

# Test-Driven Development

Learn the "Test First" Approach to Coding



**SoftUni Team**  
Technical Trainers



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sli.do

**#java-advanced**

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

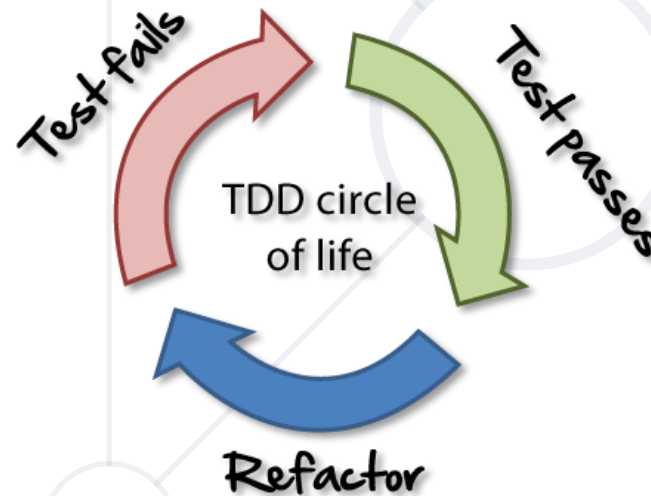




# Test-Driven Development

# 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

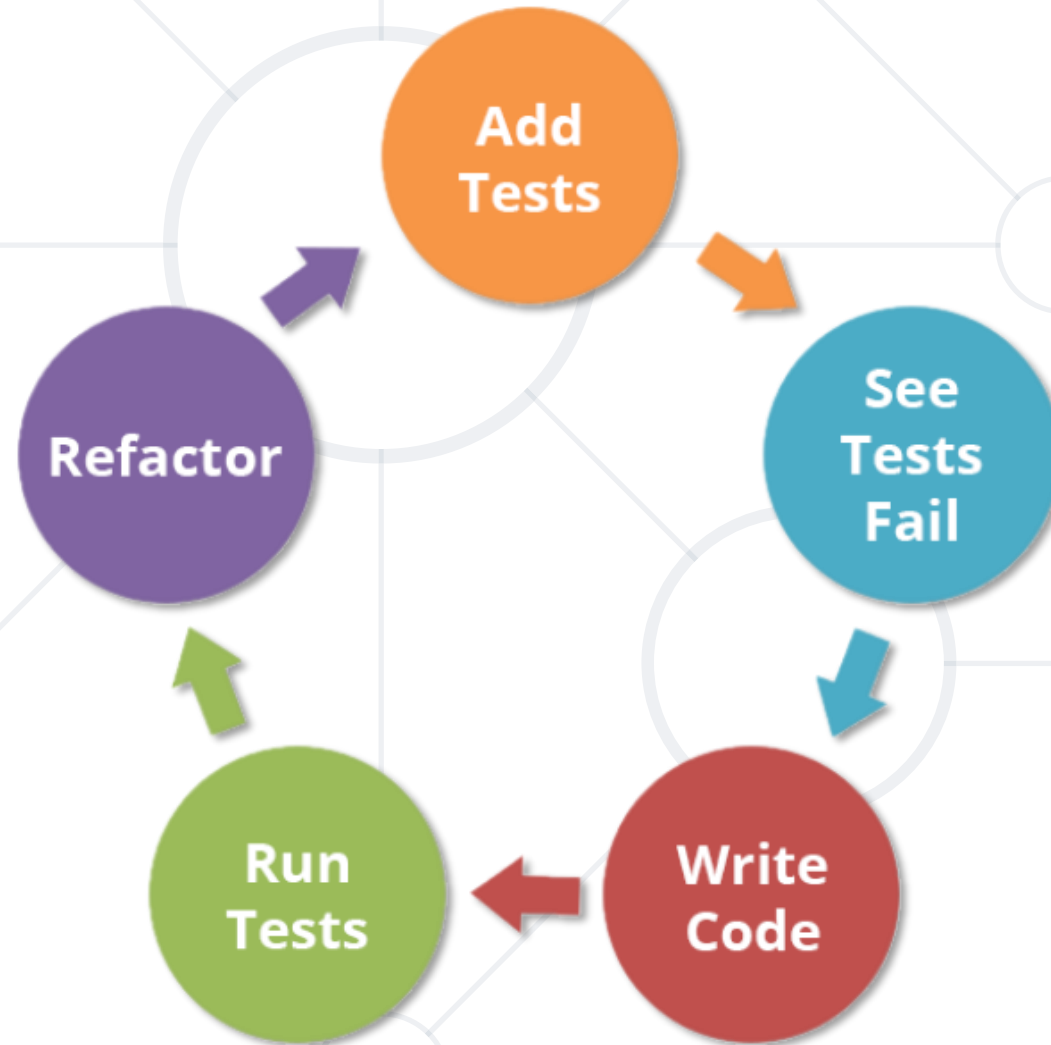
Write unit test

Run and succeed

