Lecture 27 – Course Review

COSE212: Programming Languages

Jihyeok Park



2023 Fall







Learn Essential Concepts of Programming Languages

• Why?



- Why?
 - To learn new programming languages quickly.



- Why?
 - To learn new programming languages quickly.
 - To **evaluate** and pick the best language for a given task.



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- How?



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By Implementing Interpreters using Scala

- You will learn how to define **syntax** and **semantics** of target languages.
- You will implement **interpreters** of the target languages.
- You will use **Scala** as an implementation language.



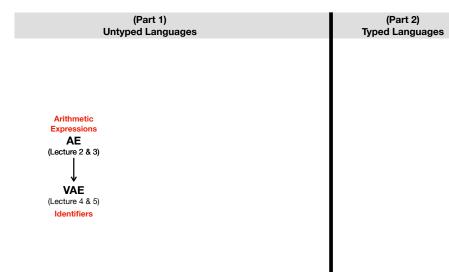
(Part 1) (Part 2)
Untyped Languages Typed Languages

Arithmetic Expressions

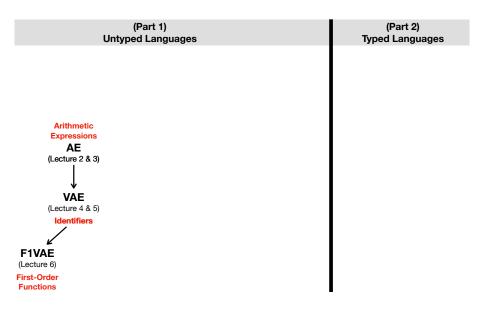
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(Lecture 2 & 3)

