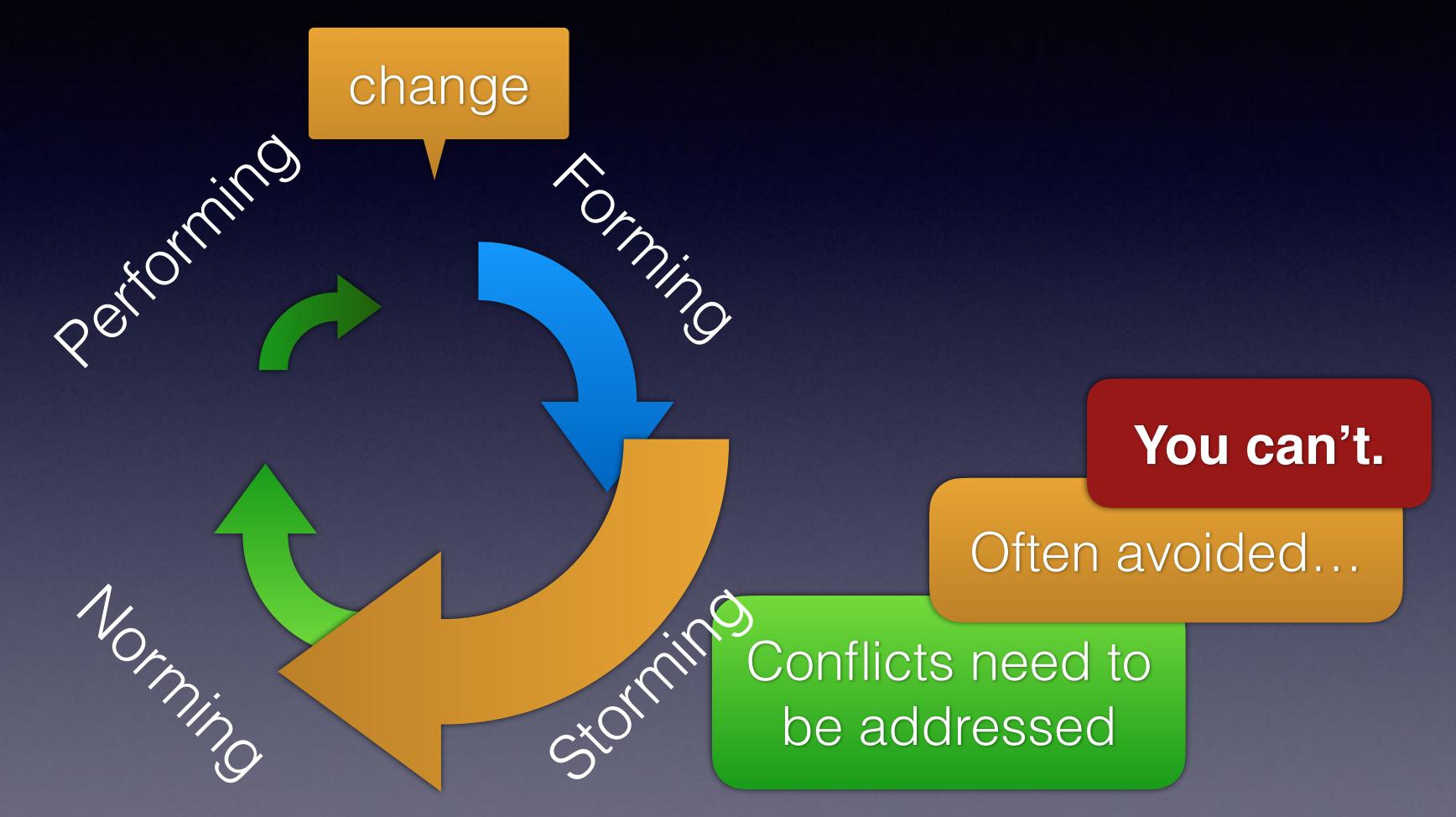
Trust

Seeing each other regularly

Stages of Group Development



Stages of Group Development



Stable Teams?

Teams are immutable

Change happens

New team, new forming/storming/...

Mob Programming



Optimise for Easy Change

Resistance to change?

Resilience to change!

