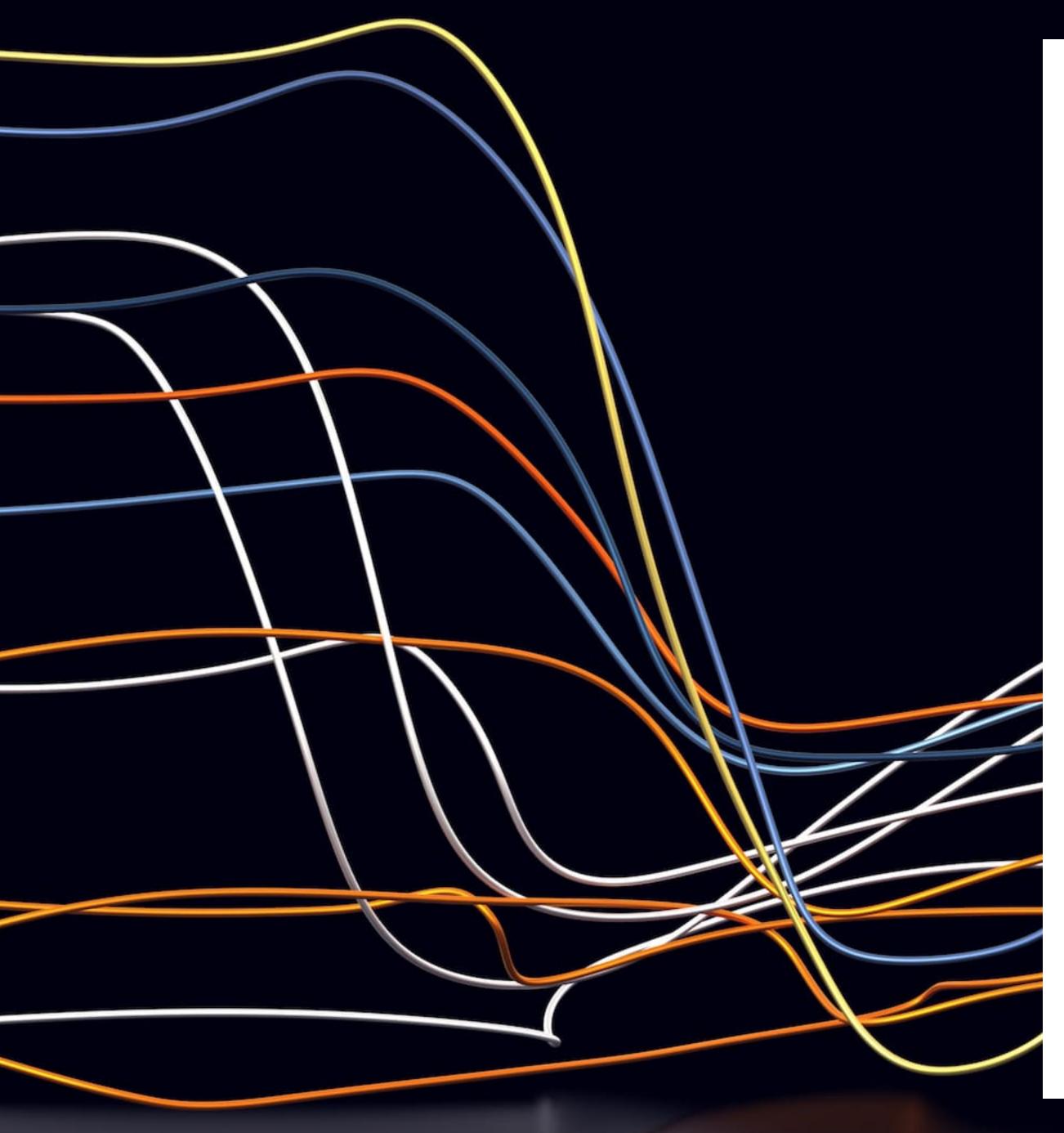


Remote Mob Programming

At home, but not alone







"Mob Programming has changed my life"

JOSHUA TÖPFER

Senior Consultant at INNOQ

Joshua has been working full-time in remote mob for more than 3 years. He is the maintainer of mob.sh and coaches teams in remote mob programming.



Who has already done pair programming?



Who has already done mob programming?



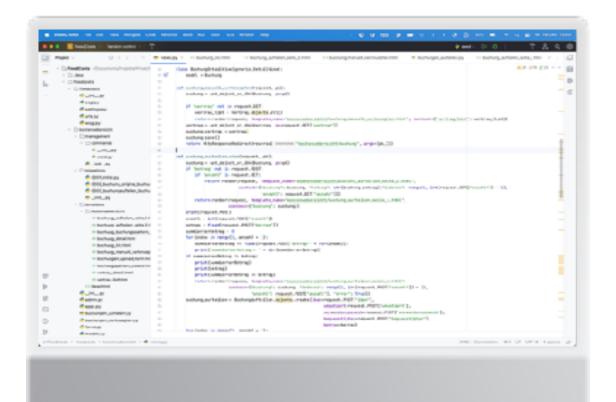
Who has already done remote mob programming?



