

# (Remote) (Rob Programming

Learn Together. Deliver Together!

Thomas Much

@thmuch

26.05.2021

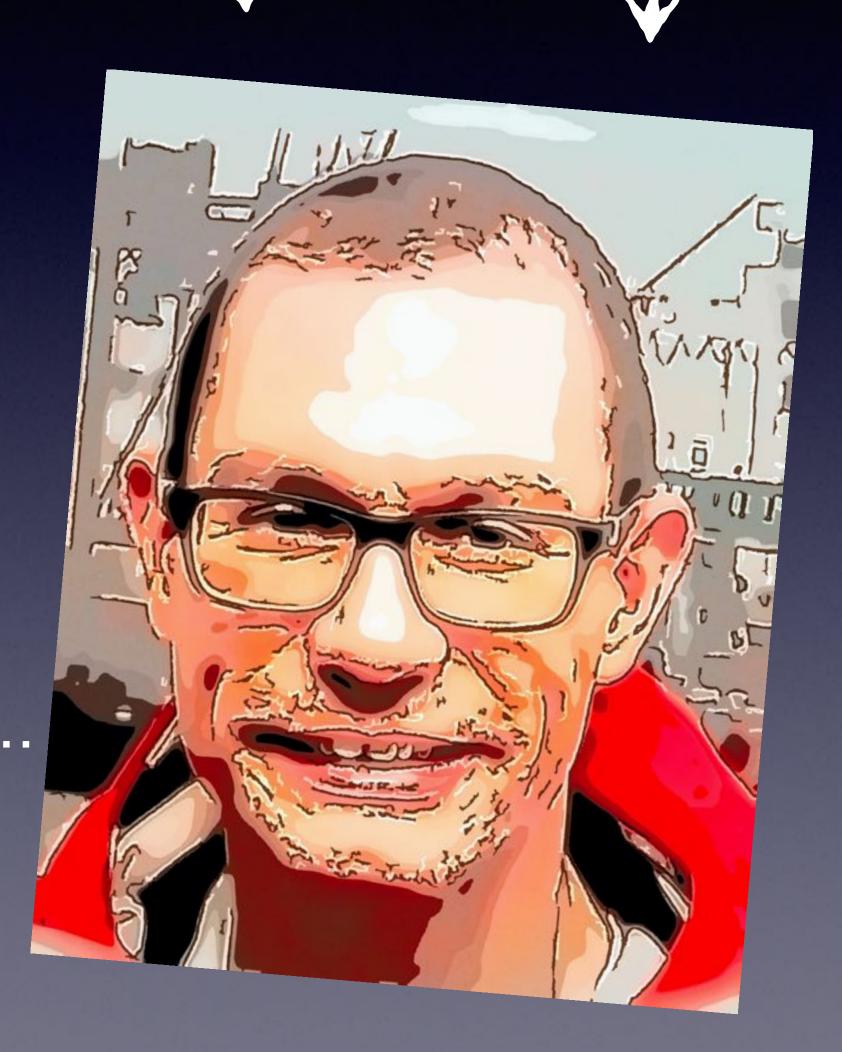
#### Software developer -

Technical agile coach

Mob Programming since 2016

Remote Mob Programming since 2020

... on the shoulders of giants ...







#### Mob Programming

A Whole Team Approach



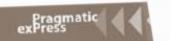
By Woody Zuill and Kevin Meadows



#### MOB PROGRAMMING GUIDEBOOK

MAARET PYHÄJÄRVI





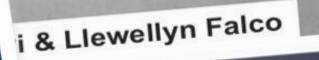
#### Code with the Wisdom of the Crowd

Get Better Together with Mob Programming













Jochen Christ

Simon Harrer

Martin Huber

Remote Mob

**Programming** 

At home, but not alone



#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/

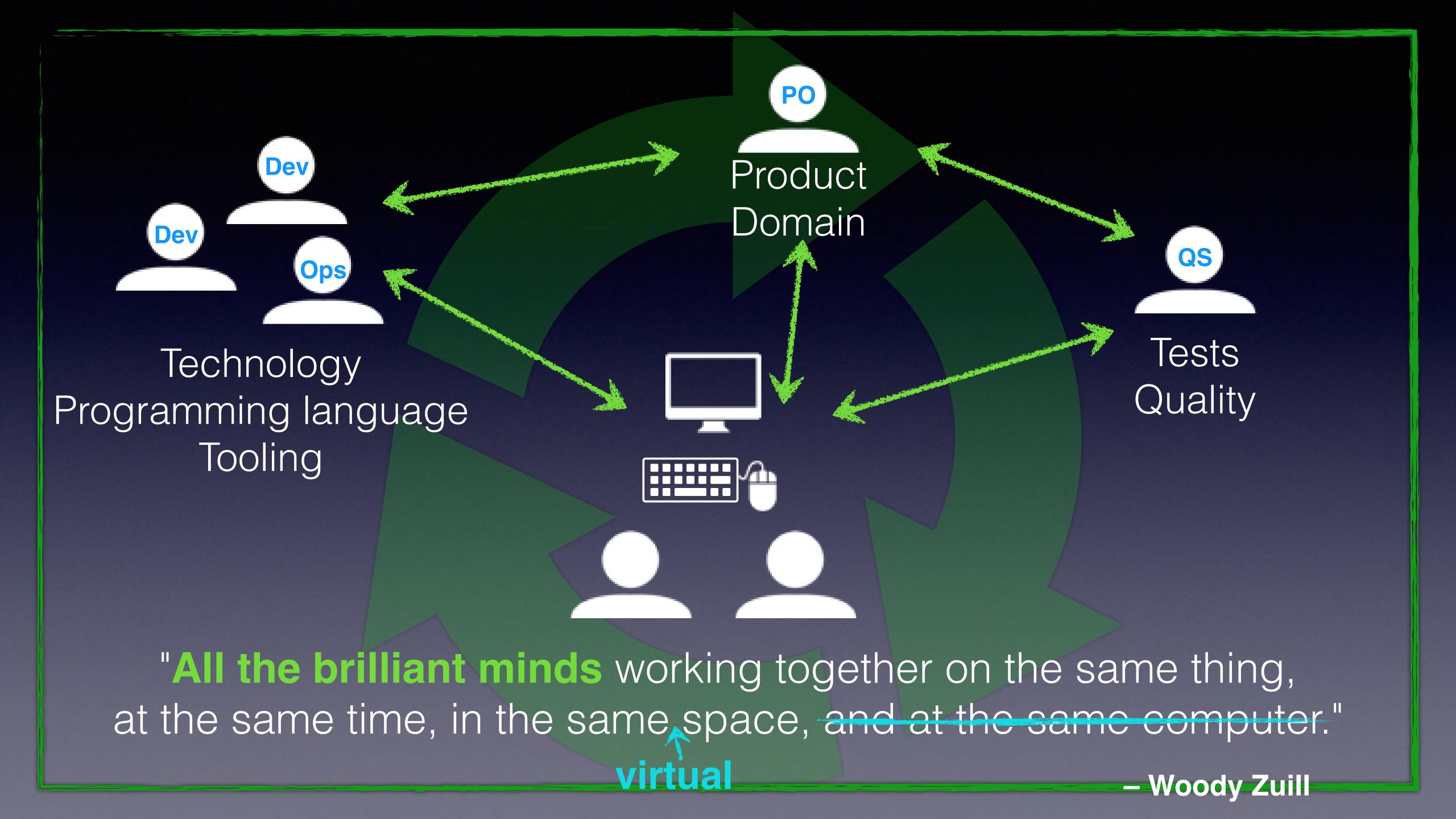
https://twitter.com/woodyzuill

#### Mob Programming

"Mobbing"

Group Programming (Whole) Team Programming

Ensemble Programming\*



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

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

Why does it work (& help us work truly together)?

## 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???

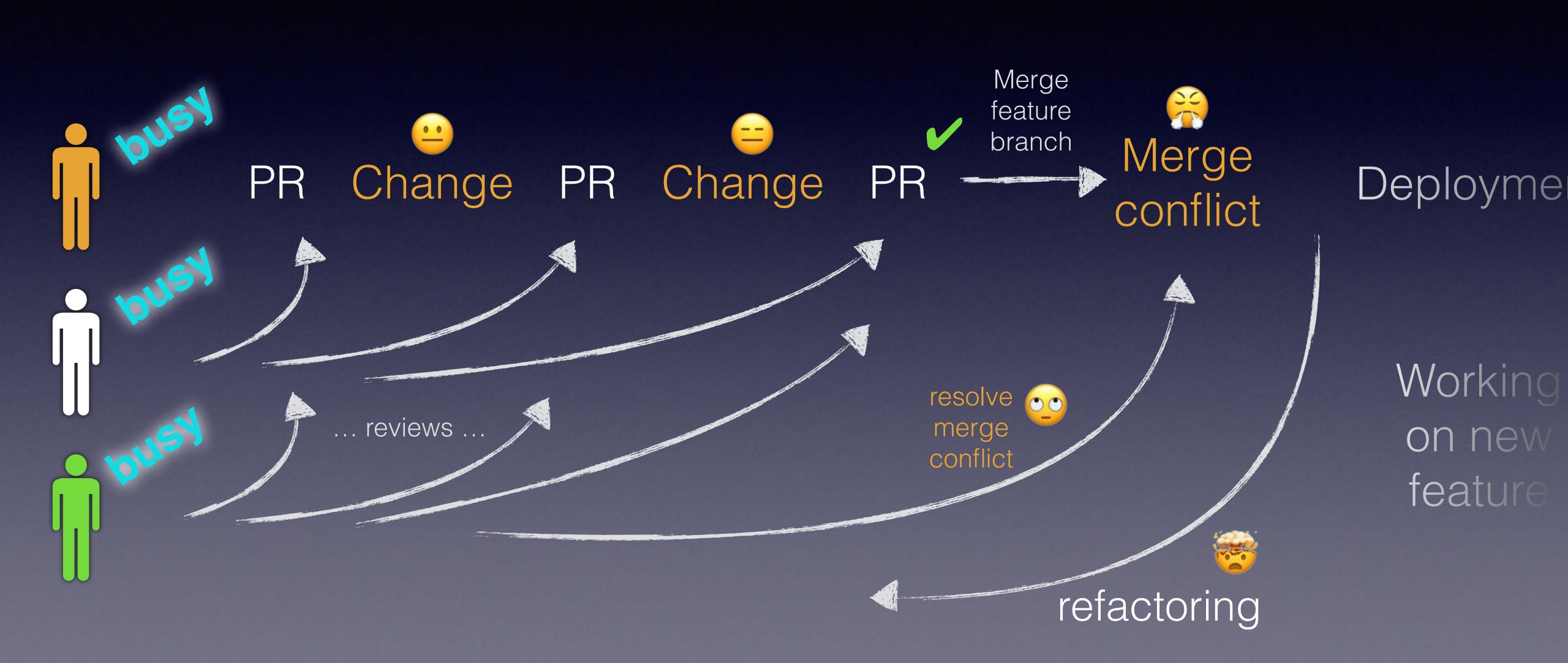
Well... what do you optimise for?