Sharing Knowledge?

Documentation.

Afterwards.

"Show & tell"

Amazingly difficult!

Collaborate? Co-author, co-create!

Build knowledge and experience together!

Right from the start.

Mob Programming:

Implicit (tacit)
knowledge & skills
made visible

Someone else is asking the question I would like to ask (but don't know how to express it)

Watch others think.

See. Experience. Do it yourself.

Knowledge and skills Know how

Tackle complexity

Our problems (tasks) are getting more & more complex

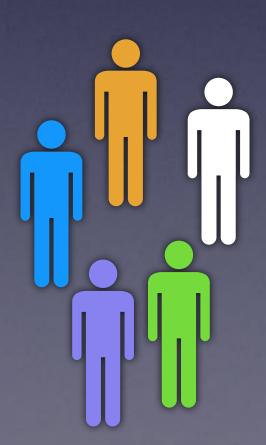
Team has to comprehend **path** to the solution (not only the result)

Why this architecture?
Why is some code *missing* here?

Cynefin

We are often here

Cause & effect can often be understood in retrospect only



Complex

Enabling constraints
Loosely coupled
probe-sense-respond
Emergent Practice

Complicated

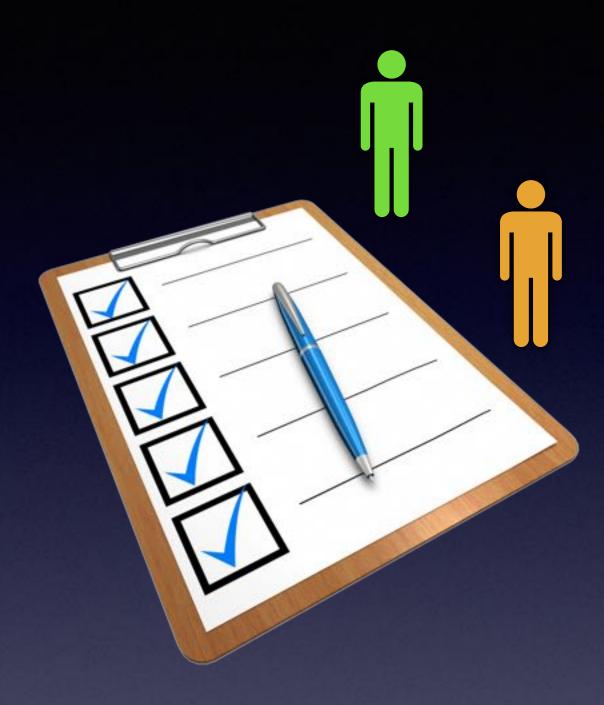
Governing constraints
Tightly coupled
sense-analyse-respond
Good Practice