What is Mob Programming?

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







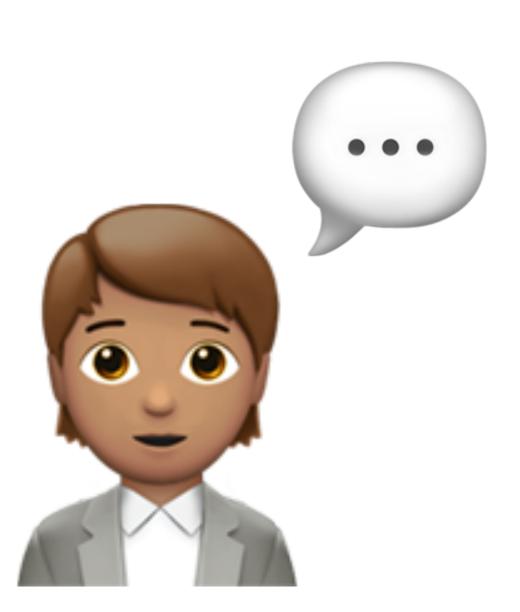


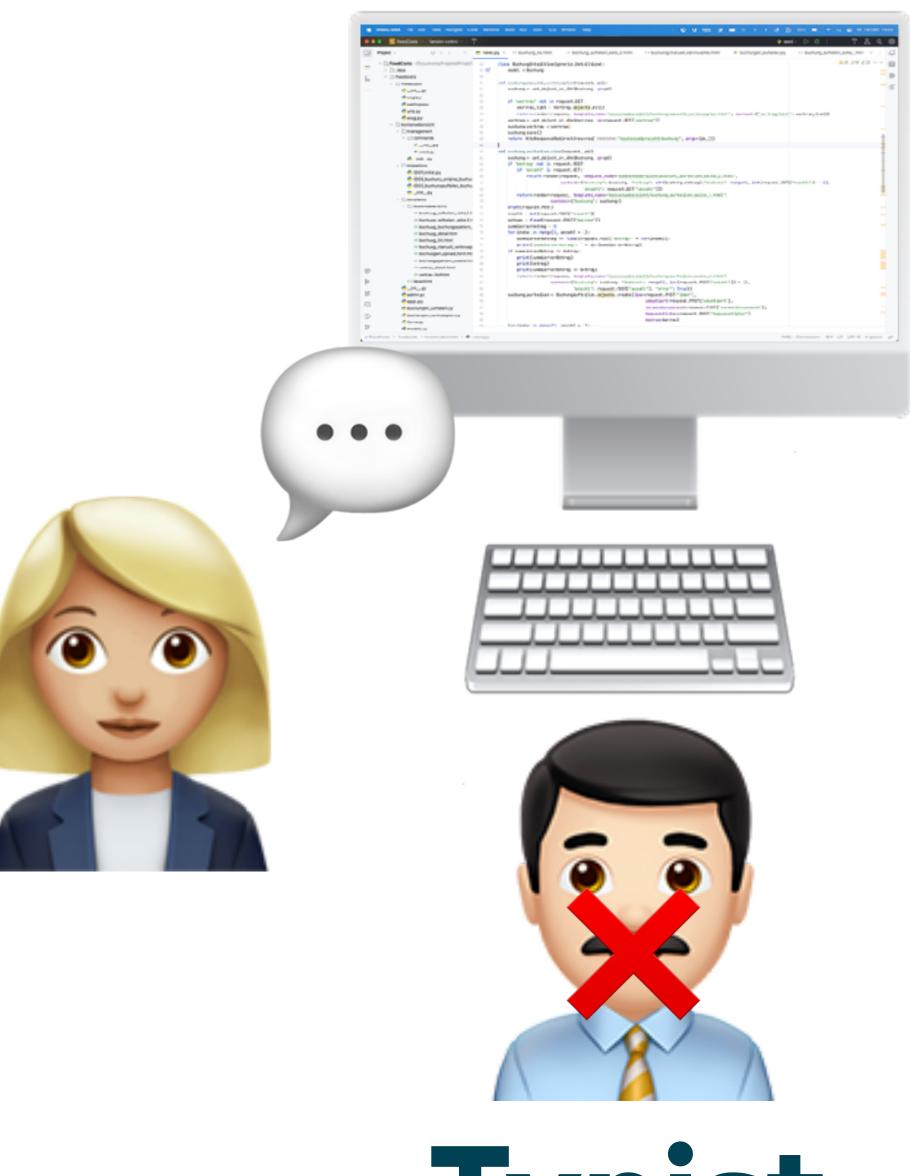










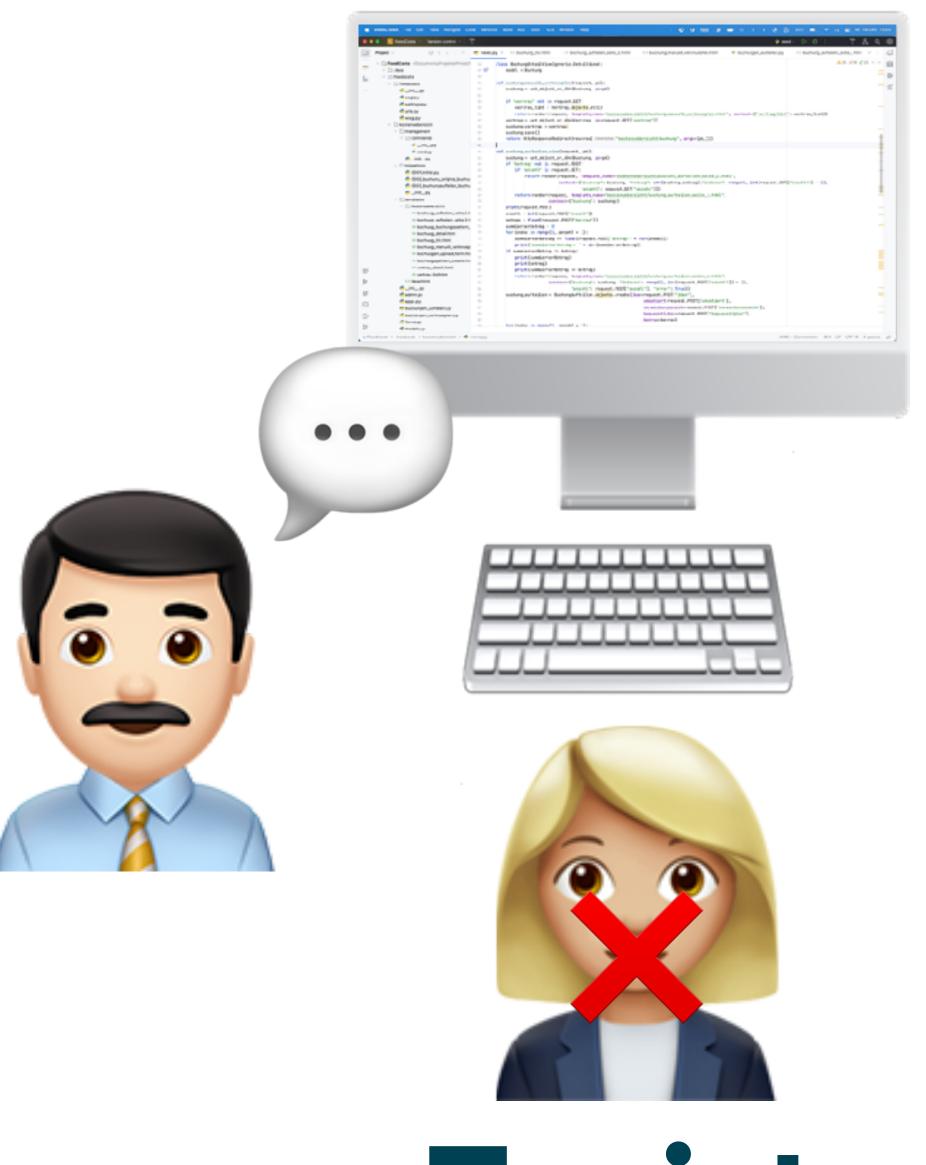








Typist









What is Remote Mob Programming?

Virtual team room

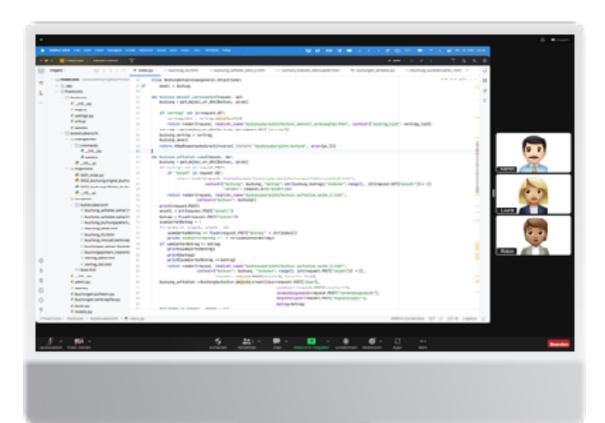
- Fixed location
- Everyone sees and hears each other
- Everyone sees the same screen

