

Todd Merritt



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- Over 16 years of Development Experience
- Over 6 years Pair Programming Experience
- Worked with Small Startups to fortune 500 companies
- Interests:
 - App Design/Development
 - Database Development
 - DevOps Sometimes

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Disclaimers:

(Pairing =)

(Pairing ==



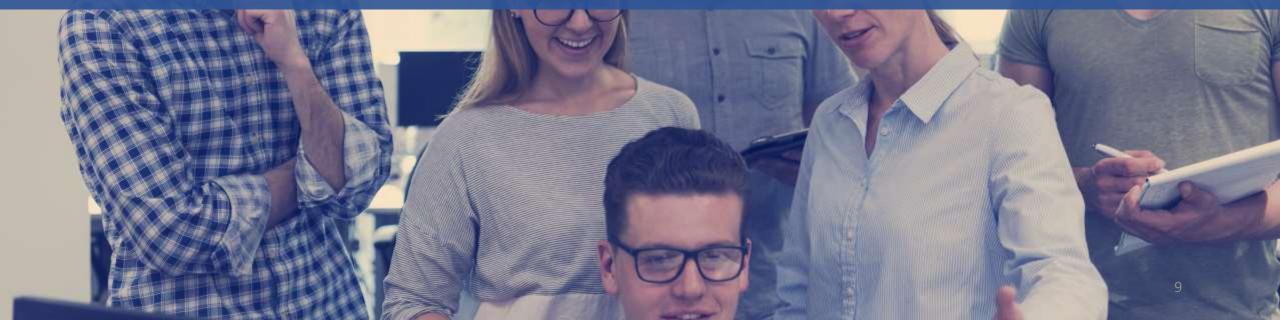
WHEN YOU DON'T PAIR

It makes pandas sad

Assumptions:



Coding Is Social







The speed of programming is limited by thought not typing

```
(typeof(Programming) == "Work")
```

(Pair Programming == Pair Working)



The speed of WORK is limited by the speed of thought



Pairing is not just for Programming



Pair Programming is a development technique where two programmers work together at the same work station at the same time.

Pair Programming

((Programmer x 2) + WorkStation + Discussion)

Benefits of Pairing

- Collective Code Ownership
- Team Building
- Reduction in Calendar Time
- Knowledge Transfer
- Focus on Quality over Quantity

- Prevents Silos
- Constant Code Reviews
- Quick Turnaround on Feedback
- Prevents Technical
- Reduces Poor Programming Practices

Ideal Pairing Partner

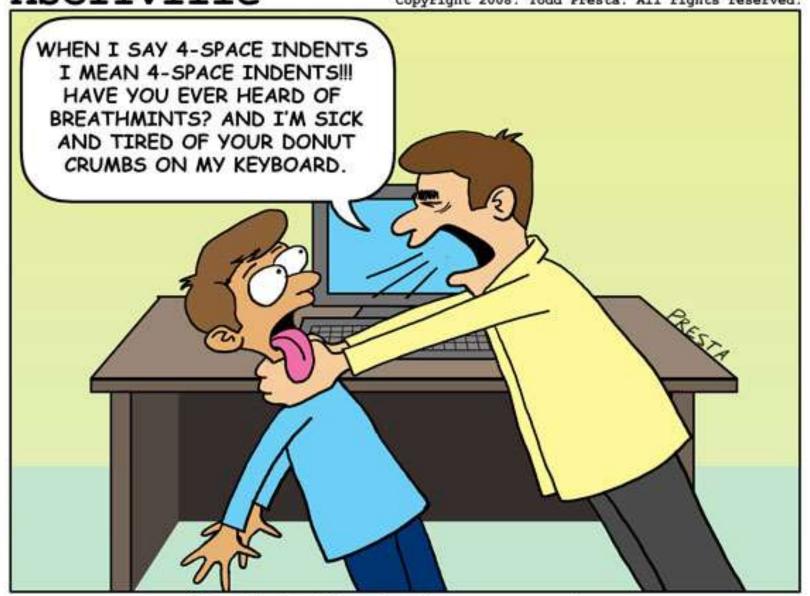
- Good Communicator
- Willingness to Fail
- Asks Good Questions
- Accepts Productive Criticism

- Controls Ego
- Similar Schedules
- Trusts Partner

Potential Issues with Pairing

- Personal Space
- Cultural Misunderstanding
- Scheduling
- EGO/Attitudes

- Change Resistant
- Control Freak
- Lack of Communication



The dark side of pair programming.

