

CS 3520: Programming Languages

Fall 2018	Language	Assignment (due at end of week)
Aug 20-24	Forth	
Aug 27-31		
Sep 3-7 (<i>Labor Day</i>)		Forth
Sep 10-14	Standard ML	
Sep 17-21		Standard ML
Sep 24-28		Standard ML
Oct 1-5	Simple interp	Standard ML
Oct 8-12 (<i>Fall break</i>)	Lisp interp	Simple interp
Oct 15-19		
Oct 22-26	Scheme interp	Lisp interp
Oct 29-Nov 2	Prolog	
Nov 5-9		Scheme interp
Nov 12-16		Prolog
Nov 19-23 (<i>Thanksgiving</i>)		Prolog
Nov 26-30	Lua	
Dec 3-7		Lua

Changes to the schedule will be announced in class.

Resources

- [Syllabus](#)
- [Examples from class](#)
- [Easy Forth](#)
- [Starting Forth](#)
- [jonesforth \(assembly part\)](#)
- [jonesforth \(forth part\)](#)
- [ML slides](#)
- [Prolog slides part 1](#) (first look, rules, operators, lists)
- [Prolog slides part 2](#) (second look, unification, execution model, adventure game)
- [Prolog slides part 3](#) (cost models)
- [Prolog slides part 4](#) (third look, numeric computation, knapsack, 8-queens)
- [Lua 5.1 Reference Manual](#)
- [Learn X in Y minutes: Lua](#)
- [Lua: Passing a Language through the Eye of a Needle](#)

Assignments

Assignments are due at the end of the week they are assigned. The official deadline is 7:00 am on Monday morning of the following week.

Submit all work via Canvas unless otherwise instructed.

- [Forth missionaries and cannibals assignment \[html\] \[pdf\]](#)
- Standard ML assignments can be found in CodeGrinder
 - The first ML assignment is also [available here](#).
- Interpreter assignments can be found in CodeGrinder
- Prolog assignments can be found in CodeGrinder
- [Lua Markov babblers \[html\] \[pdf\]](#)

Final project languages

In place of a final exam, each student will learn one additional language, write some code in that language, and present it to the rest of the class. Here are a few potential choices:

- Factor
- Smalltalk or Self (Blake, Franco, Robby)
- Haskell (Dakota, Kenny, Donovan)
- OCaml or F# (Shelly, Dylan, Emily)
- Clojure
- Rust (John, Keric, Samuel)
- Perl (Kacy, Crystal, Kylyn)
- Erlang or Elixir (Allison, Andrew)
- APL or J (Parker, Cameron, Nathan)
- Eiffel (Aaron, Heidi)
- Minecraft (Keith)