

# (Remote) Pair Programming

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# Goal

Introduce pair programming

Show a live example

Discuss problems



# History

## Practised since the fifties

- Fred Brooks as grad student 1953 – 1956
- Author of “Mythical man”



# Why

Fun

Problem solving

Fast feedback



# Problem solving

One person – one problem

Two persons – one problem



# Your average developer?



<http://www.flickr.com/photos/thebigdurian/>



# Spread knowledge

Introduce new developer

Handover



# Knowledge management

“Our knowledge has legs – it walks home every day”

Leif Edvinsson





# Knowledge management



# Knowledge management

Keep you bus count above one



# Learning

New programming language

New development environment

New development techniques

TDD



# Teaching experience

One student – Ok solutions

Two students – Better

Three students – Can work

Four students – have never worked

Pairs must to be equal

- Not expert – Novice
- Novice – Novice



# What drives change?

Feedback



# Who does CI?

Why?

Feedback



# Feedback loop

Length?

It depends



# Bug report

6 months

Water fall project in Stockholm





# Scale

Customer

Code review

Continuous Integration

Test Driven Development

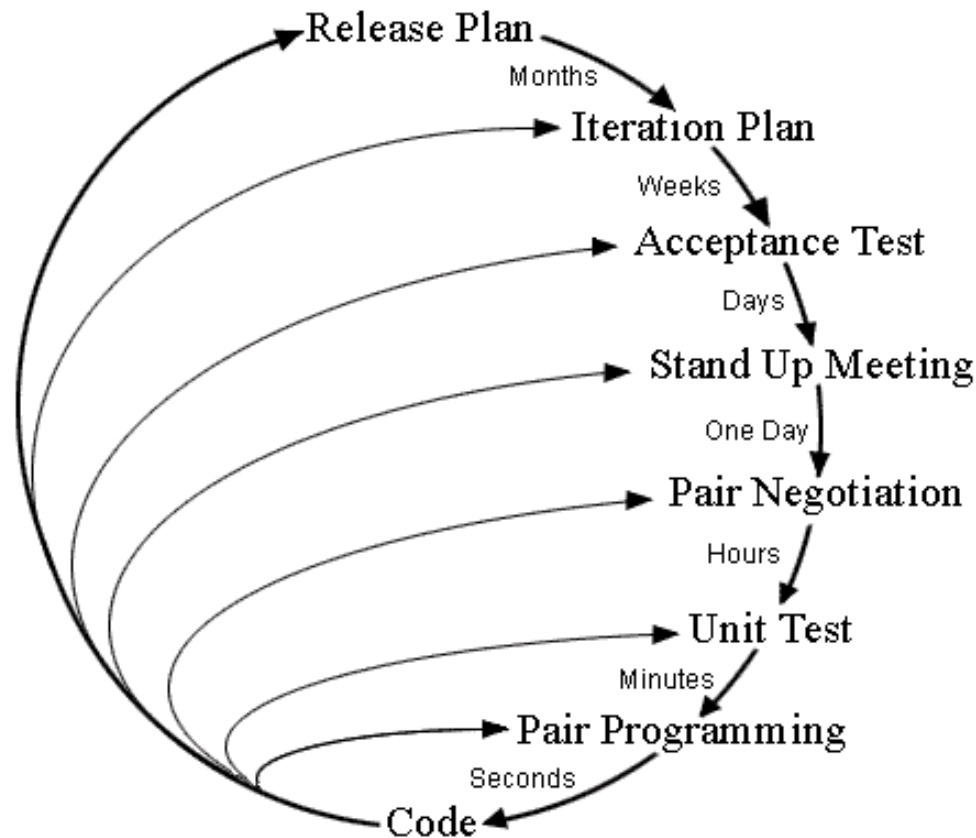
Pair Programming

Driving a car



# eXtreme Programming

## Planning/Feedback Loops



# Conclusion

Better software through faster feedback



# How?



# Exercises

Katas

!Production code

Throw away after



# Pair programming games

Ping pong

Far sight navigator

Silent



# Ping pong

One driver

One navigator

Switch often

~Every second method



# Far sight navigator

One driver

One navigator

Switch seldom





# Silent

Ping pong

No talking

Perfect for remote...



# Where?

Coding dojos

Code retreats

Remote

Want to pair with me?