Deliver most important feature to our customers

Or

Keep developers as busy & working to capacity as possible

### Busy waiting



#### Flow

... of value delivered to our customers:

Maximize number of things done

Minimize waste



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



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



# But our speed!



"If you need to be fast, slow down"

Don't **be** slow. But avoid rush & haste. learn
from
each other

deliver value deliver outcome

build team & keep team together

# 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/

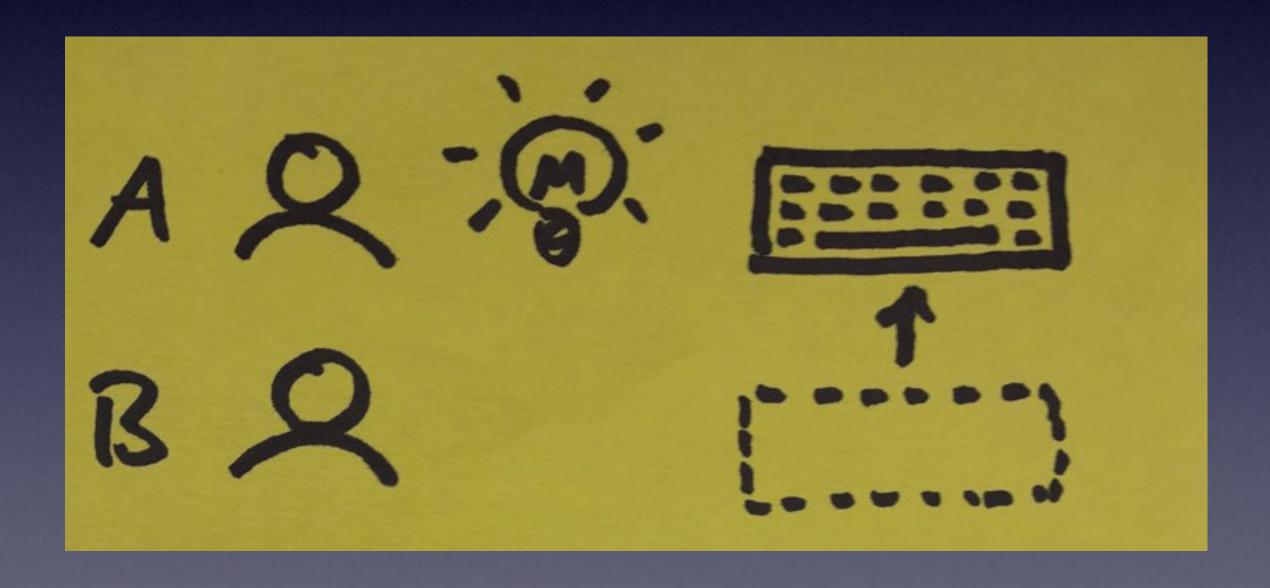
or smartphone timer app

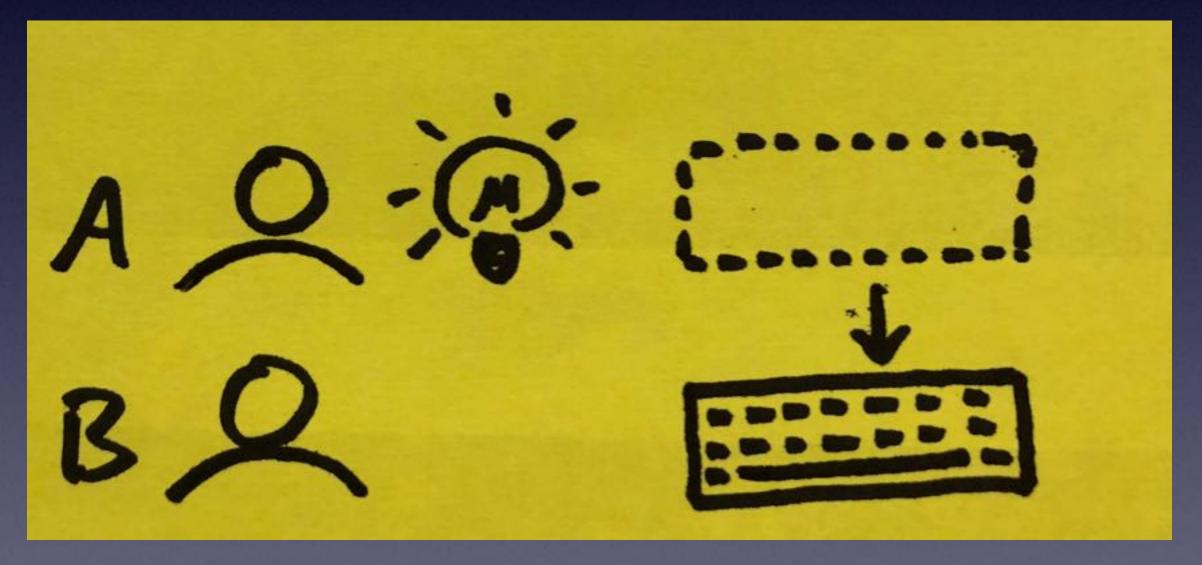


# Strong style navigation! default

"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)

Get the most important task done first.

Learn to speak the same (domain) language.

