

# Introduction to **PAIR PROGRAMMING**

# What is Pair Programming?

- ✿ **Two programmers work side-by-side at one computer, collaborating on the same code**
- ✿ One programmer (the **driver**) does the coding, and the other programmer (the **observer** or **navigator**) continuously reviews and critiques the code, as well as navigate the work
- ✿ The two programmers **switch roles** periodically

**Driver**

**Navigator**



# This is Pair Programming



*Work side-by-side on one computer*



# This is Pair Programming



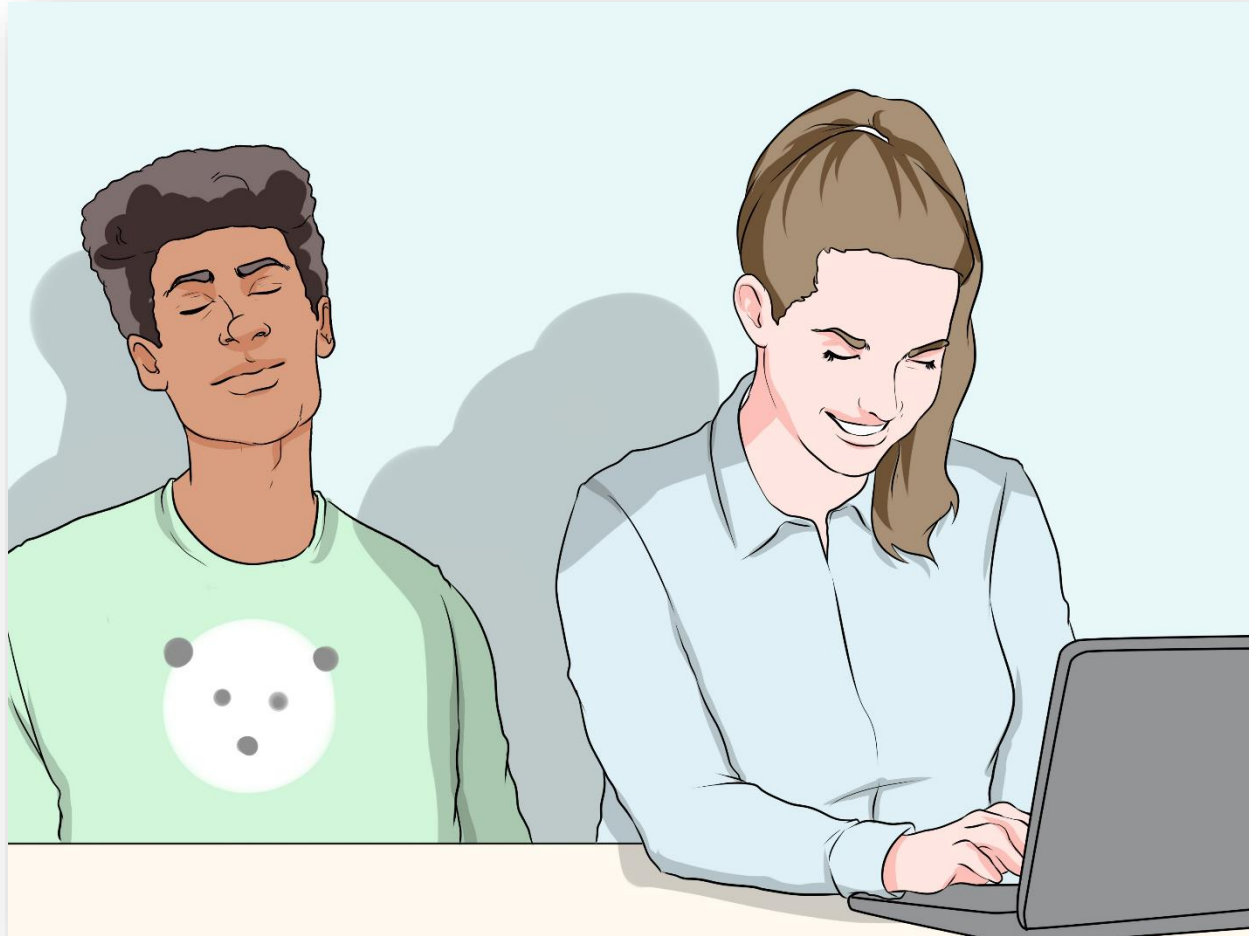
*Continuously collaborating on the code*