Things to Discuss when Pairing

- Logic
- Design
- Refactoring
- Naming

- Order of Operation
- Requirements
- Anything related to System

When to Pair





Mission Critical Systems





Shared Code\Libraries





Knowledge Transfer / Mentoring



Onboarding Team Members

Common Reasons to Pair

- Fewer Defects
- Simpler Designs
- Faster Problem Solving
- Rapid Feed Back

- Knowledge Transfer
- Better Communication
- Enjoyable

When Not To Pair

- Simple Tasks
- Non-Production Code Spikes
- Partner Is Sick (Only Pair Virtually)

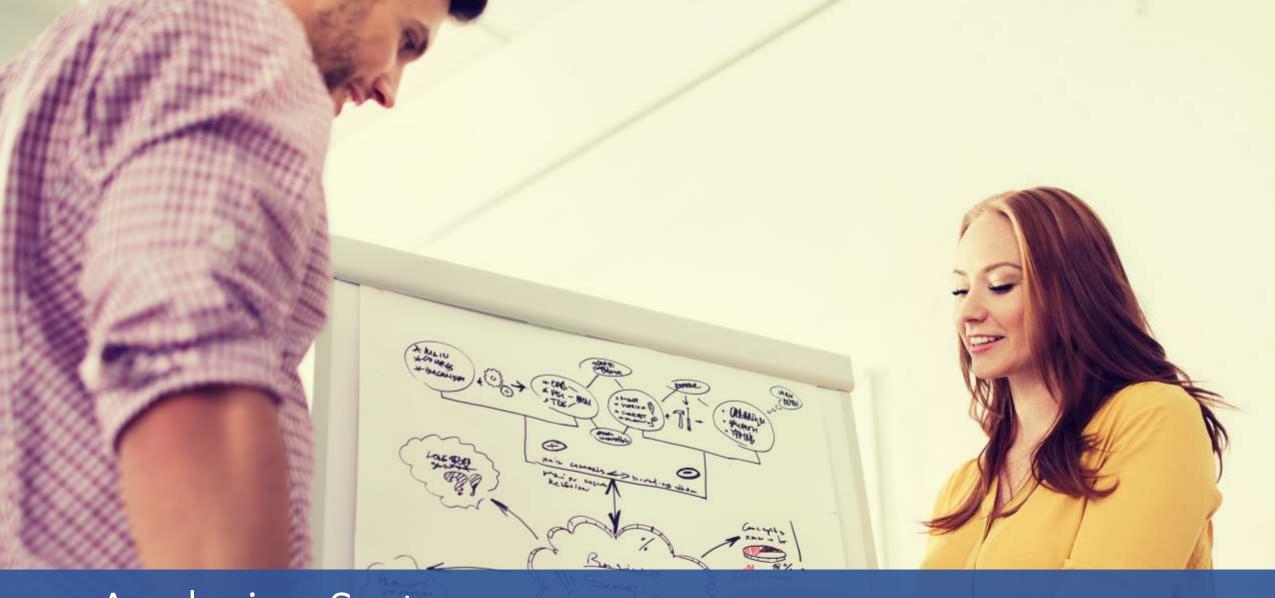




Code Reviews



System Architecture Design



7 Every

Analyzing Systems



Mentoring

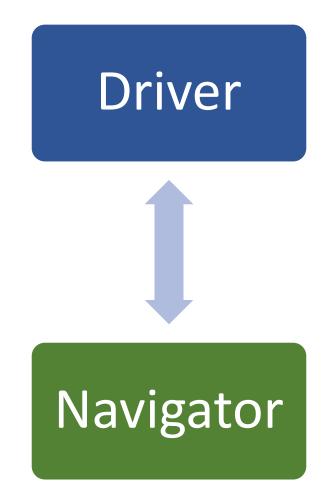


