

# Project Based Learning

Ridi Ferdiana | [ridi@acm.org](mailto:ridi@acm.org)

Version 1.0.0



# Agenda

- Personal Software Process
- Pair Programming
- Mob Programming

# Personal Software Process

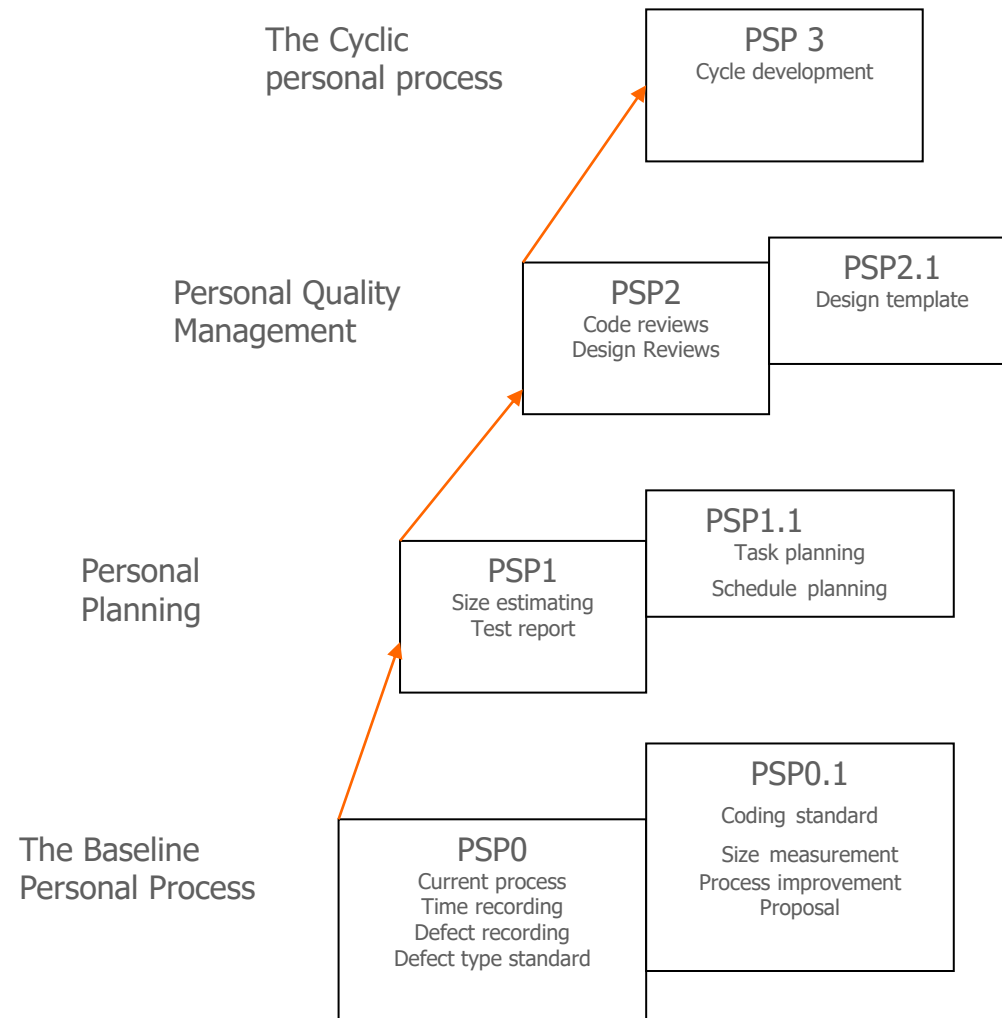