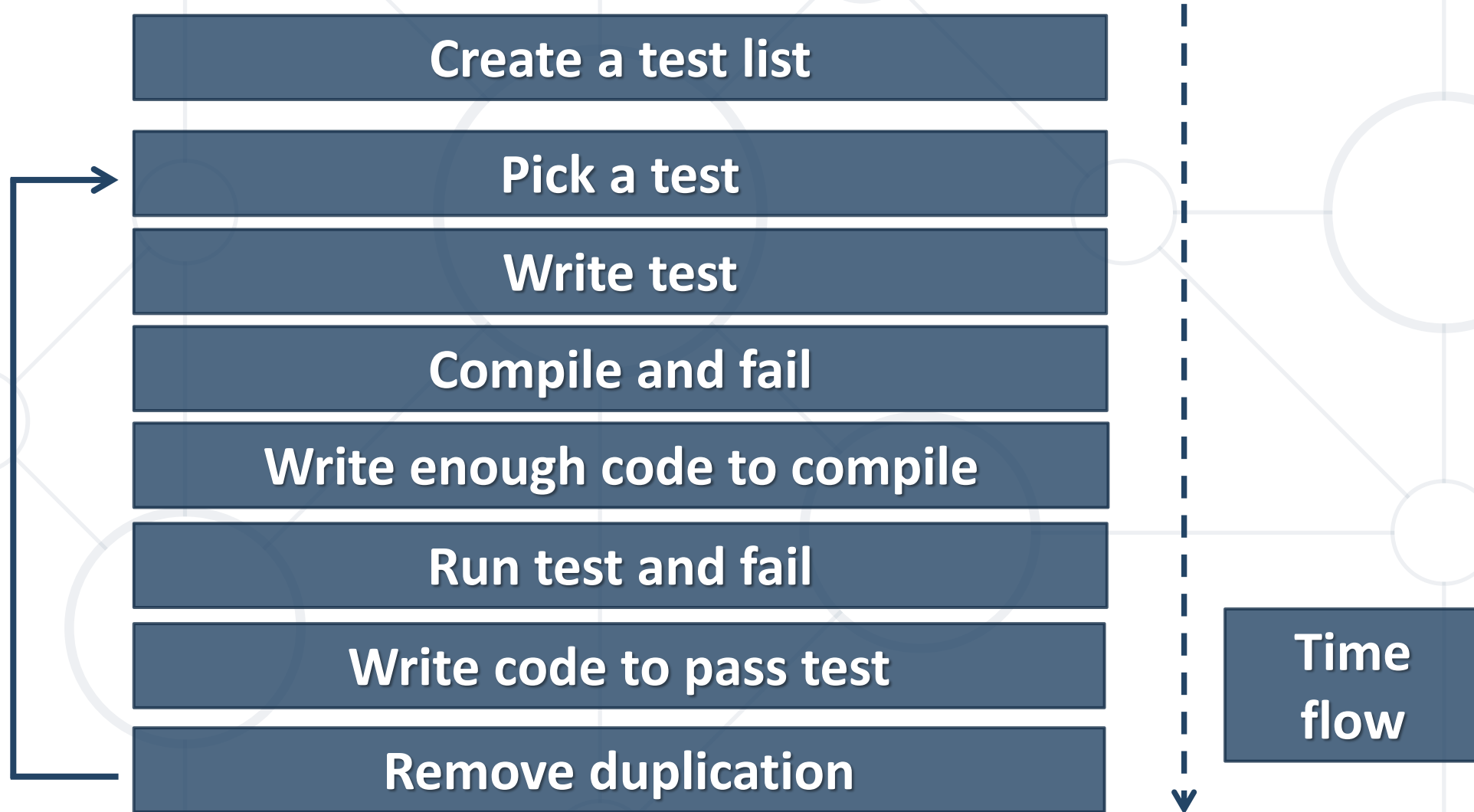


Time flow

# 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



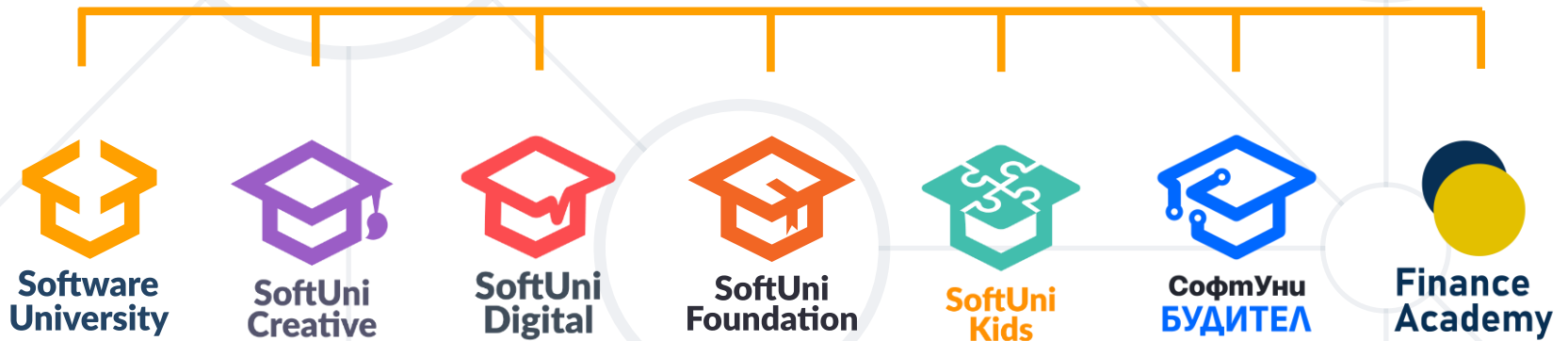
- **Code and Test**
  - **Write code**, then test it
- **Test-Driven Development**
  - **Write tests** first
- Reasons to use **TDD**
  - **Prevent** some application design flaws
  - **Manage complexity** more easily



# Questions?



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