New Technologies and Methodologies

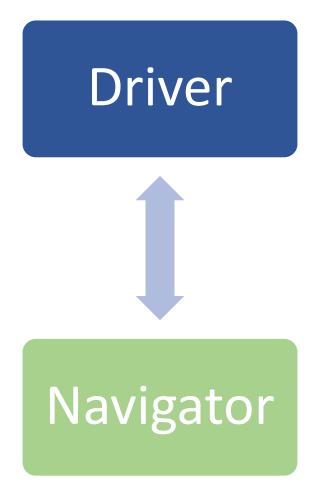




Pairing Roles

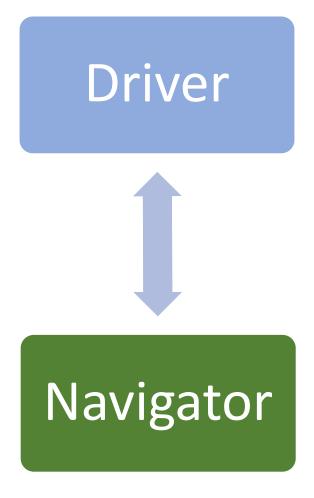


Pairing Roles



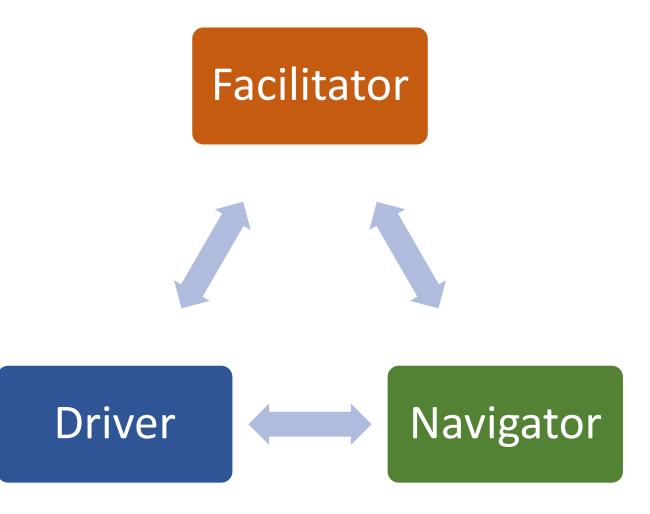
- Controls Keyboard and Mouse
- Discuss Ideas and Concepts being coded
- Constantly communicating with Partner

Pairing Roles

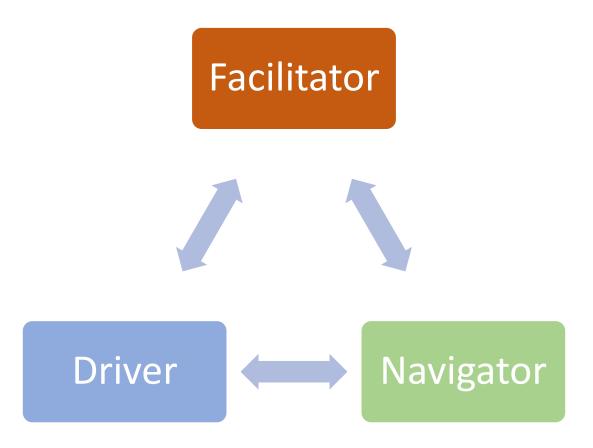


- Reviews Code
- Thinks Big Picture
- Discuss Ideas and Concepts being coded
- Constantly communicating with Partner

Asynchronous Pairing Roles



Asynchronous Pairing Roles



- Performs sub tasks related to the primary development task.
- Constantly communicating with Driver
- Constantly communicating with Partner

