5118008 English for Software Developer

Course Overview

4 Mar 2024

Shin Hong

Course Objectives

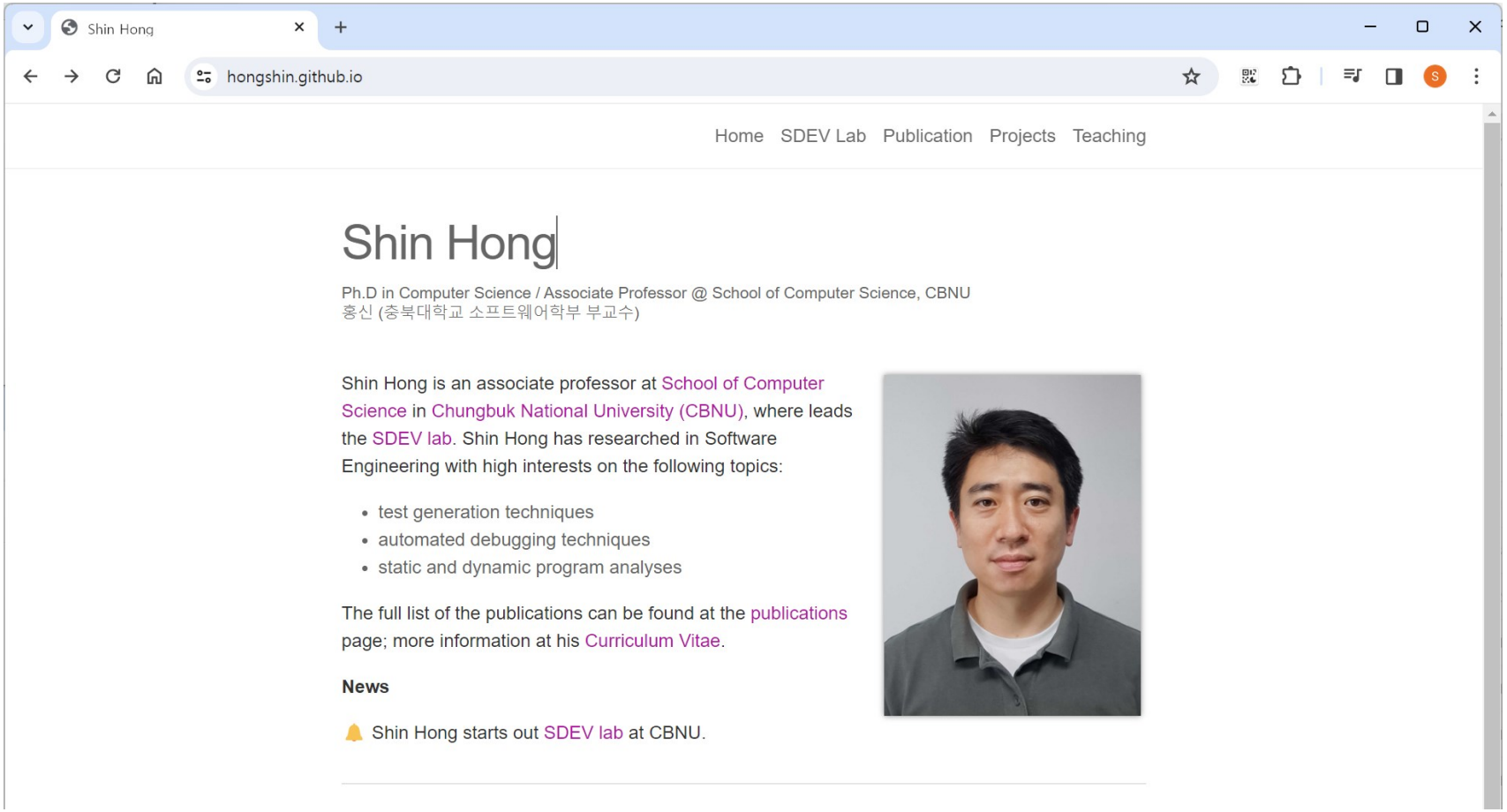
- Improve English communication abilities for using technical documents and undertaking software engineering tasks
  - comprehend technical document in the software domain
  - write technical descriptions with proper English expressions
  - know how to use English to communicate with their collaborators for software engineering tasks

