Stream Programming Summer 2019

Lecture Introduction — 26.02, 2017

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1 Acknowledgements

This lecture notes was made using notes provided by Adam Grygielski.

2 Overview

In this lecture we discussed contents of the lectures and scala programming language.

3 Contents

Class consists of lectures and laboratories. Grade is calculated using formula

$$Grade = 0.4 * Lecture + 0.6 * Lab$$

Topics of the lectures include:

1. Introduction to Scala (5 lectures)
2. Stream processing, stream architecture, Data Stream models
3. Sampling approaches to data streams
4. Frequency counter algorithms
5. Filtering streams
6. Stream databases
7. Application of stream processing

Literature As a suggested reading book "Programming in Scala" by M.Oderski, L.Spoon and B.Venners was suggested.

4 Scala

Some basic facts about Scala. The name comes as an abbreviation of "Scalable Language". It is a type-safe, multi paradigm language. It means it can be used as a functional language, as well as an object oriented one. Typical environments for Scala development are Eclipse or Intellij Idea.