

What is Test Driven Development (TDD)

Red, Green, Refactor

The red, green, refactor approach helps developers compartmentalize their focus into three phases:

Red — think about what you want to develop

Green — think about how to make your tests pass

Refactor — think about how to improve your existing implementation

The 5 Steps of TDD

1. Write tests

Begin with writing tests, just enough to fail.

2. Run the tests

Make sure that the new ones fail

3. Write the “actual code”

Just enough to satisfy the tests.

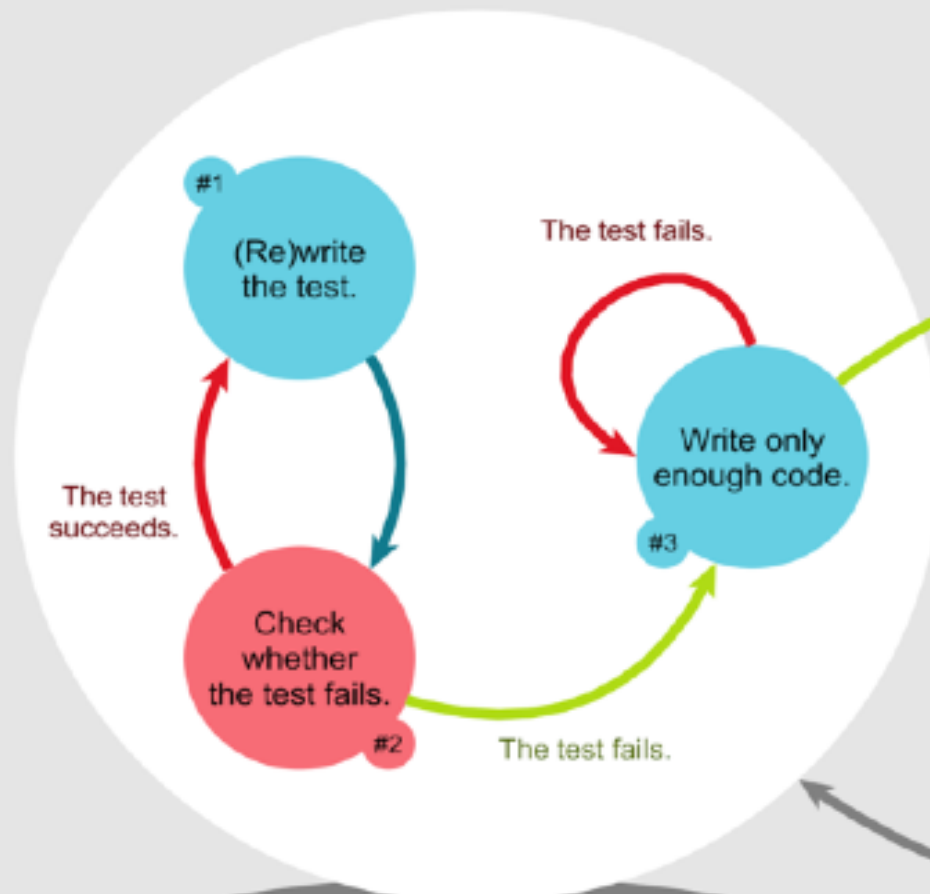
4. Run tests again

This time makes sure they all pass

5. Refactor and repeat

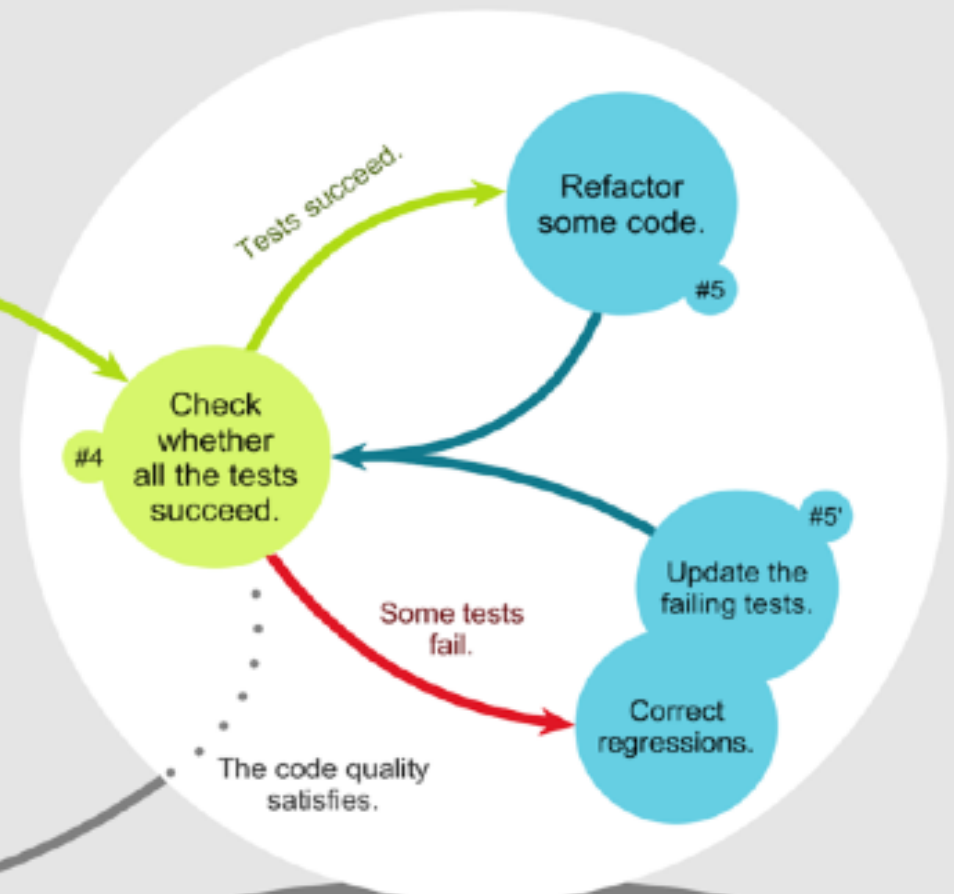
Make changes to the code

CODE-DRIVEN TESTING



focus
Completion of the contract
as defined by the test

REFACTORING



focus
Alignment of the design
with known needs

TEST-DRIVEN DEVELOPMENT