Course Outline: Three Components

- English background
  - Grammar, sentence structures, common expressions
  - Mon 10 AM (also Mon 11AM in first four weeks)
- English for software engineering activities
  - Writing bug reports, commit messages, emails, etc.
  - Guest lectures on technical presentations
  - Mon 11 AM
- Reading comprehension
  - Read “Once Upon An Algorithm” chapter by chapter, and review vocabularies, expressions and sentences in the text
  - Fri 4 PM

Shin Hong

- http://hongshin.github.io



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Teaching Assistant

- Hyeong-Yeong Park 박형영
  - Graduate student (MS course)
  - hyeong.y.park@chungbuk.ac.kr
  - assisting the instructor in scoring students' results and managing classes

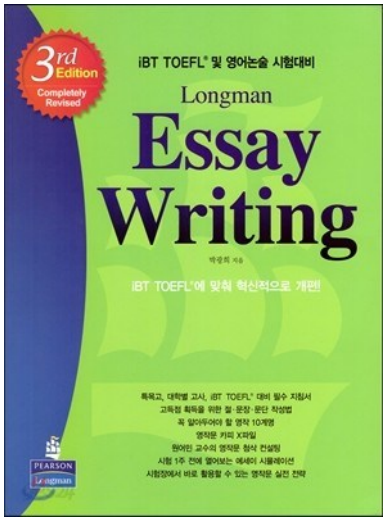
Plan for “English Background” (1/2)

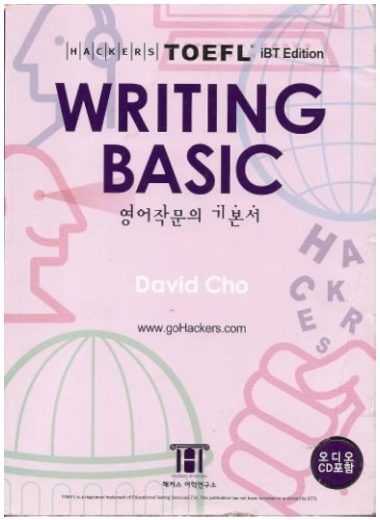
- Review English grammars needed to understand sentence structures and expressions common in technical texts
  - 18 hours (2 hours X 4 weeks + 1 hour X 10 weeks)
  - lecture-oriented

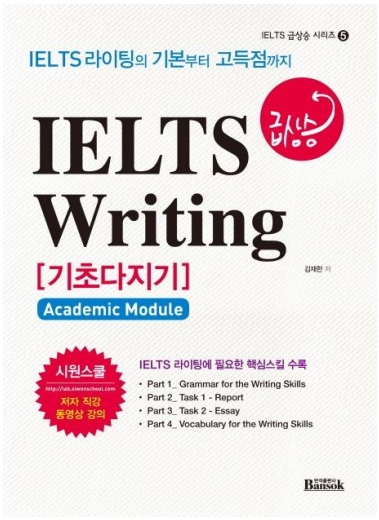
- Topics
  - basic sentence pattern (i.e., grammar)
  - common sentence structures
    - agreement, analysis, comparison, condition, exemplification, etc.
    - 100 key sentence patterns
  - 150 phrases frequently used in the engineering domain

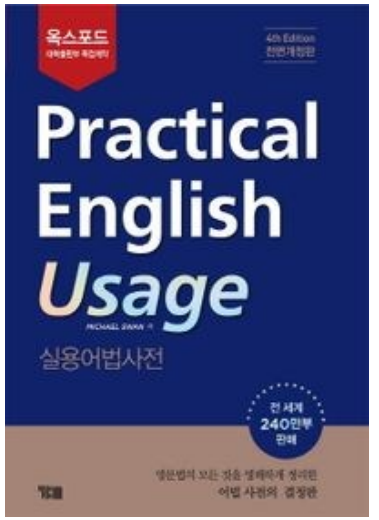
Plan for “English Background” (2/2)

- Learning materials will be given as slide or hands-out
- Part of these materials will be based on the following references









