

SEO Tech Developer Residency

Week 1:

Collaborating on Code:

Pair Programming

JULY 1st, 2022

Presented by:
Dr. Sonia Mitchell



Welcome

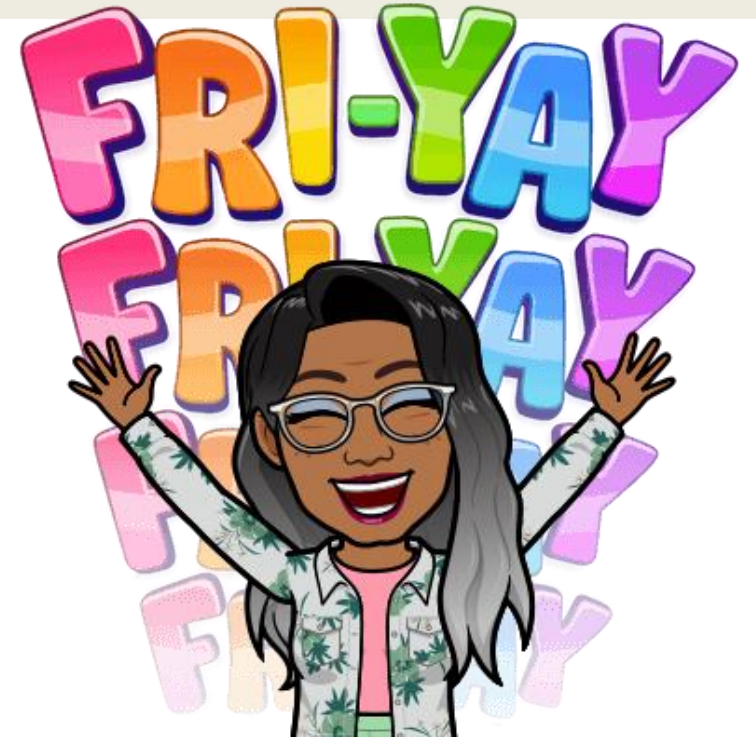
- *SEO Lead Software Engineer Instructor*
Dr. Sonia Mitchell

Office Hours

Mondays, Wednesdays, Thursdays & Fridays

9a.m. - 10:00a.m. EST

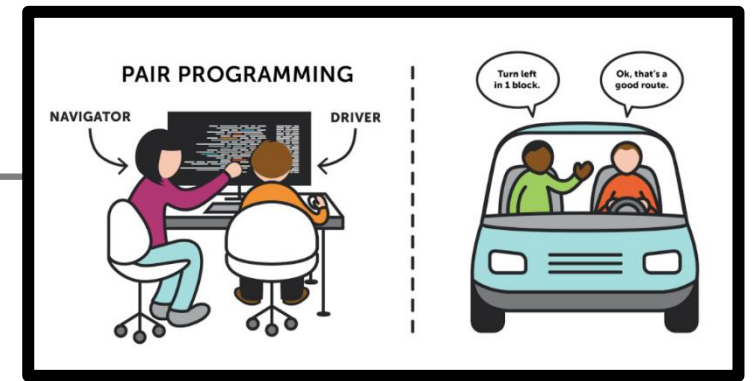
Email: Sonia.Mitchell@seo-usa.org



SEO Seizing
Every
Opportunity



What is Pair Programming?



- Also known as **Extreme Programming (XP)**
- Both developers sit at one computer
- Each person assumes a role and the roles should be switched often

Driver:

- Controls the mouse and keyboard
- Speaks thoughts and actions out loud

Navigator:

- If you're in a group of 3, there should be two navigators

- Refers to resources (i.e. API documentation)
- Makes suggestions
- Catches errors

There should be A LOT of talking!

What is Pair Programming?

DRIVER	NAVIGATOR
<ul style="list-style-type: none">•Types on the keyboard•Listens to the advice from the navigator	<ul style="list-style-type: none">•Makes suggestions for what the driver should do•Keeps an eye out for potential problems.

In **pair programming**, two programmers are working together to solve a problem with code on one computer or IDE platform.

