

# Remote Ensemble Programming - As a technical coach

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**ProAgile**

# For the remote mob programming meetup

Invite from Lennart Friden, 23rd September 2020

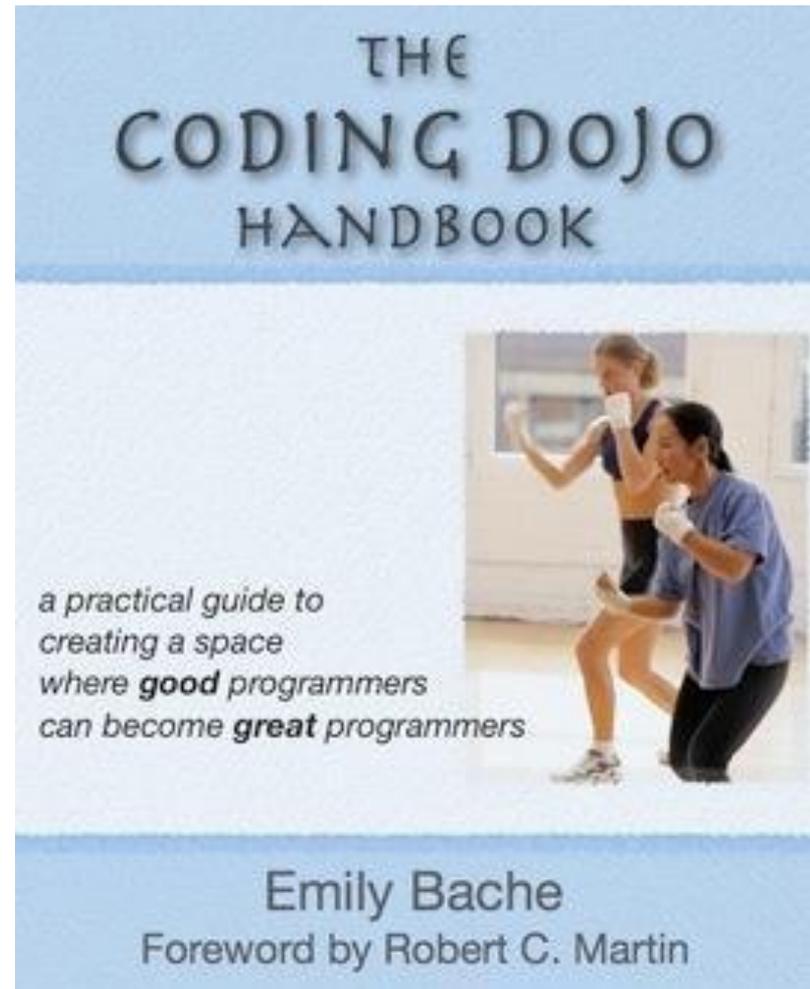
As a technical coach, I help teams to improve the quality of their code and to make changes iteratively and incrementally. Ensemble Programming (also known as Mob Programming) with a team is an excellent forum for encouraging good practices as a coach. In this talk I will explain a little about the methods I use and some specifics about how I'm doing it all remotely now.