Switching Roles



Time Box Switching



Ping Pong Switching



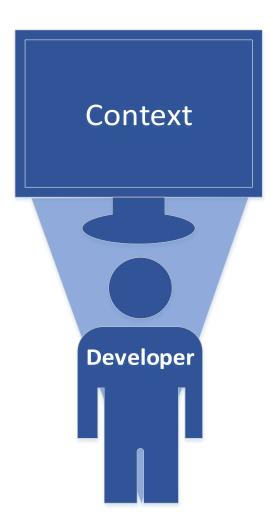
Ad Hoc Switching

Pairing Styles



Unpaired

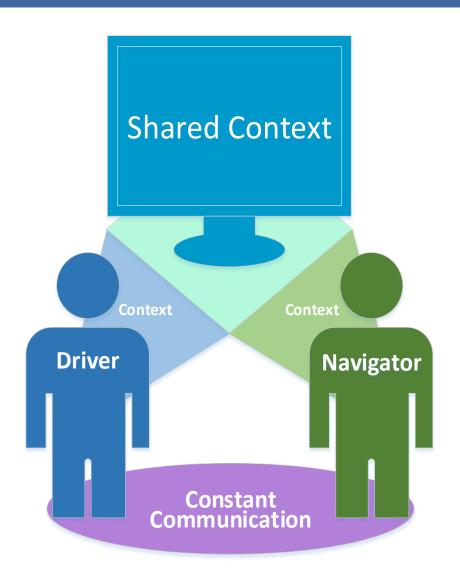
Unpaired





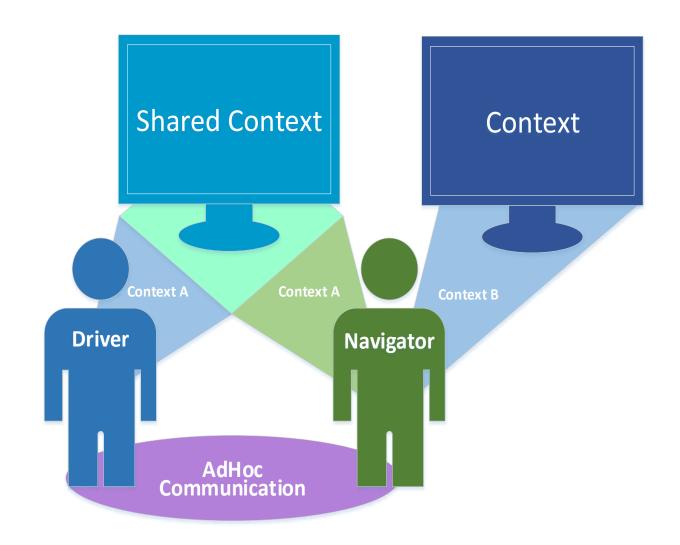