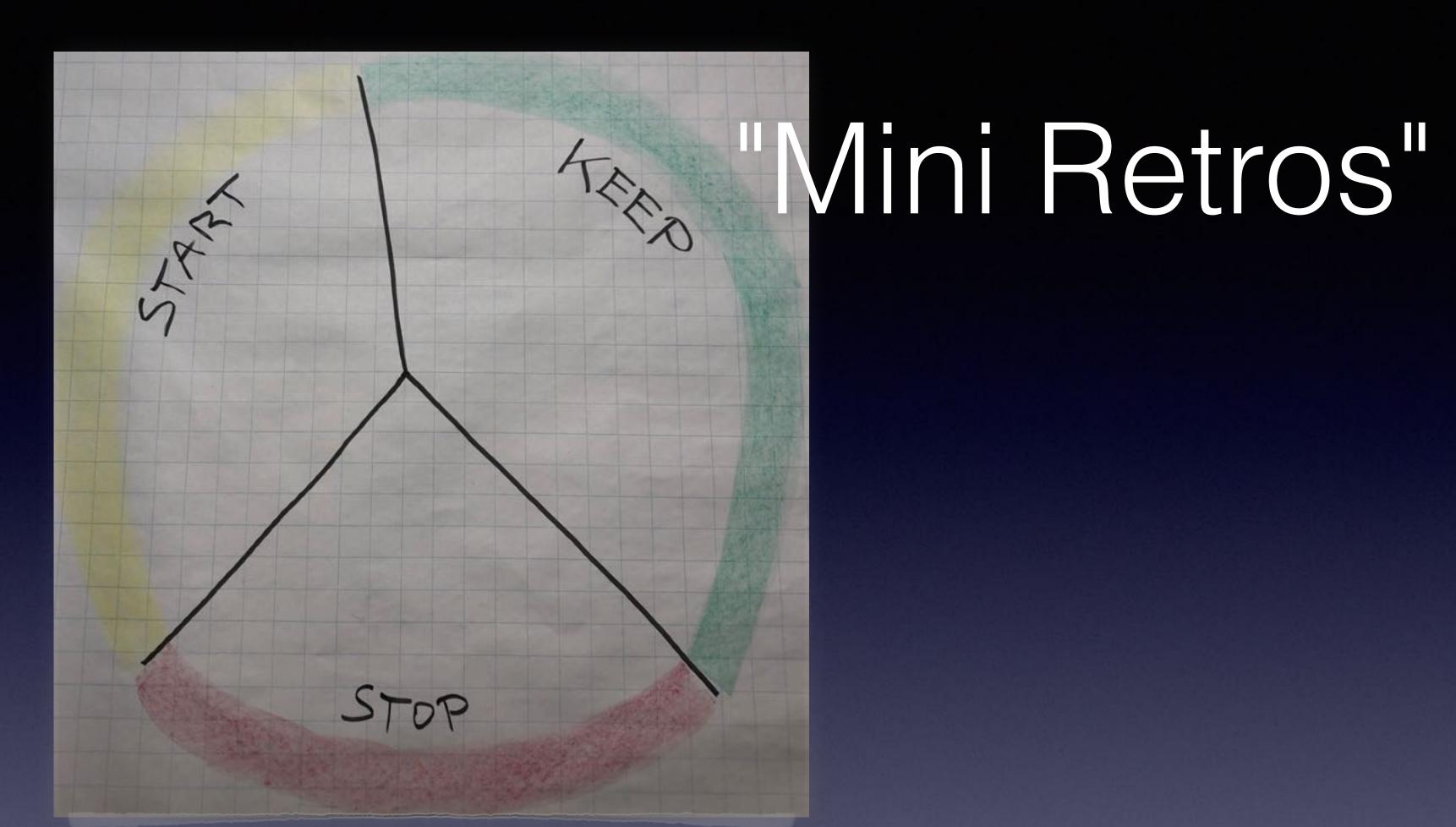


#### Mob session agenda

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



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

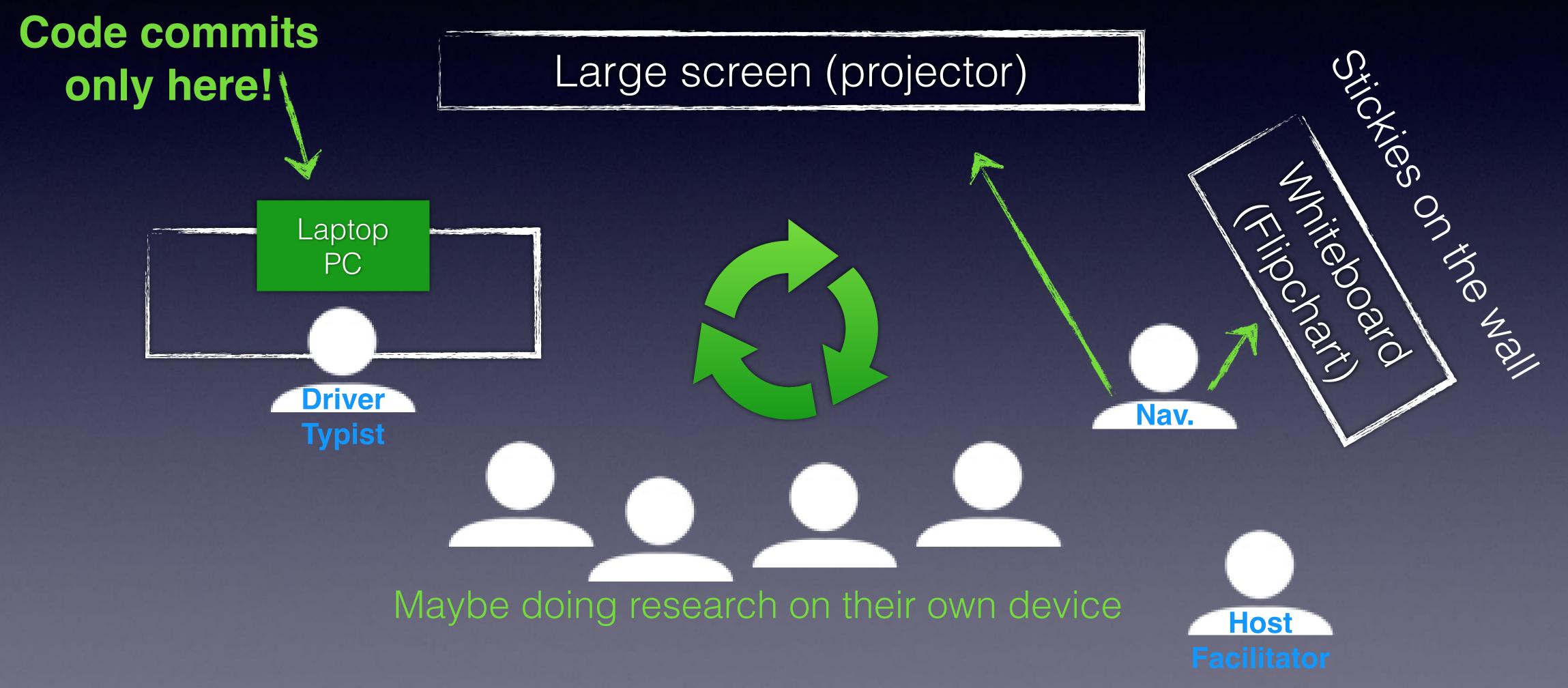


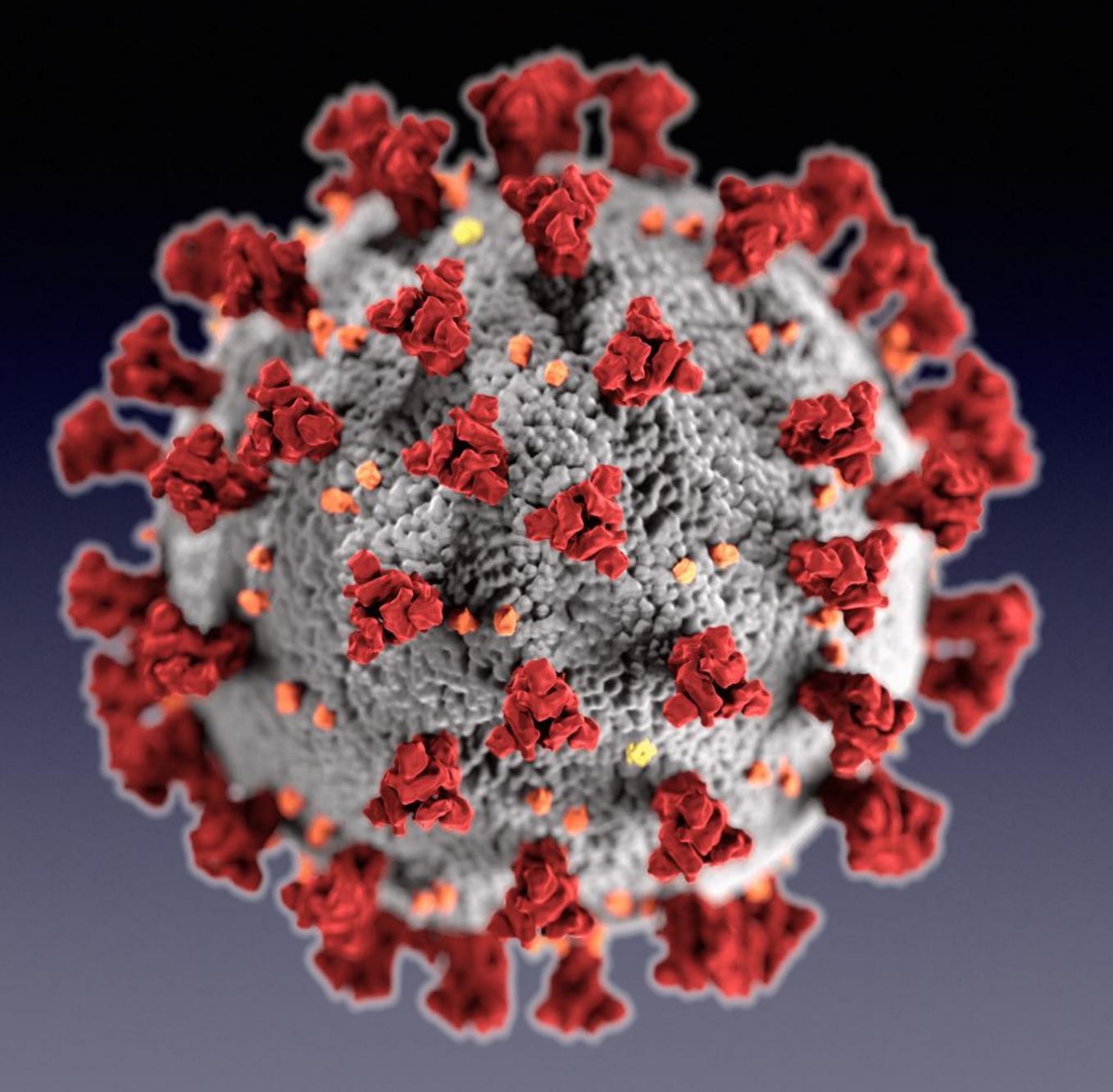
litle, Topic, Subject (Participants?) etc. **KEEP** START **STOP** Next steps for tomorrow / for next session:

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

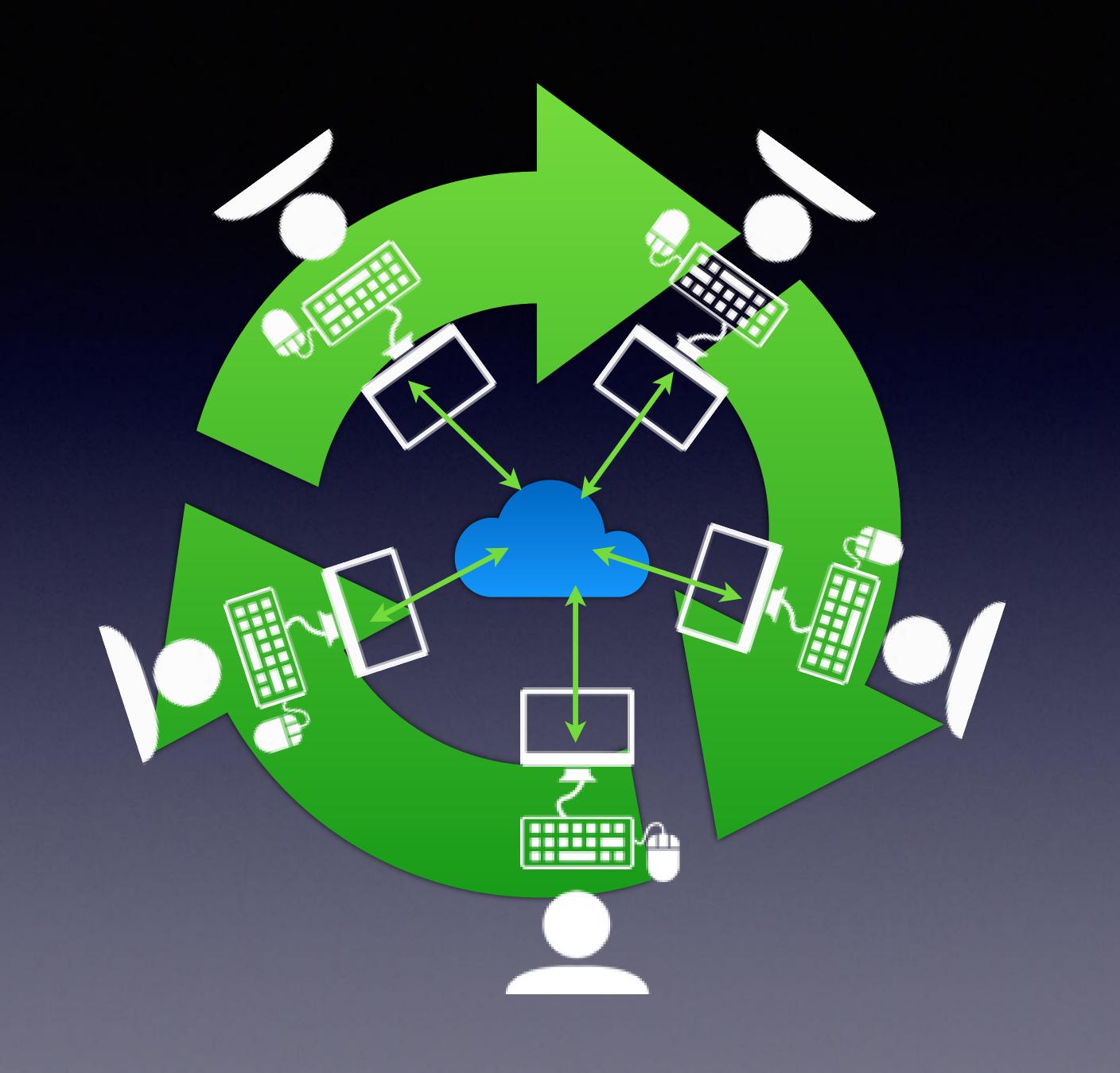
Write a concise "check-in" for next session (recap & next steps & ...)

### 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!

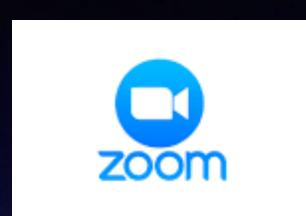
(GitLab) Remote Manifesto - Remote Mob Programming

"Asynchronous communication *over* synchronous communication."

