MOB PROGRAMMING

COLLABORATIVE CODING

RAINBOWFISH TECH COLLAB

WORKSHOP

MOB PROGRAMMING

- method for teams of developers to collaborate in real-time
- focus on one task at a time
- usually 3 to 6 developers

ROLES

Navigator

- directs the **driver** on code changes
- decides the next set of changes
- leads discussion with the **group**

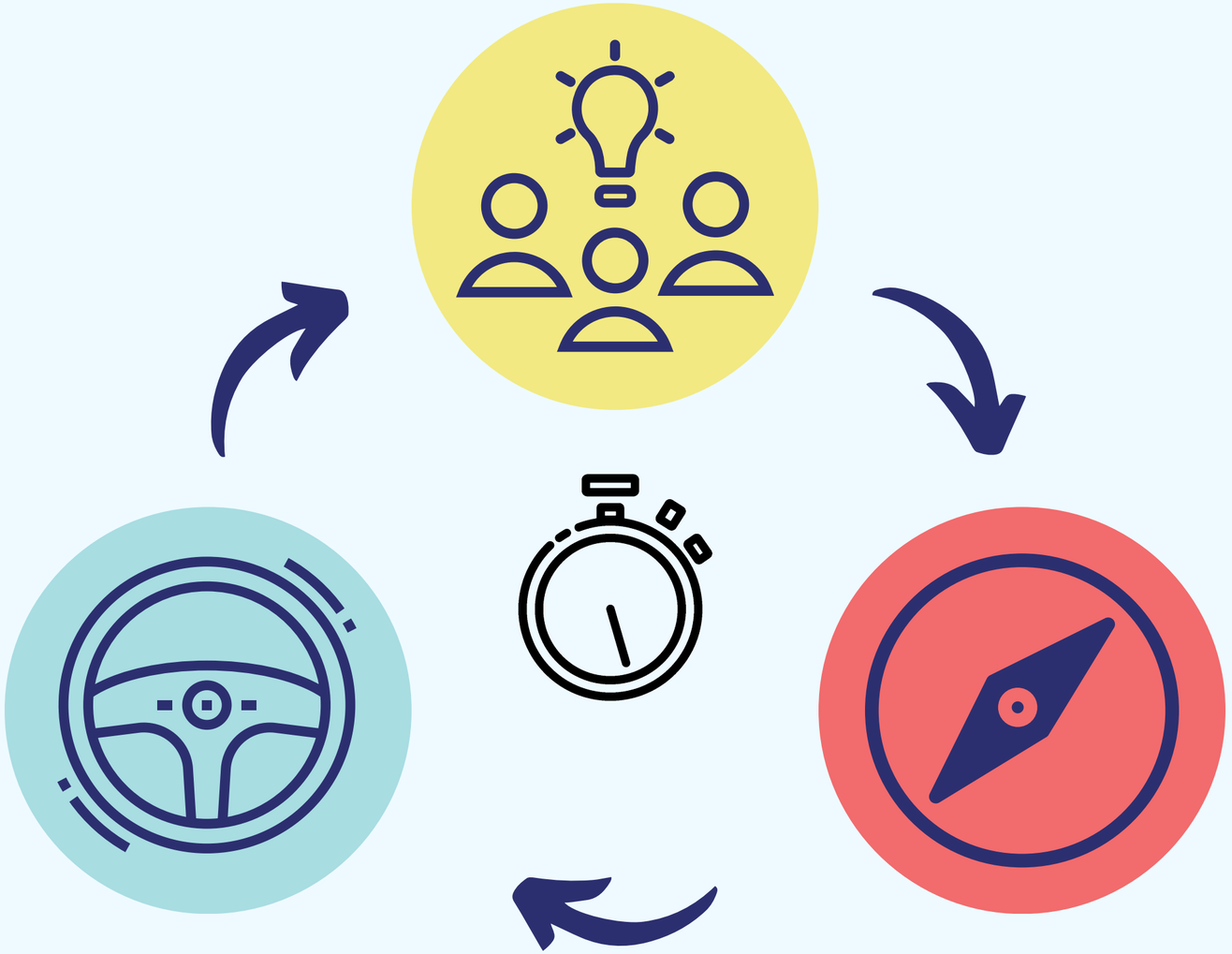
Driver

- operates the keyboard
- implements the directions given by the **navigator**

Group

- follows along with code changes
- contributes to discussion when prompted by **navigator**

ROTATION



EXAMPLE

Navigator: We need to create a function that returns A "Hello, World!" string. Driver, please start by creating a function called "helloWorld".