# How do people learn TDD?

## *Teaching and Practice*

# Coding Dojos

Dojo == the place you go to learn



# The Coding Dojo

- About 5-15 coders
- 2-3 hours each week/month



# The gap:

*Code Katas are one thing,  
production code is another!*

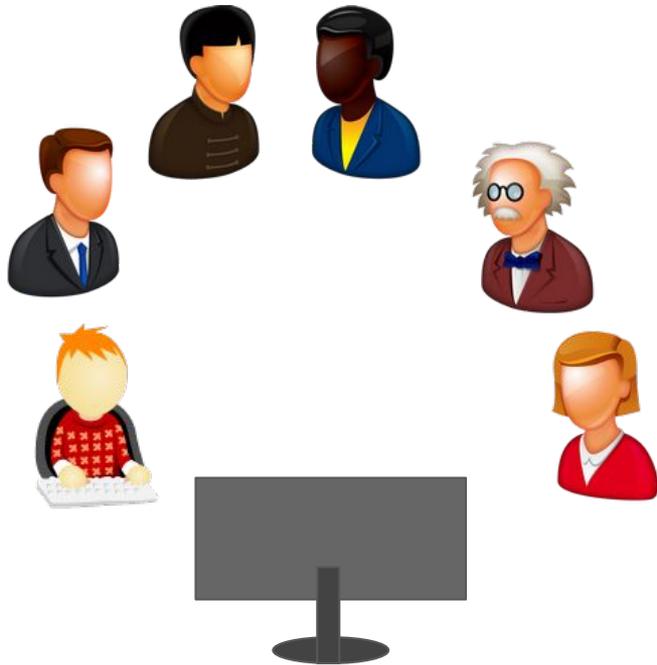
# TDD in Production Code vs Code Kata



Images: flickr [Ruth Hartnup](#)



# Technical Agile Coaching



- 1 learning hour per day
- 2 hours Ensemble Programming per day
- Blocks of 10 coaching days

# Learning Hour - short coding dojo

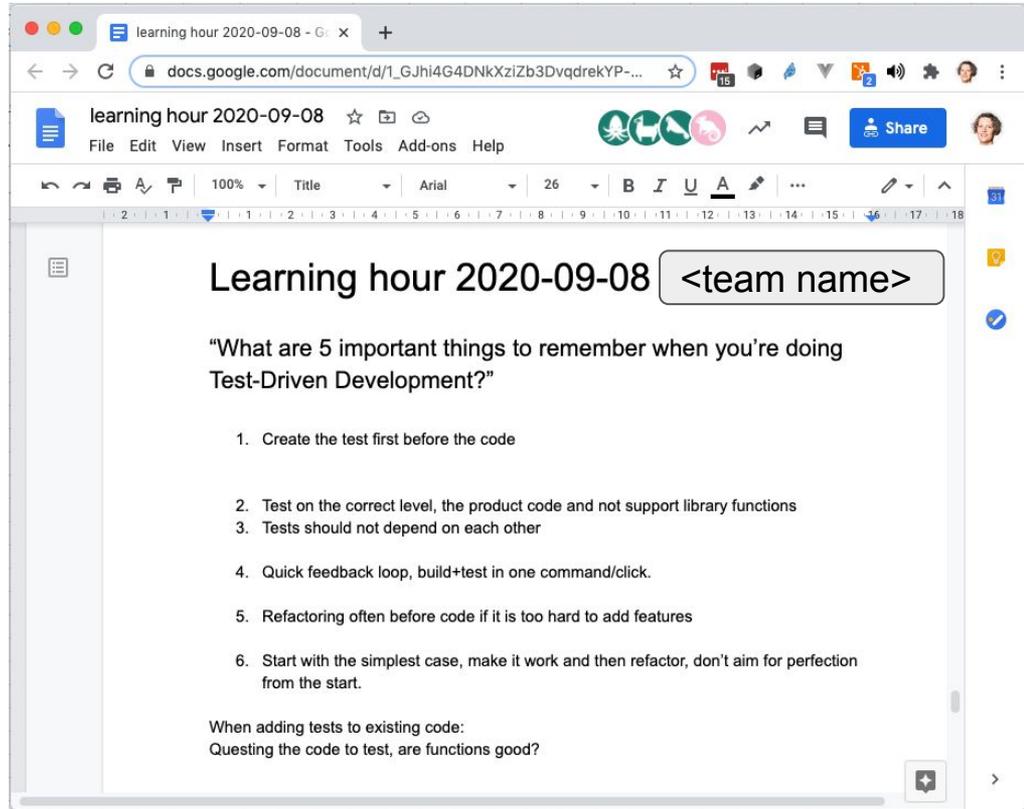


- About 5-15 coders
- 1 hour daily



# Shared “Whiteboard”

- Shared online document
- Everyone edits at the same time



The screenshot shows a Google Docs interface for a document titled "learning hour 2020-09-08". The document content is as follows:

