

Object-Oriented System Design

Spring 2020

Prof. Choonhwa Lee

Dept. of Computer Science and Engineering
Hanyang University



Instructor

- Dr. Choonhwa Lee



- Office: Rm #721 IT Bld
- Phone: 02-2220-1268
- E-mail: lee _at_ hanyang.ac.kr
- (Tentative) Office hour: Mon 14:00 – 17:00 or by email appointments

Teaching Assistant

- 이효식, 신민아 조교



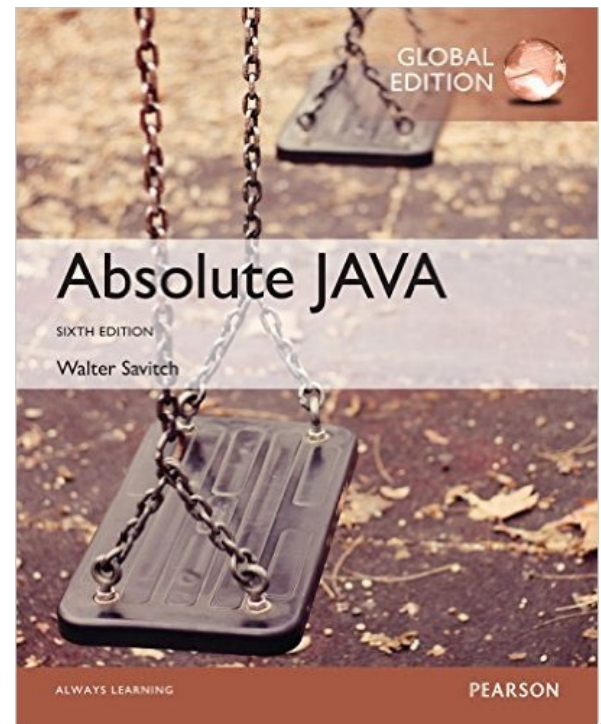
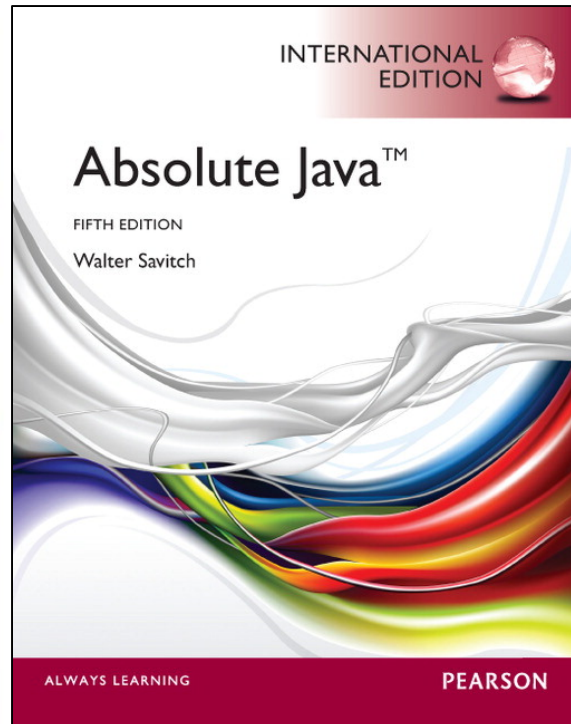
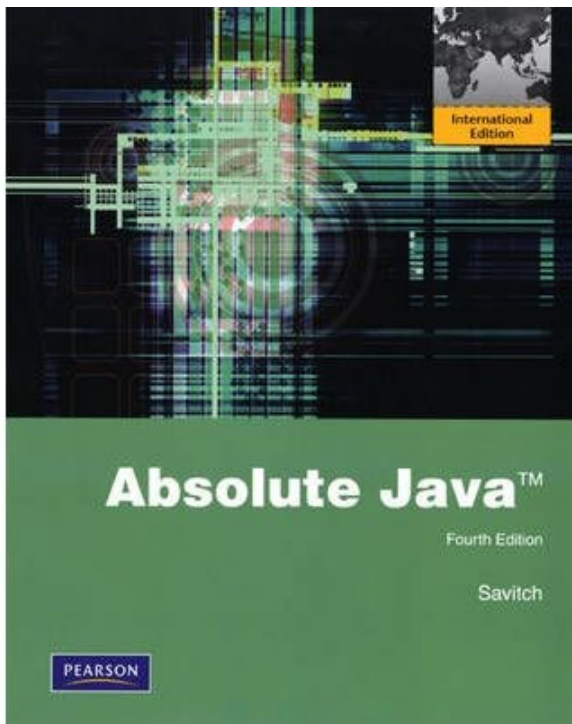
- Office: Rm #402-2 IT Bld
- Email: lhs9394@naver.com
minah741@naver.com
- Office hour: TBD