Let's watch this short video

Pair Programming Expectations

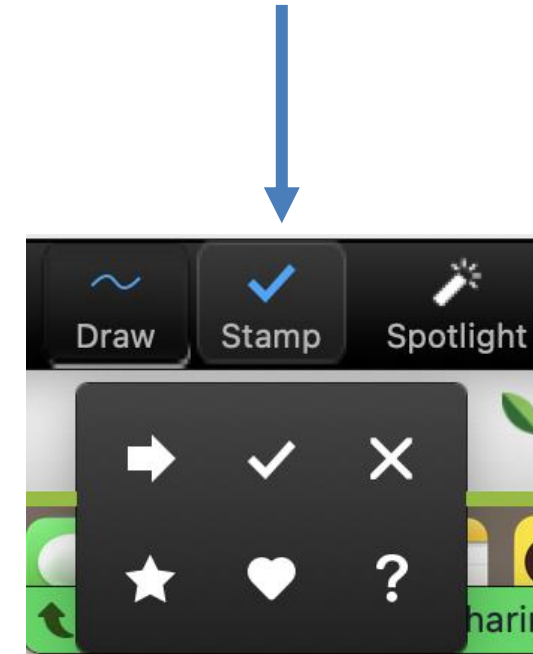
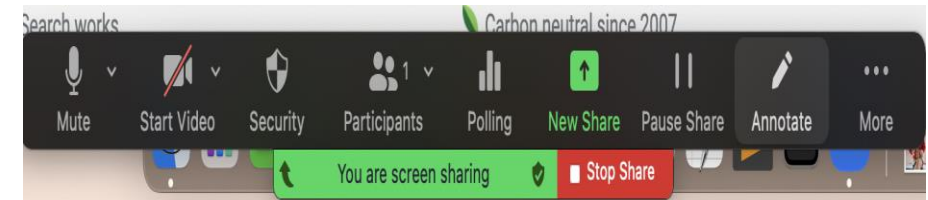
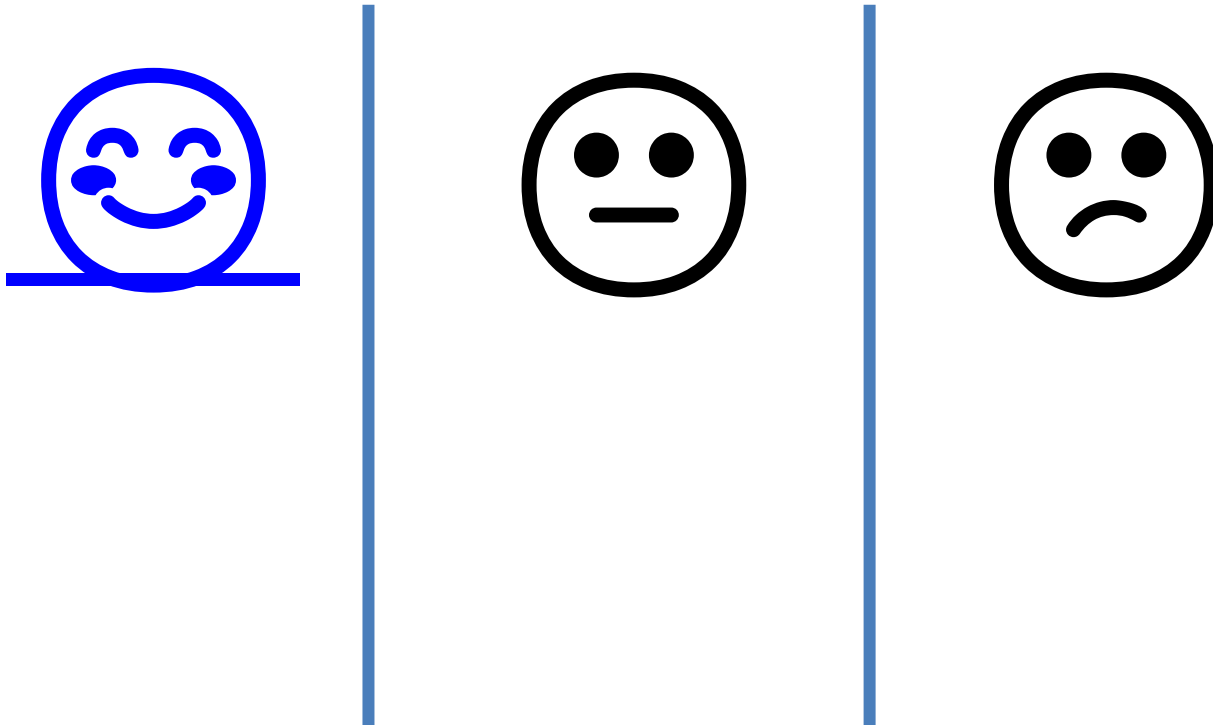
- ☐ Be respectful of each other and each other's ideas.
- ☐ Navigator makes suggestions and finds any errors
- ☐ Driver listens to navigator's suggestions and explains what they're doing.
- ☐ Partners patiently explain things to each other when someone is confused or doesn't understand something.