Standard Pairing

Standard Pairing



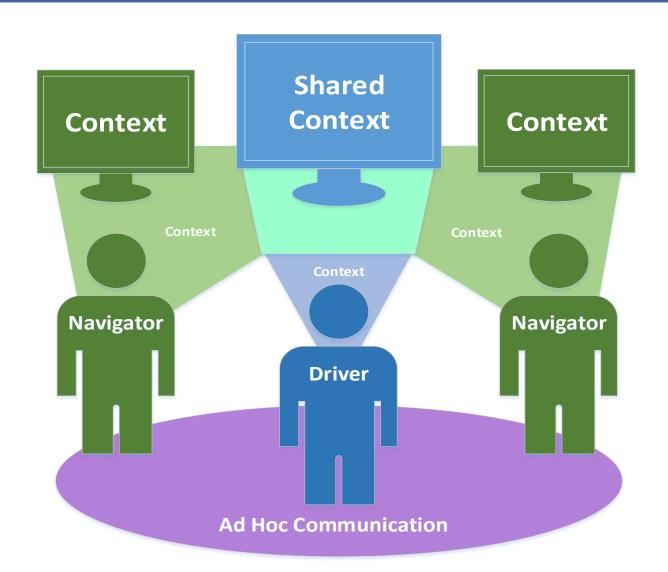


On Demand Pairing





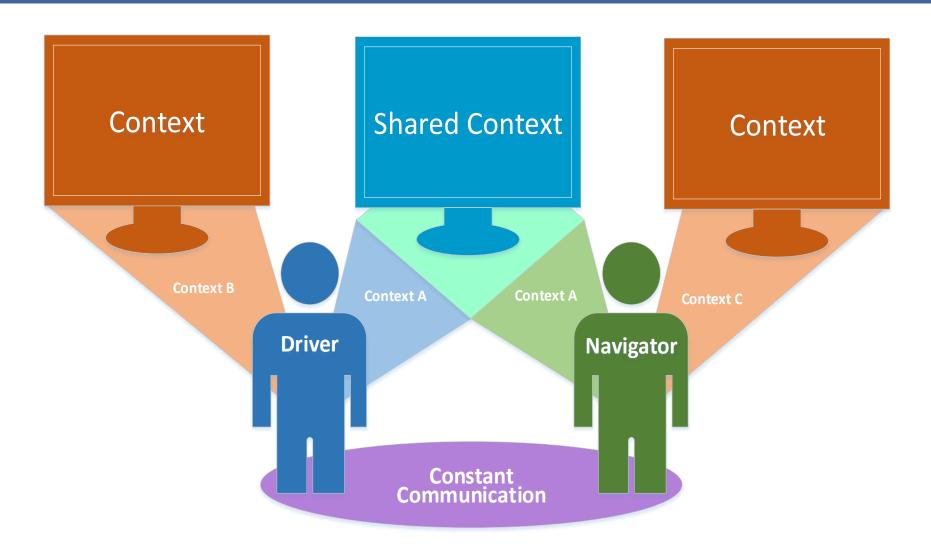
Mob Pairing



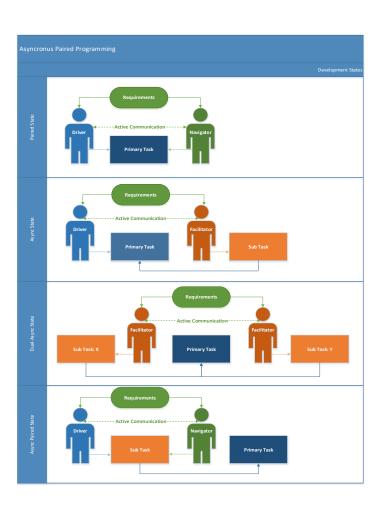


Asynchronous Paring

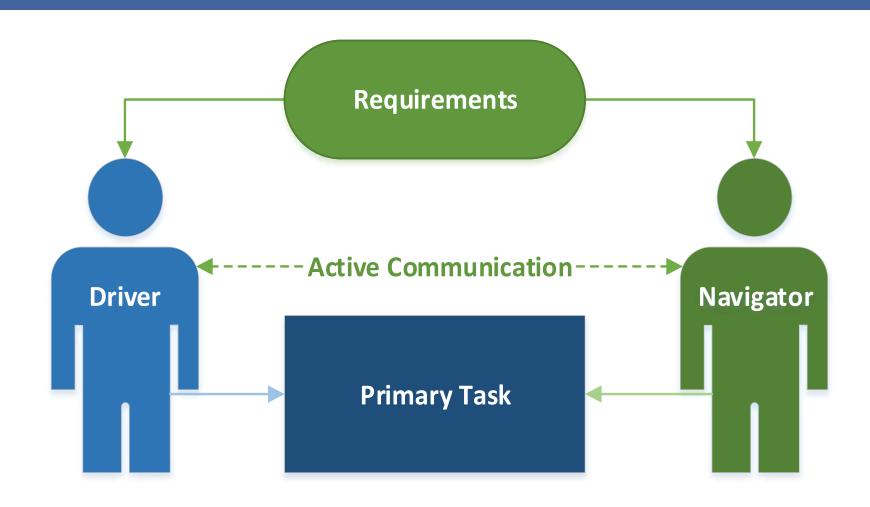