Course Overview

- OOP: Object-Oriented Programming
 - Encapsulation, inheritance, polymorphism, etc
 - Java programming language
- OOP Principles and Design Patterns
 - S.O.L.I.D.
 - Design patterns

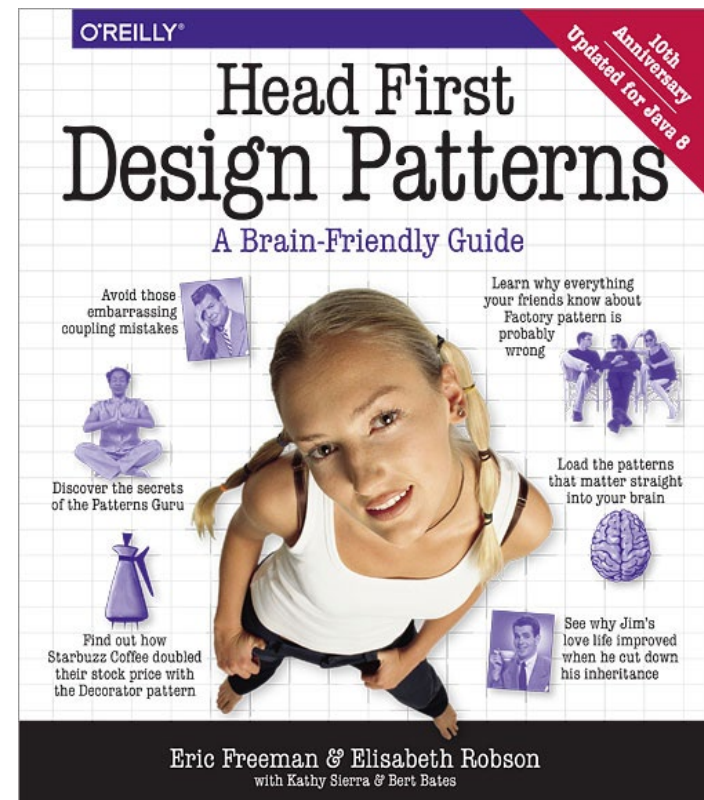
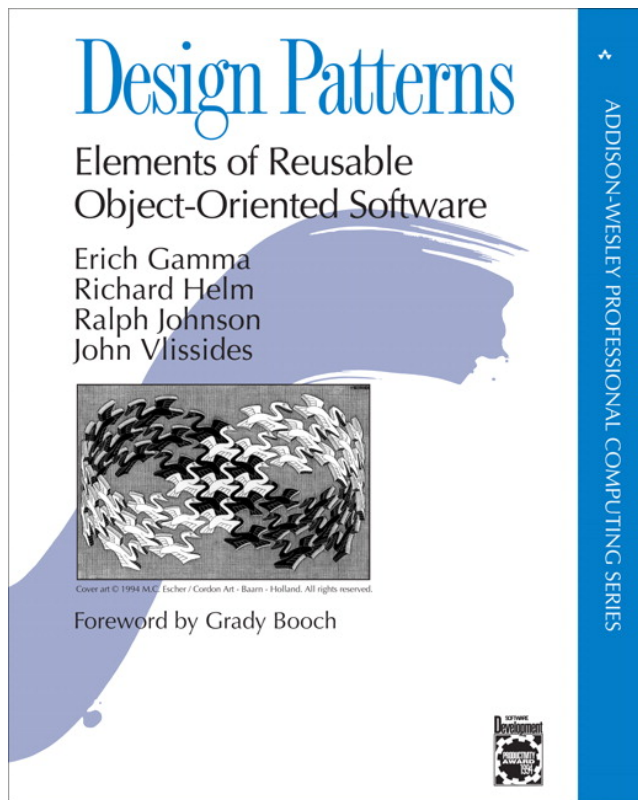
Textbook (Java)

