# Test-Driven Development

## Learn the "Test First" Approach to Coding

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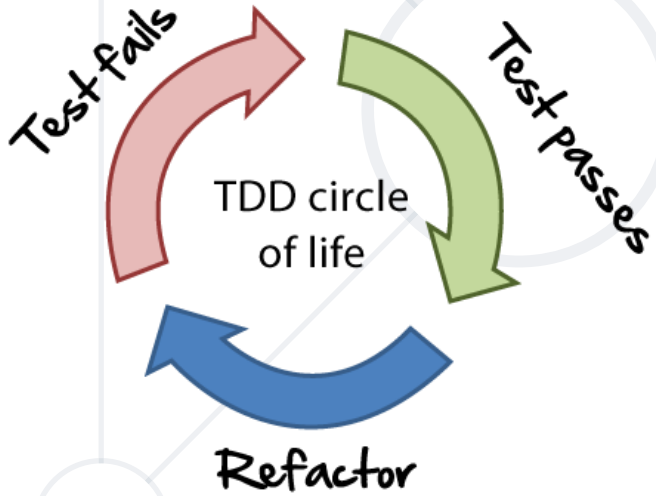
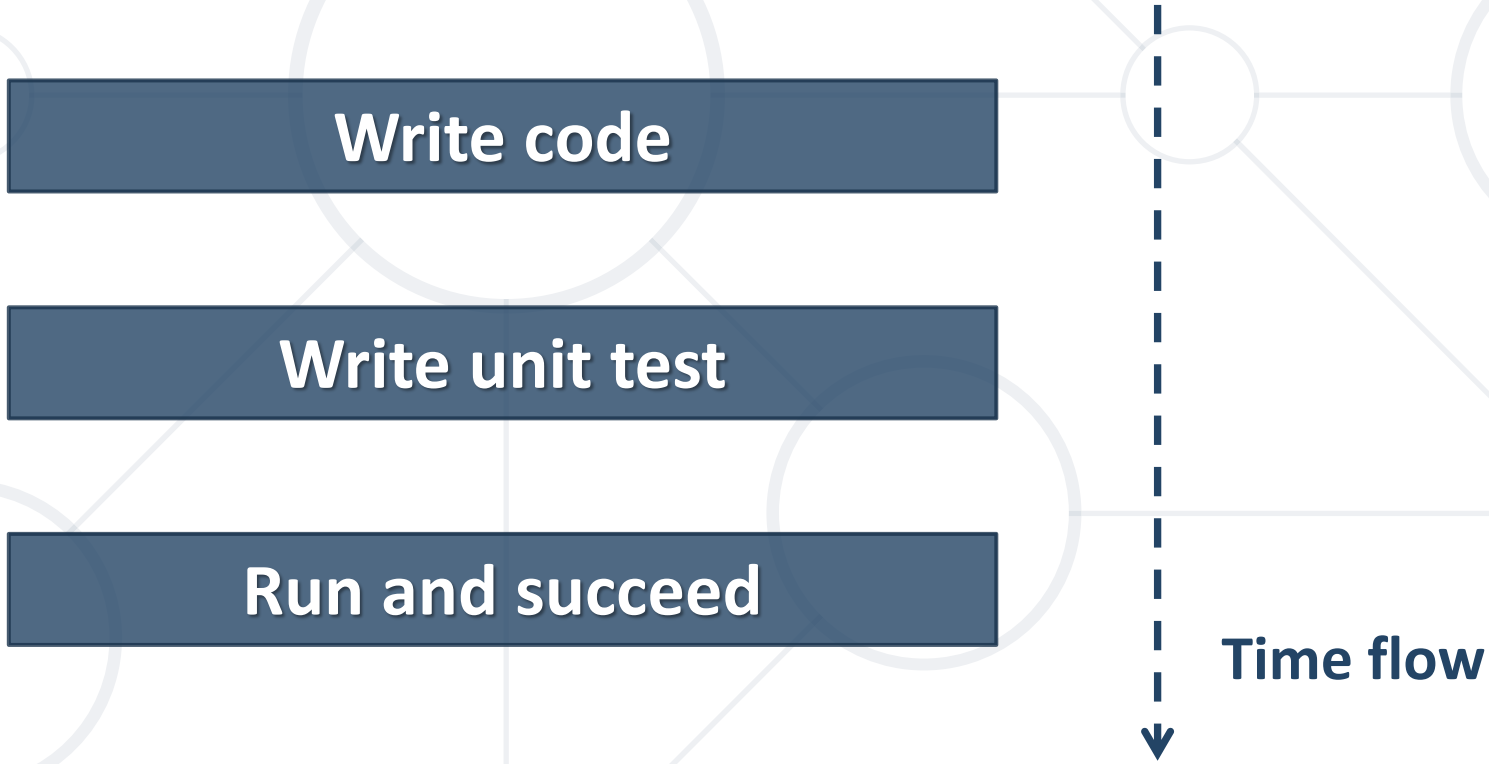
# Test-Driven Development

