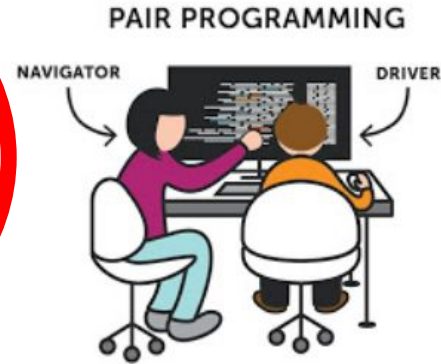


# What is Paired Programming

A collaborative code/tech development tactic where individuals work in pairs to write code.

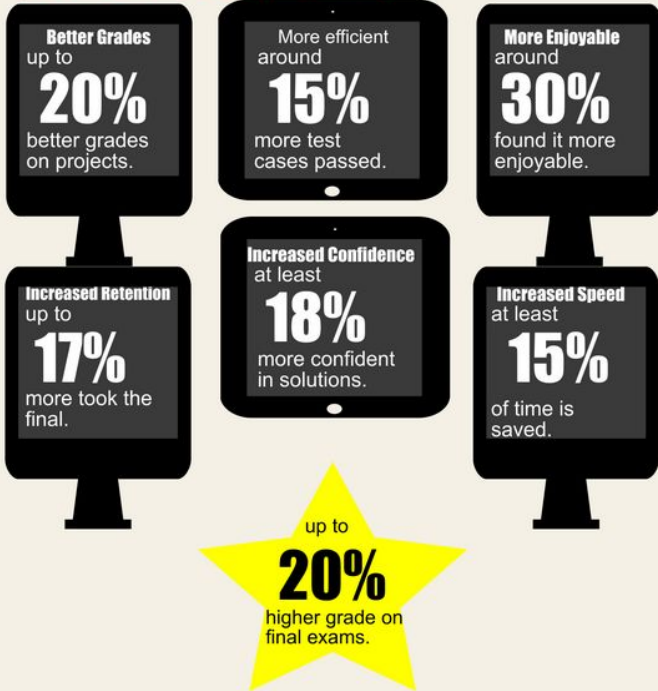


# Pair Programming

## Why it's so useful

Pair Programming is a style of programming where two people work at one computer. One person is coding, while the other one is the "higher thinker", which means they think of how the code will work and how to help implement it. This style is becoming much more common, and here's why!

## Pros of Pair Programming



# OUTCOMES

- More confident coders
- catch more errors
- more secure, and efficient for redundancies
- more group buy-in
- fun & creative

# Paired Programming successes

*All I Really Need to Know About Pair Programming I Learned in Kindergarten*  
by Laurie A Williams, Robert R Kessler

**“...results demonstrate that two programmers working together are more than twice as fast and think of more than twice as many solutions to a problem as two working alone, while attaining higher defect prevention and defect removal, leading to a higher quality product.”**

# Paired Programming successes

*All I Really Need to Know About Pair Programming I Learned in Kindergarten*  
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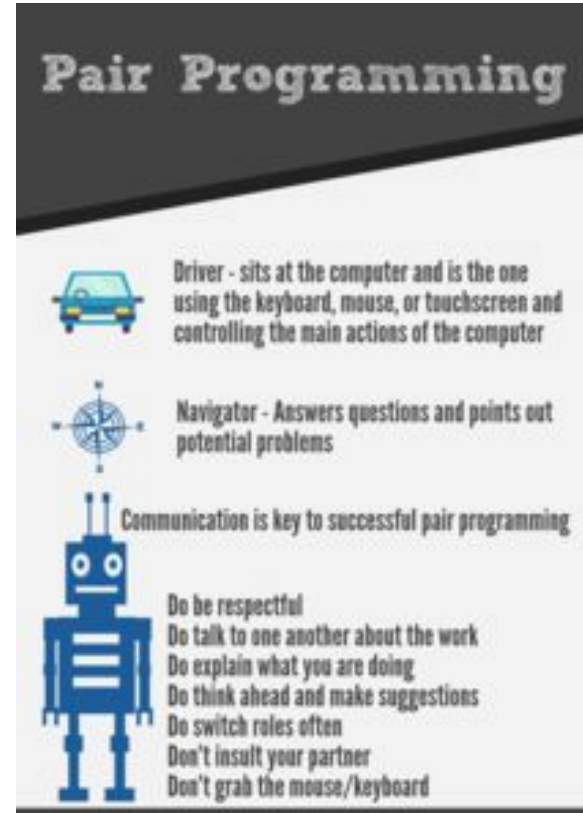
**One Respondent: “I strongly feel pair programming is the primary reason our team has been successful. It has given us a very high level of code quality (almost to the point of zero defects). The only code we have ever had errors in was code that wasn't pair programmed ... utilized.”**

# Paired Programming's “K” principles

- Share Everything
- Play Fair
- Don't Hit (or be mean) to Partner
- Put Things Back Where They Belong
- Clean Up Your Mess
- Don't Take things (like mistakes) Too Seriously
- Be Nice, And Say 'I'm sorry'