Chaotic

Lacking constraint
De-coupled
act-sense-respond
Novel Practice

Obvious

Tightly constrained
No degrees of freedom
sense-categorise-respond
Best Practice





The Cynefin Framework by Dave Snowden. CC BY-SA 3.0

3 stages of Mob Programming

Different team phases

Different problem categories

Learning together

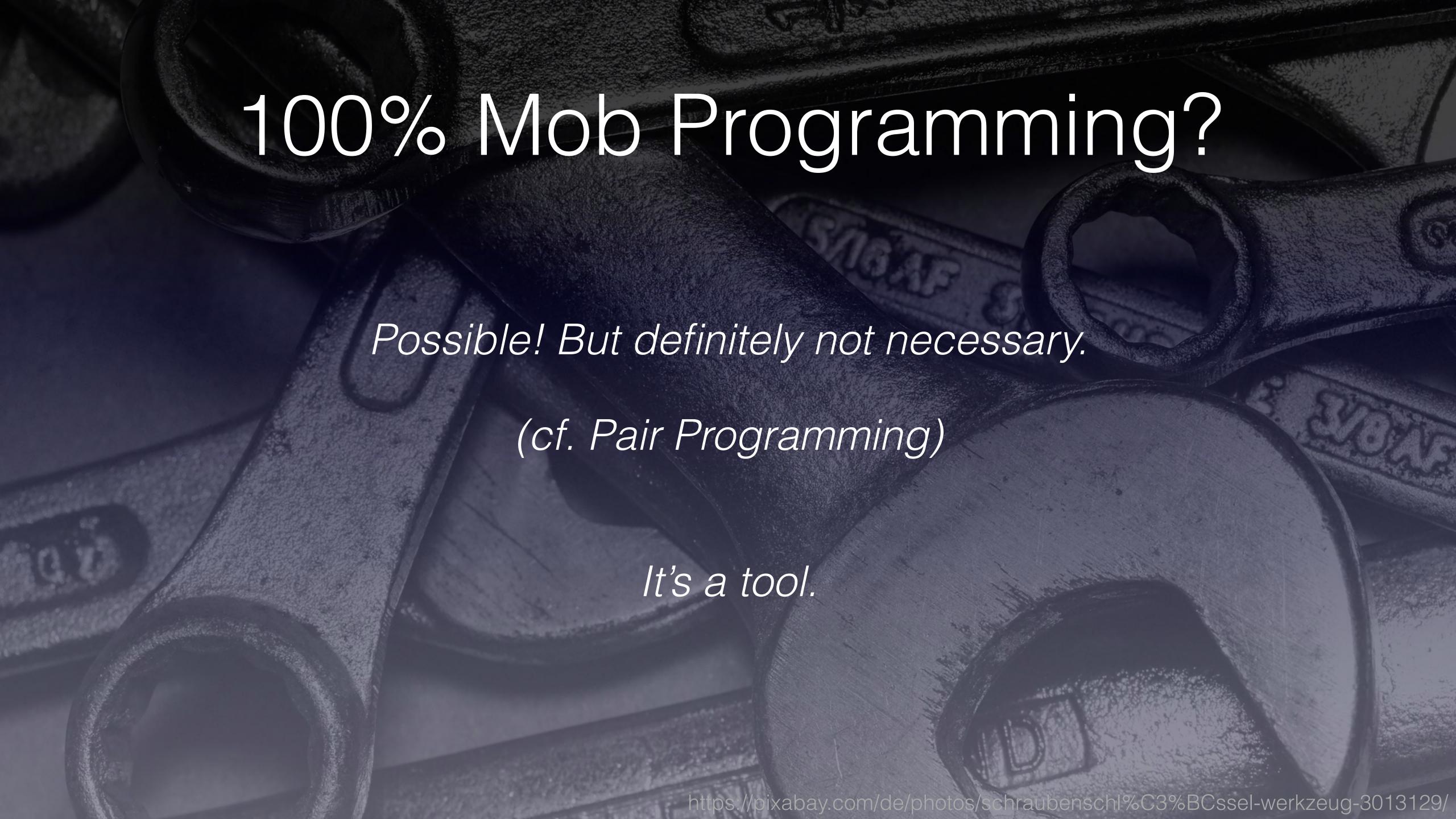