Driver: Ok. Like this?

Navigator: Yes, thank you. Now, lets have it return an empty string.

Driver: How do I do that?

Navigator: After the opening curly bracket, type "return", space, 2 single quotes, and a semicolon.

```
function helloWorld() {
    return ‘’;
}
```

BENEFITS

knowledge sharing

faster feedback loops

collective code ownership

CHALLENGES

no time to contemplate ideas

no space to deep dive

slow programming

TIPS

1. Use clear and direct communication
    - high-level intention = low details
    - low-level intention = high details
2. practice active listening
    - acknowledge what was said
    - make others feel heard and understood
3. ask questions
    - support each other
    - learn and grow together

Comfort Zone

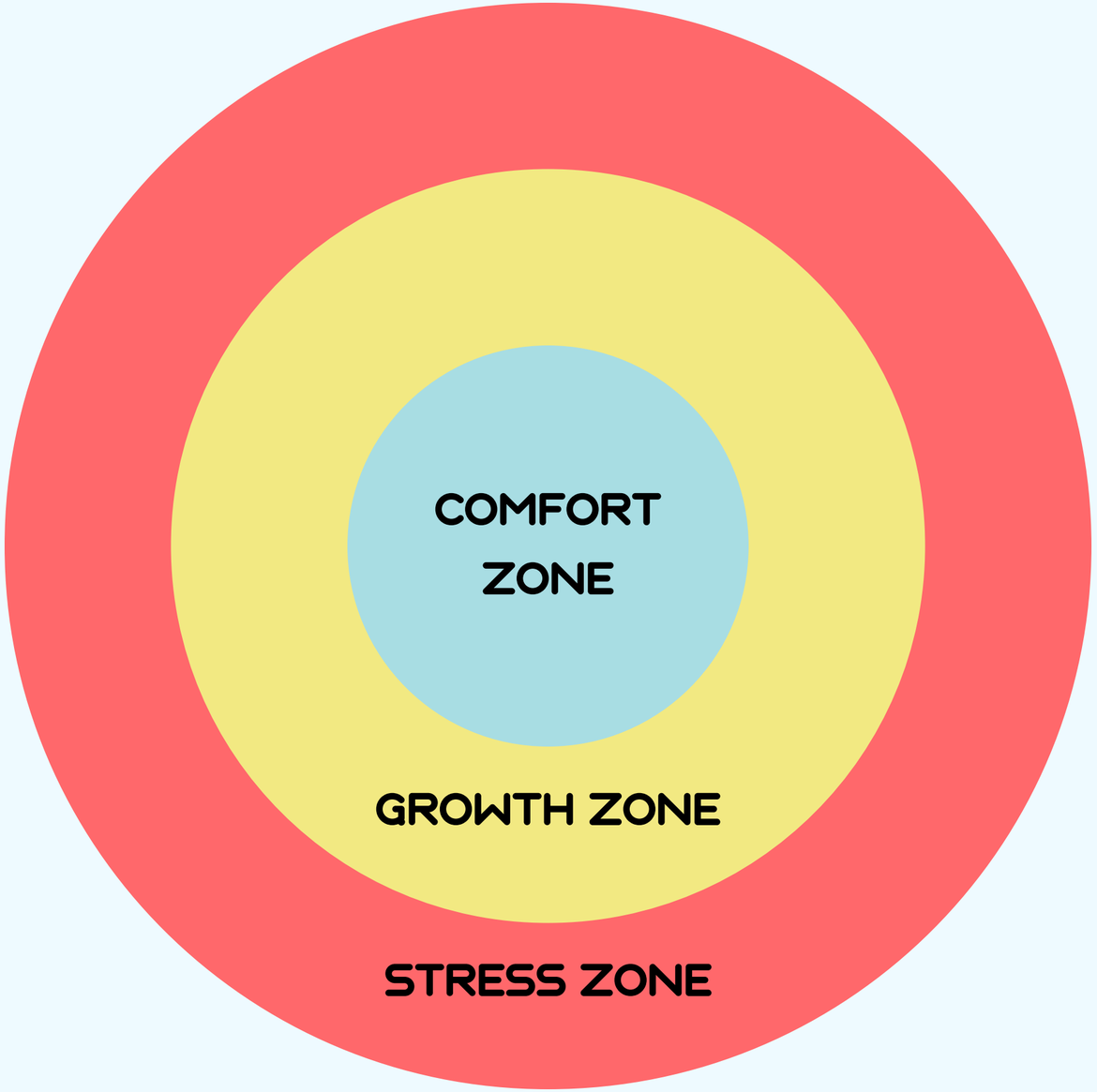
- stable
- secure
- safe place to reflect