Learning hour 2020-09-08 <team name>

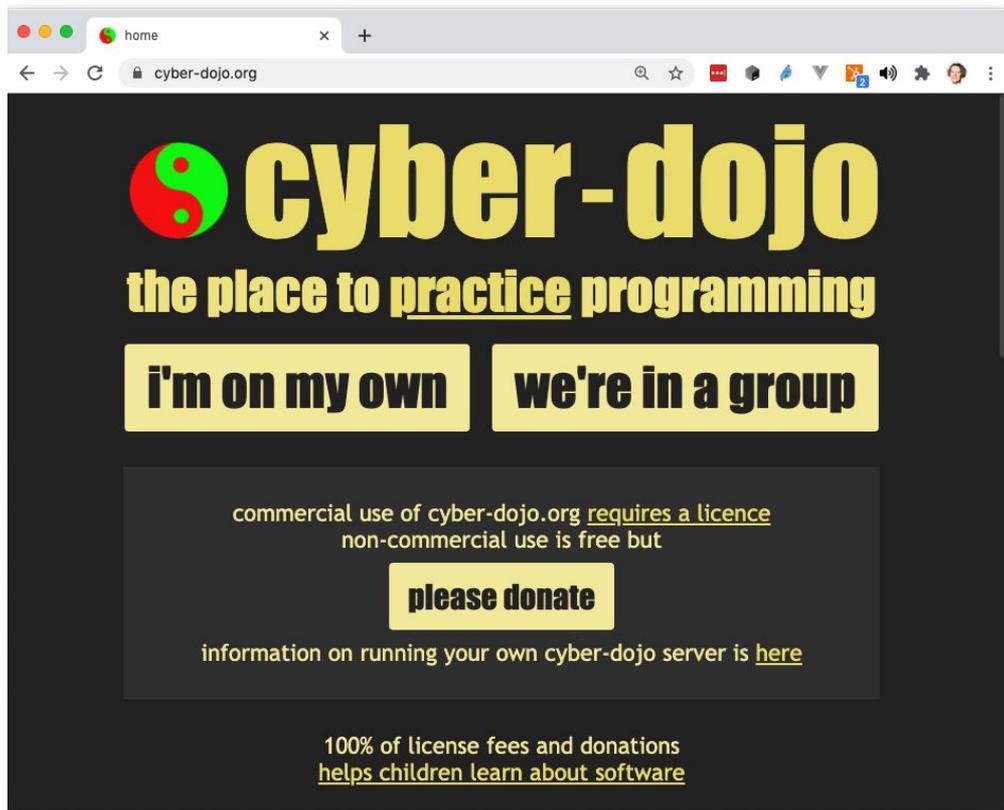
“What are 5 important things to remember when you’re doing Test-Driven Development?”

1. Create the test first before the code
2. Test on the correct level, the product code and not support library functions
3. Tests should not depend on each other
4. Quick feedback loop, build+test in one command/click.
5. Refactoring often before code if it is too hard to add features
6. Start with the simplest case, make it work and then refactor, don't aim for perfection from the start.

When adding tests to existing code:  
Questioning the code to test, are functions good?

