

Test-Driven Development

Learn the "Test First" Approach to Coding



SoftUni Team
Technical Trainers



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#java-advanced

1. Code and Test
2. Test-Driven Development
3. Reasons to Use Test-Driven Development

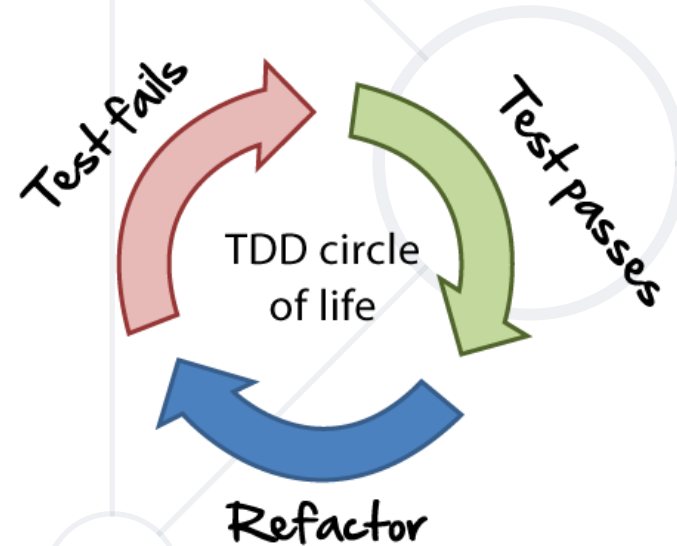




Test-Driven Development

Unit Testing Approaches

- "Code First" (code and test) approach
 - Classical approach
- "Test First" approach
 - Test-driven development (TDD)