Being productive together

Exploring together

Short-term:
Pass on knowledge & skills

Medium-term:
Maintainability &
collective code
(product) ownership

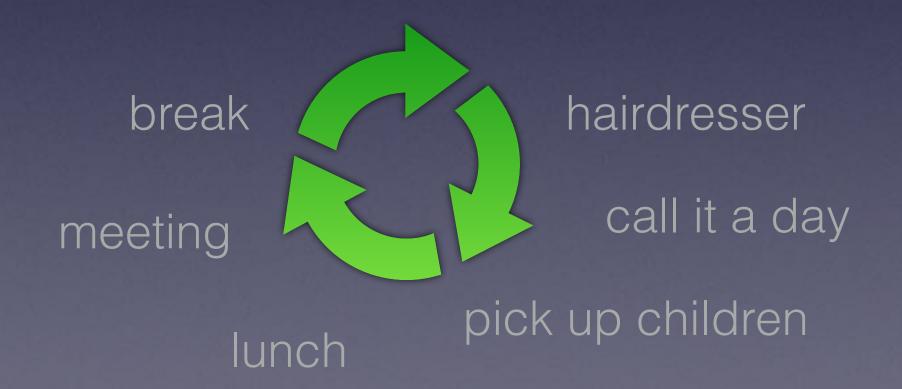
Long-term: Culture change



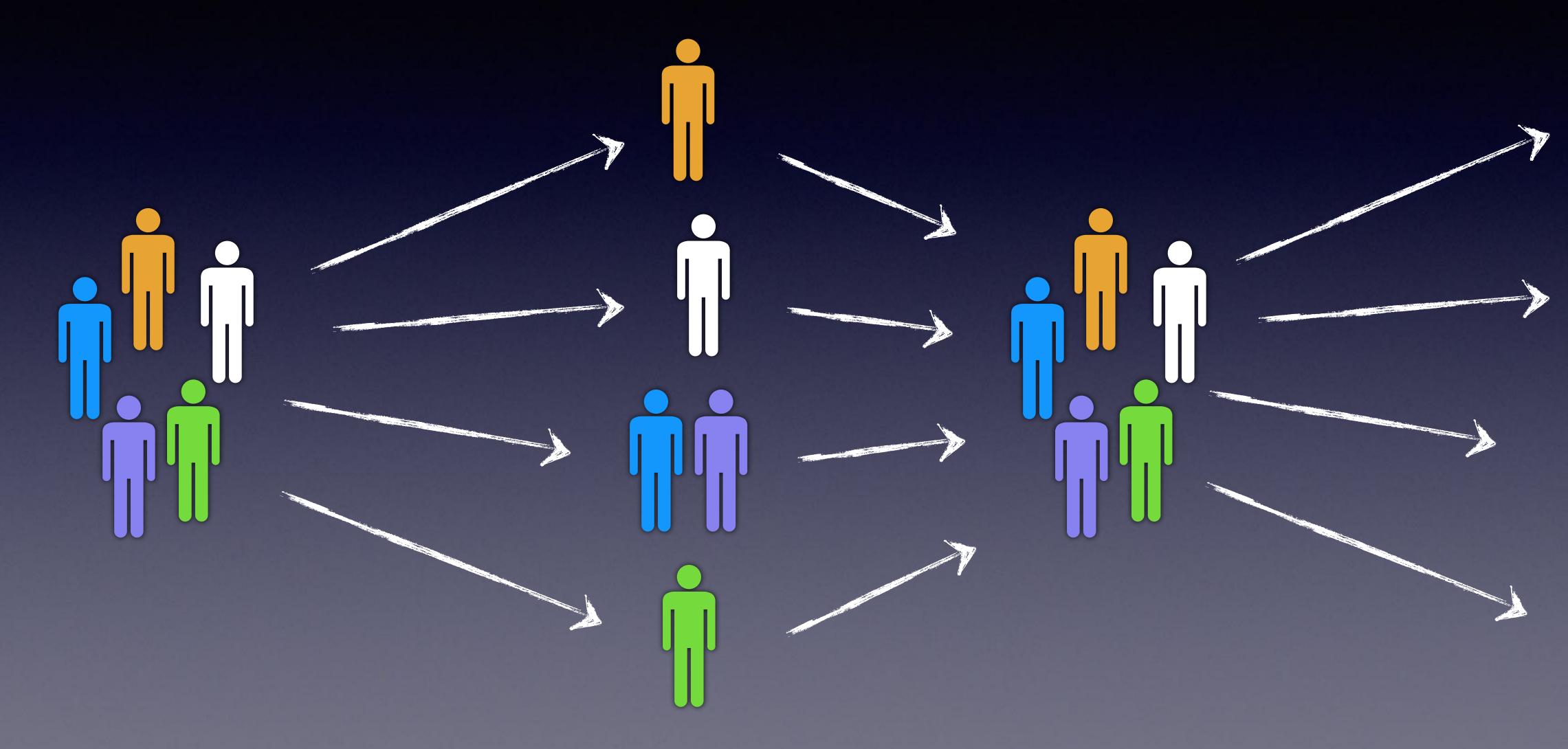
100% for the most important task

... but not everybody has to be there 100% of the time!

