TDD Loop

1. Write a test, watch it fail.
2. Write the simplest possible code to pass the test.
3. Watch it pass, refactor as necessary.
New code

• New code comes from
  – new features
  – bug fixes

• All new code is written to make a failing test pass
  – (really!)
Refactoring

• Change implementation, preserve behavior
  – the simplest thing that could possibly work may not always satisfy
  – but you might be surprised

• Crystal ball
  – we don’t have one, so don’t look far forward
Debugging

• Write a test(s) to show the bug
• Fix the code until the test(s) pass
• Throw the test(s) away
  – that bug is gone forever!