Pass on keyboard

Whiteboard

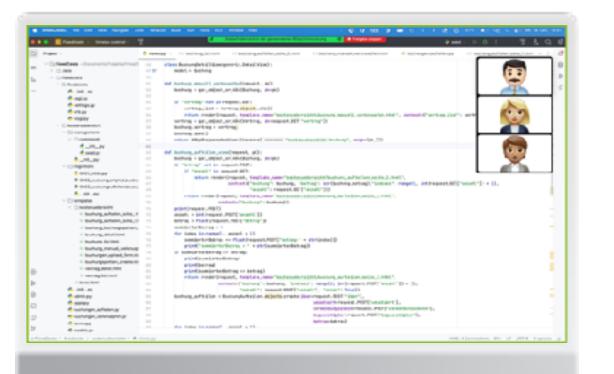








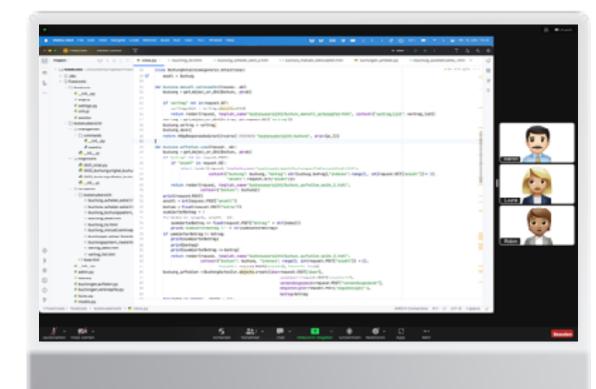








Typist







```
testrepo joshuatopfer@Laptop-von-Joshua - ..NNOQ/testrepo - -zsh - 76x12

→ testrepo git: (main) mob start
git fetch origin --prune
git merge FETCH_HEAD --ff-only

> starting new session from origin/main
git checkout -B mob/main origin/main
git commit --allow-empty -m mob start [ci-skip] [ci skip] [skip ci]
git push --no-verify --set-upstream origin mob/main:mob/main

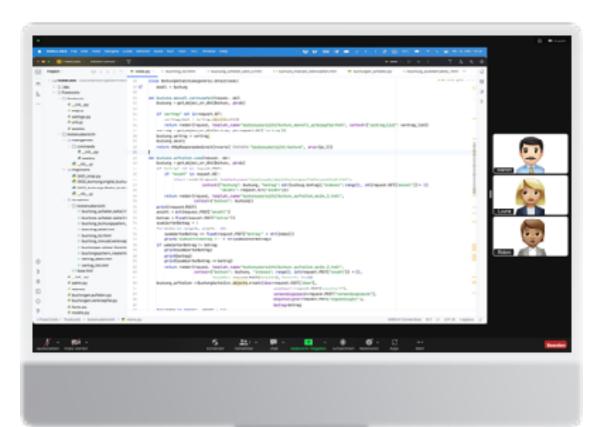
> you are on wip branch 'mob/main' (base branch 'main')

5b5ca6f 2 seconds ago <Joshua Töpfer>

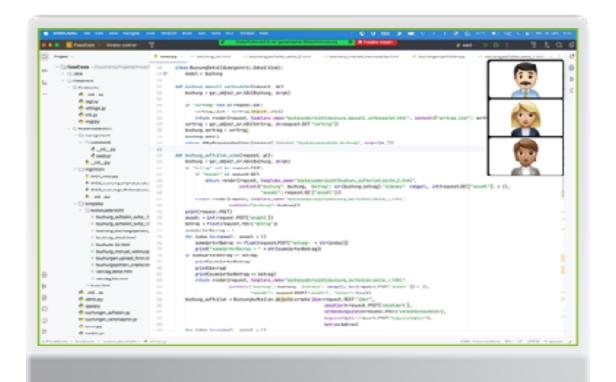
> PUT https://timer.mob.sh/test-room {"timer":1,"user":"Joshua Töpfer"}

> It's now 17:42. 1 min timer ends at approx. 17:43. Happy collaborating! :)

→ testrepo git:(mob/main)
```