# This is NOT Pair Programming



*Pair programming is not about dividing tasks*

# This is NOT Pair Programming



*You don't just sit there*



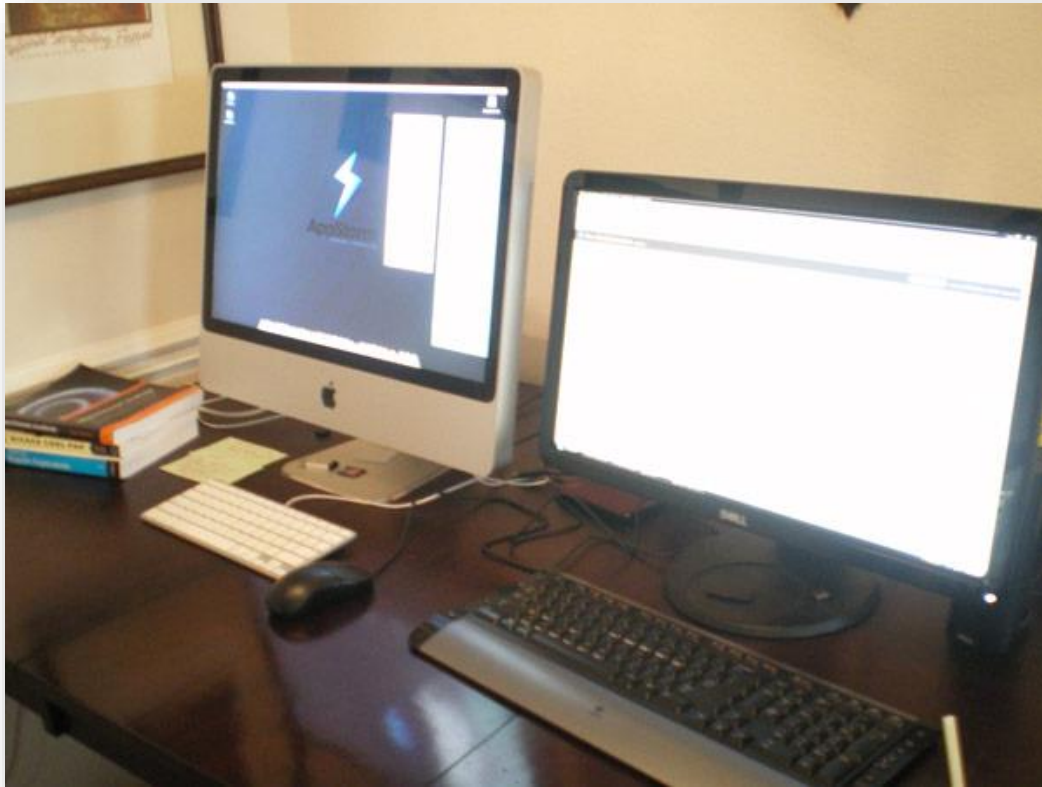
# This is NOT Pair Programming



*Pair Programming is not about mentoring*



# Our Configuration



- Use two PCs
- One PC is for the driver to type code
- The other PC (optional) is for the navigator to open the lab instructions, find info, etc.
- All coding tasks are done only on one computer

# Build the UI for the Whatsapp clone by adopting Pair Programming Strategy

## Find your own partner

## Switch roles between your partners periodically (e.g. every 10-15 minutes)

*Follow the tutorial from lecture slide #3a:*

**Getting Started with Flutter**

# Preparing the Tutorial

1. Open Git Bash
2. Clone my github repo (*command below should be in one-line*)  

```
git clone https://github.com/jumail-utm/flutter_whatsapp_ui
```
3. Move to the project directory  

```
cd flutter_whatsapp_ui
```
4. Go to any commit on the master branch and create a new branch to start editing. The following command will create a new branch from the commit "Add TabBar"  

```
git checkout 09bb5da -b playground
```
5. Open the source code into VS Code (*don't forget the dot*)  

```
code .
```