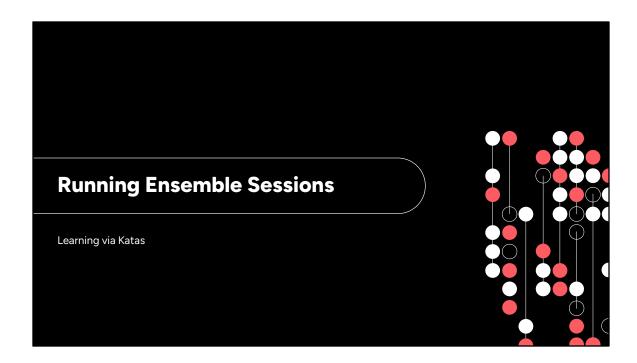
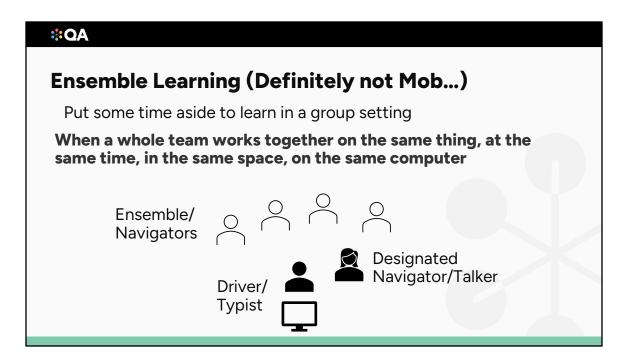


SAMMAN TRAINING

Running Ensembles





A Tester's Journey: Ensemble Is the New Mob

https://www.lisihocke.com/2021/02/ensemble-is-the-new-mob.html#:~:text=Beginning%20of%20February%2C%20one%20colleague,Emily%20Bache%20and%20Lisa%20Crispin.

"The terms "ensemble" and "mob" refer to the same approach. People had been looking for a replacement term for many years to get rid of the negative connotations of the "mob" which was perceived as problematic. Many people had been appalled by the term "mob" and hence didn't want to give it a try. Thinking of bullying or lynch mobs, the term is triggering trauma. Since last year [2019] we now finally have a new term that's a lot more inclusive: the ensemble. It's already been taken up and lived by many leading experts like Emily Bache and Lisa Crispin."

Excellent blog that describes a first ever ensemble session that highlights positives and negatives:

<u>A Tester's Journey: Our Team's First Mobbing Session</u> https://www.lisihocke.com/2017/04/our-teams-first-mobbing-session.html

Also this is a great page of resources:

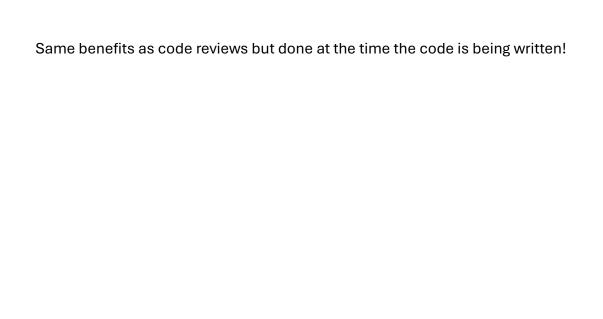
A Tester's Journey: Collaboration

https://www.lisihocke.com/p/collaboration.html

***QA**

Justification/Benefits

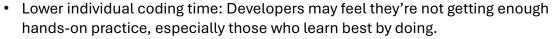
- Removes Productivity Blockers
- Shared knowledge
- Higher code quality
- Improved team alignment
- Faster onboarding
- Better decision-making
- Stronger collaboration
- Immediate support
- Team building/bonding
- Removes Productivity Blockers: ensembles can overcome: Multitasking, Interruptions, Being blocked, Technical debt, Code cruft, Waiting for information or reviews, Unnecessary meetings, Incomplete understanding, or not understanding the problem at all, Context switching, Merge conflicts, Lack of quality, Missing knowledge
- Shared knowledge: Everyone in the team gains a deeper understanding of the codebase and domain, reducing knowledge silos.
- Higher code quality: Continuous peer review and real-time feedback help catch bugs and design issues early.
- Improved team alignment: Promotes a shared vision and consistent coding practices across the team.
- Faster onboarding: New team members ramp up quicker by participating in the work directly with guidance from experienced colleagues.
- Better decision-making: Diverse perspectives lead to more thoughtful design and problem-solving.
- Stronger collaboration: Encourages communication, trust, and empathy within the team.
- Immediate support: If someone gets stuck, others are right there to help, reducing downtime.



****QA**

Potential Challenges

- Lower individual coding time
- Risk of Groupthink
- Fatigue and burnout
- Scheduling complexity
- Requires maturity and facilitation
- Not ideal for every task



- Risk of groupthink: Creative or divergent solutions might get overlooked if everyone leans toward consensus too quickly.
- Fatigue and burnout: Long ensemble sessions can be mentally exhausting; rotating roles and taking breaks is essential.
- Scheduling complexity: Getting everyone in the same room (or virtual room) can be hard, especially with distributed teams.
- Requires maturity and facilitation: Without strong communication and facilitation, sessions can derail or be dominated by stronger personalities.
- Not ideal for every task: Simple, repetitive, or exploratory tasks may not need the full team's attention. However, when working on something "simple" ensembles can innovate and find ways to automate workflow elements.

****QA**

Roles and Principles

- Ensemble: The entire team working together.
- Driver/Typist: The person currently typing and controlling the keyboard and mouse.
- (Designated) Navigator/Talker: The person/people giving instructions to the driver, often focused on the overall direction and testing ideas.
- Spectators/Ensemble: Other team members observing, learning, and assisting when needed. Increasingly labelled as Navigators.
- Roles rotate: Regularly switching the Driver/Typist and Navigator/Talker roles ensures everyone participates and shares knowledge.
- Focus on collaboration: The core of ensemble working is shared understanding, knowledge transfer, and collective problem-solving.

<u>EnsembleProgrammingGuidebook.pdf</u> (includes a chapter on how to be a facilitator)

https://ensembleprogramming.xyz/Download/EnsembleProgrammingGuidebook .pdf

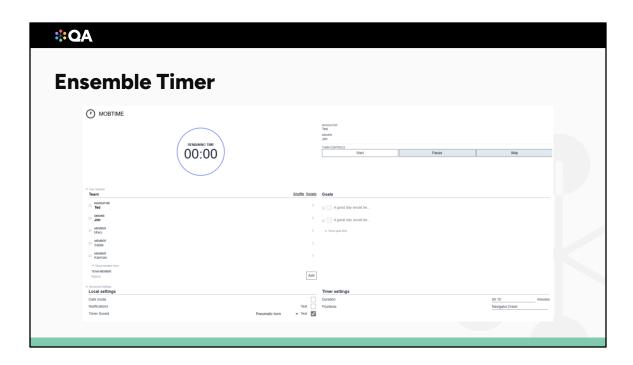
The Mob Programming Role Playing Game gives you the opportunity to investigate additional roles (Researcher, Sponser, Rear Admiral,...) you may want to introduce...

https://github.com/willemlarsen/mobprogrammingrpg

QA

Rules

- · Rotate on Timer.
 - 4-15 mins (depending on experience).
- Work done on a previous rotation is enhanced **not** replaced.
- No decisions on the keyboard. The typist <u>must</u> be passive.
- Be kind and considerate . Every contribution has value.
- Everyone is either contributing or learning or both.
- Don't expect the first few sessions to be "productive".
- When switching the designated navigator becomes the driver/typist and the driver/typist returns to the ensemble (or vice versa).
- Navigate on highest level of intent the driver can work with.
- Have a retrospective/plenary to summarize and reinforce what's been learned.
- Have Fun!