Dynamic mob: come and go

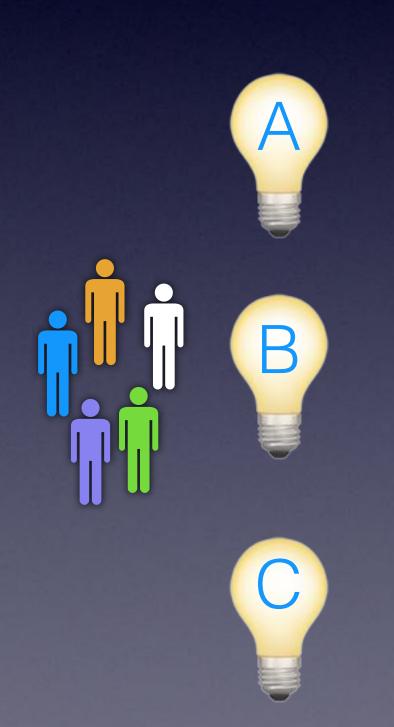


Start together!



Team decisions

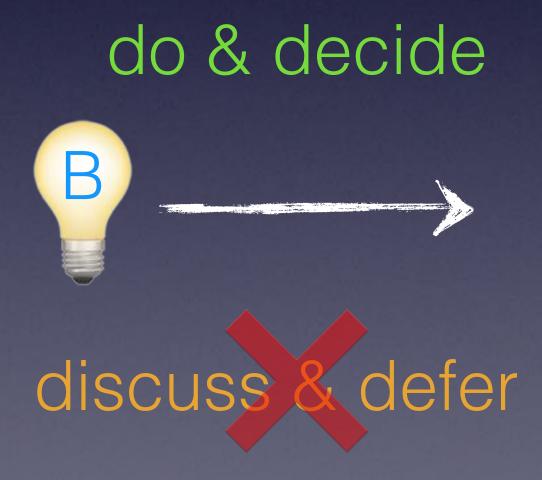
More than one idea? Try them all!











Different to meetings!

Mob Programming yields

working, tested, shared code.

Making us & our customers happy 49

"If you want to go fast, go alone.

If you want to go far, go together."

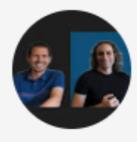
Proverb











Mob Mentality Show

755 subscribers

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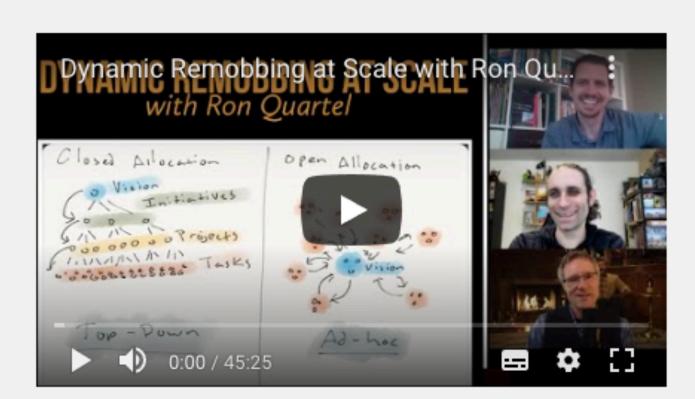
PLAYLISTS

CHANNELS

DISCUSSION

ABOUT

Q



Dynamic Remobbing at Scale with Ron Quartel

34 views • 18 hours ago

Chris Lucian and Austin Chadwick discuss all things #agile and product development from a #MobProgramming perspective. Imagine a team of 30-150 people that turned up the dial on selforganization to the max. Instead of favoring top-down closed allocation, they embraced open-allocation and autonomy. Now also imagine that many of these people happen to love #PairProgramming and #MobProgramming. What would their READ MORE

Remote Mob Programming

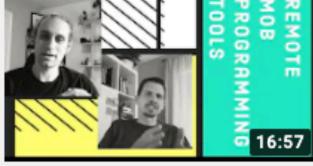


PLAY ALL



Remote Mobbing with Simon Harrer, Jochen Christ, and...

Mob Mentality Show



Remote Mob Programming Tools

Mob Mentality Show



Remote Mob Programming Etiquette

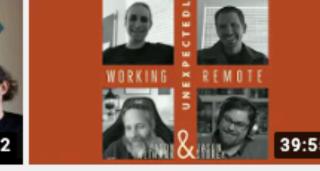
Mob Mentality Show



Remote Collaborative

Remote Collaborative Coding with Lynn Langit

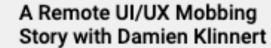
Mob Mentality Show



Unexpectedly Working

Mob Mentality Show

Remote with Jason Weiman...