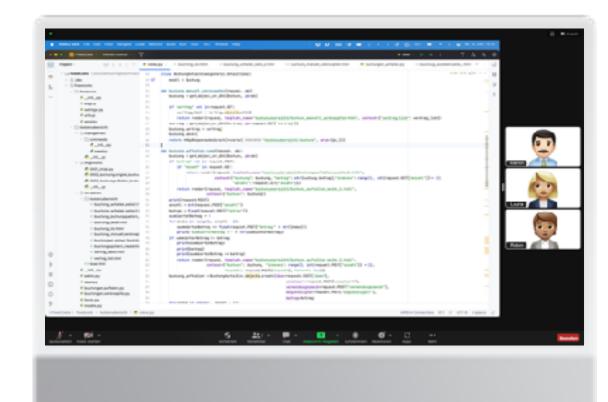




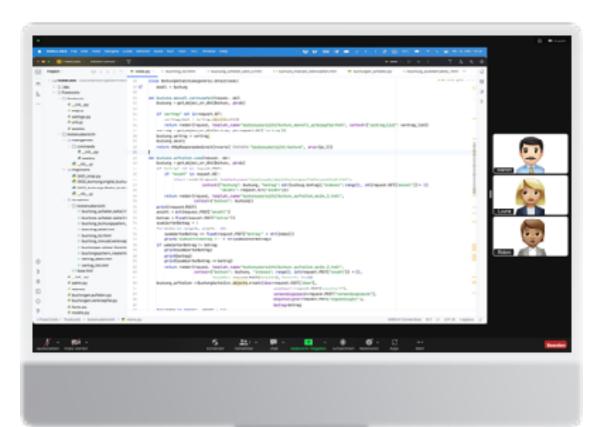




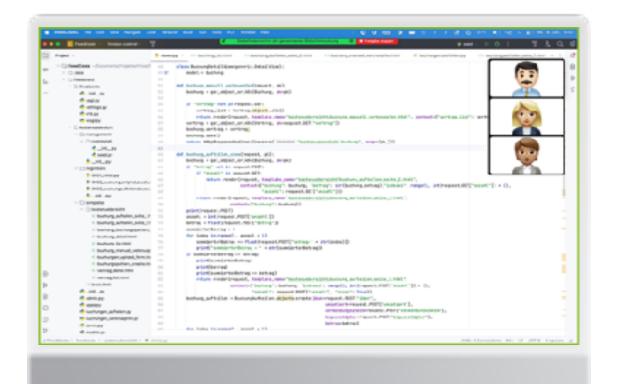
Typist

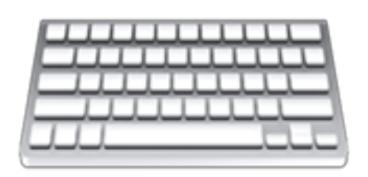








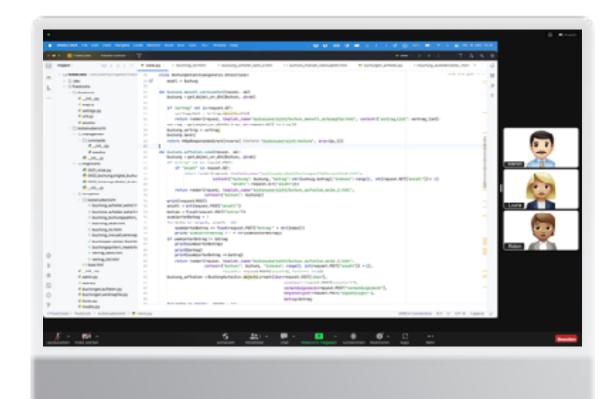








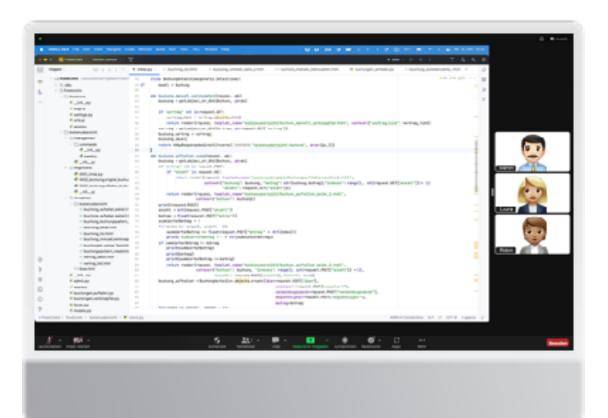
Typist





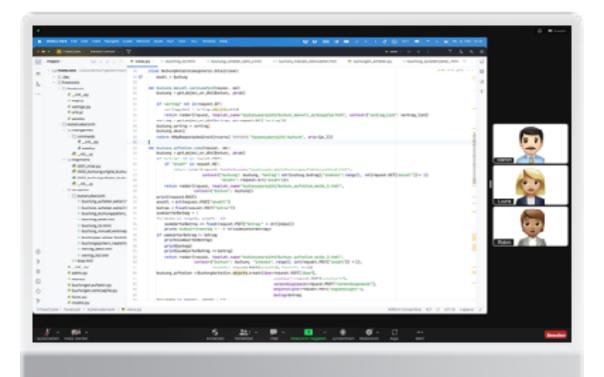
```
testrepo — joshuatopfer@Laptop-von-Joshua — ..NNOQ/testrepo — -zsh — 51×11

→ testrepo git:(mob/main) × mob next
  git add --all
  git commit --message mob next [ci-skip] [ci skip]
 [skip ci]
  lastFile:text.txt --no-verify
    text.txt | 0
    1 file changed, 0 insertions(+), 0 deletions(-)
    1465761cbc5963998e18a2ac61412ddc6f309eff
  git push --no-verify origin mob/main
→ testrepo git:(mob/main)
```