Growth Zone

- challenging
- exciting
- where you learn and grow

Stress Zone

- overwhelming
- frustrating
- unable to learn



DOES ANYONE HAVE ANY QUESTIONS?

UNIT TESTING

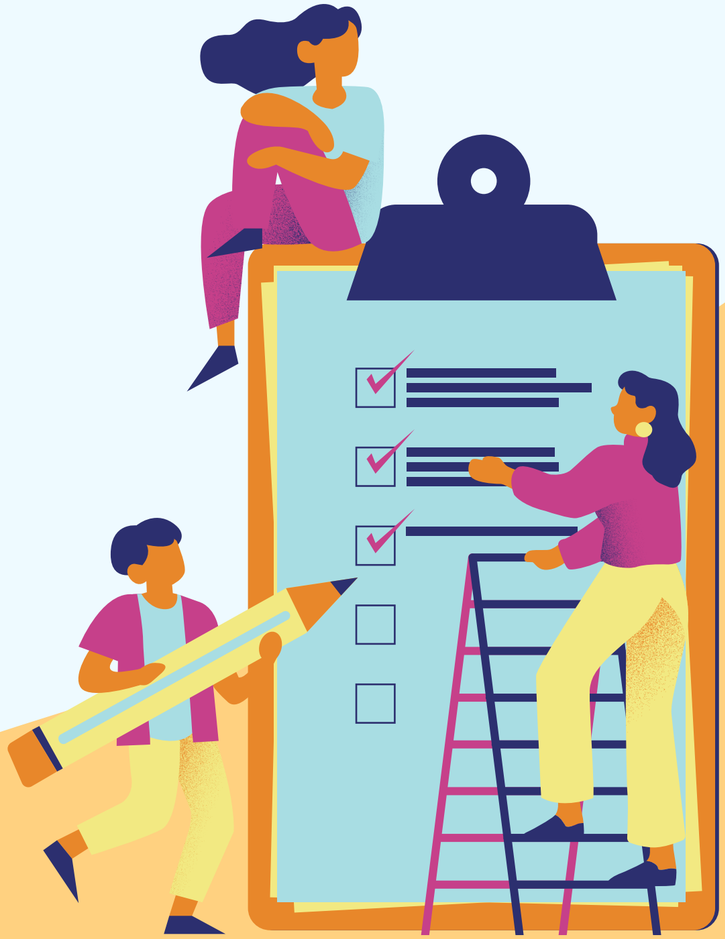
- process of testing the smallest parts of your code to make sure they work correctly
- helps identify bugs early in the development process
- essential part of Test-Driven Development (TDD)

TEST DRIVEN DEVELOPMENT (TDD)

Software development technique
where you write tests before code

Red-Green-Refactor:

1. Write failing test
2. Write just enough code to make the test pass
3. Refactor the code
4. Repeat



TOOLS

- VS Code
- Live Share (VS Code extension)
- Mob Time
- JavaScript
- Test Driven Development (TDD)

CHALLENGE: FIZZBUZZ

https://github.com/kimbechong/fizzbuzz