# Personal Software Process

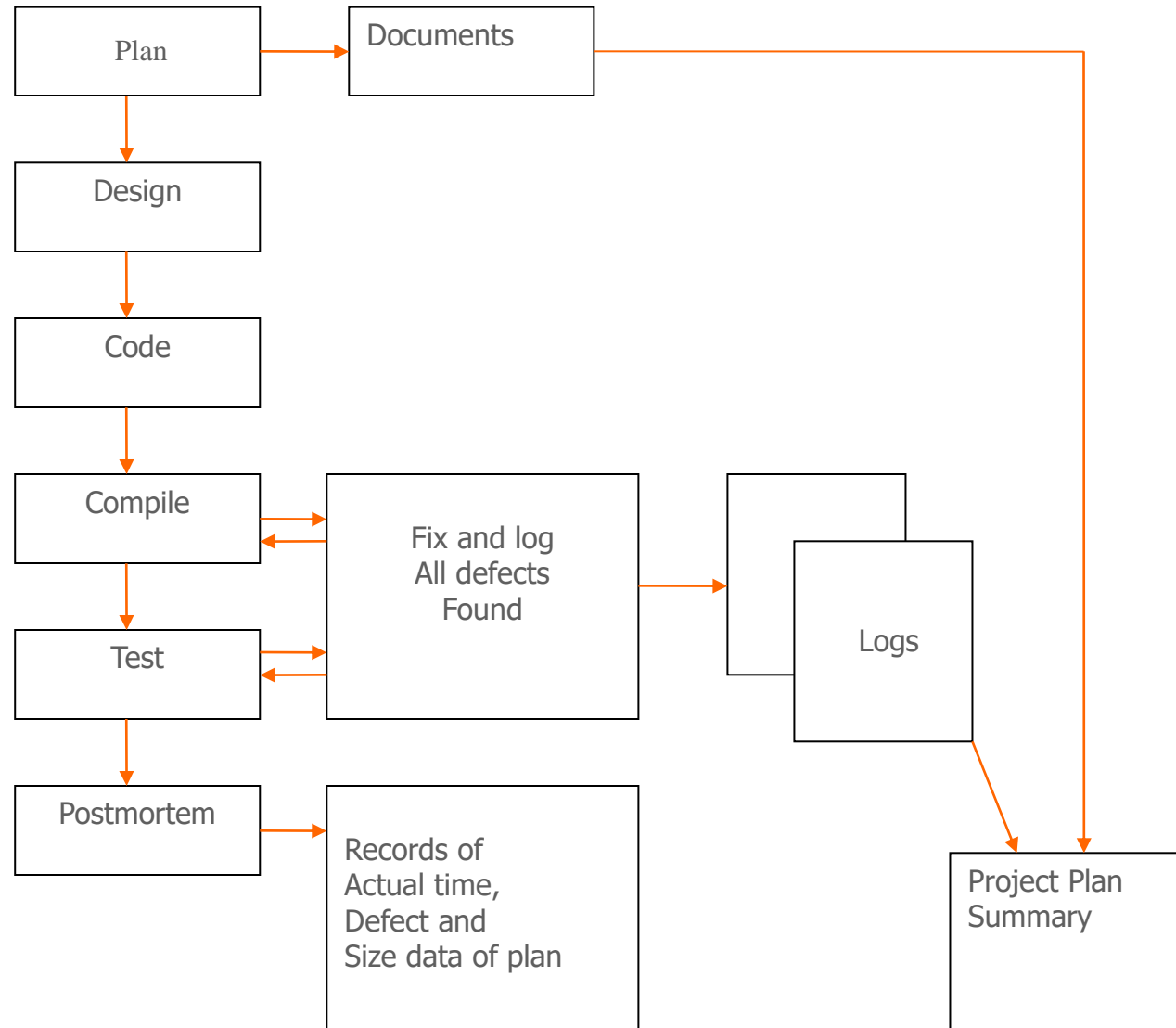
The personal software process (psp) is a structured set of process descriptions, measurements and methods that can help engineers improve their personal performance