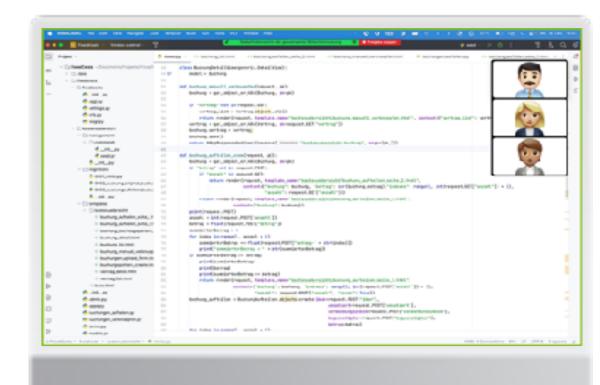
















Typist

```
testrepo joshuatopfer@Laptop-von-Joshua - ..NNOQ/testrepo - -zsh - 76×11

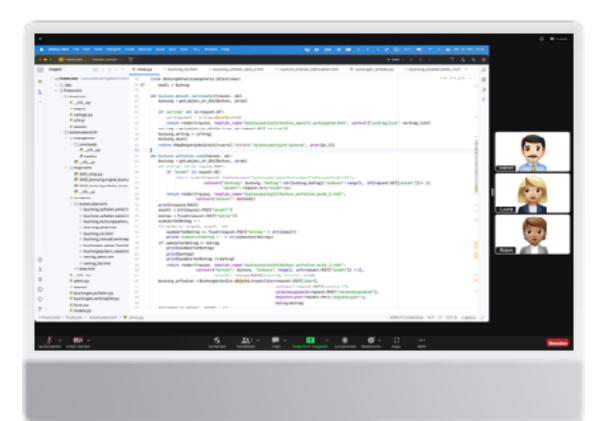
testrepo git: (mob/main) mob start
git fetch origin --prune

joining existing session from origin/mob/main
git checkout -B mob/main origin/mob/main
git branch --set-upstream-to=origin/mob/main mob/main

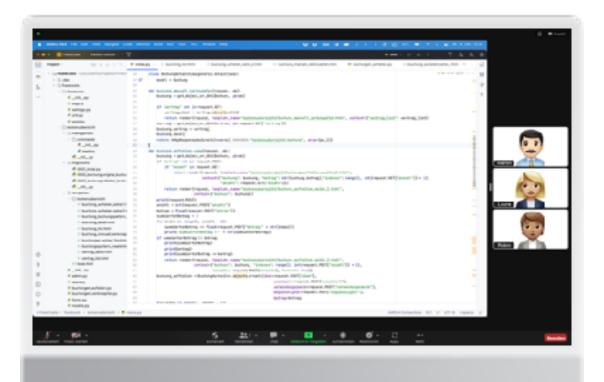
you are on wip branch 'mob/main' (base branch 'main')

5b5ca6f 8 minutes ago <Joshua Töpfer>
31d2d5e 21 seconds ago <Joshua Töpfer>
> PUT https://timer.mob.sh/test-room {"timer":1, "user":"Joshua Töpfer"}
> It's now 17:50. 1 min timer ends at approx. 17:51. Happy collaborating! :)

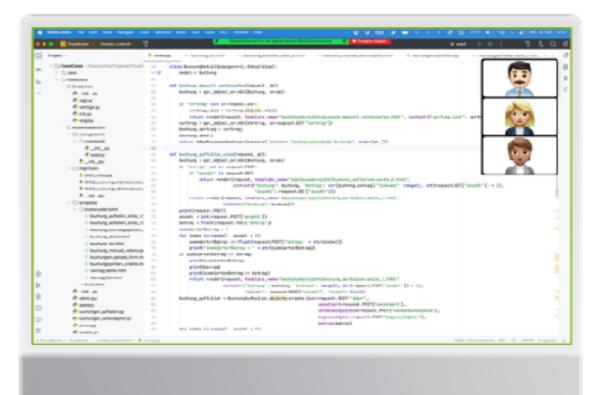
testrepo git: (mob/main)
```















Typist



```
testrepo — joshuatopfer@Laptop-von-Joshua — ..NNOQ/testrepo — -zsh — 76×16
→ testrepo git:(mob/main) mob done
  git fetch origin --prune
  git push --no-verify origin mob/main
  git checkout main
  git merge origin/main --ff-only
  git merge --squash --ff mob/main
  git branch -D mob/main
  git push --no-verify origin --delete mob/main
    tesfile1.txt | 1 +
    testfile2.txt | 0
    2 files changed, 1 insertion(+)
To finish, use
  git commit
  testrepo git:(main) ×
```