# Unit Testing Approaches

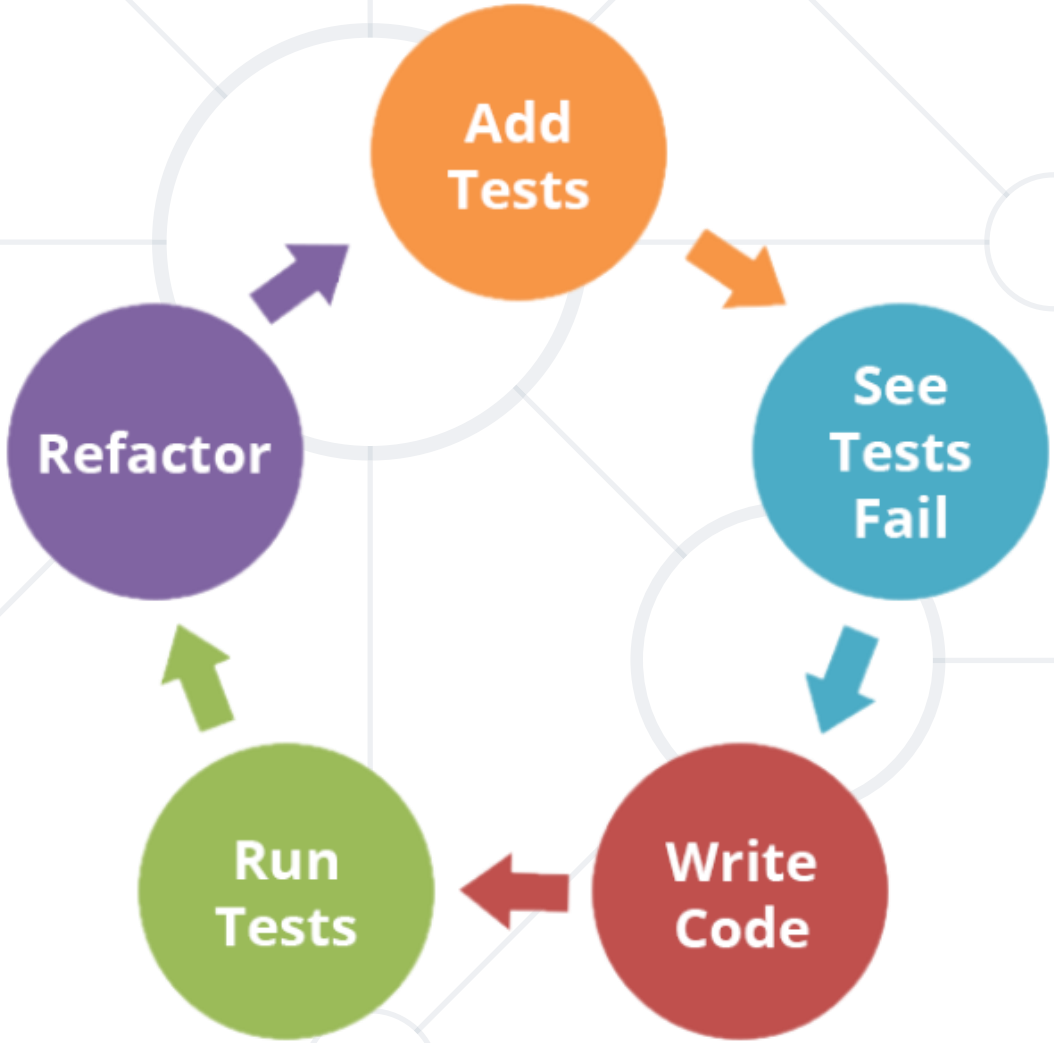
- "Code First" (code and test) approach
  - Classical approach
- "Test First" approach
  - Test-driven development (TDD)



