# Object-Oriented Programming

## Spring 2018

Prof. Yongsu Park

Division of Computer Science and Engineering

Hanyang University

# Instructor

- Dr. Yongsu Park
  - Office: Rm #816, IT Bldg.
  - Phone: 02-2220-2382
  - E-mail: yongsu _at_ hanyang.ac.kr
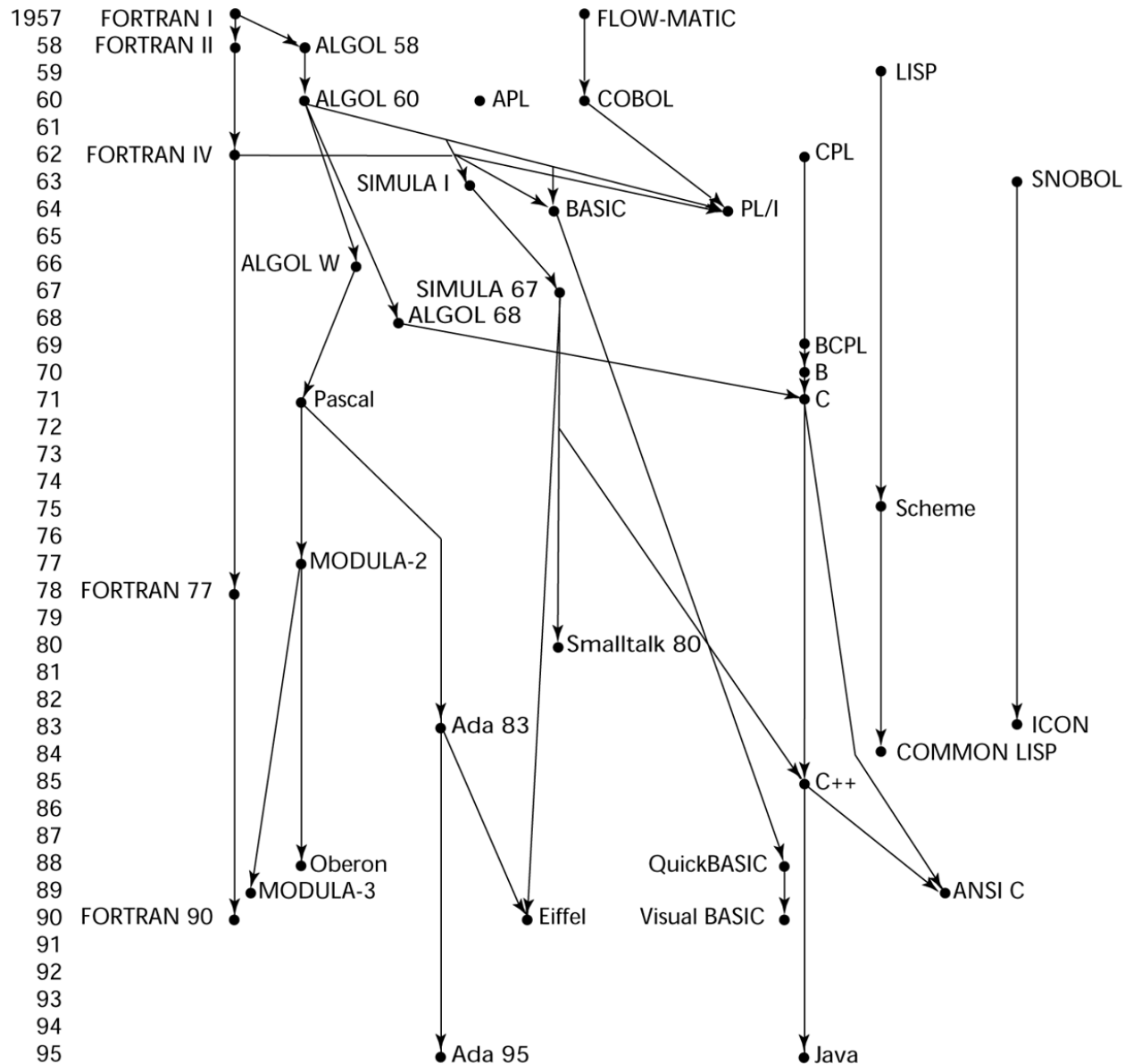  - (Tentative) Office hour: Wed 15:30 − 18:00 or by email appointments