# TDD

Not necessary



# Economy

Two persons  
One computer

**Wrong view**



# Economy

Two persons

**One problem**

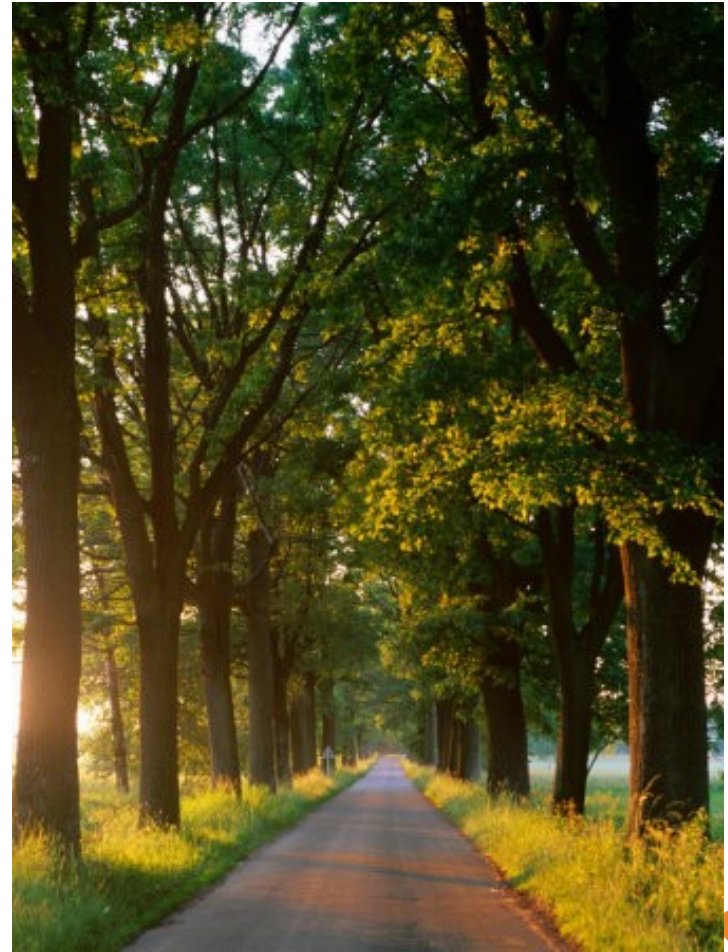


# Cost of long feedback?

Production bug

Bad performance

Car crash



# Cockburn and Williams

## XP 2000

15% slower than independent developers

50% less bugs

<http://collaboration.csc.ncsu.edu/laurie/Papers/XPSardinia.PDF>



# Remote





# Scheduling

Doodle



# Network

## Reasonable



# Tools

Sound

View

Code



# Tools

Sound – Skype

View – Skype

Code – Github

Ok, not great



# Tools

Sound – Skype

View – Team Viewer

Shared computer

Great



# Demo



# Remote partner



Alexandru Bolboaca  
Bucharest, Romania

<http://www.mozaicworks.com>  
/

- Coach
- Developer
- Teacher
- Speaker

Tries to help developers use their brain power in more fulfilling ways



# Exercise

## String Calculator Kata

Given a string

Parse it

Calculate the sum

### Example:

“1,2”

3

<http://osherove.com/tdd-kata-1/>





# Live



# Tips

Second screen for personal stuff

Line numbering

Good headset



# Problems



# Remote Pairing

Hard to sketch a solution

Time zones



# Local Pairing

Personal hygiene

Clean clothes



# Focus

Exhausting

No micro pauses

Plan for breaks



# Pomodoros



25 minutes work

No interruptions

5 minutes break

# Manager forbids Pairing

## Critical bug in production

Been there

Tried that

Got the t-shirt





# Anti pattern

Don't talk

Leave the pair

Don't explain what you did

Don't say what you want to achieve



# Anti pattern

Rude

Fight about driving

Kidnap keyboard



# Why

Problem solving

Feedback

Better quality

Fun

Not a goal – a tool



# Conclusion

Better software through faster feedback



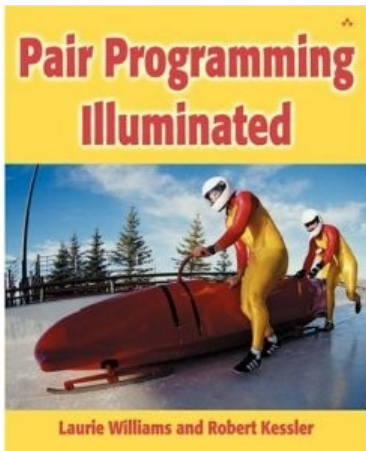
# Resources

Skype – <http://www.skype.com>

TeamViewer – <http://www.teamviewer.com>

<http://blog.code-cop.org/2012/08/remote-pair-practice.html>

<http://thomassundberg.wordpress.com/2012/06/15/pair-programing/>



Pair programming illuminated

Google may be your friend...



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