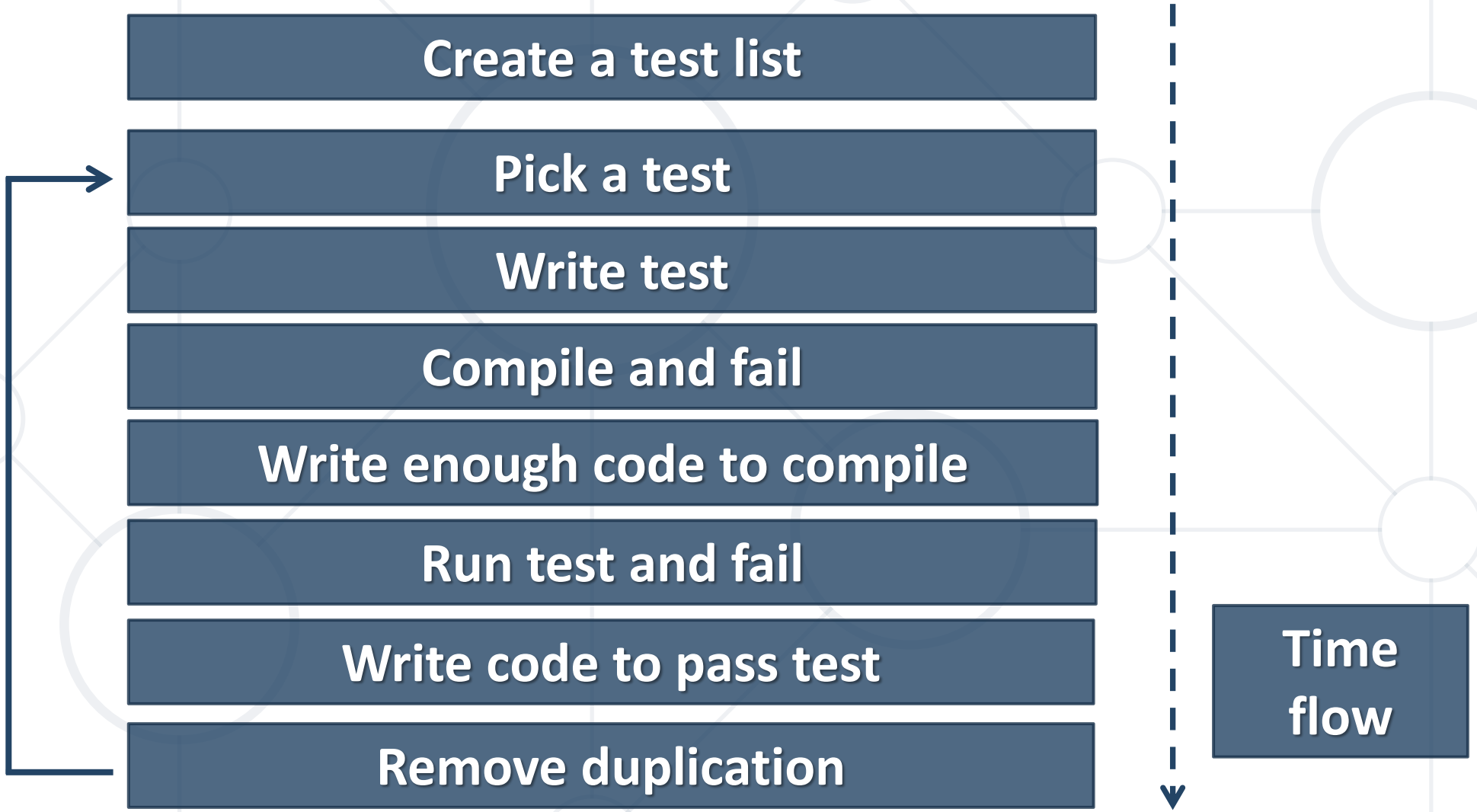
# The Code and Test Approach



# The Test-Driven Development Approach



# Test-Driven Development (TDD)



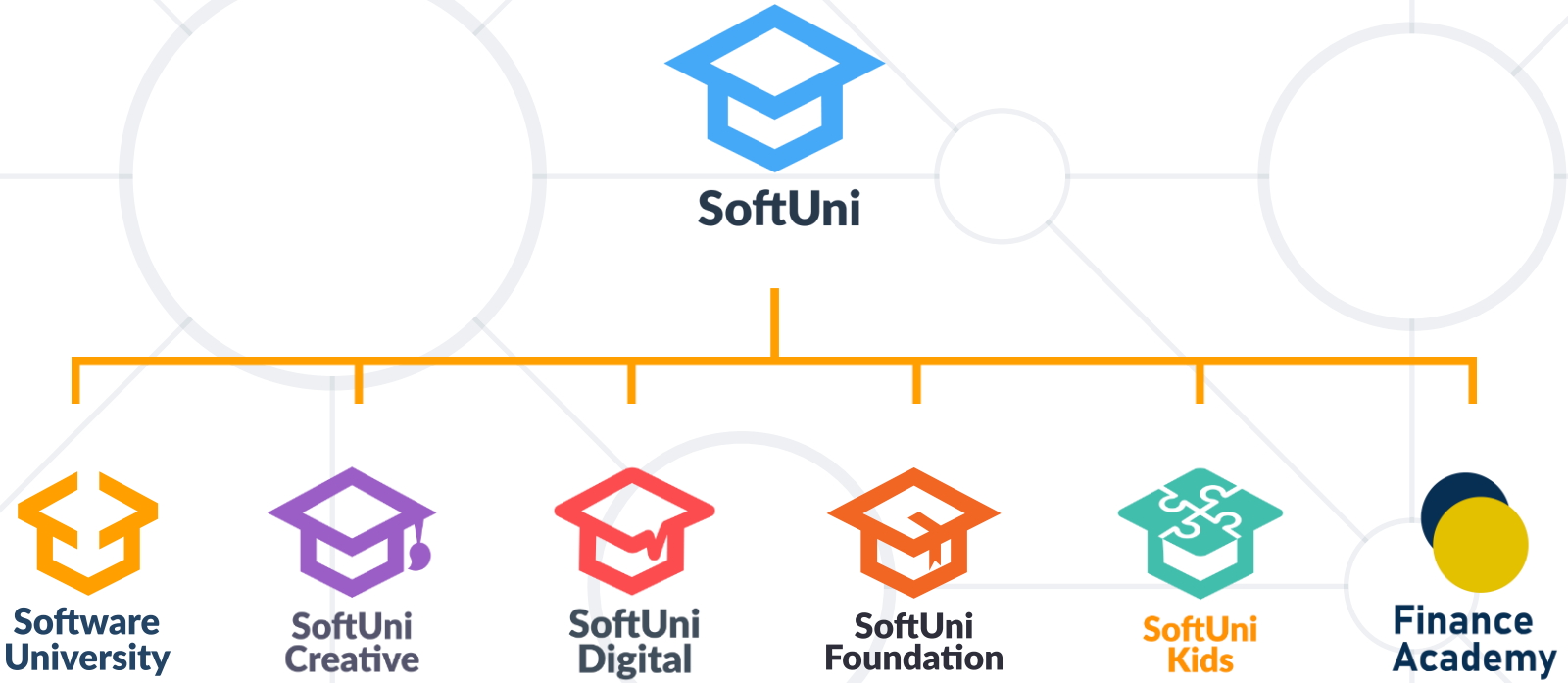
# Why TDD?

- 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

