

Midterm 1 Study Guide

Topics covered:

- Refactoring** • Clean code chapter 2: names¹
 - Function Structure video selected parts²
 - Refactoring notes³
 - Be able to perform standard refactorings by hand
- OOP** • Brief introduction to classes and objects⁴
 - Java Language Overview⁵
 - Example program⁶
 - OOP Basics notes⁷
 - OOP Example code: Expressions⁸
 - Design a Circle class⁹
 - OOP Extension mechanisms¹⁰
 - Basic UML diagrams¹¹
- Clean Code** • Clean Code-Remake (54m)¹² especially the code rot section
 - Code Smells¹³
 - Formatting/Comments (Form video parts)¹⁴
- TDD** • Introduction to TDD¹⁵
- User Stories** • User Role Modeling¹⁶
 - User Stories and INVEST¹⁷

¹<https://learning.oreilly.com/library/view/clean-code/9780136083238/chapter02.html#ch2>

²[../videos/05-function_structure.html](#)

³[../activities/activity2-2refactoringIntro.html](#)

⁴[../activities/activity1-1classesObjects.html](#)

⁵[../cheatsheets/javaBasics.html](#)

⁶[../activities/activity1-1basicJavaSyntax.html](#)

⁷[../cheatsheets/OOPBasics.html](#)

⁸<https://github.com/sdp-resources/expressions>

⁹[../activities/activity1-3circleClass.html](#)

¹⁰[../cheatsheets/OOPExtensions.html](#)

¹¹[../activities/activity1-6objectsAndBasicUML.html](#)

¹²[../videos/01-clean_code.html](#)

¹³[../activities/activity5-1codeSmells.html](#)

¹⁴[../videos/06-form.html](#)

¹⁵[../activities/activity4-3tddIntro.html](#)

¹⁶<https://learning.oreilly.com/library/view/user-stories-applied/0321205685/ch03.html>

¹⁷<https://learning.oreilly.com/library/view/user-stories-applied/0321205685/ch02.html>