Asynchronous Pairing



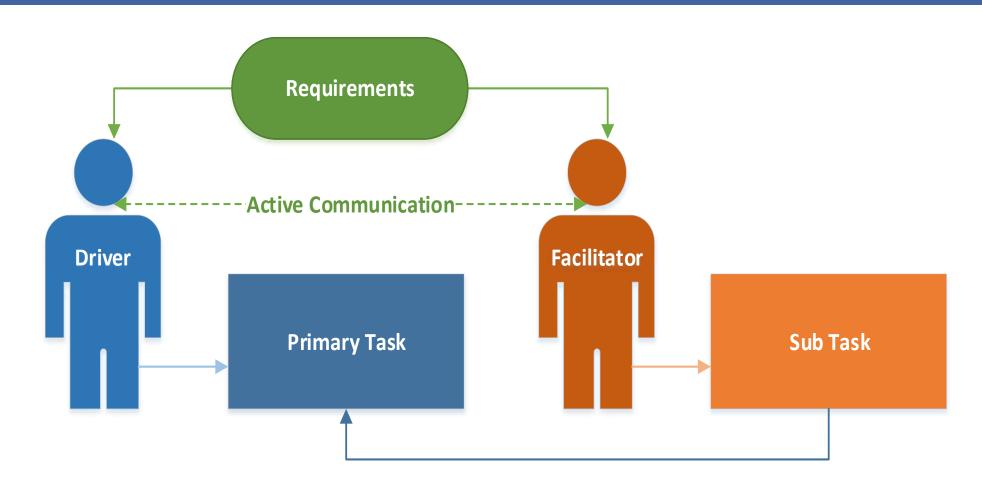
Asynchronous Pairing States



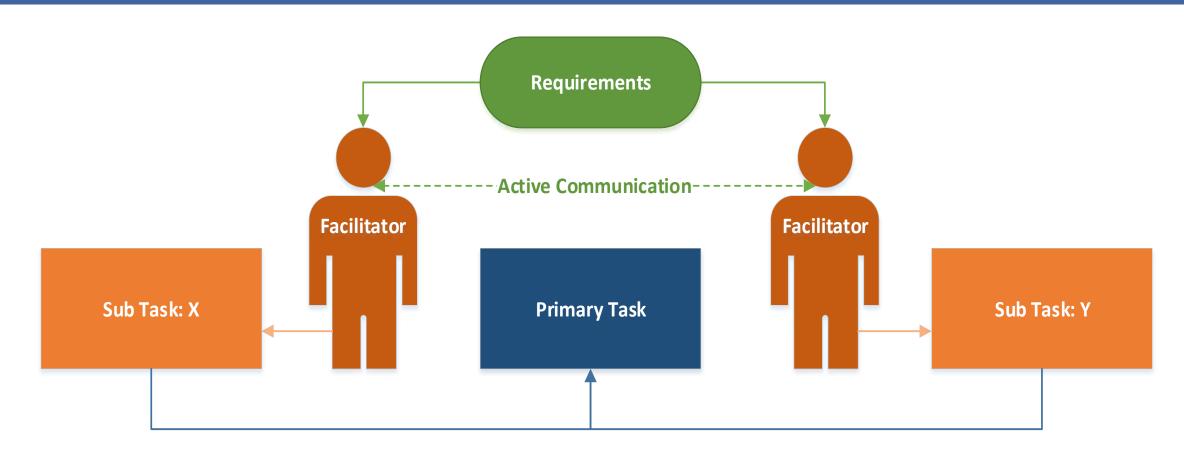
Paired State



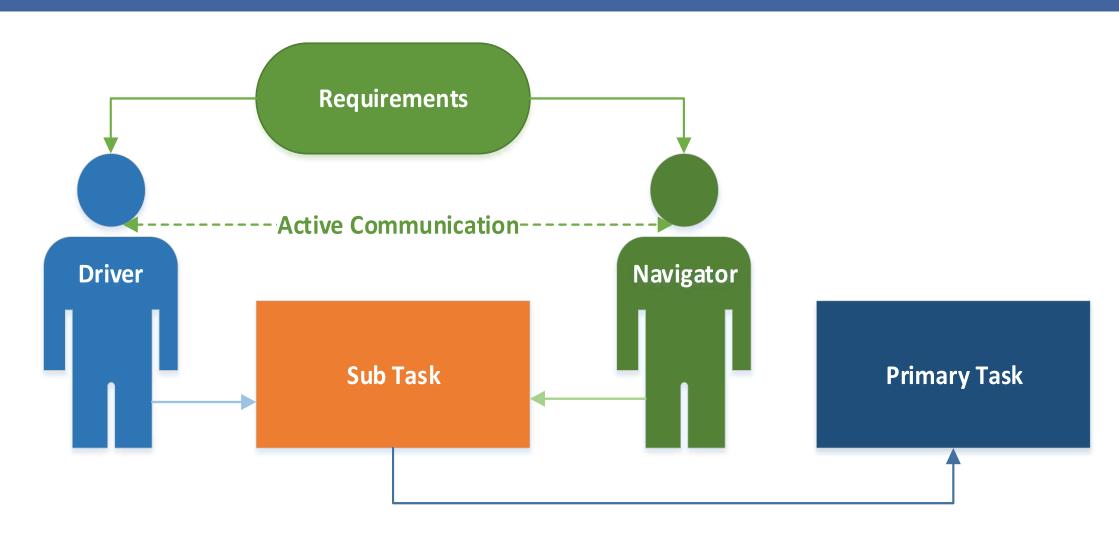
Async State



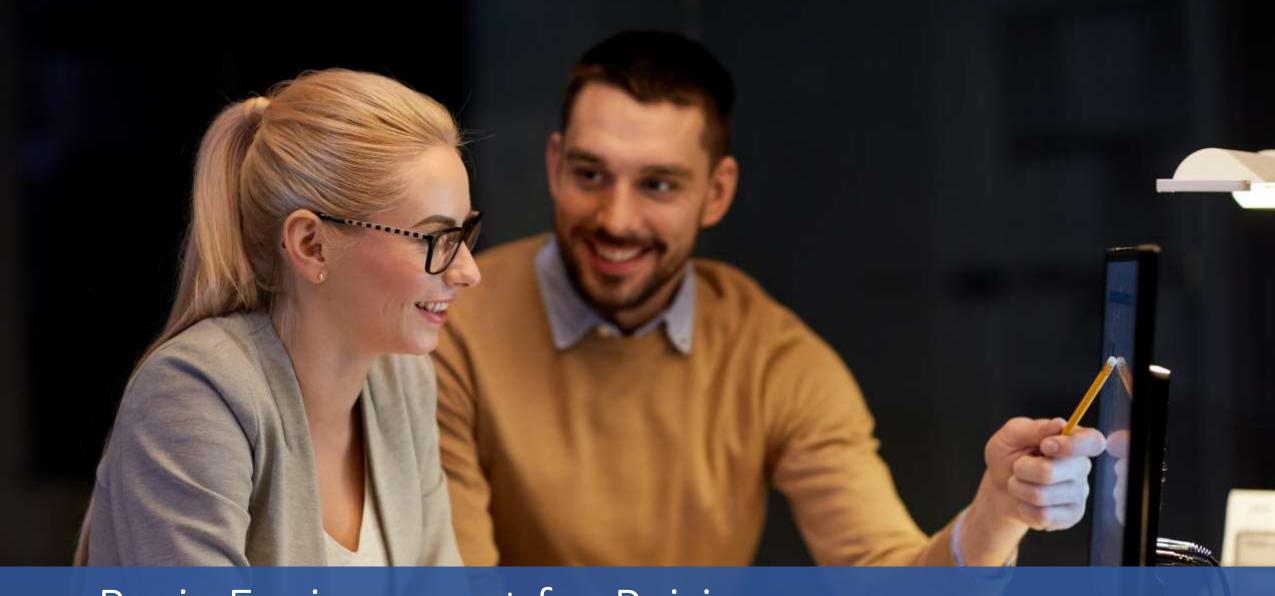
Dual-Async State



Async Paired State



Pairing Environment Setup



Basic Environment for Pairing



Basic Environment for Each Asynchronous Pairing Partner



(Pairing =)

(Pairing ==

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