

The background is a gradient of dark blue and purple, speckled with small white dots resembling stars. Overlaid on this are several faint, white, circular and semi-circular lines of varying thicknesses. Some of these lines have small arrowheads pointing in different directions, suggesting motion or a cycle. On the left side, there are larger circular patterns that look like protractor scales, with numerical markings such as 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, and 260.

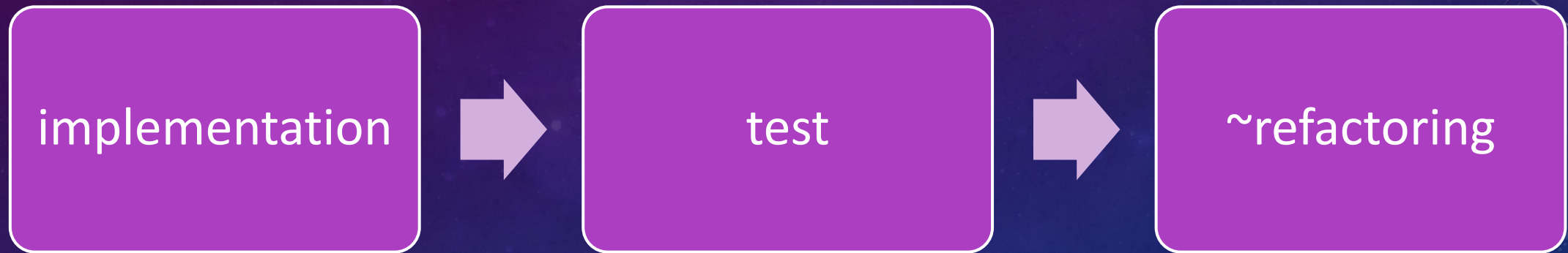
TEST CODE IMPROVEMENTS

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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