# Summary

- 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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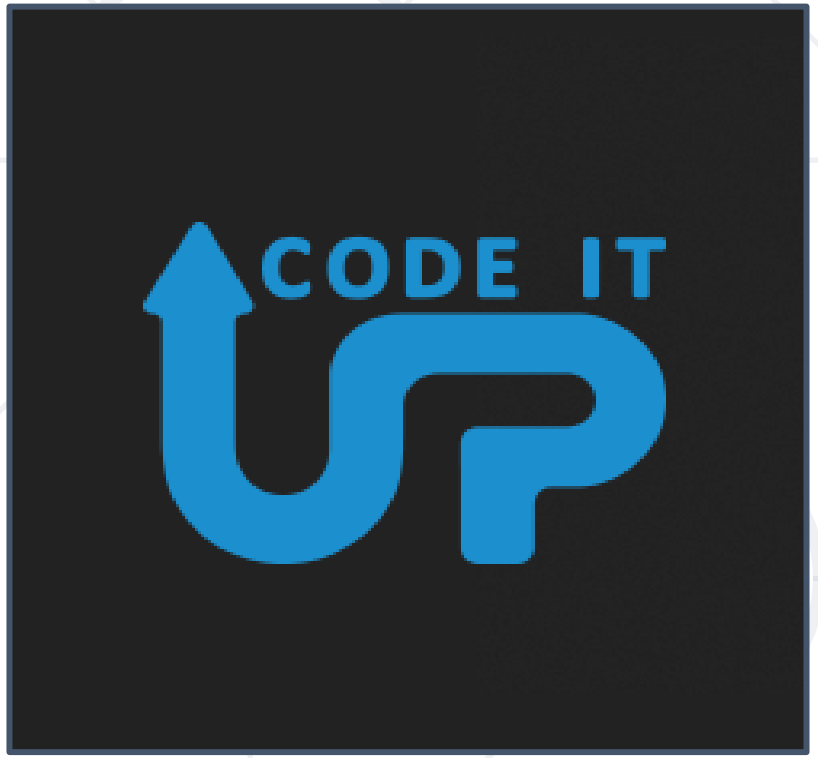

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