# Paired Programming's “K” principles

- Trust your Partner
- Take Breaks (Cookies & Milk)
- Have Fun, when you can
- Don't Hog Your Friends/Partners
- When Crossing the Street, Hold Hands + Buddy System
- Two Brains > One Brain



# How to Do it

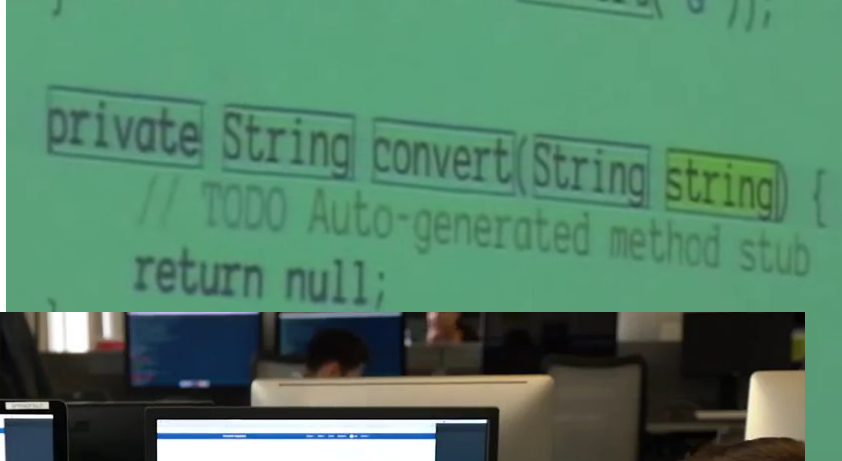
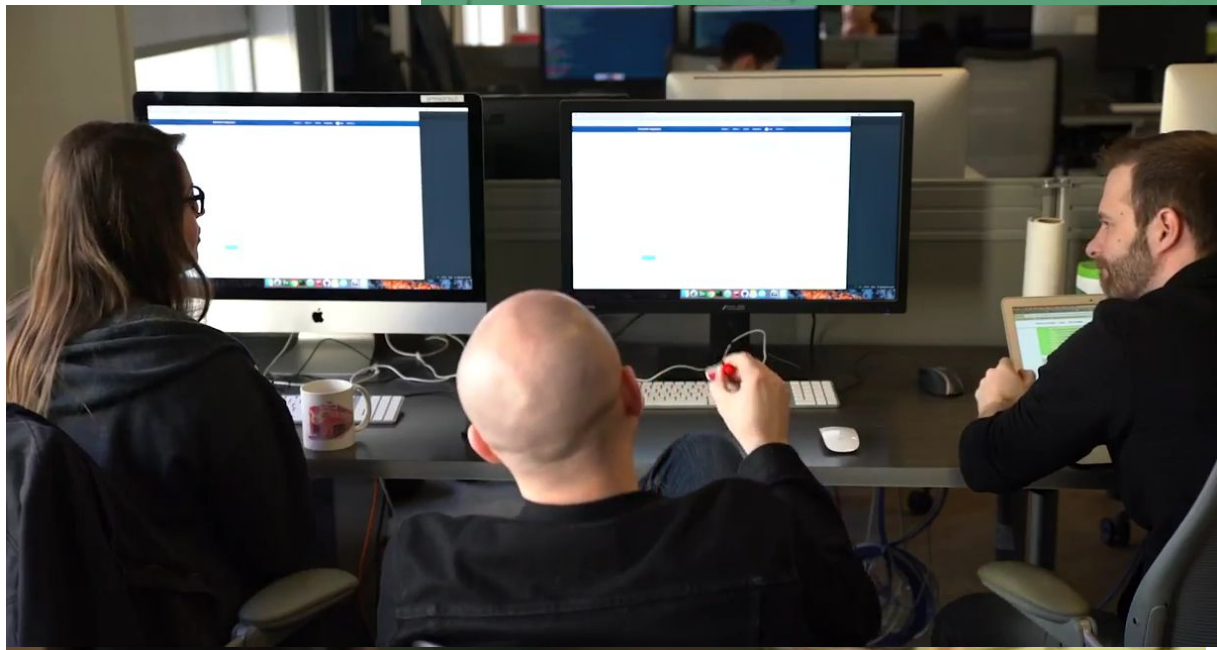
- Nav & Driver
- Decide on Goals
- Decide on Rules/Turns
- Navigator asks q's
- Driver narrates route
- Talk Everything Thru
- Be Patient, Don't Grab



```
private String convert(String string) {  
    // TODO Auto-generated method stub  
    return null;  
}
```

# Right for Everyone?

- Not all the time
- Need breaks
- Not necessarily everyday
- Know Thyself
- That said...





# Personality Traits?

*Investigating the effects of personality traits on pair programming...*

Salleh et al *Empirical Software Engineering* June 2014, Volume 19, Issue 3

“Overall, our findings for all five experiments, including the replication, showed that Conscientiousness and Neuroticism did not present a statistically significant effect upon paired students’ academic performance. However, Openness played a significant role in differentiating paired students’ academic performance.”