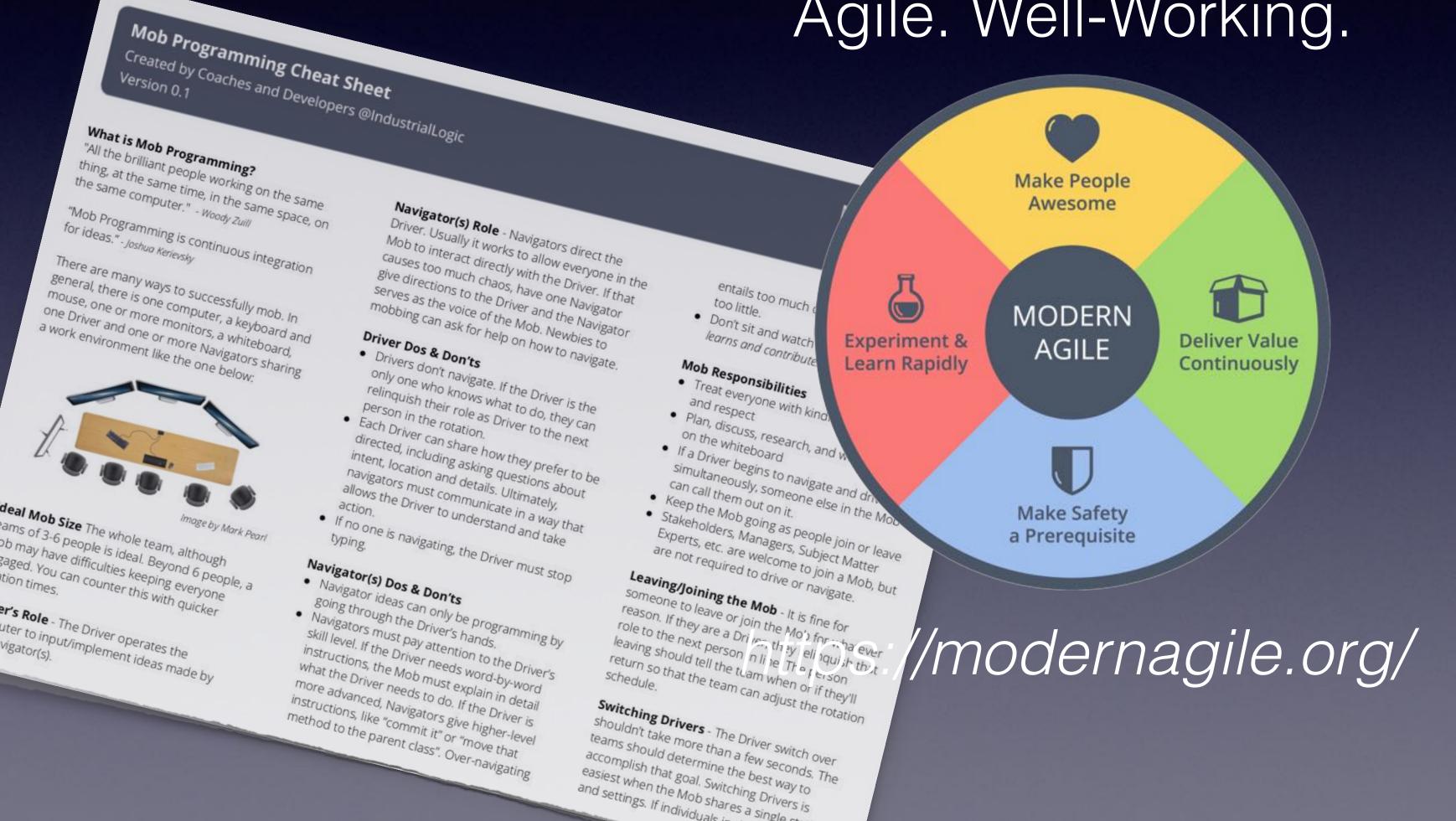


Mob Mentality Show



Modern Agile

Agile. Well-Working.



