

CS 3520: Programming Languages

Fall 2017	Language	Assignment (due at end of week)
Aug 21-25	Standard ML	
Aug 28-Sep 1		Standard ML
Sep 5-8 (<i>Labor Day</i>)		Standard ML
Sep 11-15	Simple interp	Standard ML
Sep 18-22	Lisp interp	Simple interp
Sep 24-29		
Oct 2-6	Scheme interp	
Oct 9-11 (<i>Fall Break</i>)		Lisp interp
Oct 16-20	Prolog	Scheme interp
Oct 23-27		Prolog
Oct 30-Nov 3		Prolog
Nov 6-10	Lua	
Nov 13-17		Lua
Nov 20-21 (<i>Thanksgiving</i>)	Forth	
Nov 27-Dec 1		
Dec 4-7		Forth

Changes to the schedule will be announced in class.

Resources

- [Syllabus](#)
 - [Examples from class](#)
 - [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](#)
 - [Easy Forth](#)
 - [Starting Forth](#)
 - [jonesforth \(assembly part\)](#)
 - [jonesforth \(forth part\)](#)
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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.

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

- Algol
- Fortran (Adam M, Cameron, Brandon)
- Cobol
- Factor
- Smalltalk or Self
- Common Lisp or Scheme
- Haskell (Anthony, Jared, Wyatt)
- OCaml or F# (Brad, Justin, Adam K)
- Clojure
- Scala (Travis, Lane, Taz)
- Rust (Marvin, Will, Bredyn)
- Perl (Carl, Joshua, and Cruz)
- Erlang or Elixir
- APL or J
- Eiffel (Christian, Wesley, Tyson)