CMPT 383

Comparative Programming Languages
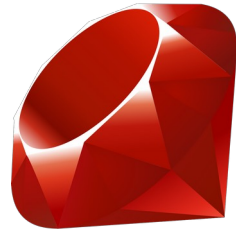
Summer 2022

SFU Surrey

Go
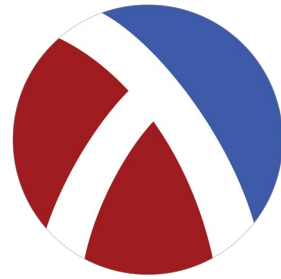
Interfaces
Concurrency
Statically typed

Efficient website
back-ends.

Ruby

Objects
Scripting
Dynamically typed

Convenient
scripting.

Racket (Lisp)

Lists
Functional
Dynamically typed

Experimenting
with languages.

Haskell

Functional
Type-oriented
Statically typed

Experimenting
with functional
programming.

Prolog

Logic
Declarative
Dynamically typed

Sophisticated
databases.

Themes

- **Syntax** for expressing computation
- **Static** (compile-time) vs **dynamic** (run-time)
- **Functional programming**
- Efficiency matters, but is not our major concern
  - Exploring the various ideas an features is our priority

https://canvas.sfu.ca/courses/70067

Assignments, submissions, discussions, announcements, syllabus.

https://csil-git1.cs.surrey.sfu.ca/cmpt-383-public/cmpt-383-summer-2022/383summer2022public

Weekly lecture notes, assignment details, language installation instructions.

All the languages are easy to install on Linux.

You can probably also get by using the website **repl.it**