The goal of the personal software process is to discipline software process

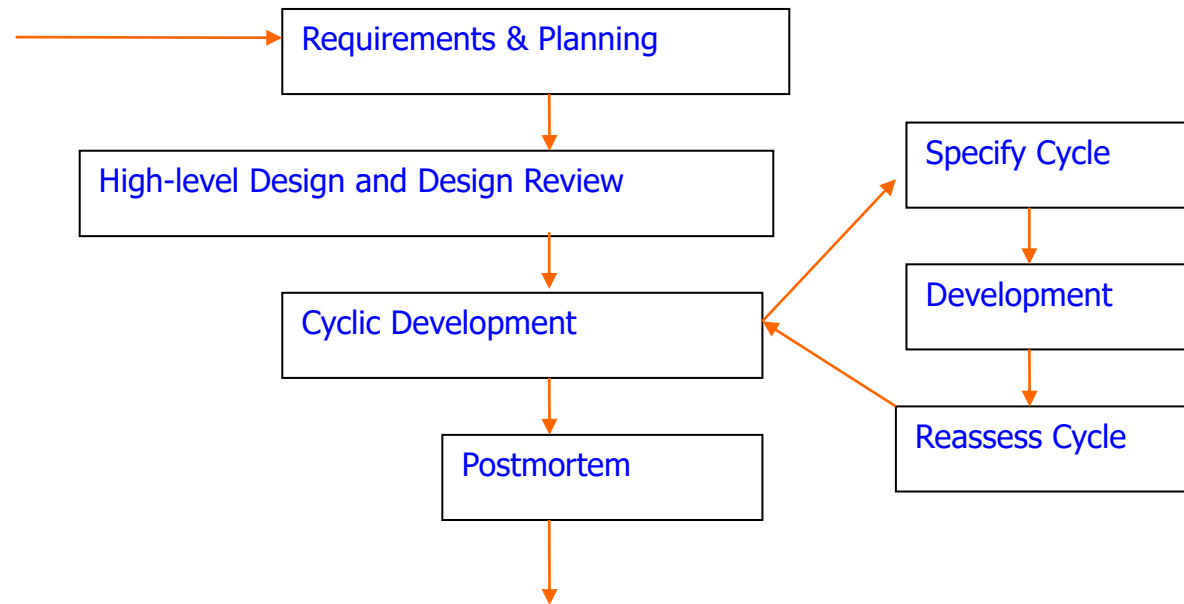
# PSP



# Baseline Personal Process



# Cyclic Personal Software Process



# Pair Programming





# What is Pair Programming

- Two Programmers sit at one workstation
- They take turns “driving”
- Pairs are short lived
- Pairing transmits knowledge to the team
- Pairing helps train newbies

