Object Oriented Programming

Jin Hyun Kim
Fall 2019

This Class

- FIA 00016 (3 Points (3-2-2))

- Tue 1, 2 (Theory), Thur 1,2 (Lab)

- Open Office Hour: By appointment at mentoring time

- Textbook:

  - (Korean) Go 마스터하기 (GOM), Mihalis Tsoukalos(미할리스 추칼로스) 저, 남기혁 옮김, 에이콘

  - (Korean) Go를 활용한 머신러닝(GOML)

  - 강사제공

This Class

- Discuss 3 subjects:

  - Go Lang

  - Object-Oriented Programming/Design

  - UML (Sequence charts, Class Diagram, and Statecharts Diagram)

  - Machine Learning

- All these topics are about PROGRAMMING PRACTICE

This Class

- Student should put at least 9 hours to cover classes and assignments

  - Every week, students will submit some program assignments that should be done by the end of the class day

  - Some programing assignments will need more days than one day.

  - Some programming assignment will be a challenge problem that is a bonus credit for mid- and final exams.

This Class

- Some class will have pre-class by video and quiz

  - Students shall view a video and take a quiz before classes.

  - The quiz will be included to grade evaluation

- Everyone should be with computer (personal laptop or public desktop), without exception.

Lecture Plan

Week	Lecture Contents	Textbook	Assignments
1	Introduction, Golang Tutorial 1	Lecture slides	
2	Golang Tutorial 2	Lecture slides	
3	Golang Lab	Lecture slides	
4	Object-Oriented Design - UML - Class Diagram, Sequence Charts	Lecture slides	
5	Object-Oriented Design - UML - Statecharts	Lecture slides	
6	Go Composition Type , Go Data Structure	GOM ch 4-5	
7	Reflection and Interface	GOM ch 7	
8	Mid Exam		
9	Go Concurrency	GOM ch 9-10	
10	Go Testing, Network Programming	GOM ch11-12, 13	
11	Go Data Collection and Structuring	GOML ch 1	
12	Go Matrix, Probability, and Statistics	GOML ch 2	
13	Go Evaluation and Verification, Regression analysis	GOML ch 3-4	
14	Go Classification	GOML ch 5	
15	MLwith Go Warpup and Small Project		
16	Final Exam		

Grading

- Class Participation: 10%

- Assignments and Quiz: 15%

- Mid Exam: 25%

- Final Exam: 25%

- Term: 10%

Homepage

- Class information, Lecture slides, Readings, Assignment descriptions, Schedules etc

  - http://jinkimh.github.io/oop

- Instant announcements, Questions, Assignment & Quiz submission:

  - Google Classroom: *f62wdq*

  - Using this Google Classroom, the grade will be evaluated, so make is sure that you subscribe Google Classroom using above code