

Pair Programming

CSCI 39549

September 26, 2018

Pair Programming



Agenda

- 1 Announcements
- 2 Guest introduction!
- 3 Discussion of Reading
- 4 Pair Programming Workshop (1)
- 5 Bio Break
- 6 Pair Programming Workshop (2)

Announcements

Grades are on Blackboard

V1 is graded and on Blackboard.

V2 will be graded soon.

Guest Lecturer

Mariel Freyre



ThoughtWorks®

Etsy

Discussion of Reading

From *eXtreme Programming Explained*

Pair Programming

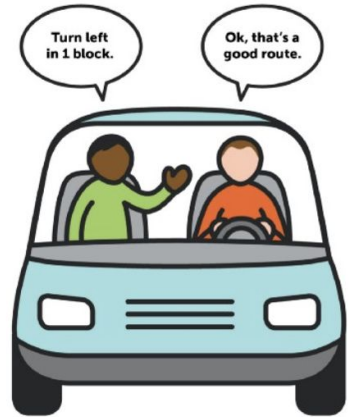
A dialog between two people simultaneously programming (and analyzing and designing and testing) and trying to program better.

- Kent Beck, Extreme Programming



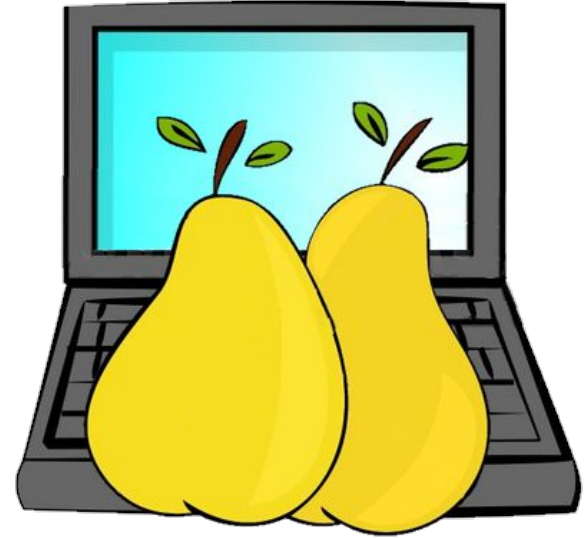
Why Pair Programming (the Pros)

1. Keep each other on task
2. Brainstorm refinements
3. Clarify ideas
4. Take initiative/lower frustration
5. Accountability



Why Pair Programming (the Cons)

1. Close contact
2. It can be tiring
3. Personal Hygiene + Health
4. Personal Space/Unwanted Attention



Pair Programming Introduction

Pair Programming Introduction

Social Rules

No Feigning Surprise



No “well actually”s



No backseat driving



No subtle “isms”



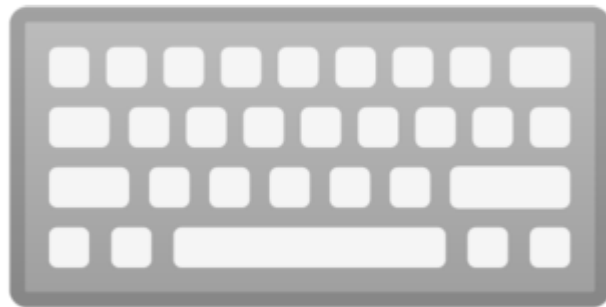
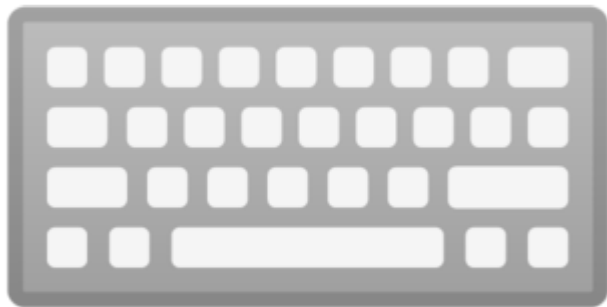
Pair Programming Introduction

Set up

Two of everything!



Two keyboards



Two Monitors



Two mice



Two *Computer* Mice



Given that we are in a classroom



Pair Programming Introduction

Why Pair?

Information sharing



Starting a new project that impacts
other people on your team



Debugging



Practice communicating code ideas



Pair Programming Introduction

When should you *not* pair?

Fast fixes with an urgent timeline



Researching solutions -- early days



Pair Programming Introduction

Types of Pairing

Strategy 1: Ping Pong Pairing



Grab a partner!



Go to link <http://et.sy/exdoiwq>



Clone the repository at the link to your desktop



Open the file in your favorite editor , and use Ping pong style to implement the tests!



If you make it through the tests, follow the instructions at the bottom of the page to make the grid infinite!

How was that?



10-minute Break

Strategy 1: Driver and Navigator Pairing



Grab a DIFFERENT partner!

- 👉 Whoever is the owner of the laptop, keep the laptop
- 👉 Use pairing principles to explain to your new partner where the state of the code is on the shared laptop!
- 👉 Work together to extend this application by adding a front end, either using the command line or your skills with the Flask microframework!

How was that?