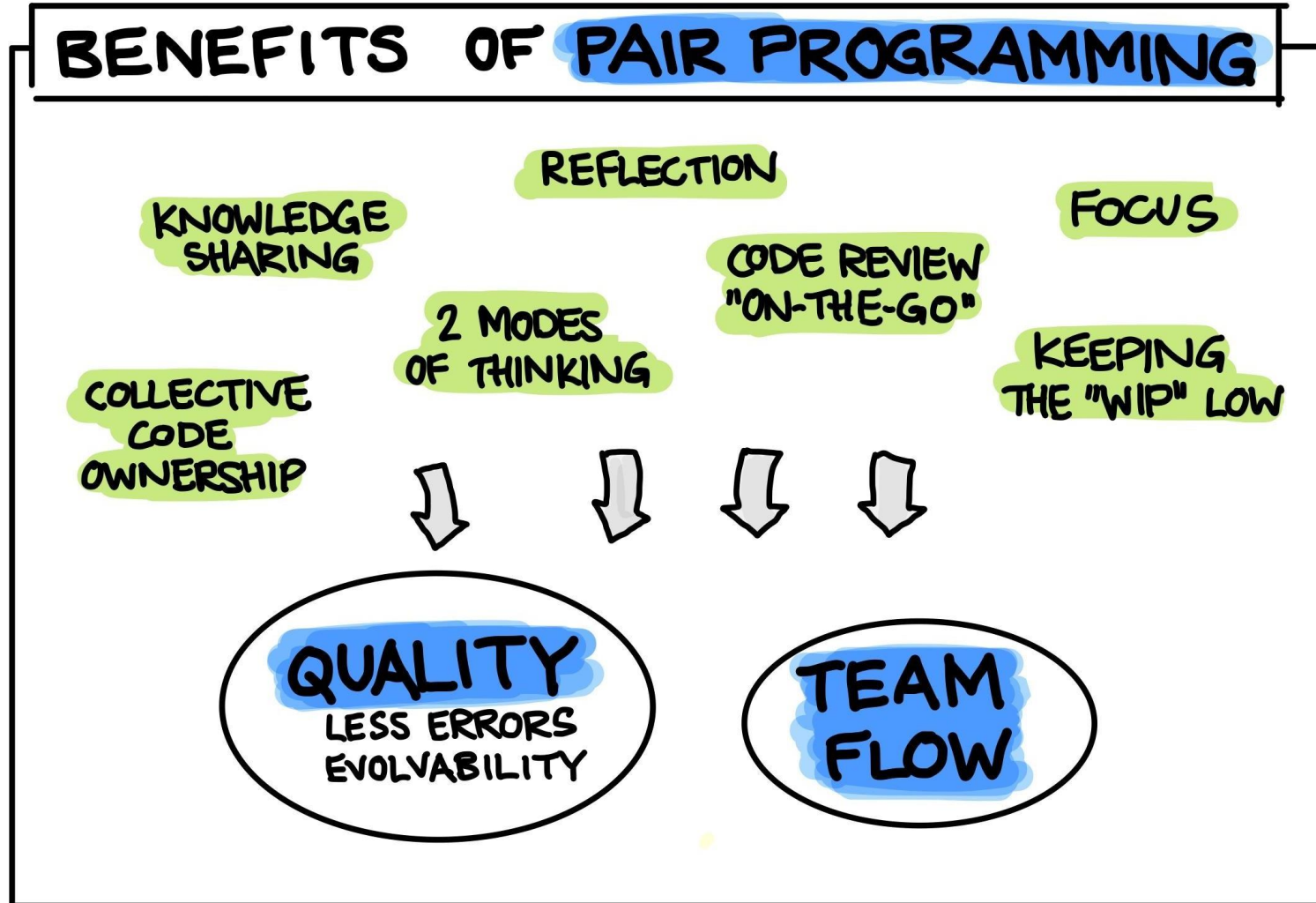
LEARNING TEMPERATURE CHECK



Add a stamp to how you are feeling about the lesson so far. You can access the stamp tool by clicking *Annotations* in the top Zoom toolbar, then selecting a stamp.



Why Pair Program?



Today's Activity

1. Create a Codio project for you and your project partner (or group).
 2. Set up a GitHub repo for your project and add your partner(s) as collaborator(s).
 3. Start working on your project while practicing pair programming.
- You will go into your TA's breakout room and work on the activity.
 - Feel free to work with others in your room and ask questions of the group.
 - The TA is there to assist you. If you want to ask me a question, come back to the main zoom room.

Pro Tip: Organization

1. Download reference slides
2. Keep your files organized
 - Use meaningful folder names
 - Do not put everything on your Desktop or Downloads folder
3. Split your screen so you can view references and program at the same time (much better than flipping between tabs or programs)

Thank You! Q&A

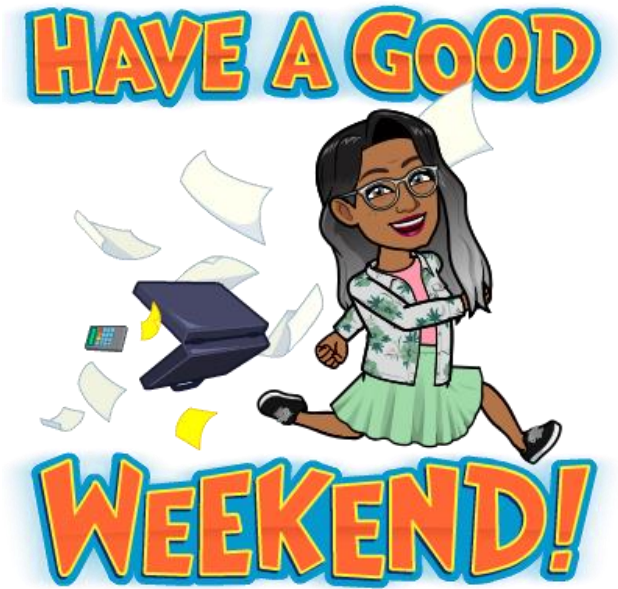
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