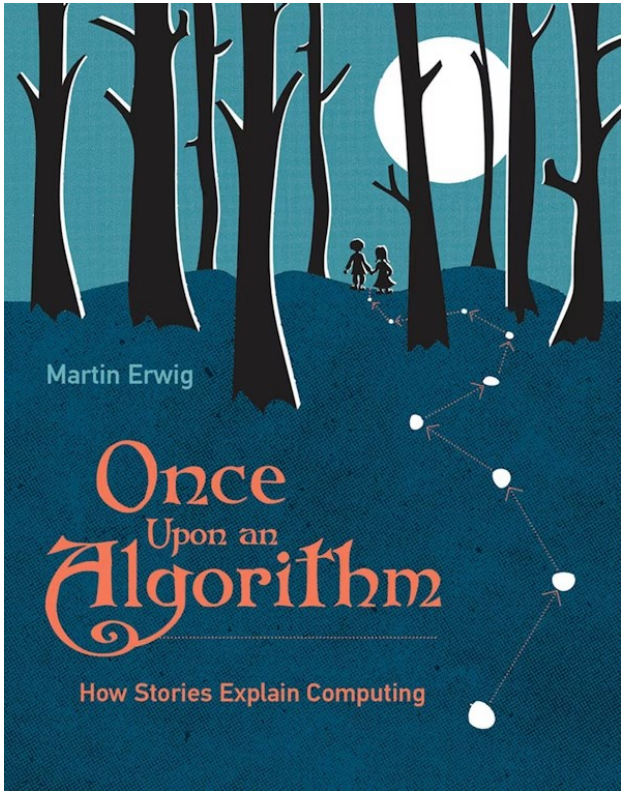
Plan for “English for SW Engineering”

- Give guidelines on writing technical documents in software development tasks, and do hands-on exercise in class

- Topics
  - Bug reports at issue tracker
  - Git commit messages and pull requests
  - API documents (i.e., comments)
  - Use case scenario
  - E-mail: patterns, rules and etiquette
  - Resume
  - Technical Presentation (guest lecture)

Plan for “Reading Comprehension”

- Read and study “Once Upon An Algorithm” throughout a semester
  - one chapter a week
  - have a weekly reading group meeting to recite the book chapter together, and study the words and vocabularies
  - study syntactically and/or semantically interesting sentences
  - memorize 3 to 5 sentences per chapter



Class Evaluation

- Grading policy
  - **A** up to 40% of the class
  - **B** if a student achieves more than 60% of the expected results
  - **C** if a student fails to achieve 60% of the expected results
  - **F** if a student violates one of the necessary conditions for pass

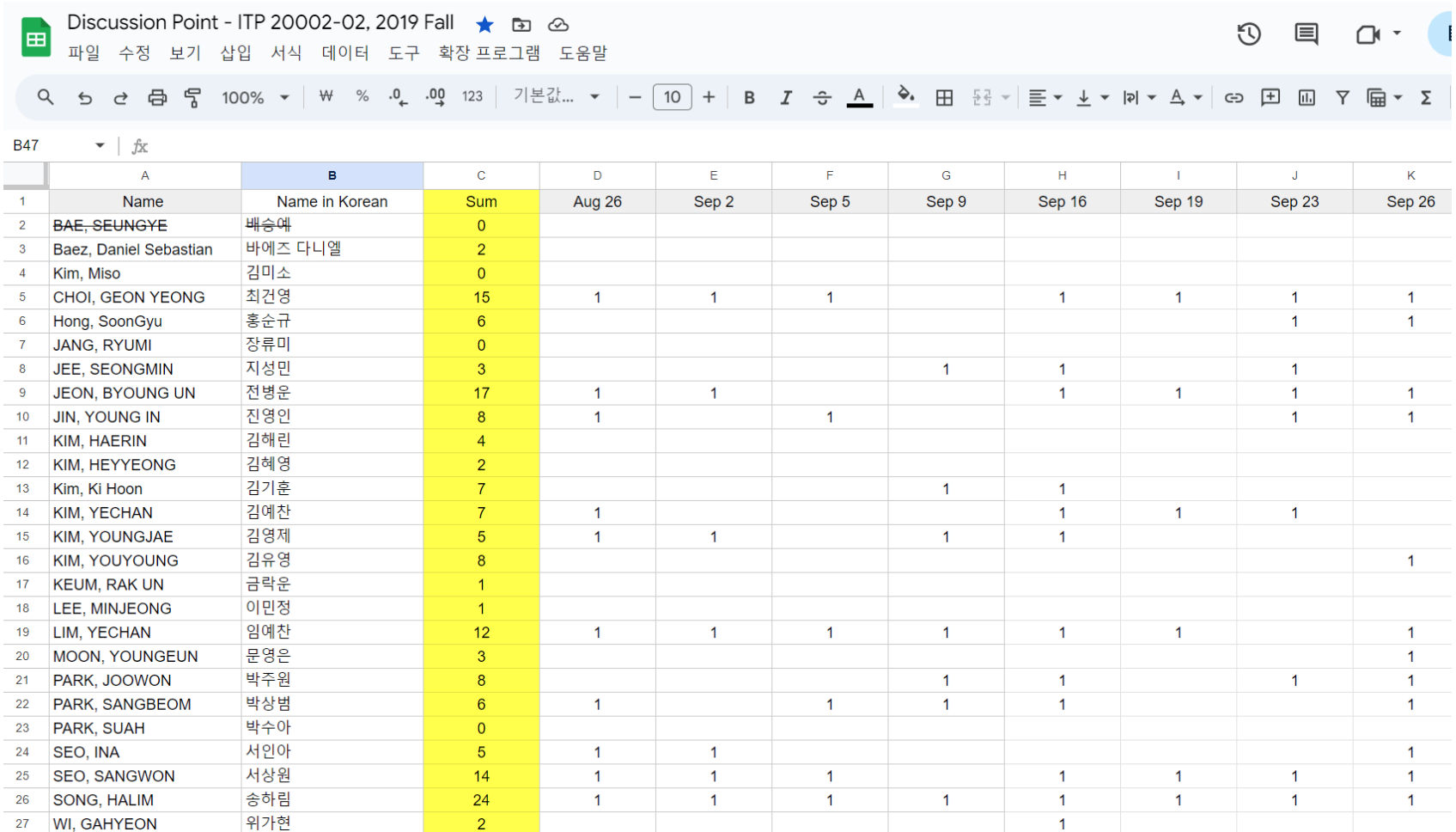
- Weights
  - Homework (weekly homework, assignments): 40%
  - Quiz (weekly quiz): 30%
  - Final exam: 20%
  - Attendance: 10%
  - Class participation: 10%