"same time"

#### See each other

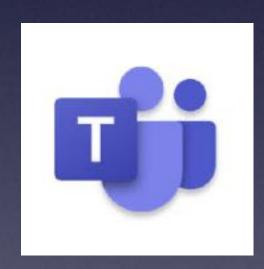






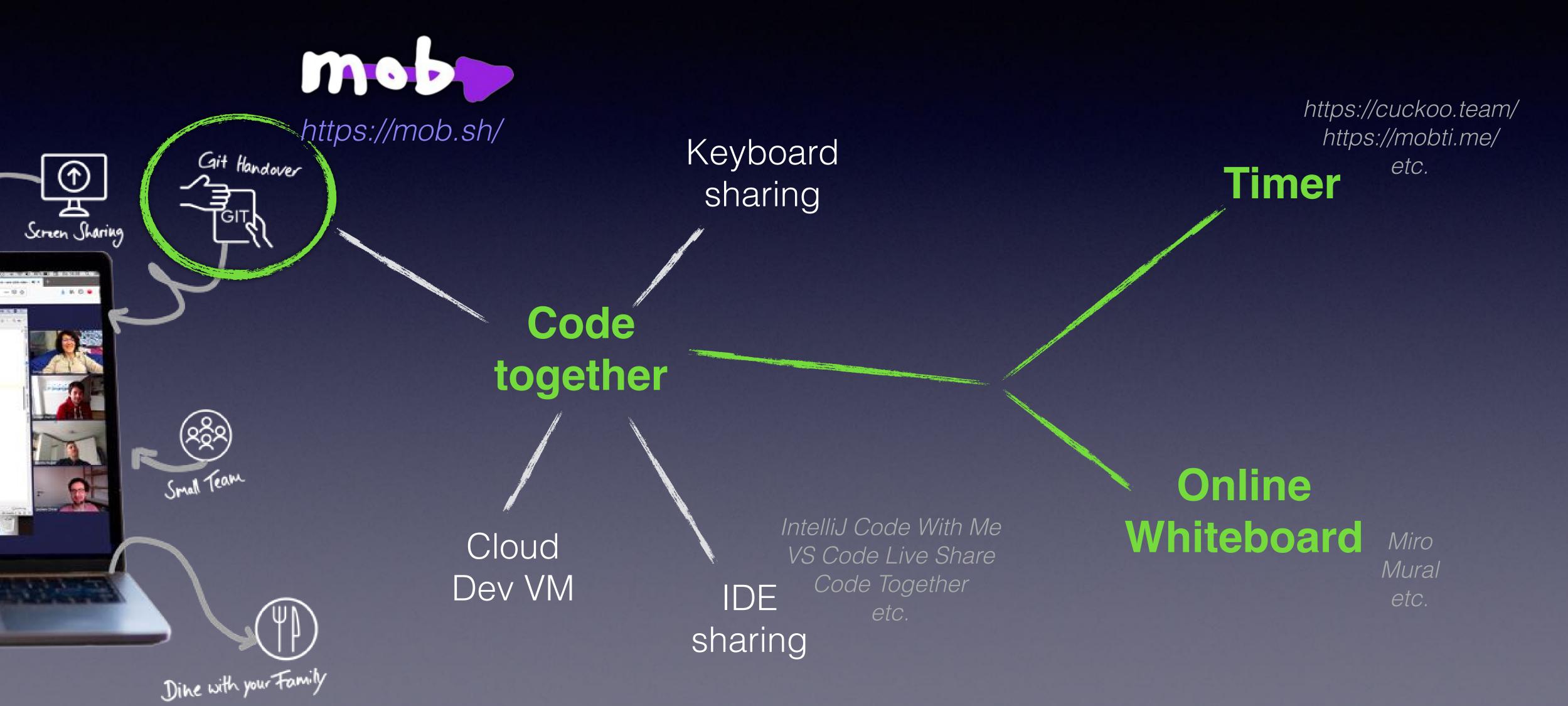




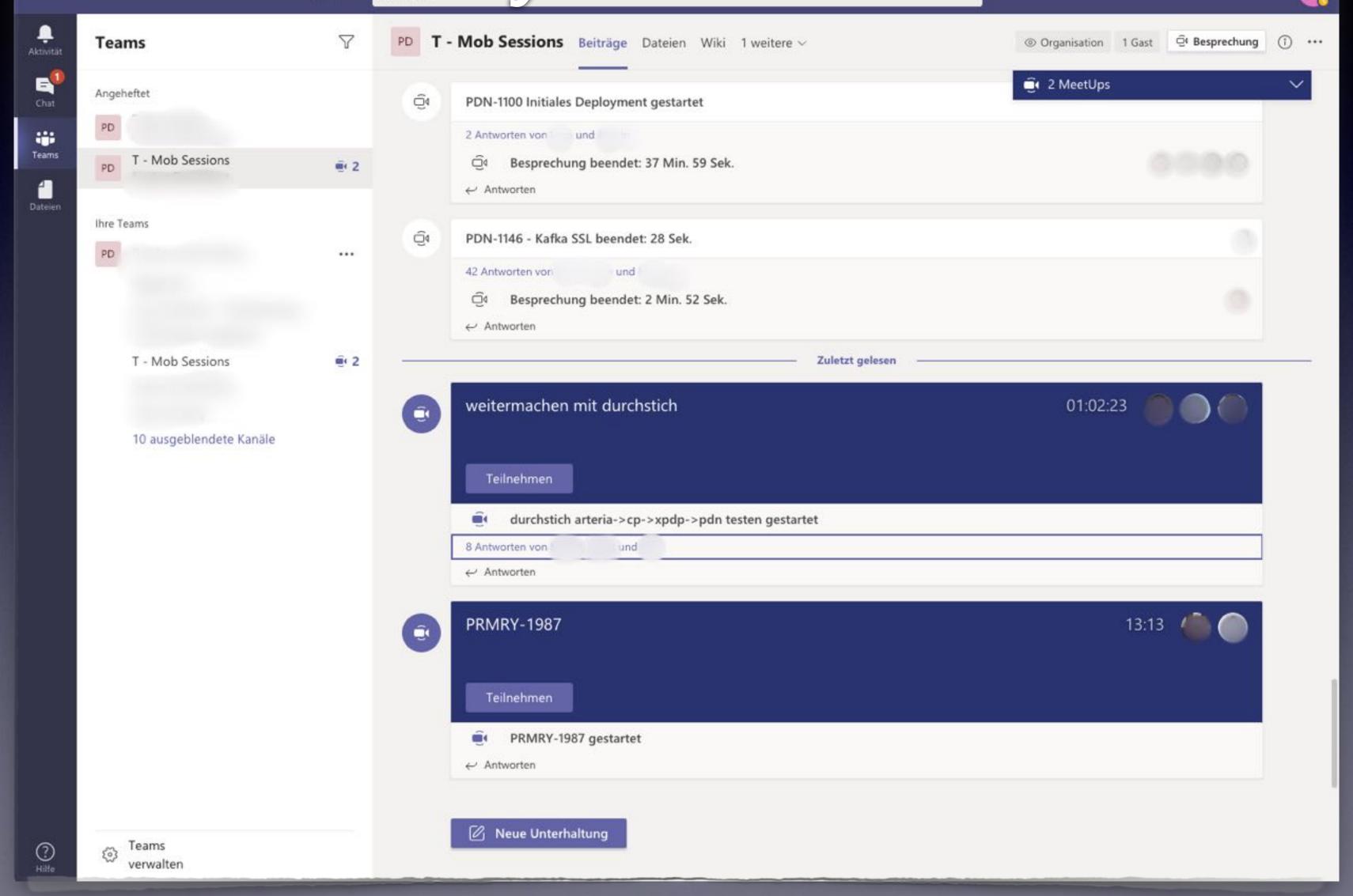


"remote everybody"

### Develop together



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

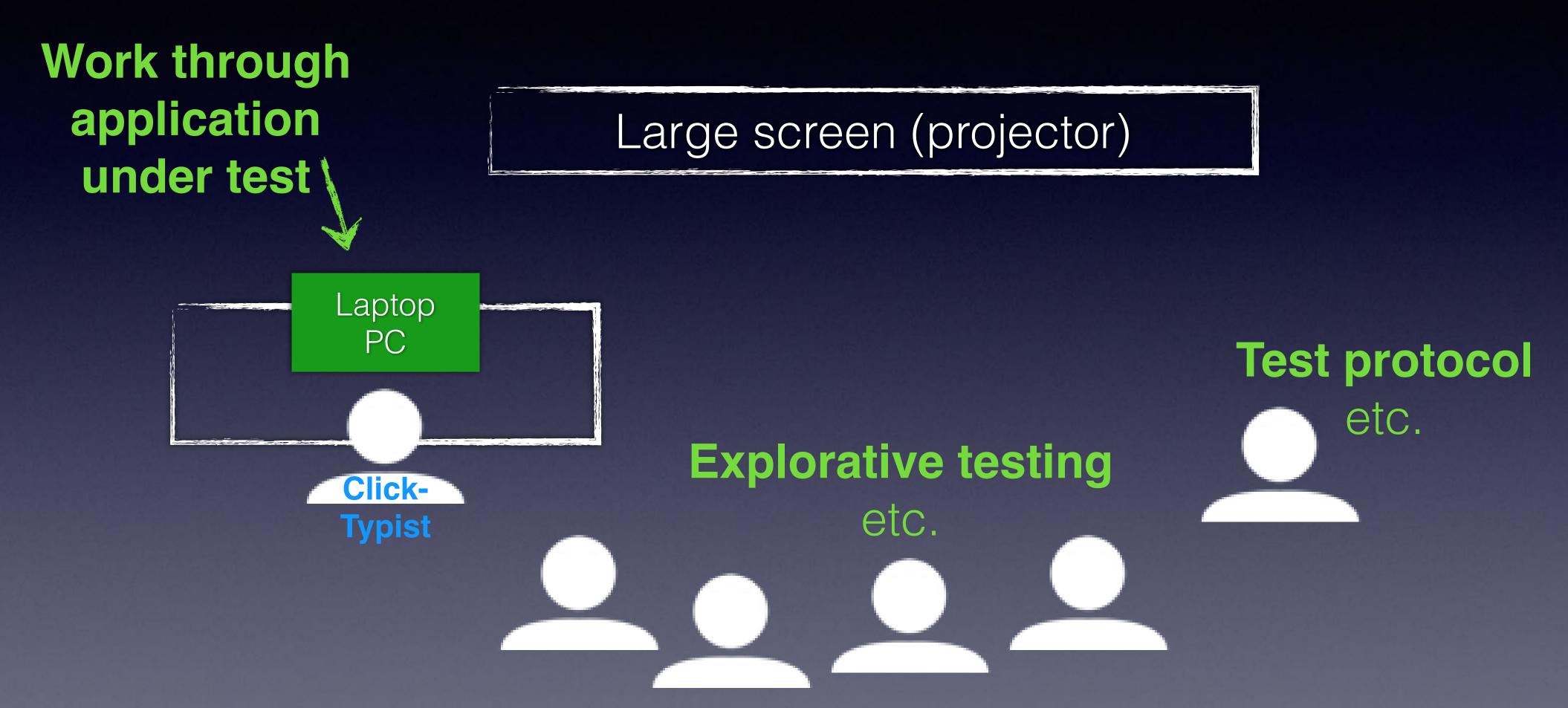
1:1

Too large gap in knowledge and skills?

