TEST CODE IMPROVEMENTS

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FACTS ABOUT TESTING

- Ensure functionality
- Massive reduction of bugs
- 62,3% of developers write tests (2019)
- Unpopular

WORKFLOW

5 Methods (2 public)

multiple test methods

can be very difficult

PROBLEMS WITH TESTING

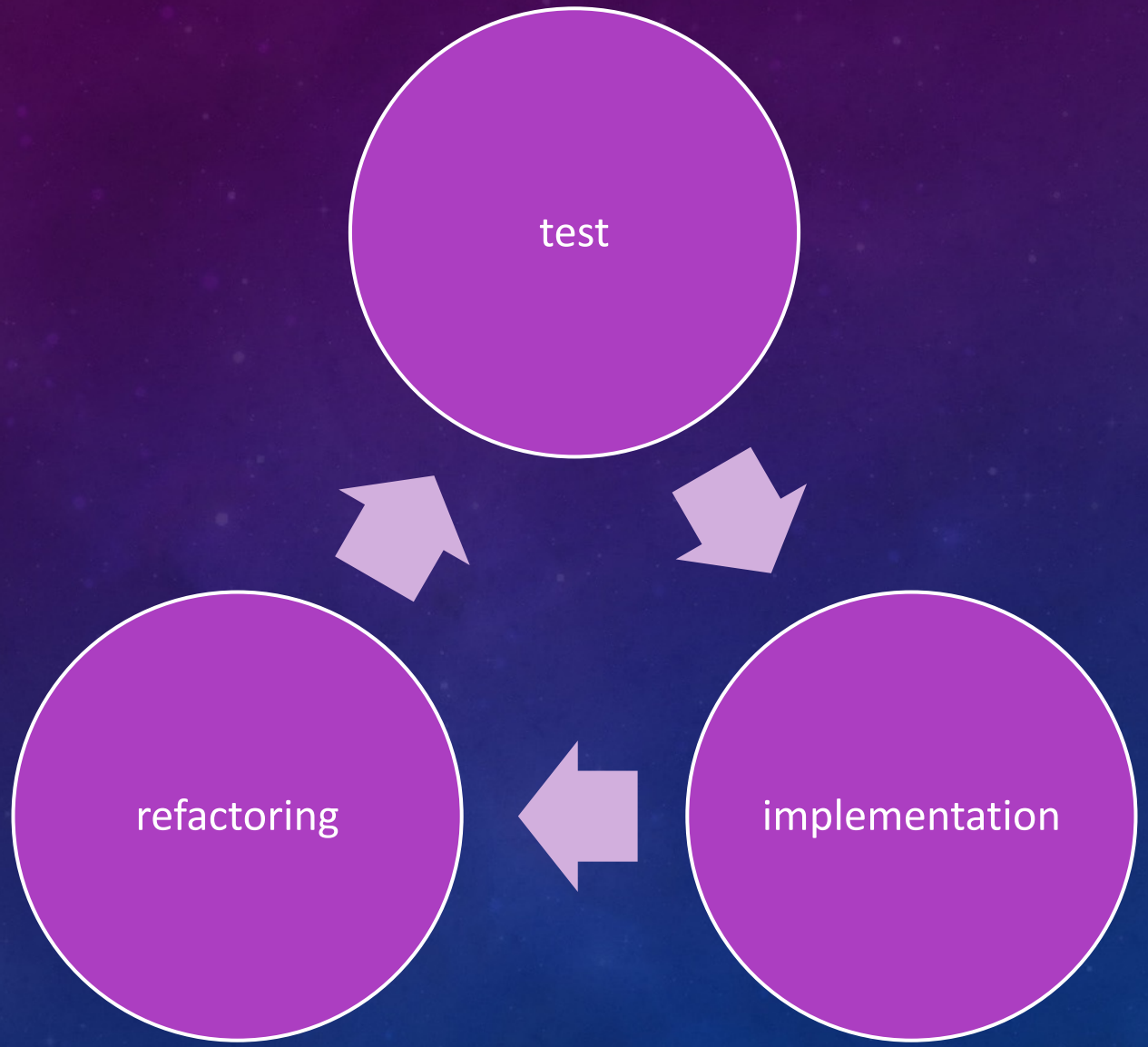
- Need extra work & time
- Hard to find names
- Not always usable or difficult
- Find the correct depth
- Focus on test coverage

=> less motivation

IMPROVEMENTS

- TDD
- IDE
- Micro commits
- Mob or pair

TDD – CYCLE



TDD - RULES

- Run the test always after created
- ✅ feature & ❌ implementation
- Always the least code to make the test green
- Assert -> actual -> arrange

TDD - BENEFITS

- Easier to write clean tests and code
- Gurarantees testable code
- Avoids too large steps
- The workflow of the developer is consistent
- Documents the code

IDE

- Shortcuts/hints
  - Variables
  - Methods
  - Classes
  - Executions
- Warnings
- Code formatting
- Git

MICRO COMMITS

- Commit after each step
- Mark the commits with an capital letter
  - F -> feature
  - T -> tests
  - R -> refactoring
- Clean commit history

MOB & PAIR

- More ideas
- Needs no review
- Sharing the problem

CONCLUSION OF THE IMPROVEMENTS

- Need extra work & time ✅
- Hard to find names ✅
- Not always usable or difficult ✅
- Find the correct depth ✅
- Focus on test-coverage ✅

THANK YOU!