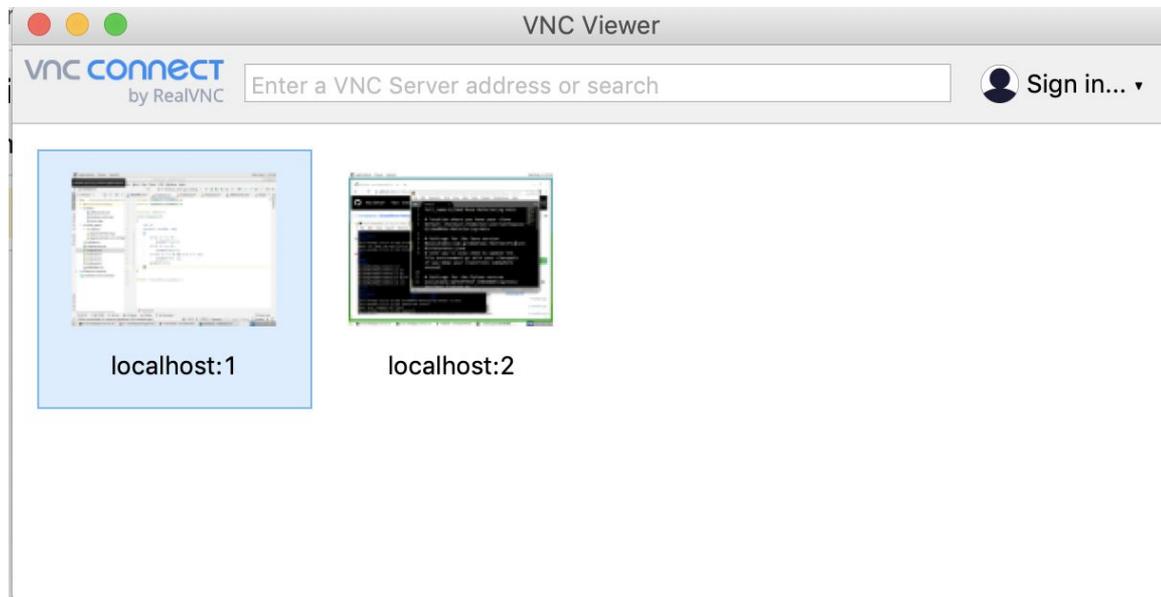
# Code Katas

- Cyber-dojo
- 3-4 minute rotations

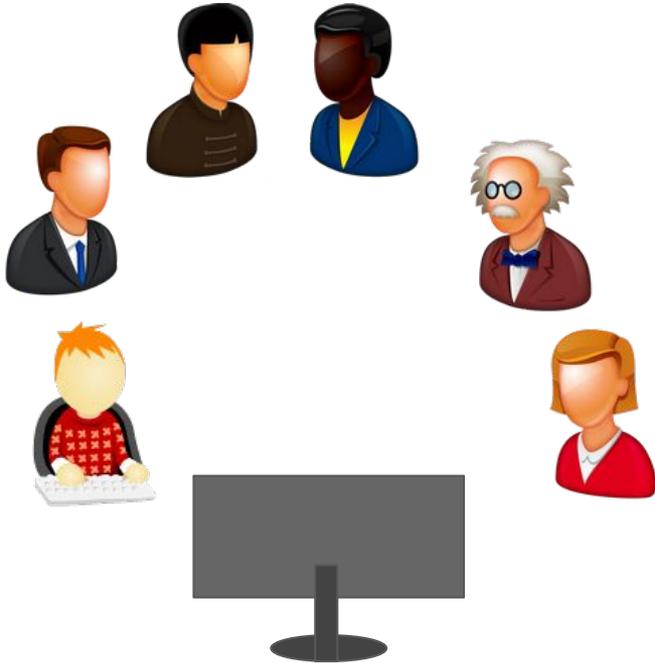


# Refactoring Katas

- Development machine in the cloud
- Connect with VNC



# Technical Agile Coaching