There are a number of timers out there that are designed to be used in ensemble/mob programming sessions.

MobTime

https://mobti.me/

₩QA

Common Ensemble/Mob Mistakes

- Calling it a Mob
- Production Code on First Try
- Assuming Pair Programming Roles
- Stop doing it because it's not efficient

KEYNOTE: Ensemble Working: The ultimate in collaboration - Clare Sudbery

https://events.responsive.se/tidigare-

arrangemang/devlin2023/presentationerna-devlin2023/310-keynote-ensemble-working-the-ultimate-in-collaboration-clare-sudbery

Mob Programming & the Power of Flow • Woody Zuill • GOTO 2019

https://www.youtube.com/watch?v=28S4CVkYhWA

Emily Bache: AVOID These Mob Programming / Ensemble Mistakes: https://www.youtube.com/watch?v=qjE1O9Zdm3U

Ensemble is a skill that needs to be learnt and developed. It takes brain power and effort to learn to do it well.

Mob Mentality Show – YouTube

https://www.youtube.com/@mobmentalityshow/videos

****QA**

Remote Ensembles

- Each participant runs their own local copy of IDE and shares screen
 - A shared remote machine will be too laggy
- Use a repo (e.g. GitHub)
 - Old driver pushes, new driver pulls
 - · Facilitator needs write access
 - Each person needs to be invited as a collaborator
 - Repo needs to be **cloned** (not copied)
- Monitor sizes can be an issue (scale large displays)
- Share entire desktop not just one window
- · First local run can be slow
 - everyone pull code and build to warm up systems

Remote Ensemble Programming:

Ensemble programming. Collaborative coding as a remote team | by Stephan Bester | Medium

https://stephan-bester.medium.com/ensemble-programming-c9a4212cd1f2

Remote Ensemble Programming at Meltwater - Meltwater Engineering Blog https://underthehood.meltwater.com/blog/2023/08/09/remote-ensemble-programming/

How Remote Ensemble (Mob) Programming Is Working for Me https://qualitycoding.org/remote-mob-programming/

Remote Mob Programming | How we do Remote Mob Programming. (Has a free PDF book)

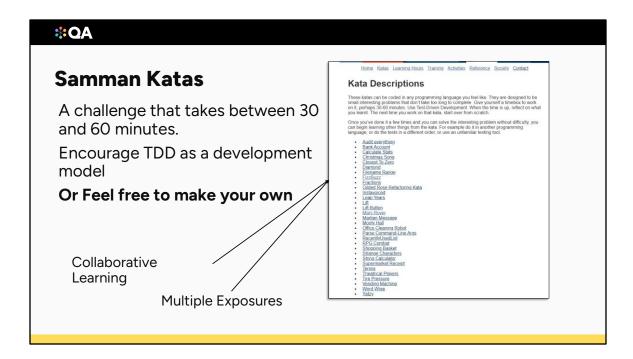
https://www.remotemobprogramming.org/

Remote Ensemble **Testing** - How an Experiment Shaped the Way We Work: https://www.infoq.com/articles/remote-ensemble-working-experiment/

For the first ensemble consider having a practice round where emphasis is on getting things running smoothly.

Fast git handover with mob tool

Fast git handover with mob | Tool for smooth git handover. https://mob.sh/



Alternate Saman hour, ensemble one week for each. Therefore 2-week cycles.

Mob Programming Role Playing Game:

willemlarsen/mobprogrammingrpg: A game for exploring the development practice of mob programming

https://github.com/willemlarsen/mobprogrammingrpg

Demo of the Mob Programming and the RPG (Part 1)

https://www.youtube.com/watch?v=ixV8YG5vwyM

Demo of the Mob Programming and the RPG (Part 2)

https://www.youtube.com/watch?v=V1ZgaX99UJ4

Web App that Automates the Mob Programming RPG

https://gregorriegler.com/mob-programming-rpg/bxmpiwosw0u