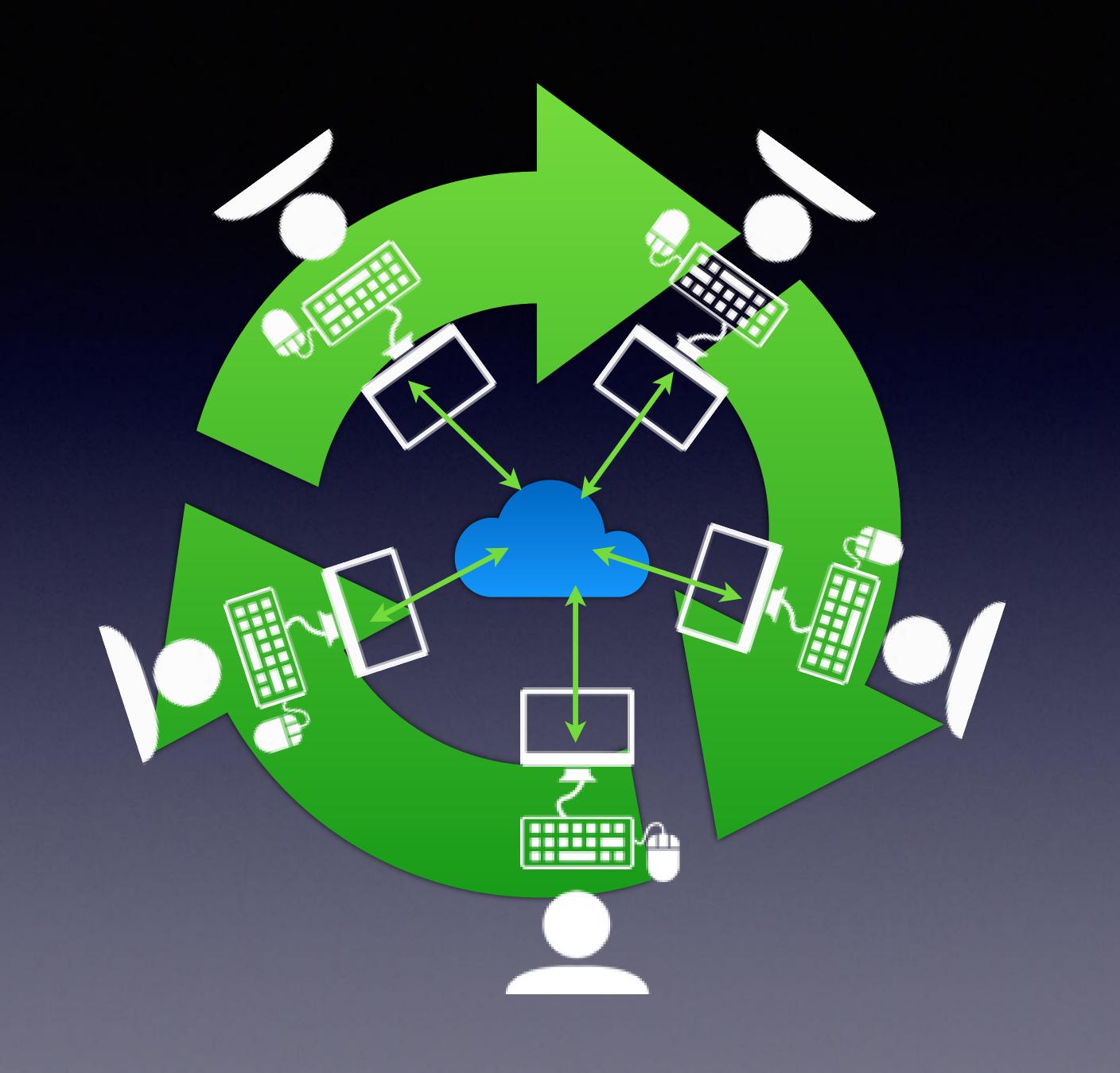
#### Mob programming – relax while being typist