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# Ensemble Programming

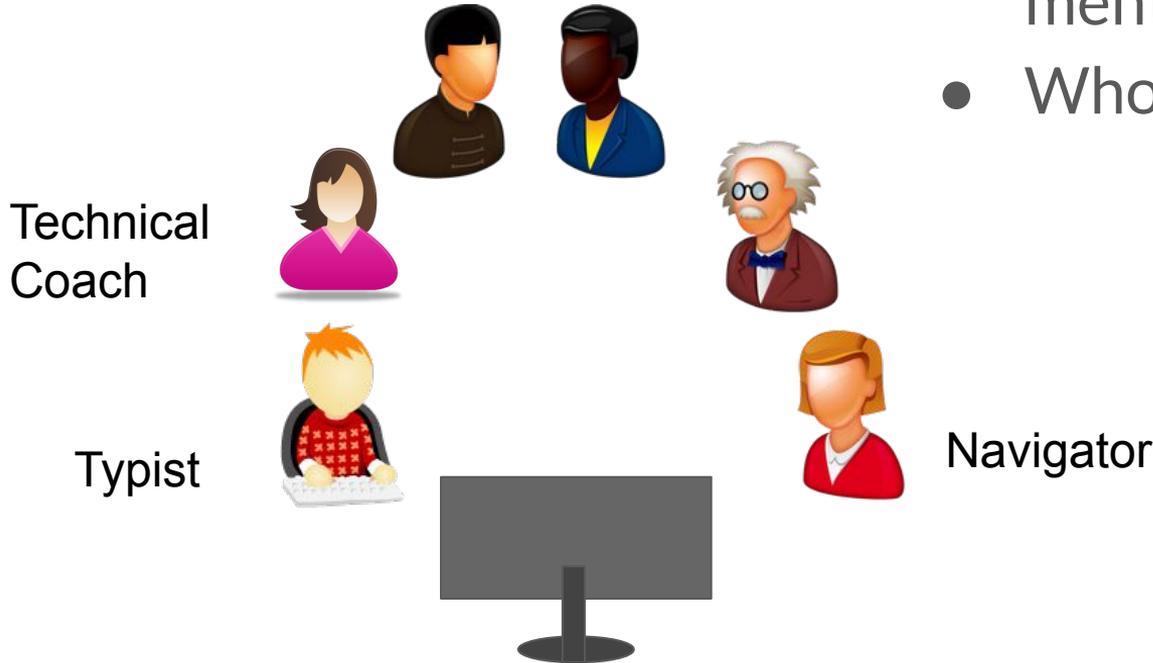


A structured collaboration for a team of software developers coding together

Coach encourages good practices

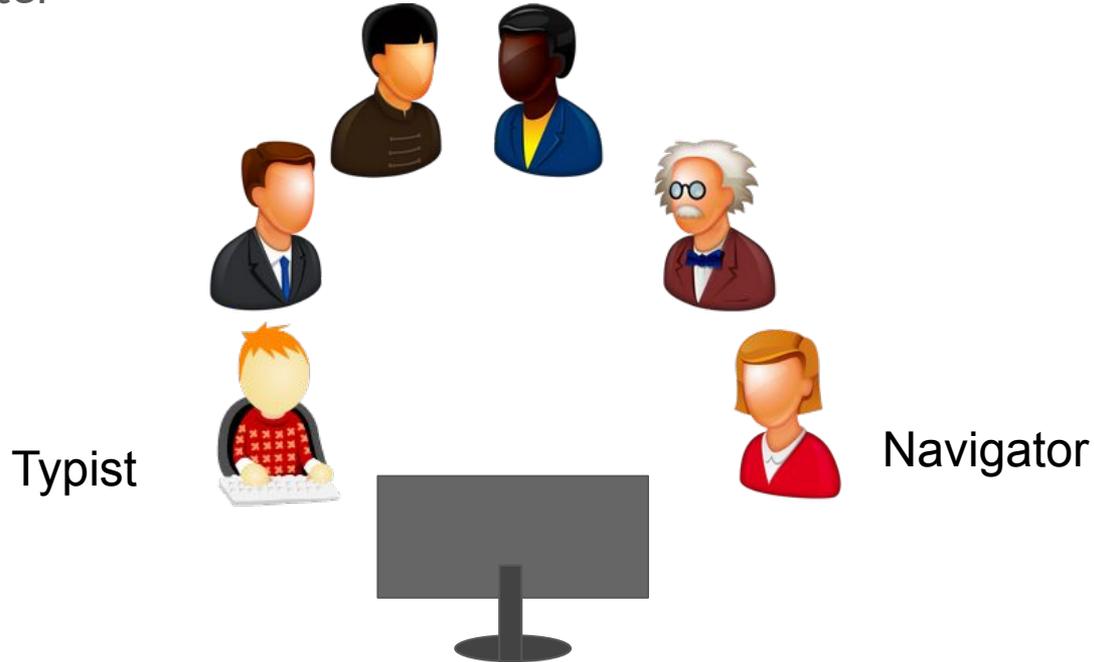
