CMPT 383 - D100 Programming Langs.

Instructor(s): Toby Donaldson

Calendar Objective/Description:
Programming Langs.

Instructor's Objectives:
A practice-oriented exploration of concepts and principles underlying the design and use of modern programming languages, including object-oriented programming and functional programming. Approximately every two weeks a new language will be discussed, such as LISP, Ruby, Haskell, Go, and Prolog.

Prerequisites:
see go.sfu.ca

Topics:
- Introduction to fundamental programming ideas and approaches
- Go: procedures and concurrency
- LISP (using Racket): lists, functional programming, and interactive programming
- Haskell: functional programming with types
- Ruby: dynamic and practical object-oriented language
- Prolog: logic programming

Grading:
The marking scheme will be provided in the first week of class.

Recommended Books:

Reference Books:
Programming Language Pragmatics, Michael L. Scott, Morgan Kaufmann, 2015, 9780124104099, General discussion of a wide variety programming language topics.

Academic Honesty Statement::
Academic honesty plays a key role in our efforts to maintain a high standard of academic excellence and integrity. Students are advised that ALL acts of intellectual dishonesty will be handled in accordance with the SFU Academic Honesty and Student Conduct Policies ( http://www.sfu.ca/policies/gazette/student.html ).