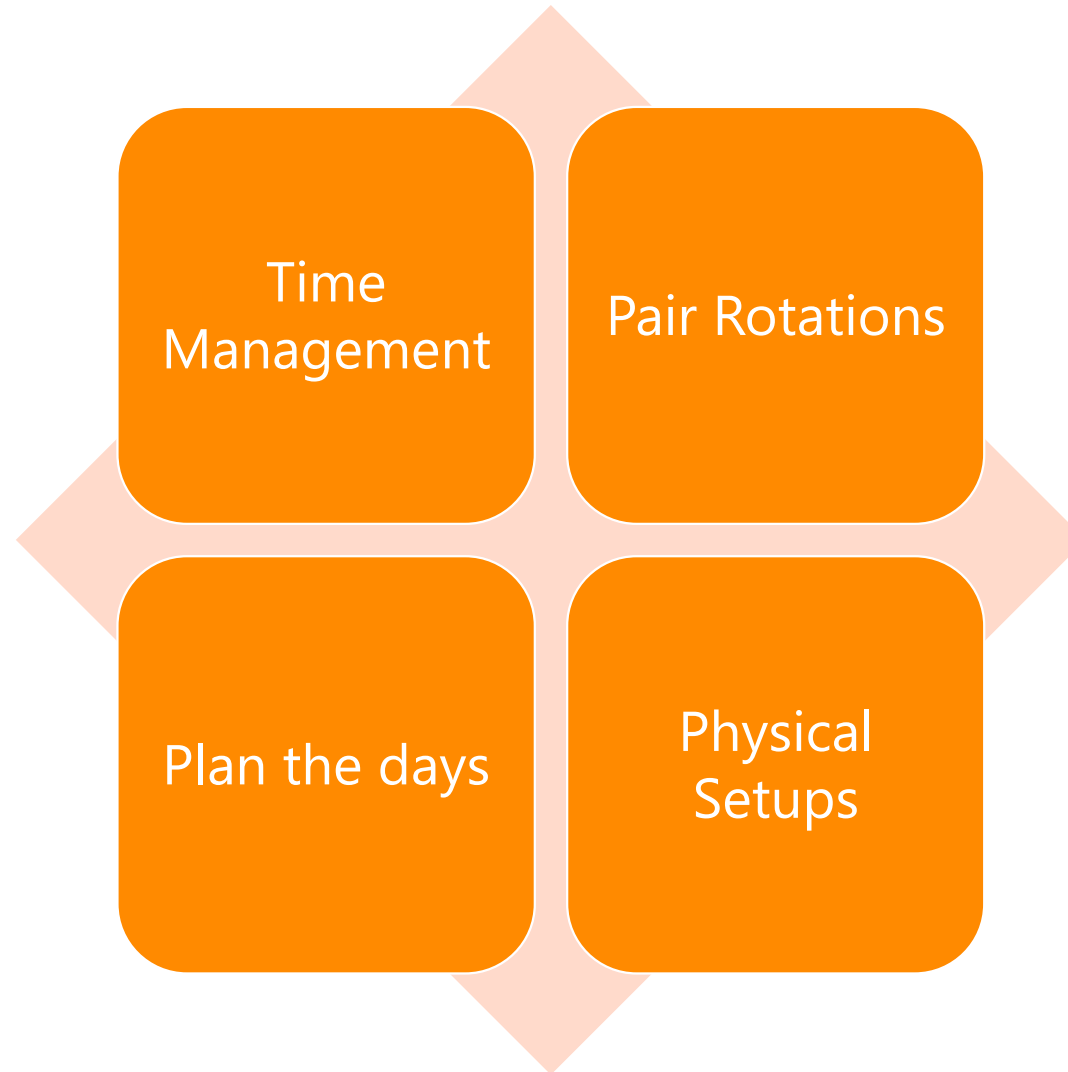
# Pair Programming



This Photo by Unknown Author is licensed under CC BY-SA

- Driver and Navigator
- Ping Pong
- Strong Style Pairing
- Pair Development

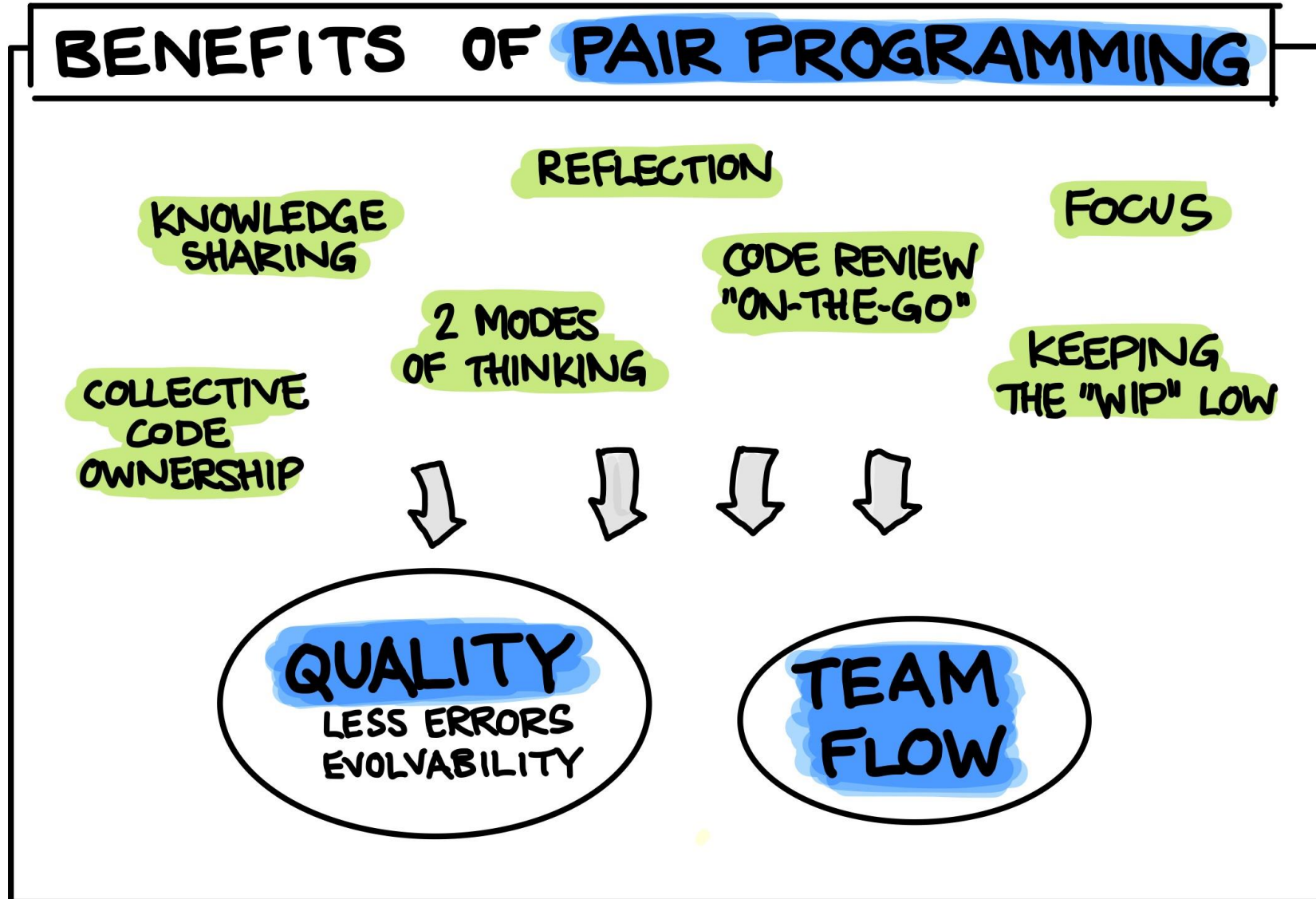
# Pair Programming Implementation



# Remote Pairing

- Visual Studio Liveshare
- Microsoft Teams Meeting
- Group Chat
- WIKI / Onenote

# Pair Programming Benefits



# Pair Programming Challenge

- Exhausted
- Intensive collaboration
- Interruptions
- Different Skill Level
- Rotation
- Pairing requires vulnerability

# Mob Programming



# What is Mob Programming

- All the brilliant minds working together on
- The same thing...
- At the same time...
- In the same space...
- On the same computer...
- The entire team