# Teaching Assistant

- Yun-Han Jang, Juhyun Park
  - Office: Rm #808, ITBT Bldg
  - Email: dbsghksdlwkd@naver.com, hdhyun216@gmail.com
  - Office hour: TBD
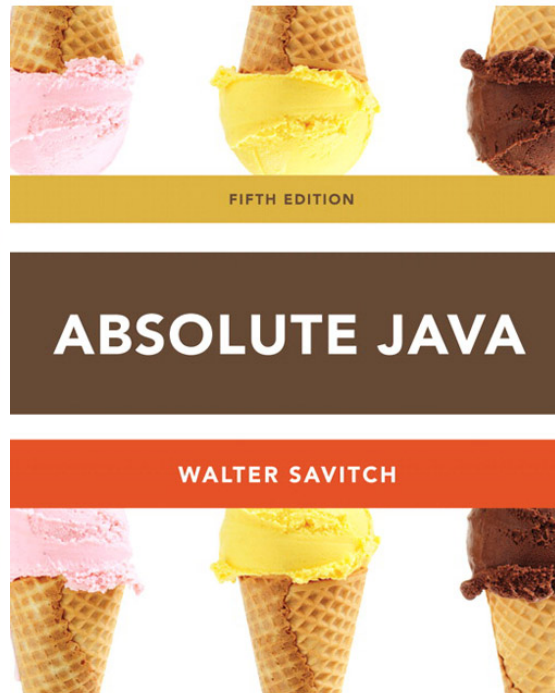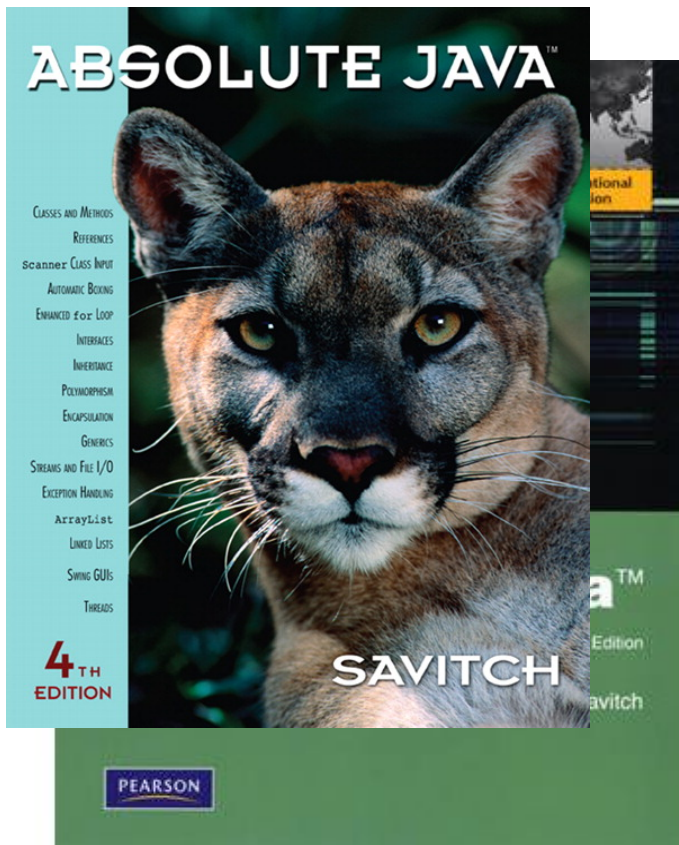
# Course Overview

- OOP: Object-Oriented Programming
  - Encapsulation, inheritance, polymorphism, etc

- Java Programming
  - Classes and objects
  - Inheritance
  - Polymorphism
  - Exception handling
  - Interfaces (and inner classes)
  - Generics

- Object-Oriented Programming & Development
  - Basic design patterns

# Genealogy of Common Languages

# Textbook

- Absolute Java (5$^{th}$/6$^{th}$ edition), Walter Savitch
  - Pearson, March 2015

# Schedule (tentative)

| Week | Lecture (wed) | Lab (fri) |
|---|---|---|
| 1 | Course Overview | |
| 2 | Getting Started (ch. 1)<br>Console Input and Output (ch. 2) | |
| 3 | Flow of Control (ch. 3) | |
| 4 | Defining Classes I (ch. 4) | |
| 5 | Defining Classes II (ch. 5) | |
| 6 | Defining Classes II (ch. 5) | |
| 7 | Arrays (ch. 6) | |
| 8 | Midterm exam | |

# Schedule (tentative)

| Week | Lecture (wed) | Lab (fri) |
|---|---|---|
| 9 | Inheritance (ch. 7) | |
| 10 | Polymorphism and Abstract Classes (ch. 8) | |
| 11 | Exception Handling (ch. 9) | |
| 12 | Interface and Inner Classes (ch. 13) | |
| 13 | Generics and the ArrayList Class (ch. 14) | |
| 14 | Design Patterns: Singleton, Strategy | |
| 15 | Design Patterns: Template, Command / Observer, Decorator | |
| 16 | Final Exam | |

# Grading

- Class workload
  - Programming assignments: 2~4
  - In-class quizzes: 1~2

- Grade breakdown
  - Mid-term exam: 30%
  - Final exam: 30%
  - Attendance: 10%
  - Programming assignments & quizzes: 30%

# Rules and Policies

- Prerequisite
  - B0 or higher grade in C Programming or equivalent classes


- No penalty for junior and senior students
  - Separate grading from sophomores

# 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
    - 퀴즈 점수가 모두 0점인 경우
    - 프로그래밍 과제 1/2 이상 미제출 시 (0점도 미제출로 간주)
  - 강의 5회 이상 혹은 실습 3회 이상 결석자
    - 불가피한 경우 사후 사유 증빙 필요
    - 지각 2회는 결석 1회 (지각은 수업 시작 후 15분까지)

# Rules and Policies

- 반대표
  - 강의 준비 (열쇠, PC 준비)
  - 긴급 공지 전달 (?)
  - <u>우수한 역할 수행 시 → ???</u>

# QnA

Questions, concerns, and suggestions?