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

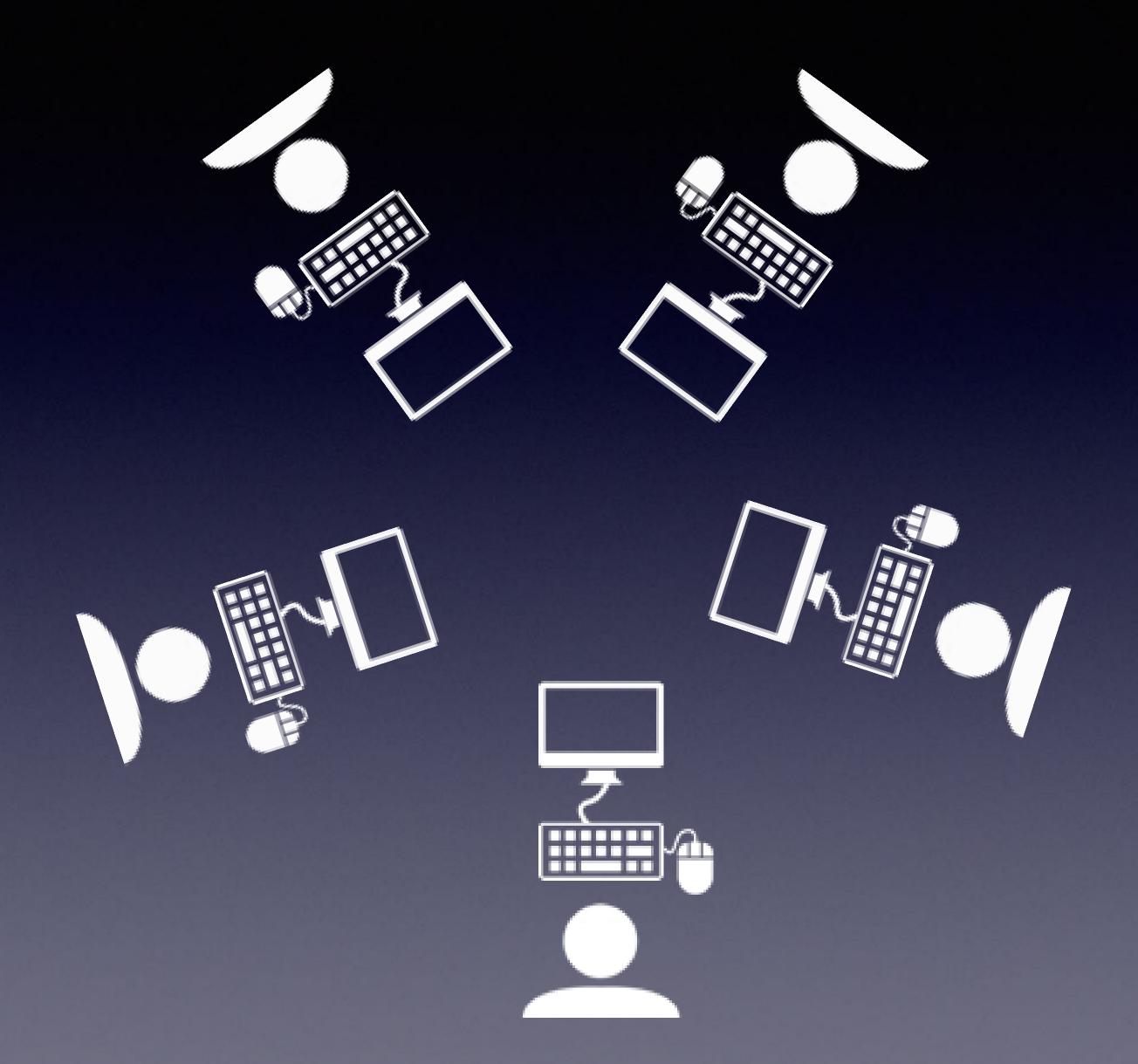
### Mob Testing



# Why does (Remote) Mob Programming work?

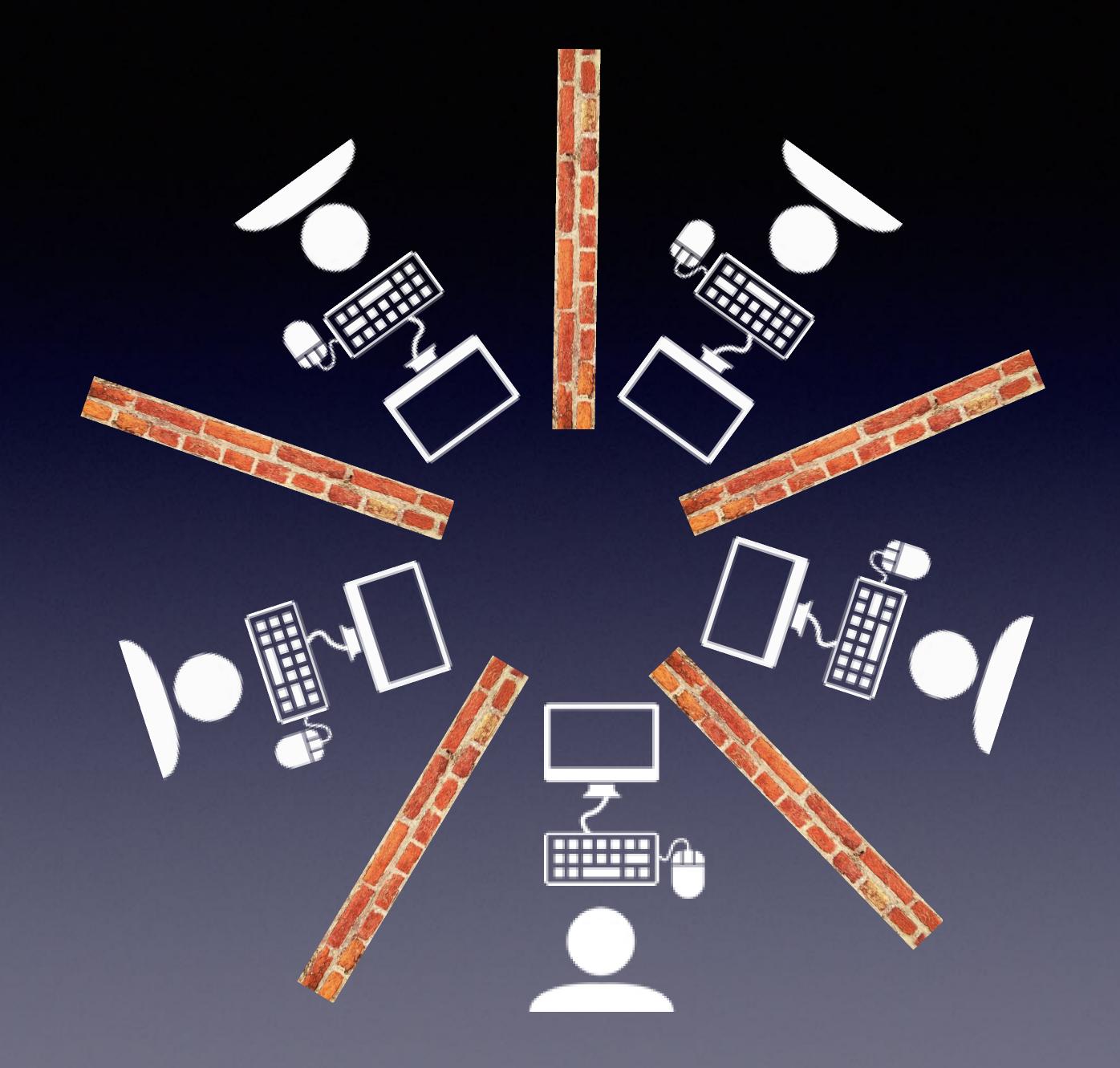


## In Your Office



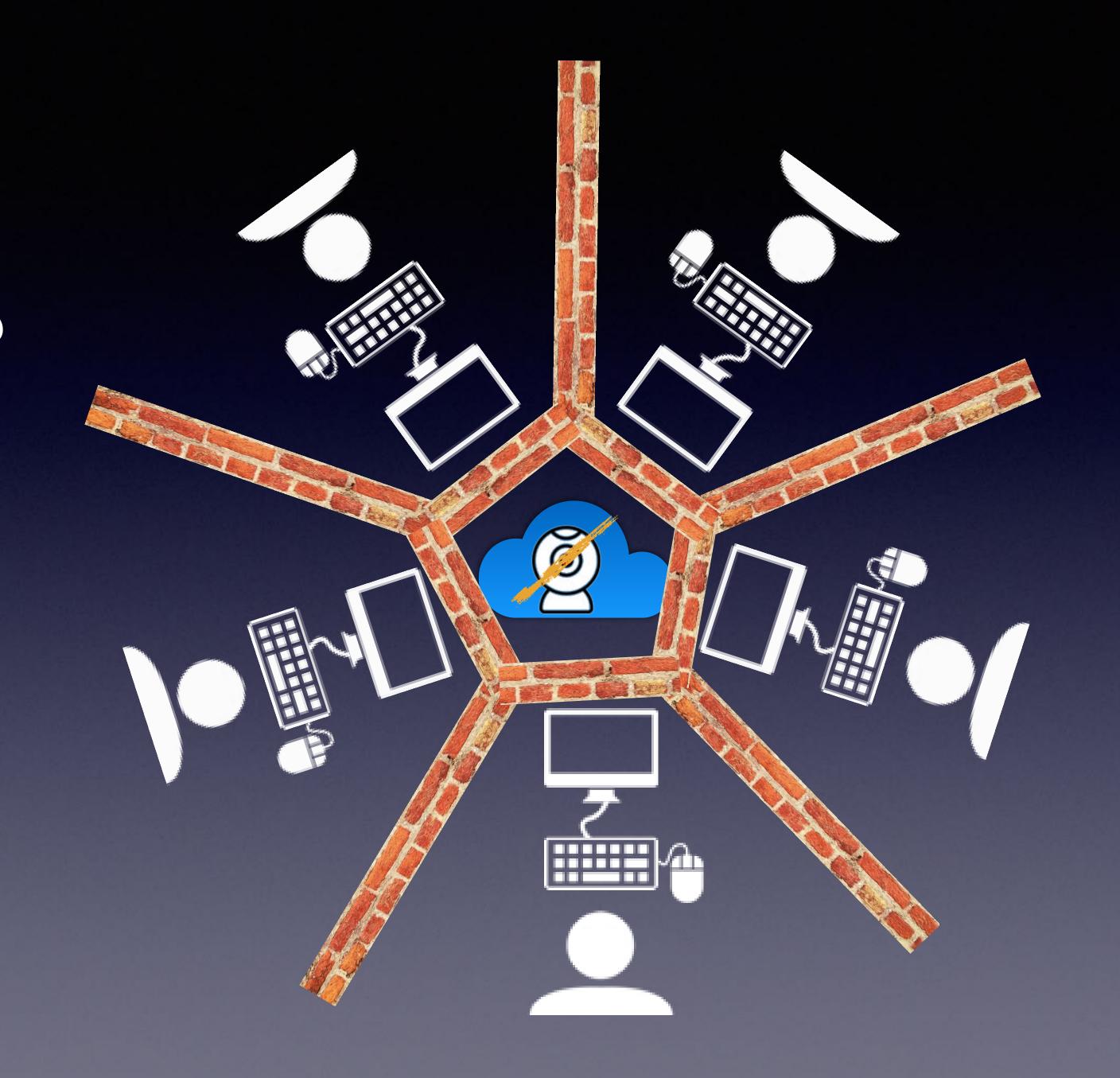
One team?

## In Your Office



"Teams" of 1?

# Home Office - worse?



duck away...

#### Remote? Not a Problem.

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

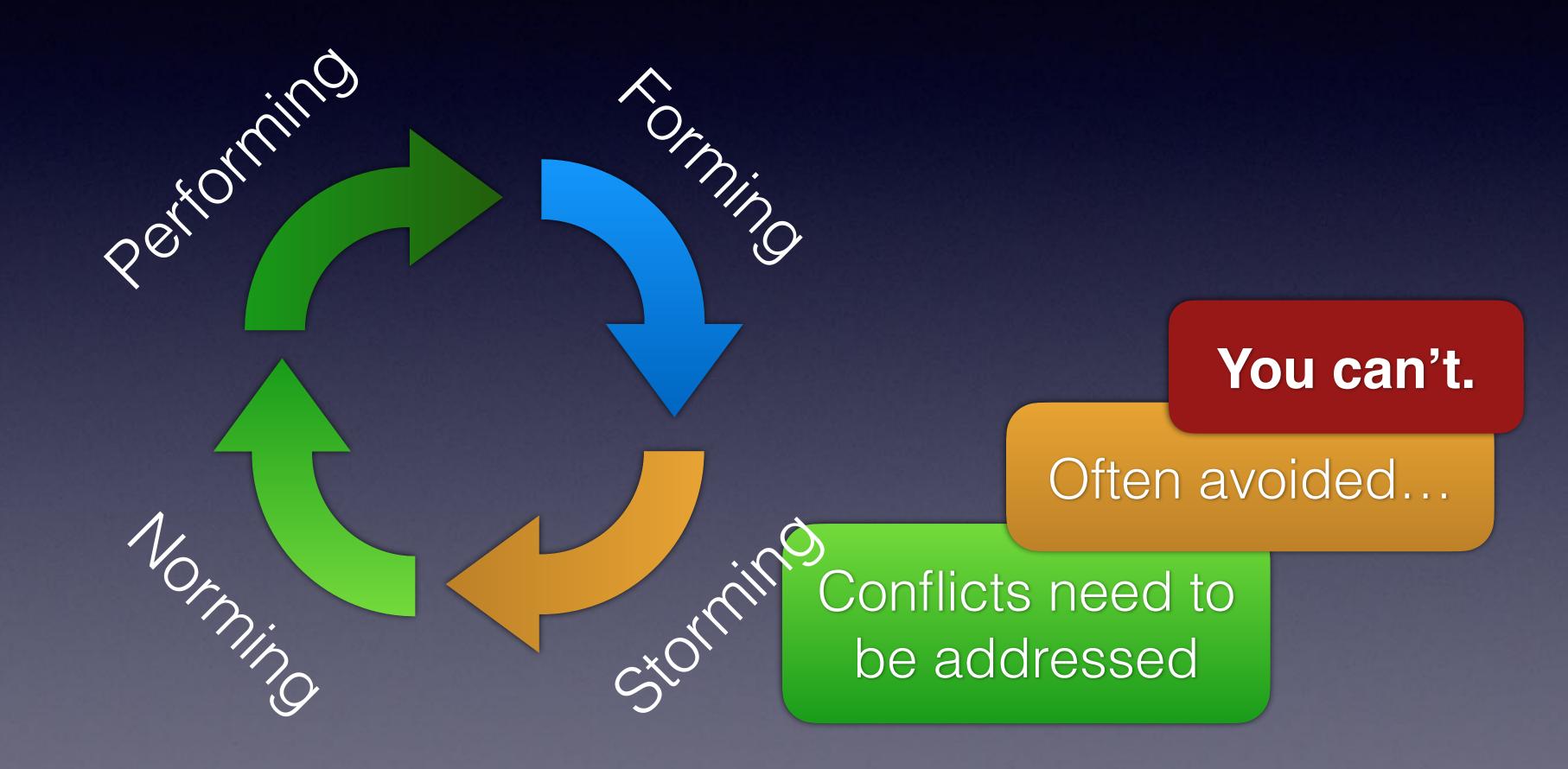
We need:

Common values

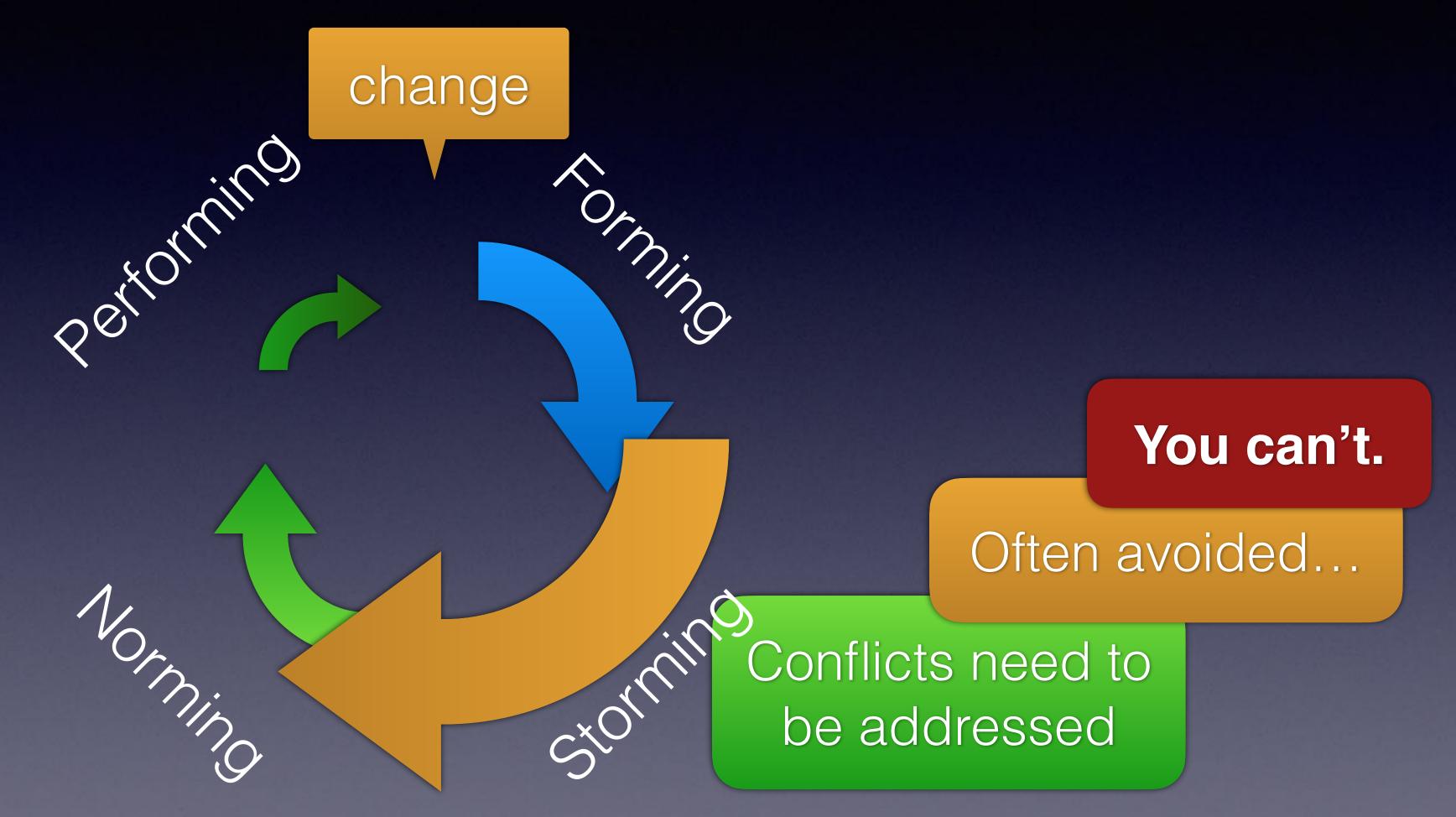
**Trust** 

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:

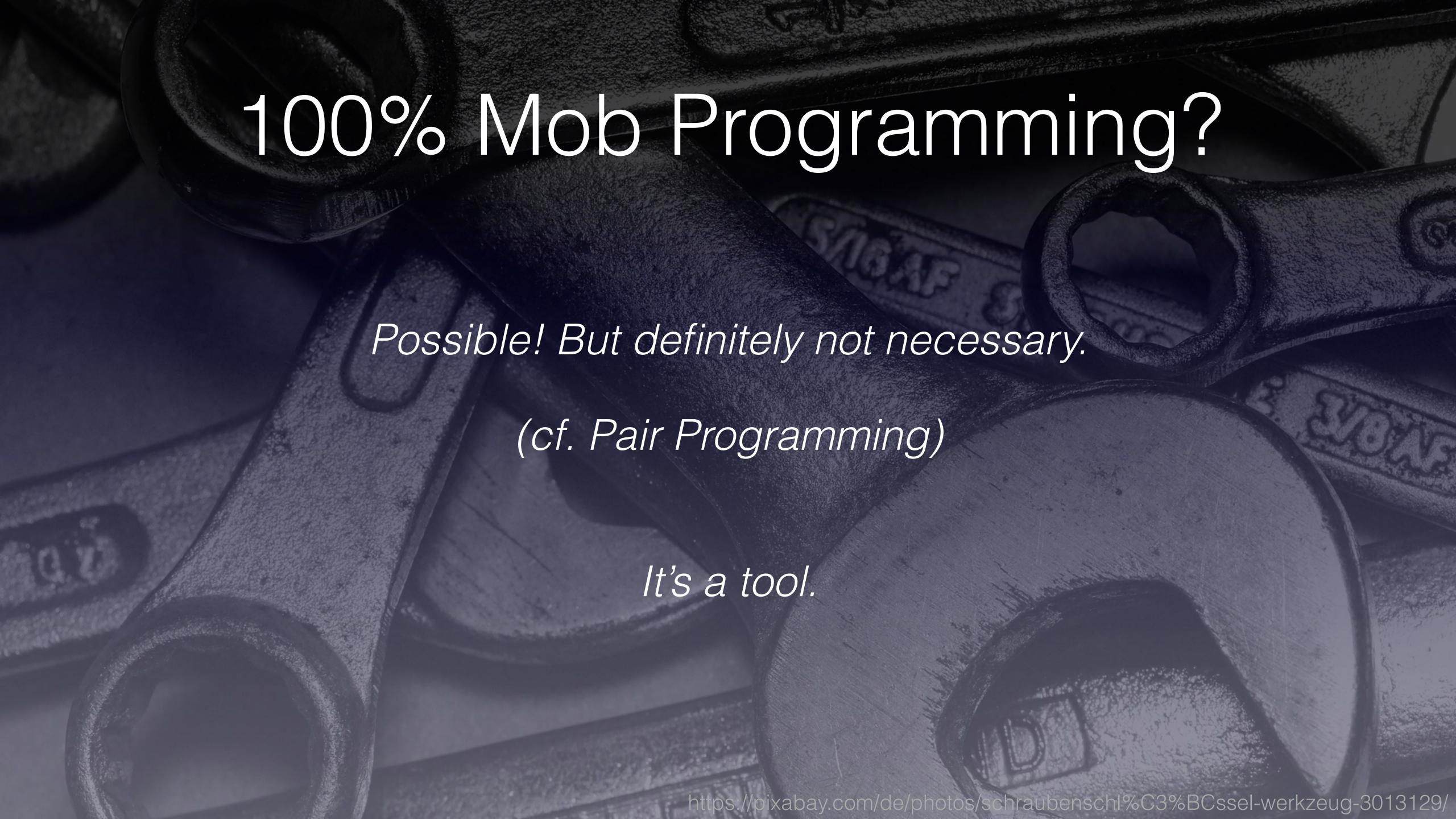
Implicit (tacit)
knowledge & skills
made visible