# Technical Coach joins the ensemble

- Coach, facilitate, mentor, teach
- Whole team at once



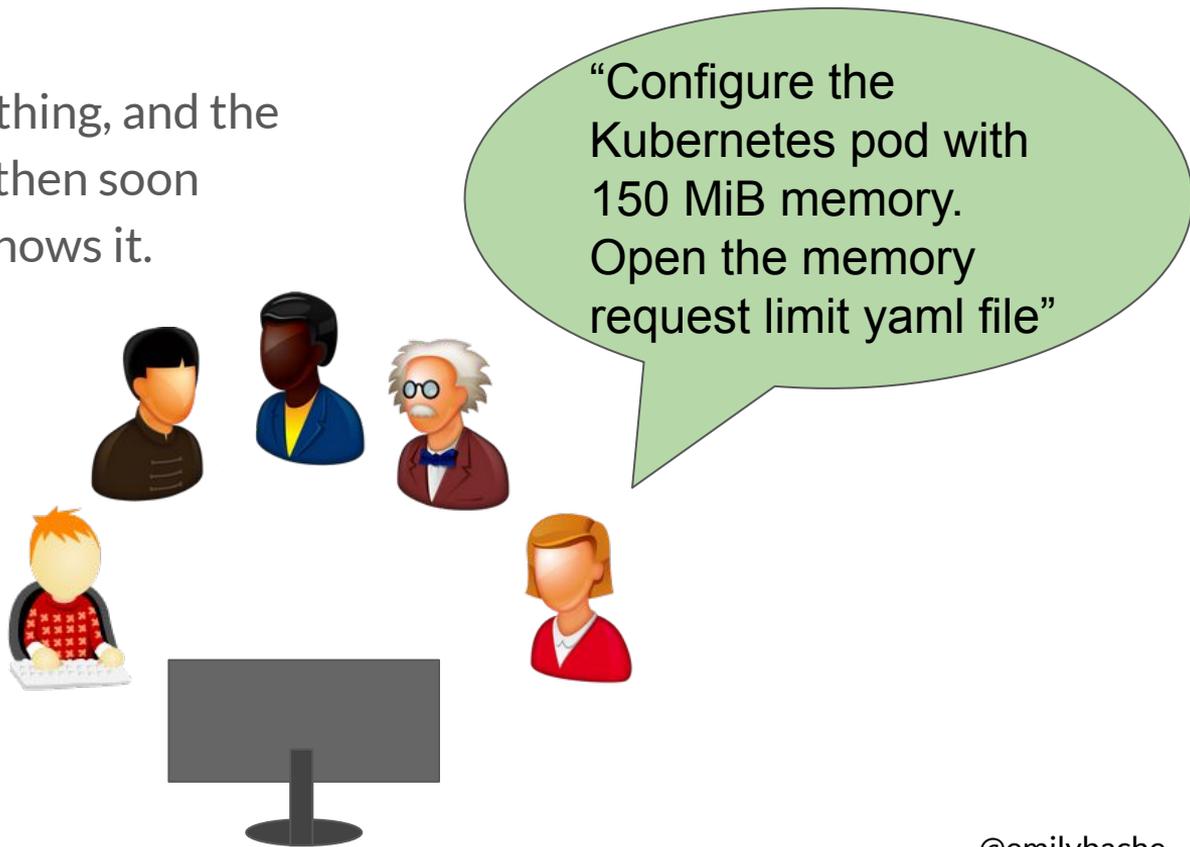
# Everyone understands the code

- Team learns to collaborate better



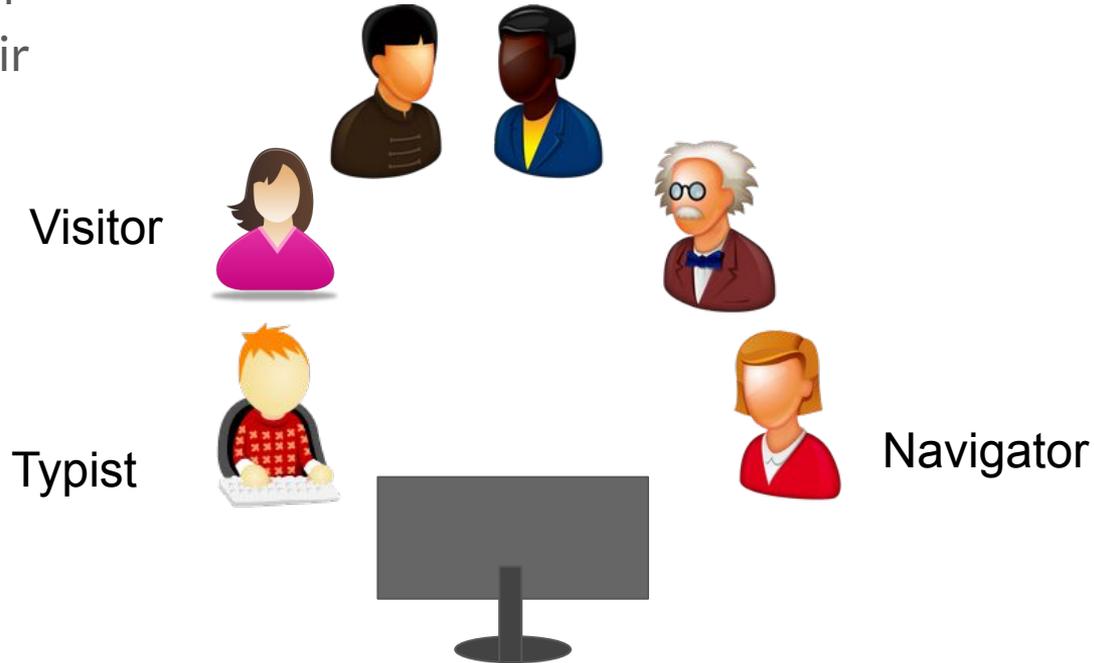