Class Participation (1/2)

- You receive a class contribution point if you raise a question, answer to a given question or participate in class discussion in any form
- Declare your point at Google spreadsheet

Class Participation (2/2)

- E.g., https://docs.google.com/spreadsheets/d/19nvV-A3t2h91FrRqZWfxdkZxAODeapoWcf1IZRY7xv4/edit#gid=0



Discussion Point - ITP 20002-02, 2019 Fall

파일 수정 보기 삽입 서식 데이터 도구 확장 프로그램 도움말

B47

	A	B	C	D	E	F	G	H	I	J	K
1	Name	Name in Korean	Sum	Aug 26	Sep 2	Sep 5	Sep 9	Sep 16	Sep 19	Sep 23	Sep 26
2	~~BAE, SEUNGYE~~	~~배승예~~	0								
3	Baez, Daniel Sebastian	바에즈 다니엘	2								
4	Kim, Miso	김미소	0								
5	CHOI, GEON YEONG	최건영	15	1	1	1		1	1	1	1
6	Hong, SoonGyu	홍순규	6							1	1
7	JANG, RYUMI	장류미	0								
8	JEE, SEONGMIN	지성민	3				1	1		1	
9	JEON, BYOUNG UN	전병운	17	1	1			1	1	1	1
10	JIN, YOUNG IN	진영인	8	1		1				1	1
11	KIM, HAERIN	김해린	4								
12	KIM, HEYYEONG	김혜영	2								
13	Kim, Ki Hoon	김기훈	7				1	1			
14	KIM, YECHAN	김예찬	7	1				1	1	1	
15	KIM, YOUNGJAE	김영제	5	1	1		1	1			
16	KIM, YOUYOUNG	김유영	8								1
17	KEUM, RAK UN	금락운	1								
18	LEE, MINJEONG	이민정	1								
19	LIM, YECHAN	임예찬	12	1	1	1	1	1	1		1
20	MOON, YOUNGEUN	문영은	3								1
21	PARK, JOOWON	박주원	8				1	1		1	1
22	PARK, SANGBEOM	박상범	6	1		1	1	1			1
23	PARK, SUAH	박수아	0								
24	SEO, INA	서인아	5	1	1						1
25	SEO, SANGWON	서상원	14	1	1	1		1	1	1	1
26	SONG, HALIM	송하림	24	1	1	1	1	1	1	1	1
27	WI, GAHYEON	위가현	2					1			

Weekly Quiz and Homework

- Weekly quiz (from Week 2)
  - First 10 minutes in every Fri class (except Week 1)
  - Copy the 3 to 5 key sentences from the previous OUAA chapter
  - Write the meaning of 5 words or expressions from the current OUAA chapter