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



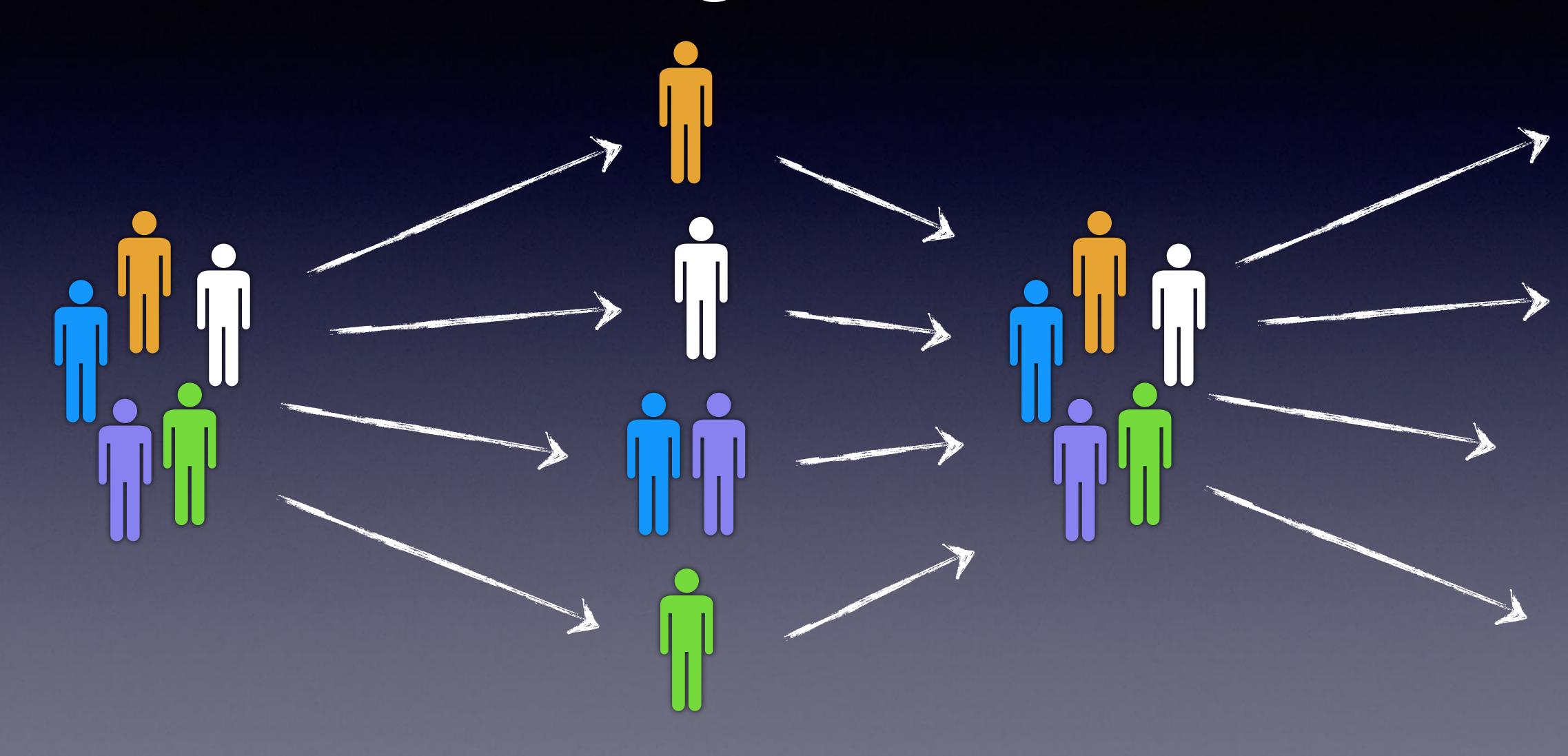
#### 100% for the most important task

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

#### Dynamic mob: come and go

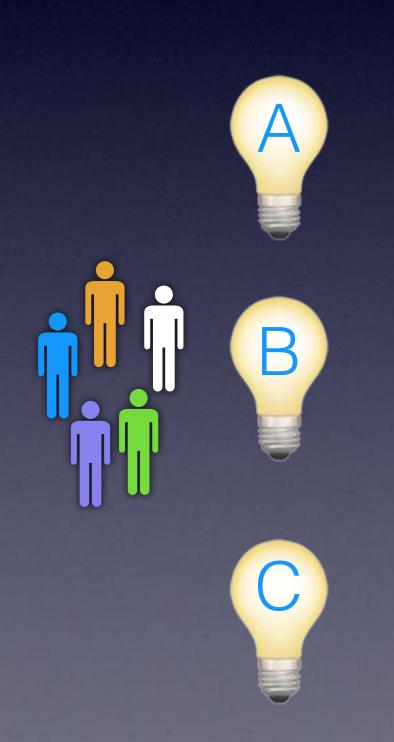


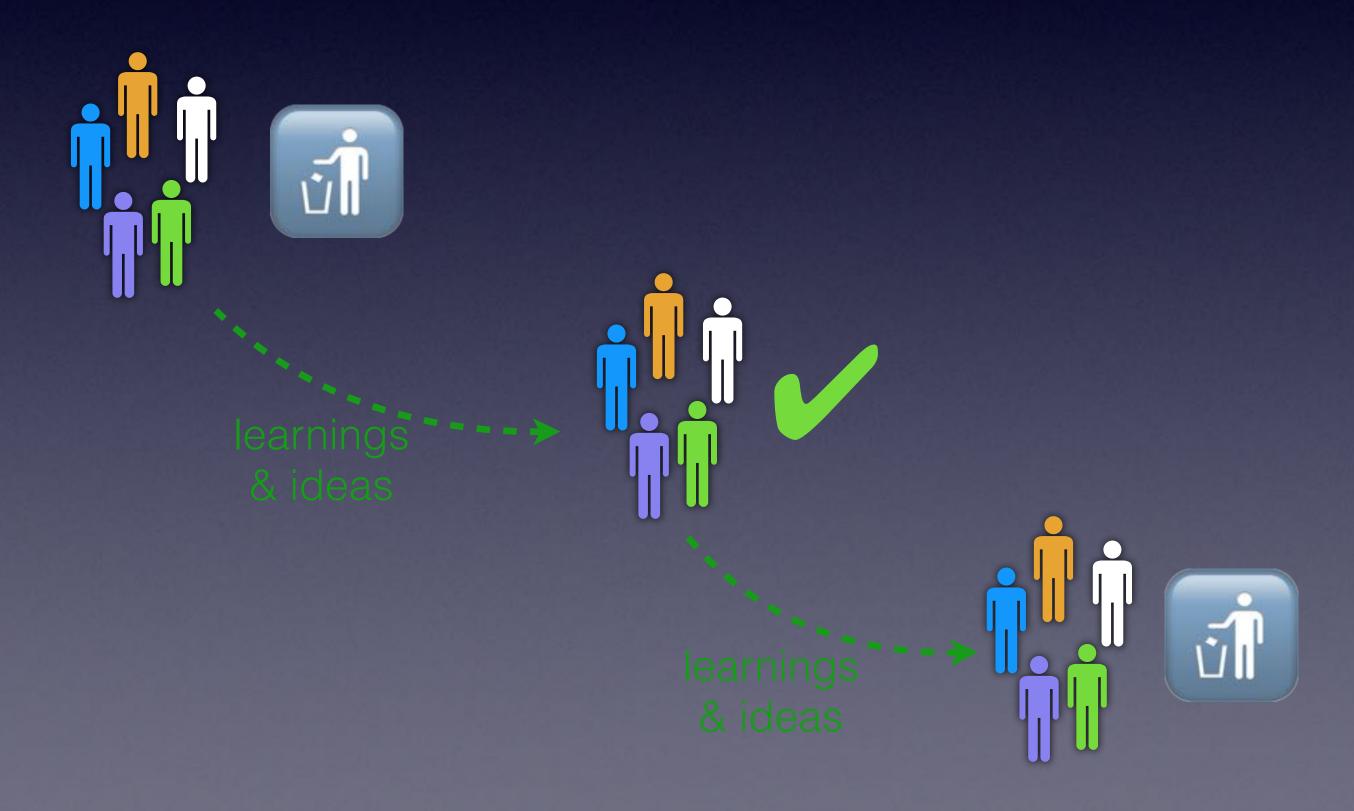
## Start together!

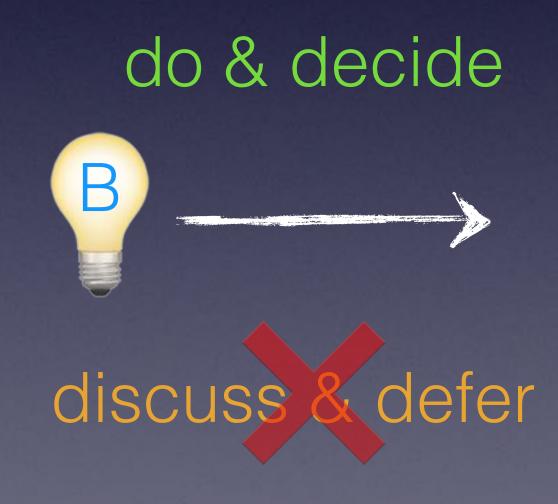


#### Team decisions

More than one idea? Try them all!







#### Different to meetings!

Mob Programming yields

working, tested, shared code.

Making us & our customers happy 49



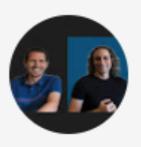












#### Mob Mentality Show

755 subscribers

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VIDEOS

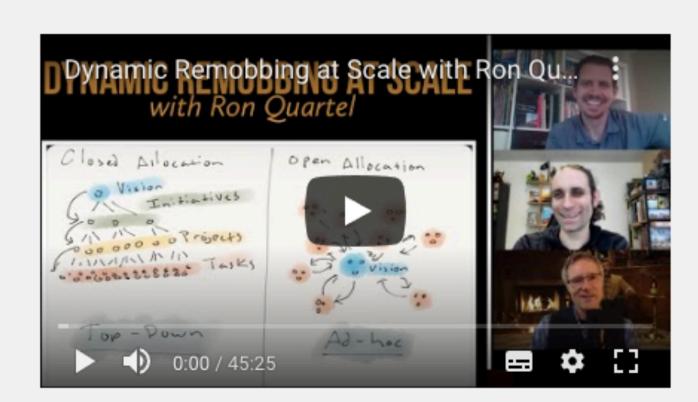
PLAYLISTS

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

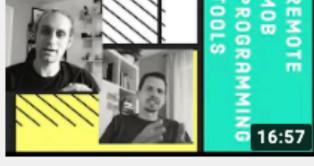


PLAY ALL



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

Mob Mentality Show



Remote Mob Programming Tools

Mob Mentality Show



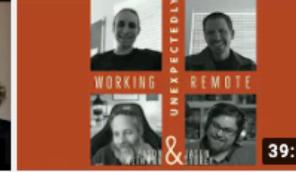
Remote Mob Programming Etiquette

Mob Mentality Show



Remote Collaborative Coding with Lynn Langit

Mob Mentality Show



**Unexpectedly Working** Remote with Jason Weiman...

Mob Mentality Show

A Remote UI/UX Mobbing Story with Damien Klinnert

UI/UX

Mobbing

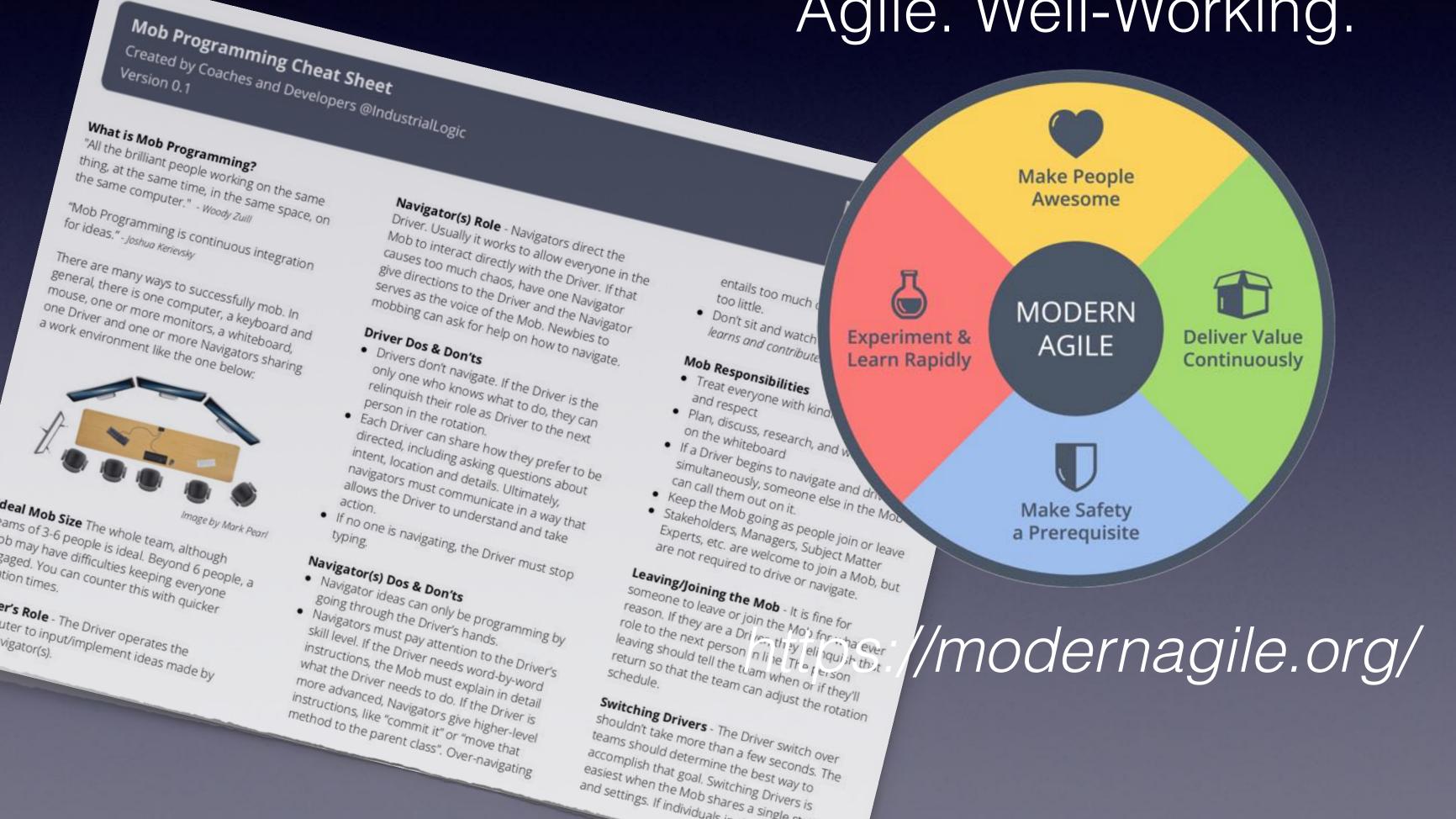
Story

27:22

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

#### Mob Programming

Pair Programming

Know-how transfer

Coaching

XP Remote

Modern Agile

Questions?



Taking breaks

Readability

Simplicity

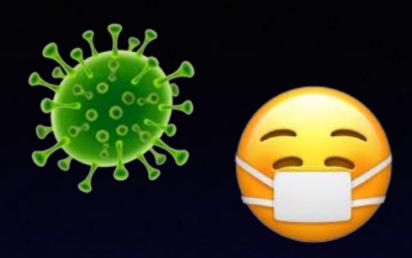
Strong Style navigation

TDD

Velocity

Speed

Collective Product Ownership







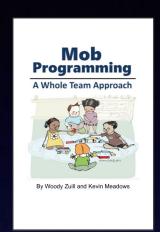


### Thank you!

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

thomas@muchsoft.com
@thmuch

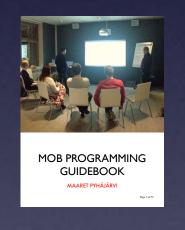
#### Further Reading



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

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

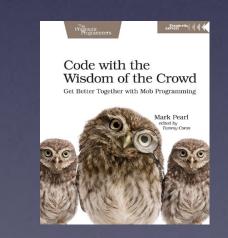






https://mobprogrammingguidebook.xyz/http://www.mobprogrammingguidebook.com/

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



https://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

#### 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