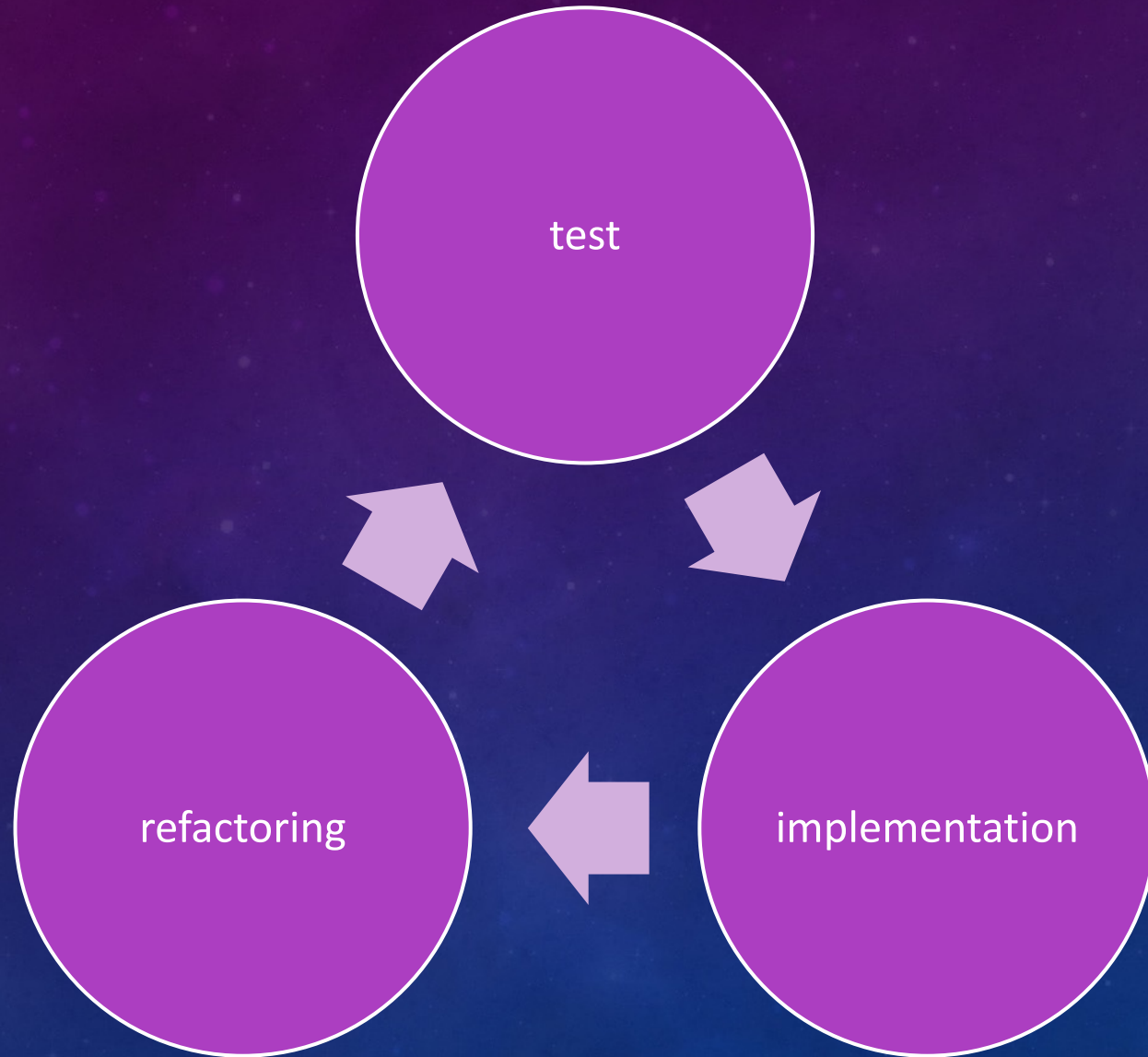
=> less motivation

IMPROVEMENTS



- TDD
- IDE
- Micro commits
- Mob or pair

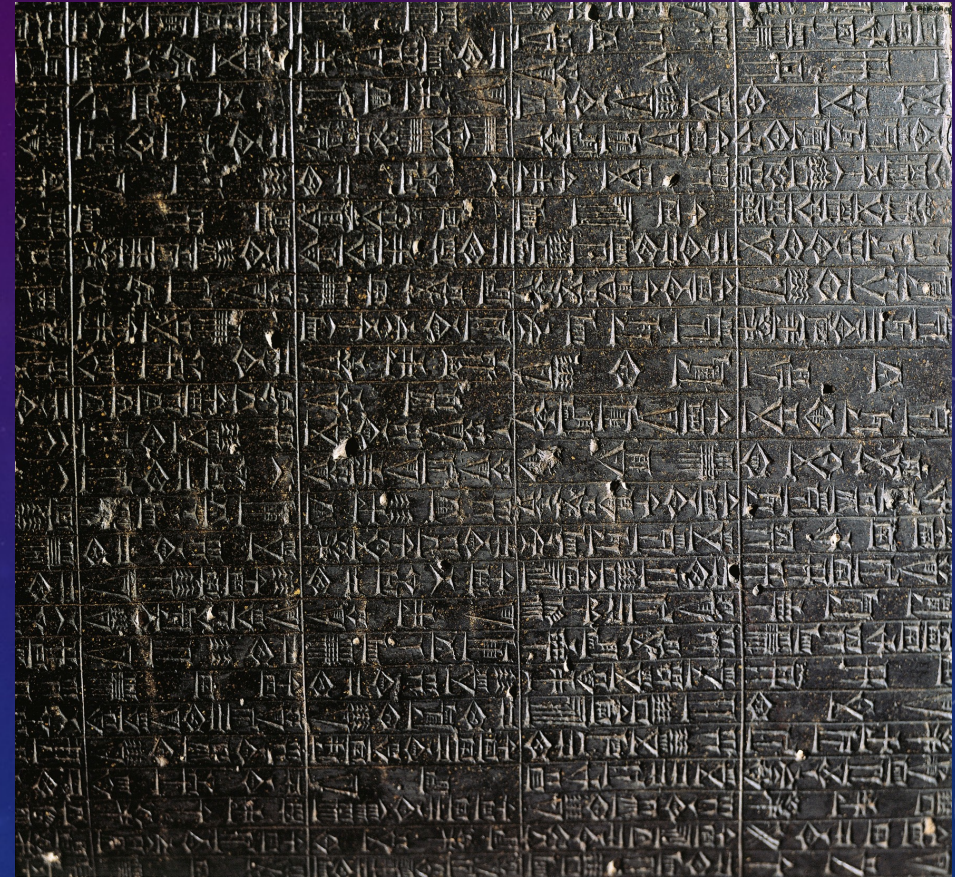


TDD – CYCLE



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
- Guarantees 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!