The Code and Test Approach

Write code

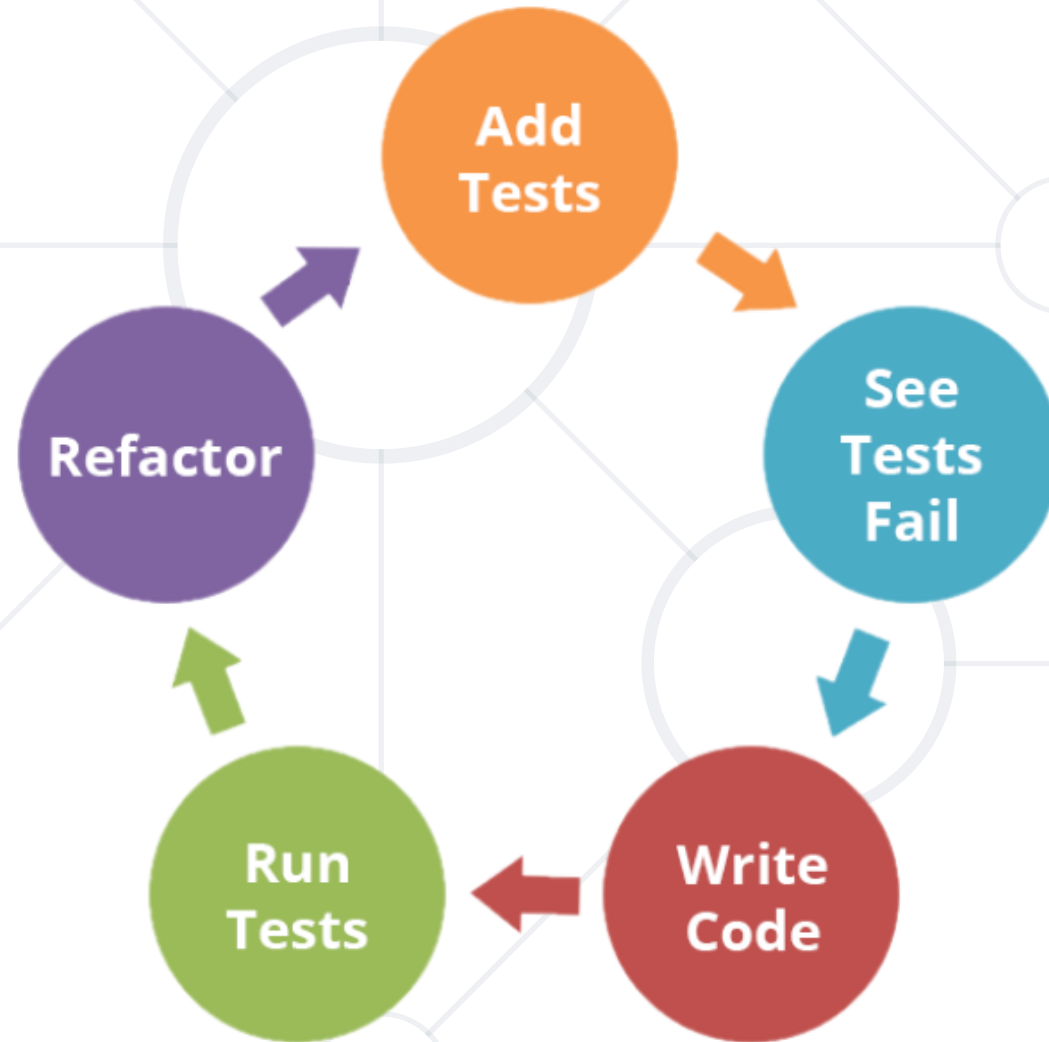
Write unit test

Run and succeed

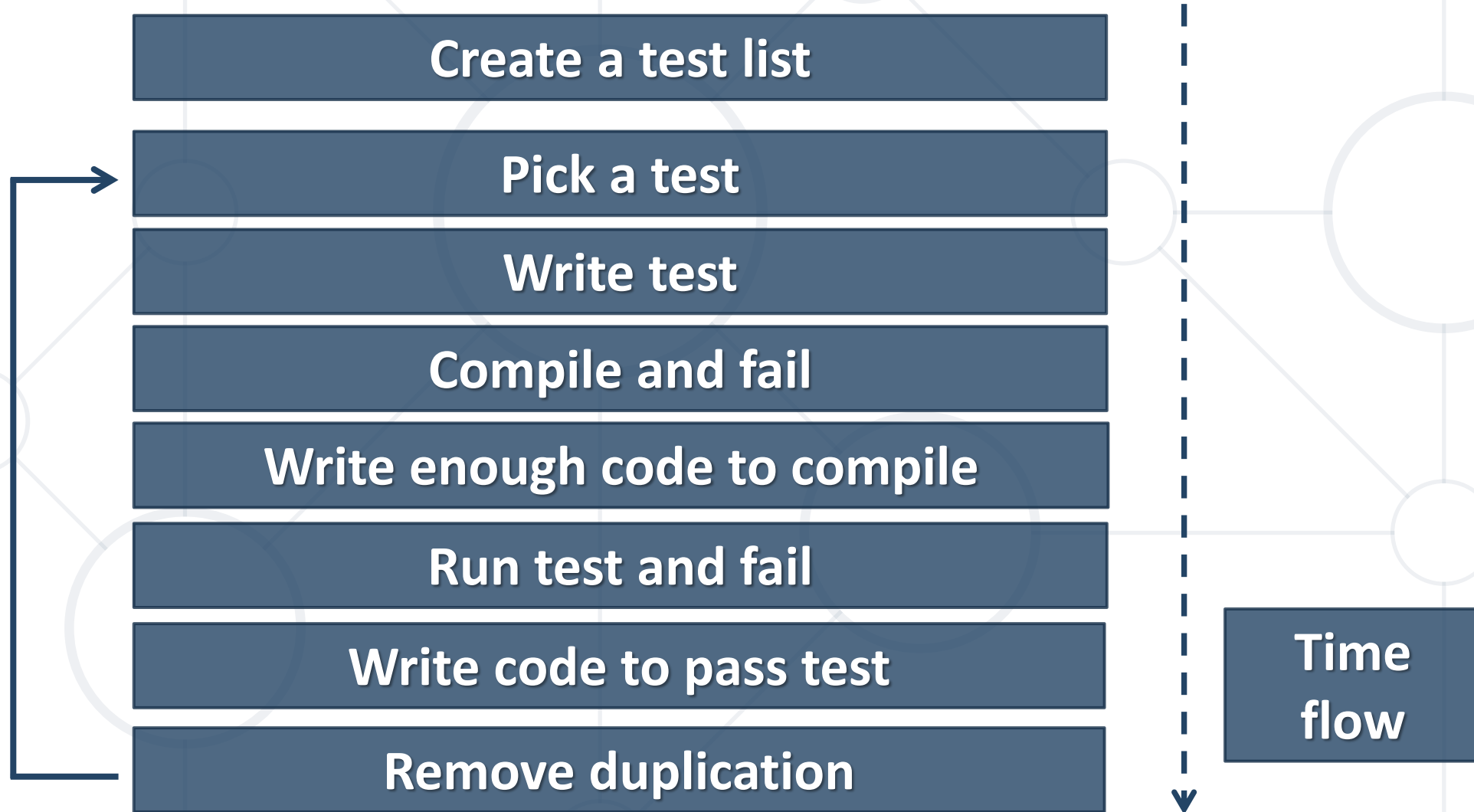


Time flow

The Test-Driven Development Approach



Test-Driven Development (TDD)



Why TDD?