easiest when the Mob shares a single static

and settings. If individuals in the

#MobProgramming

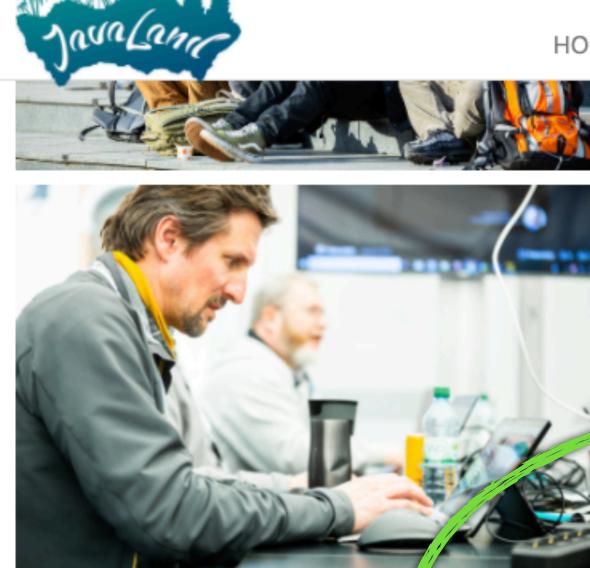
#NoEstimates

#NoProjects

#ModernAgile

Virtual JavaLand 2021

Login



OME PROGRAMM ~

TICKETS

DETAILS ZUR TEILNAHME

REFERENTEN

HALL OF FAME

TEAM

präsentiert ihr euren Entwurf, bekommt Feedback und könnt die Lösung anschließend verbessern! Bearbeitet jenseits von eingetretenen Pfaden des Projektalltags gemeinsam mit anderen eine Architekturaufgabe. Übt es, Architekturen und Architekturentscheidungen zu präsentieren und zu begründen!

Voraussetzungen: Für die Teilnahme ist ein Rechner mit Internetzugang, Kamera und Mikro (bzw. Headset) erforderlich. Vor dem Workshop gibt es noch eine E-Mail mit Details. Um Gedanken und Ideen bezüglich der Architektur zu teilen, ist ein Mal- oder Modellierungsprogramm hilfreich.

MOB-PROGRAMMING-DOJO

Mob-Programming ist eine Methode der agilen Softwareentwicklung, bei der ein ganzes Team zur gleichen Zeit und am gleichen (virtuellen) Ort an der gleichen Aufgabe arbeitet. Lasst euch das Mob-Programming-Dojo nicht entgehen und probiert es anhand unserer vorbereiteten Aufgaben selbst einmal aus! Der Workshop richtet sich an Menschen in Software-Entwicklungsteams, die die Form der virtuellen Zusammenarbeit mit Mob-Programming ausprobieren wollen. Es sind dabei keine besonderen Vorkenntnisse nötig.

Voraussetzungen: Für die Teilnahme sind ein Rechner mit Internetzugang, Kamera und Mikro (bzw. Headset), Java 11, eine Java-IDE (IntelliJ, Eclipse, VS Code), git sowie das die mob-Shell-Tool erforderlich. Vor dem Workshop gibt es noch eine E-Mail mit Details.

Mob Programming

Pair Programming

Know-how transfer

Coaching

Taking breaks

XP

Questions?

Readability

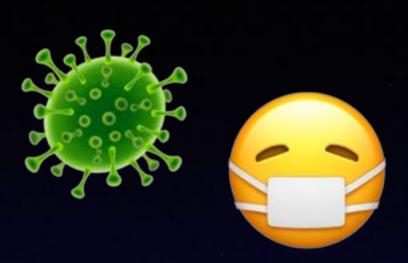
Modern Agile

Simplicity

Strong Style navigation:

gation: Xelocity

Speed











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

thomas@muchsoft.com
@thmuch

Further Reading

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://www.chrislucian.com/p/companies-that-are-mob-programming.html

Mob Timer

https://cuckoo.team/

https://mobti.me/

https://agility.jahed.dev/

http://mobtimer.zoeetrope.com/

https://mobtimer.com/

https://saschamz.github.io/mobtimer/

https://github.com/MobProgramming/MobTimer.Python

https://github.com/pluralsight/mob-timer

http://mobster.cc/

Mob 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