- Absolute Java (4th/5th/6th edition), Walter Savitch
 - Pearson, 2009/2013/2016



Textbook (Design Patterns)

- Head First Design Patterns
 - eBook version available at <http://www.slideshare.net>



Schedule (tentative)

Week	Lecture	Lab
1	Mar 18 Course Overview	Mar 19 Eclipse IDE
2	Mar 25 Getting Started (ch. 1) Console Input and Output (ch. 2)	Mar 26 + Flow of Control
3	Apr 1 Defining Classes I (ch. 4)	Apr 2 + Git & GitLab
4	Apr 8 Defining Classes II (ch. 5)	Apr 9 + UML
5	Apr 15 Parliamentary Election Day	Apr 16 Defining Classes II (ch. 5)
6	Apr 18 (Make-up class) Arrays (ch. 6)	Apr 18 (Make-up lab)
7	Apr 22 Inheritance (ch. 7)	Mar 23 + Quiz 1
8	Apr 29 Midterm exam	Apr 30 Buddha's Birthday

Schedule (tentative)

Week	Lecture	Lab
9	May 6 Polymorphism and Abstract Classes (ch. 8)	May 7
10	May 13 Exception Handling (ch. 9)	May 14 + File I/O
11	May 20 Interface and Inner Classes (ch. 13)	May 21 + Java Thread
12	May 27 Generics and the ArrayList Class (ch. 14)	May 28 + Quiz 2
13	Jun 3 Design Patterns: Intro, Singleton	Jun 4
14	Jun 10 Design Patterns: Observer, Decorator	Jun 11
15	Jun 17 Final Exam	

Class Homepage

- At Distributed and Cloud Computing Lab
 - “Classes” -> “Object-Oriented Programming” at <http://dcc.hanyang.ac.kr>
 - Announcements, lecture notes, and Q&A
 - Password protected (user name and password: **oop101**)
 - Frequent visits, at least a couple of times a week, are required.

Grading

- Class workload
 - Programming assignments: 3-4
 - In-class programming quizzes: 2
- Grade breakdown
 - Mid-term exam: 30%
 - Final exam: 30%
 - Attendance: 10%
 - Programming assignments & quizzes: 30%

Rules and Policies

- Prerequisite
 - B0 or higher grades in C Programming or equivalent classes
- No A+ grade for senior students
 - Separate grading group from the rest, if necessary

Rules and Policies

- F 학점 해당 사항
 - 부정행위 관련자 전원
 - 중간/기말 시험, 퀴즈, 프로그래밍 과제
 - 중간/기말 시험 무단 결시자
 - 불가피한 경우 사전 허락이 필수
 - 퀴즈/프로그래밍 과제가 극히 저조한 경우
 - 프로그래밍 과제 1/2 이상 미제출 시 (0점도 미제출로 간주)
 - {강의+실습} 10회 이상 결석자
 - 불가피한 경우 사후 사유 증빙 필요
 - 지각 2회는 결석 1회 (지각은 수업 시작 후 15분까지)

QnA

Questions, concerns, and suggestions?