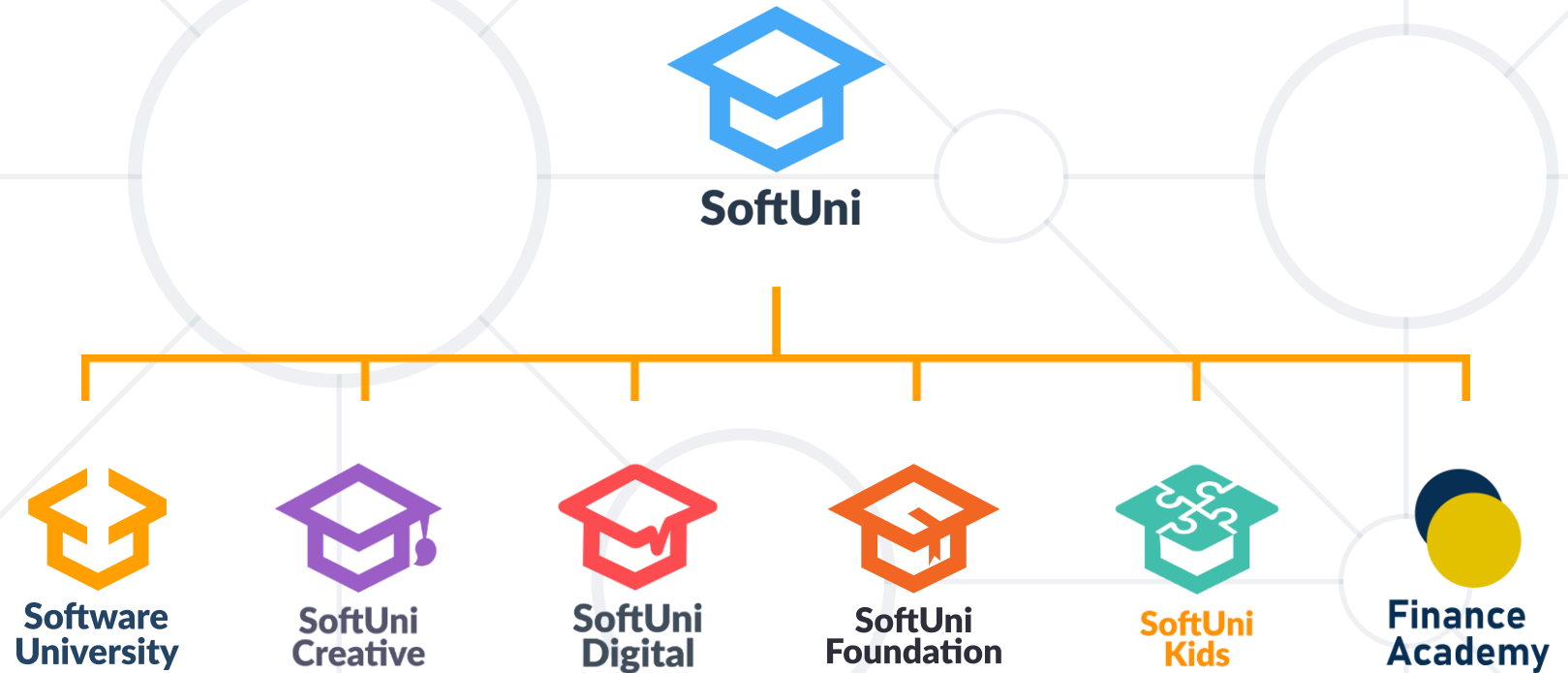
- TDD helps find design issues early
 - Avoids reworking
- Writing code to satisfy a test is a focused activity
 - Less chance of error
- Tests will be more comprehensive than if they are written after the code



- Code and Test
 - Write code, then test it
- Test-Driven Development
 - Write tests first
- Reasons to use TDD
 - Prevent some application design flaws
 - Manage complexity more easily



Questions?



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