- Weekly homework (from Week 1)
  - Have a reading group meeting
  - Submit a meeting report for each group
  - Submit a study note for each person

Weekly Reading Group Report

- Each group consists of 3 to 4 members
- A group must have at least 45 minutes meeting every week
  - Recite the full text of the assigned chapter
  - Study words and grammars found in the chapter

- Write a group meeting report electrically
  - Summarize the study no longer than 1-page
  - Attach a picture of your meeting
  - Submit it via Google form (TBA) by 12 PM, Fri

Meeting #5

Date : 2023. 04. 06
Participated Member : [redacted]

What We Did :

- ***Discussing Chapter 13, 15 and 16***

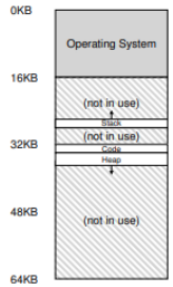
After learning about time sharing and its ideas, the next topic is about how we dynamically allocate memory space for different processes and programs. In order to achieve space sharing for memory, we implemented a new system called Virtual Memory. Instead of directly using memory space in the physical memory, by using a virtual memory we can assign each program a set amount of memory to work with.

- ***Policy vs Mechanism***

Regarding to past lectures, we talked about the exact difference between a mechanism and policy. Policy is basically the 'system', the theory behind a mechanism. A mechanism is some kind of a pseudo-code, that makes it possible to visualize the system. It's possible to think of it like this: in virtual memory, keeping track of free or occupied space is its mechanism and what it does when a segmentation fault occurs is a policy.
reference: https://www.8bitavenue.com/policy-vs-mechanism-in-operating-system/

- ***Interesting Questions***

When a virtual memory space is allocated to a physical memory, each part of a vm set (heap, code, stack) is allocated to different locations in the physical memory. Here we found ourselves with a question: if stack (or heap) keeps growing upwards(or downwards), what would happen if it were to collide with different parts of the code?
For example:



In this diagram, when the stack keeps growing and growing upwards, it surely will use up all the space until 16KB. What if it keeps growing even further though? What happens if it collides with the memory space that's currently occupied(in the diagram, by the OS)?

- ***Photo All Together! (Celebrating(?) Last Meeting)***

Reading Group

- 3 to 4 persons in a group
- Reading groups will be reassigned after five weeks
  - peer evaluation will follow right after the reassignment
- Send me a request of consideration by 9 PM today if needed
  - hongshin@gmail.com
- Group assignments will be announced before 12 PM tomorrow

Weekly Homework

- Study each chapter of OUAA and then handwrite a 1-page report every week
  - select and study the five sentence from the assigned chapter
  - summarize the words and expression

- Submit the hardcopy via mailbox 9 PM, Thur
  - make sure that you write your name and student number

Assignments

- In the “English for Software Engineering” part, you may receive an assignment to complete a class activity
  - in the alignment of a learnt topic (e.g., write a bug report)
  - up to 7 times
  - mostly as personal work

- You are prohibited for using writing assistant tools
  - welcome to use dictionary, thesaurus, and other books

Final Exam

- The final exam will be conducted in the last week
- A half of the questions will be on “English Background”, and the other half on “English for Software Engineering”
  - it may involve personal interviews partly

Language Policies

- All learning contents will be given in English
- Students can ask questions in Korean in class time
- Students must produce all results in English unless exceptionally allowed
- Writing assistant tools are forbidden in all tasks subject to evaluation, unless it is explicitly allowed

Necessary Conditions for Pass

Or, how to ensure getting F and officially off the classes

- Must attend at least 75% of the class (7 absents at max)
  - approved absent is counted as attended
- Must participate in 90% of reading group meetings
  - a case of approved absent is counted as participated
- Take final exam, and submit 90% of homework
- Do not conduct any form of academic dishonesties
  - use unallowed materials or tools in homework, quiz and exam
  - share your results to other students in homework, quiz and exam
  - etc.

Communication Channels

- All class materials will be shared via LMS
- Kakao Chat for timely communication
  - https://open.kakao.com/o/gwmxYvdg
- E-mail for administrative requests
  - hongshin@gmail.com
  - Start a title with "`[English]`" for auto-labelling

Entrance Survey

- https://forms.gle/uJWXJ9zGcFjKBRLS8
  - Mandatory
  - You can write answers in Korean