

Workshop: Programming Languages

October 9, 2024

Tasks

- ▶ Write a program in your language
- ▶ Write a paper about your language
- ▶ Give a presentation on your language

Write a program in your language

- ▶ a simple grep clone
- ▶ sufficiently complex to learn the language
- ▶ (should) also require you to learn the infrastructure around the language
 - ▶ like package-management, etc...

Write a paper about your language

- ▶ 5000 Words
- ▶ should not be a tutorial on the language
- ▶ highlight what you find interesting/important about your language
- ▶ describe how you solved the programming task

Give a presentation on your language

- ▶ 20 minutes talk, with another 10 minutes of question time
- ▶ should also not be a tutorial on the language
- ▶ similar content to your paper (just very brief)

Git

- ▶ you should create a new `git` repository (eg. on github or gitlab)
- ▶ send us the link within the next week.
- ▶ all your code for the program/paper/presentation must be there
- ▶ the paper must and the presentation should be done in \LaTeX

Milestones

- ▶ during the workshop we want to see different milestones completed
- ▶ until November 29th: an outline of your paper
- ▶ until December 13th: the completed program
- ▶ until January 10th: an complete version of your paper
- ▶ until January 24th: a preliminary version of your presentation
- ▶ since all of the above should reside in your `git` repository, there is no need to manually hand in anything

The programming languages

- ▶ C
- ▶ C++
- ▶ Rust
- ▶ D
- ▶ Go
- ▶ Ruby
- ▶ Crystal
- ▶ Kotlin
- ▶ Haskell
- ▶ Clojure
- ▶ Nim
- ▶ Zig
- ▶ Smalltalk/(Pharo)
- ▶ Dart
- ▶ Delphi/Pascal
- ▶ OCaml
- ▶ Scala
- ▶ Perl/Raku

Presentations

- ▶ presentations will be held at the end of the semester
- ▶ two appointments will be made (ca. 5 hours each)
- ▶ attendance is mandatory

That is all

if you have any questions, contact me at
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