LEVEL UP

©2022

TDD

- Who's doing it?
- Do your tests run fast?

The Addison Wesley Signature Series

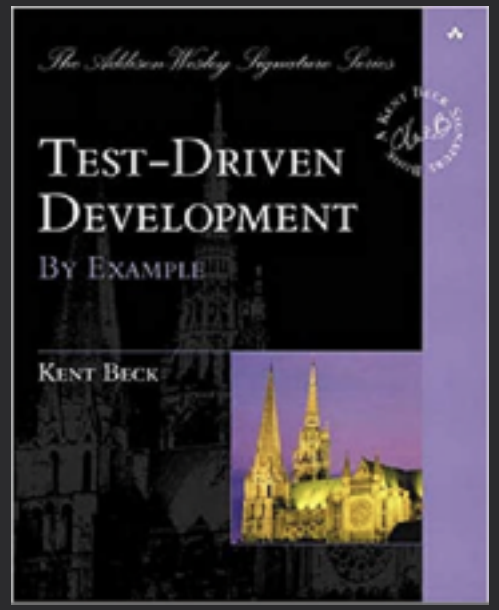
Test-Driven Development

By Example

Kent Beck

Uncle Bob's Thoughts on TDD

TDD was coined by Kent Beck in his 2002 book "Test Driven Development: By Example", and is described as a development method… NOT a testing technique. The goal is not coverage as much as it is about having confidence in your code.



What is Test Driven Development (TDD)

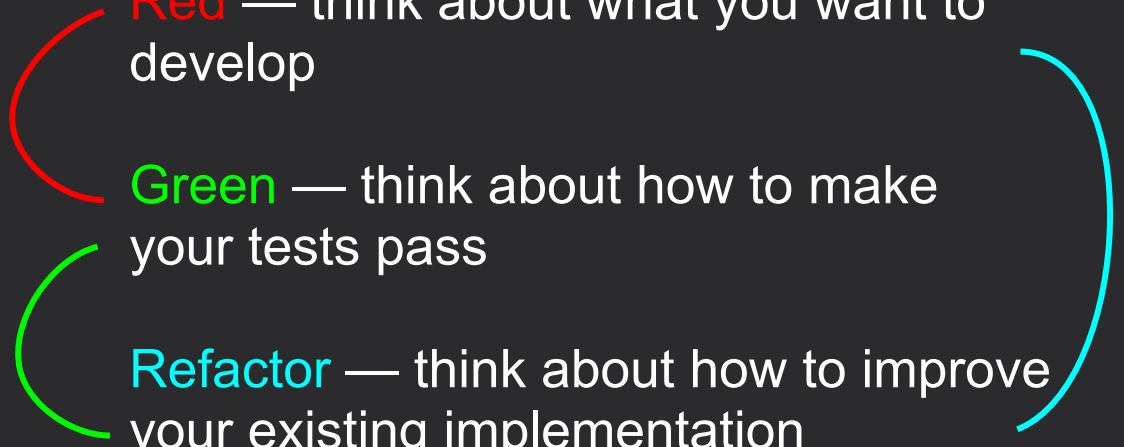
Red, Green, Refactor

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

LEVEL UP
©2022