Market State of the state of th

Time-to-market instead of resource efficiency

Constant momentum

Focus on the most important task

Reduce context switching & waiting times

No code reviews



Meetings

Attending as whole team

Eliminate unnecessary meetings

If not possible just one team member attends

Regular meetings like daily scrum are not necessary anymore



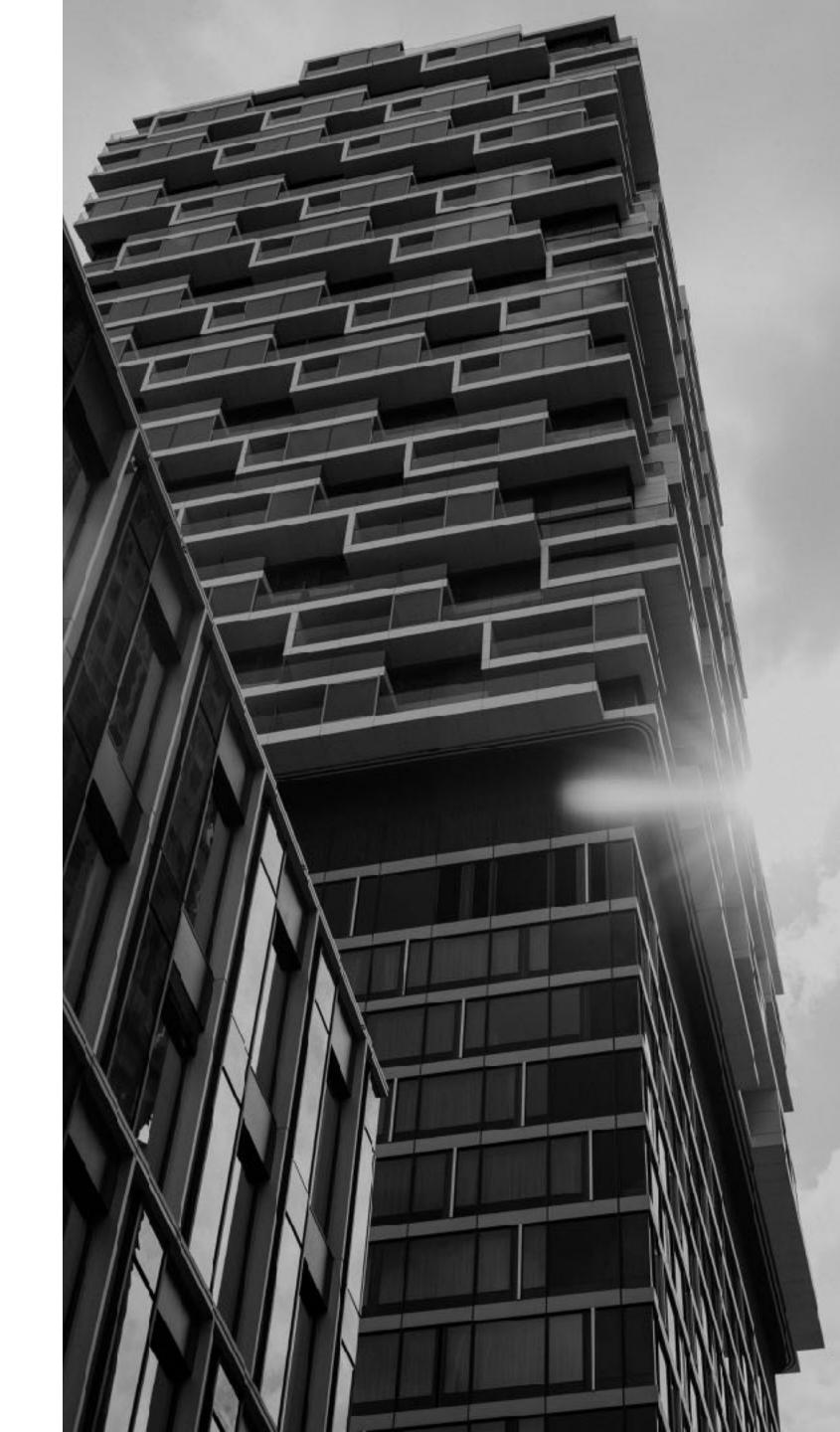
Architectural decisions

Make architectural decisions explicit

Team takes on the role of architect if required

Create and discuss architecture decision records

Consent instead of consensus



Code quality

Many eyes

Less bugs

No asynchronous code reviews

But refactor together



Learning from others

Continuous learning

Reduce bus factor

Onboarding with no effort



At home, but not alone

Lunch with the family

Contact to colleagues

No need to drive to the office



The silver bullet?

Different timezones

- Small time offset:
 - Hard to find common time slot
 - Core hours
 - Need for coordination

- Bigger time offset:
 - Just short mobbing session
 - 24/5 mob around the word



Conflicts within the team

Conflicts quickly come to the surface

Introduction must be accompanied by a coach

Many small retrospectives at the beginning



Dependencies

Waiting times

Context switching

Reduce dependencies

Teams should have end to end ownership



Break down silos

Share general knowledge within the team

Very in-depth knowledge is difficult to share

Bus factor is reduced, but not completely mitigated



Not suitable for everyone

Social Fatigue

Social Anxiety

Over Stimulation

• Etc.