# FRAMEWORK Adapt this to your teams needs

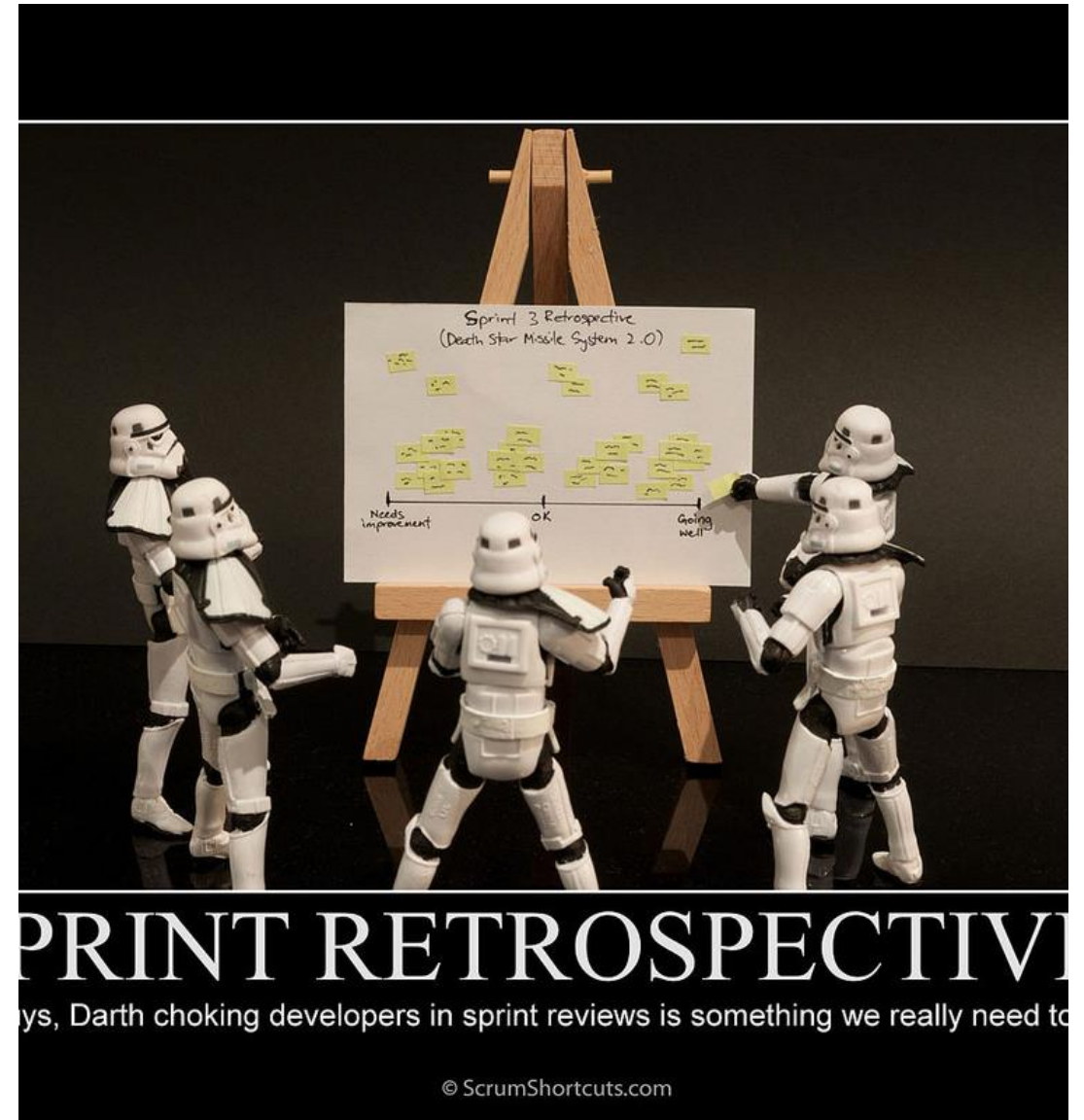
- ▶ Driver / Navigator
- ▶ Rotate
- ▶ The team (everyone)



BENEFITS - TURN UP THE GOOD!

# By Problems Fading Away

- ▶ Meetings
- ▶ Context Switching
- ▶ Distractions
- ▶ Long time to make decisions
- ▶ Multi-tasking
- ▶ Silos of knowledge
- ▶ My 2 cents....



# Conclusion

- Single Fighter – PSP
- Coop with similar Roles – Pair Programming
- Multiplayer with different roles – Mob Programming