# Skill multiplier

- If one person knows a thing, and the mob needs that thing, then soon everyone in the mob knows it.



# Visitors quickly become an asset

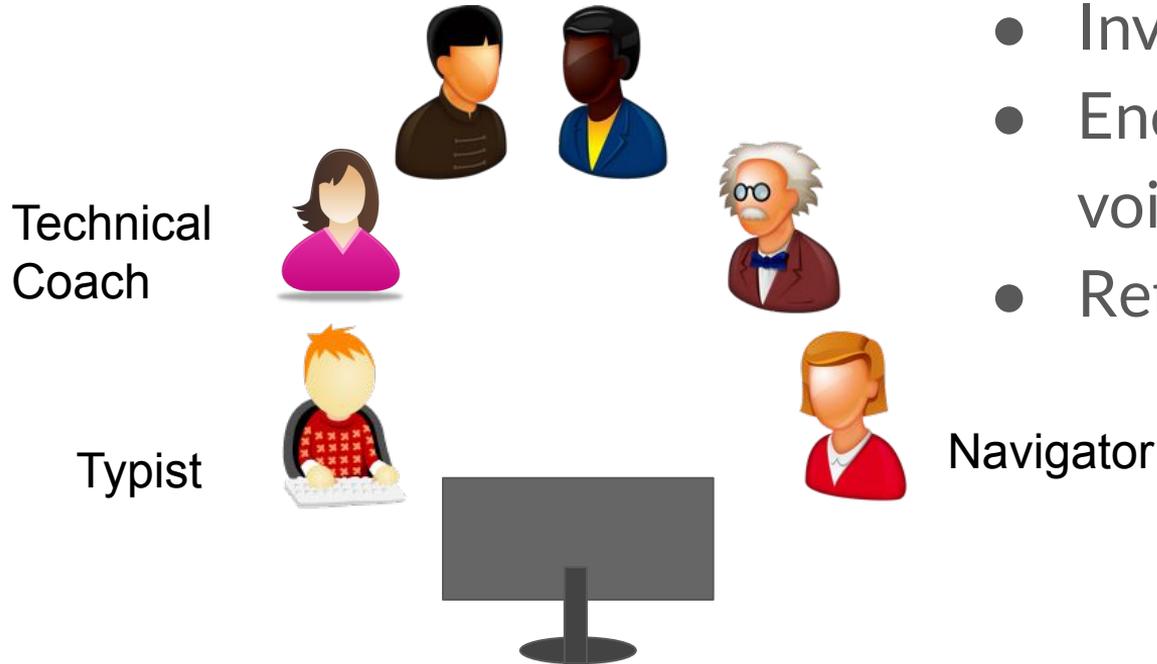
- Experienced developer, new to the team - contributes their expertise