How to start?

Do an experiment

Just try out a sprint full time

Many retrospectives

• 1-day workshop for your team at <u>Socreatory</u>

Accompany with a coach (I am happy to support)



mob.sh



Our Primer



www.innoq.com/en/primer

Download for free

Jochen Christ Simon Harrer Martin Huber

Remote Mob Programming

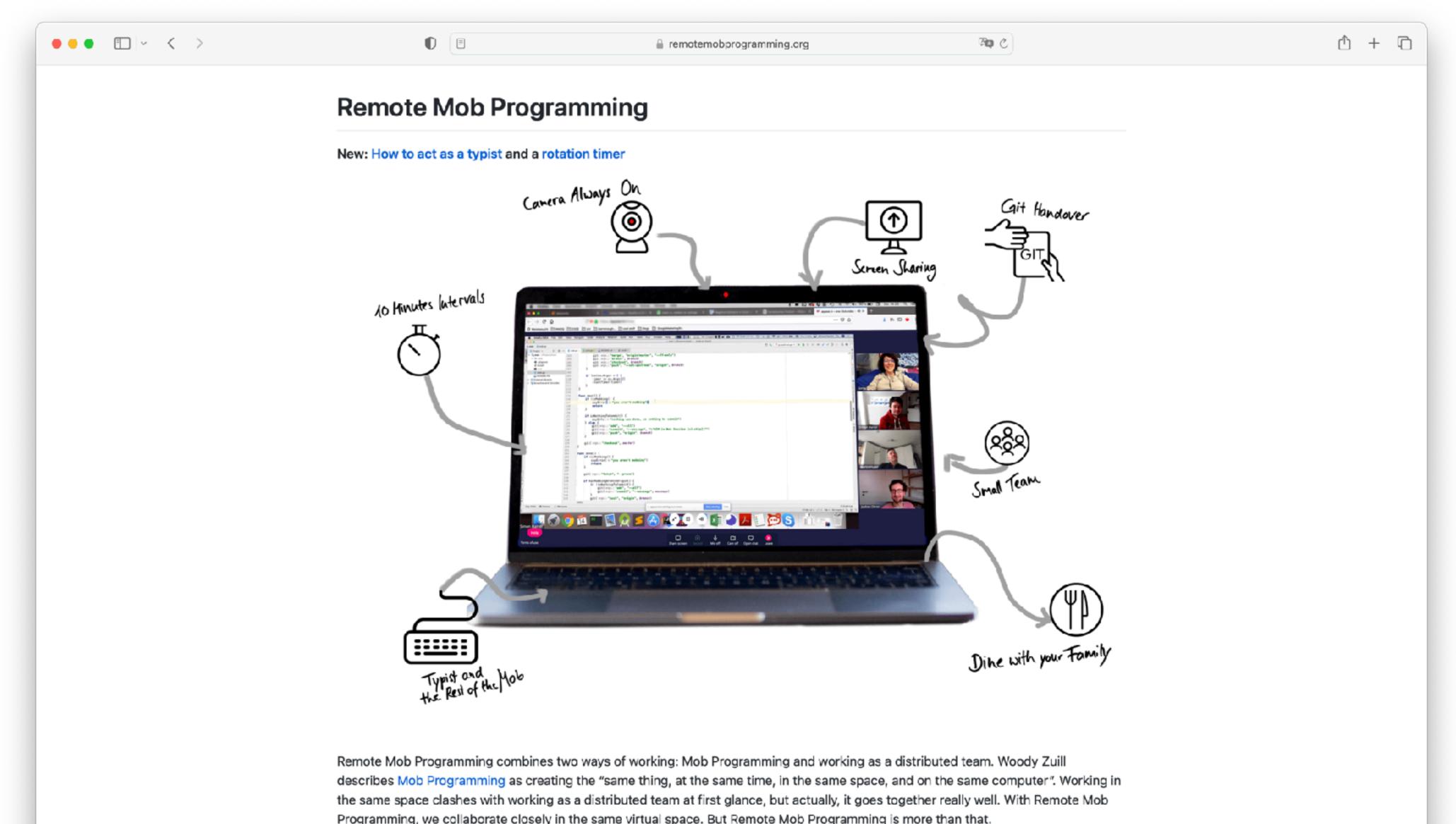
At home, but not alone



INNOQ

Foreword by Mark Pearl

remotemobprogramming.org



Conclusion

- More focus
- Learn continuously
- High performing team
- Colleagues became friends
- More time for the family



Thank you! Any questions?





Joshua Töpfer joshua.toepfer@innoq.com +49 172 3666344 @joshuatoepfer

innoQ Deutschland GmbH