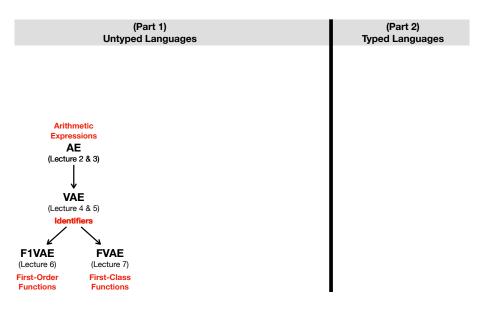




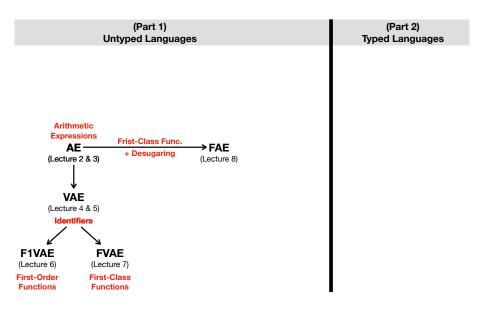




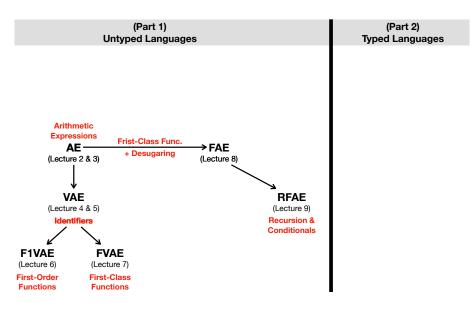




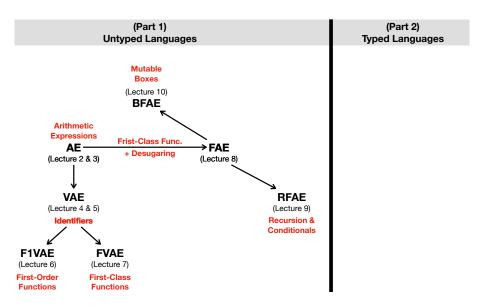




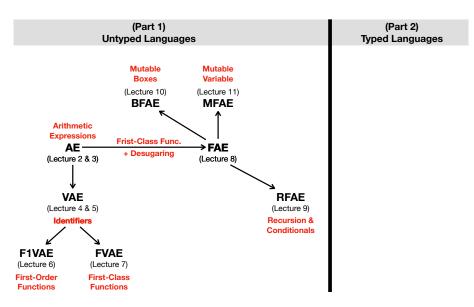




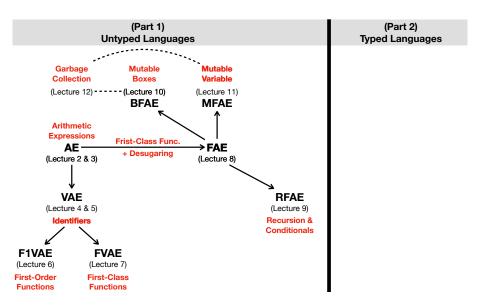




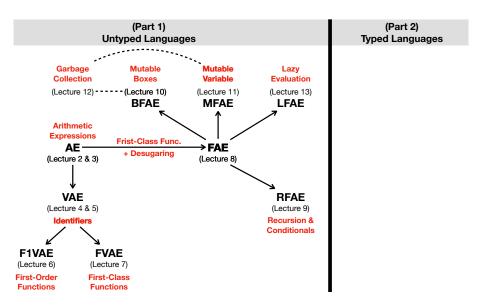




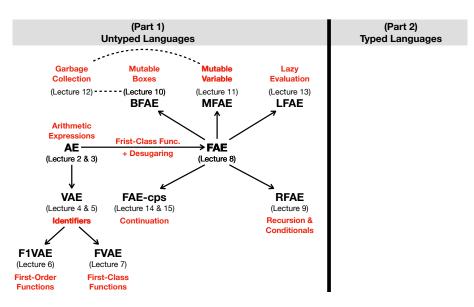




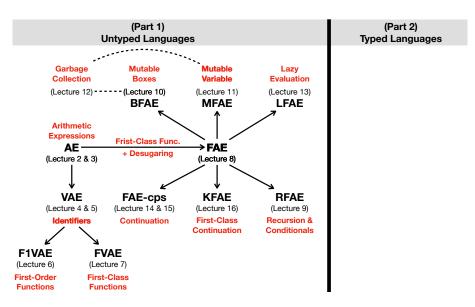




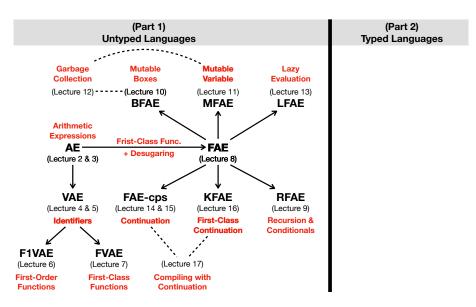




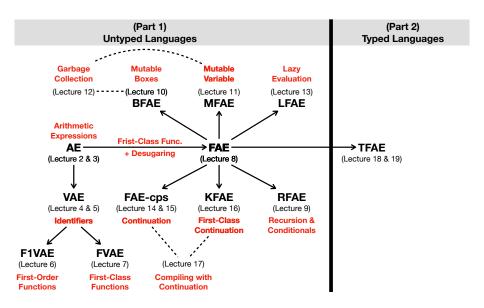




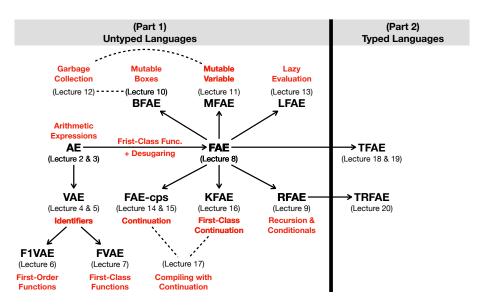




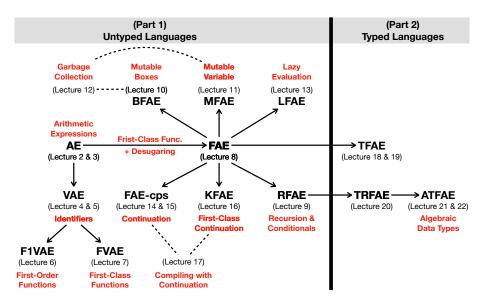




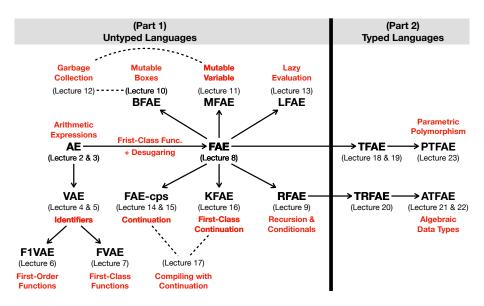




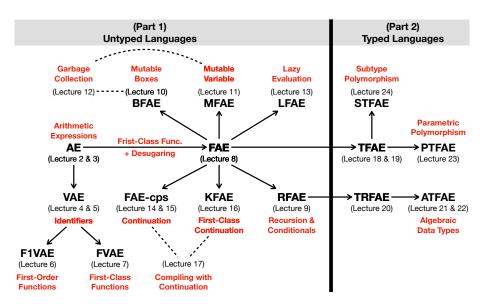




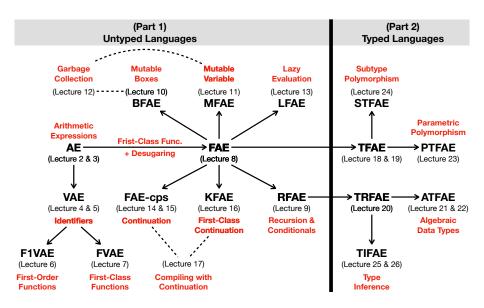












Final Exam



- The final exam will be given in class.
- **Date:** 13:30-14:45 (1 hour 15 minutes), December 20 (Wed.).
- **Location:** 535, Asan Science Building (아산이학관)
- Coverage: Lectures 14 24
- Format: 7–9 questions with closed book and closed notes
 - Fill in the blank in a Scala code snippet.
 - Define the syntax or semantics of extended language features.
 - Write the evaluation results of given expressions.
 - Yes/No questions about concepts in programming languages.
 - etc.
- Note that there is no class on December 18 (Mon.).

• I hope you enjoyed the class!

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