

Objectives

- Code Critique
 - Identifying smells
- Refactoring

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Review

- What goal are we designing to?
- What is the typical fix for code smells?
 - What is a limitation of those fixes?

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Notes on Assignment 10

- No “right” answer
 - Many design decisions
 - Want you to defend your design decision in code critique

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Questions on Assignment 10

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Metrics Plugin

- Install plugin: Help menu -> Software Updates -> Find and Install
 - New Remote Site
 - Name: Metrics
 - URL: <http://metrics.sourceforge.net/update>

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Problem: Library System

- Write a program to simulate a library system
 - Borrowing items
 - Returning borrowed items
 - Paying fees
- A student with > 7 borrowed items, any one late item, or late fees greater than \$25.00 may not borrow anything new
- Late fees and due dates:

Library Item	Period	Late Fee
Book	14	\$0.50 per day
Video	2	\$5.00 one day late plus \$1.50 for each additional day late
CD	7	\$2.50 per day

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Get a Solution

- Delete old Lendables project if you already have it
- Import Existing Project
 - `/home/courses/cs209/handouts/lendables.tar`
- Enable Metrics
 - Right-click on Lendables project
 - Select Properties
 - Select "Enable Metrics" and Apply

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Getting Started Questions

- How are the classes organized?
 - What is the purpose of each class?
- Where is the starting point for the project/codebase?
 - How can you run the whole thing?
 - (What would be a better organization?)

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Understanding the Design

- What code has to change to add a new Lendable item?
- What code has to be written to add a new Lendable item?
- What is different about the Lendable subclasses?
- How is the code currently tested?
 - How much of the code is covered by this testing?
 - Use Emma/Coverage to get exact coverage

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Assignment 10 Due on Friday

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