- *Everyone understands the code*
- *Skill Transfer*
- *Visitors are quickly contributors*

Ensemble Programming

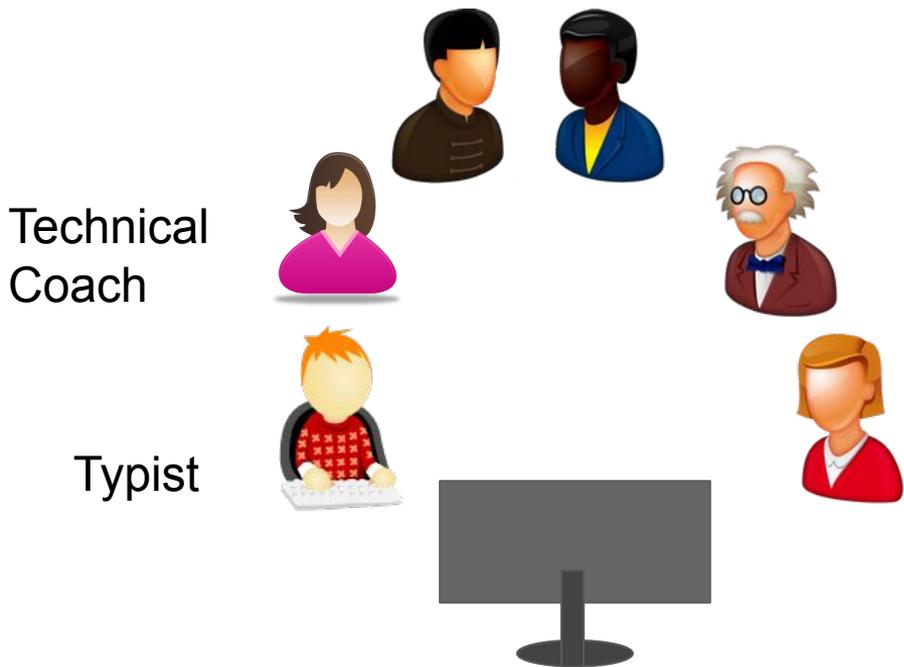
# Teaching ensemble skills

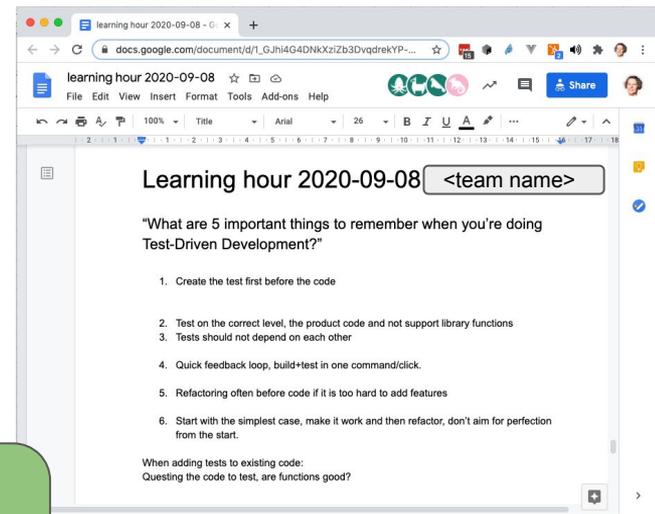


- Designate a Typist
- Invite navigation
- Encourage quieter voices
- Retrospectives

# Remote Ensemble Coaching

- Switch typist via git push/pull
- Rotate lead navigator more often
- Experimenting with VS Code Live Share





# Remote Ensemble Programming as a Technical Coach



Git push/pull to switch typist

