OCaml

Getting Started Reference Sheet

Administrivia

- ♦ Command line interpreter, REPL, begun with ocaml and exited with exit 0;;
 - All expressions in REPL must be terminated with ;;, not so in a script.

- ♦ Only multi-line, nestable, comments: (* ... *).
- All declarations are preceded by let or let rec for recursive ones.
- ♦ Sequencing is via; and the result is the value of the final expression.
- ♦ Anonymous functions use the syntax: fun x ... x -> ...
 - o function in-place of fun also works.
 - \circ In fix functions can be used in prefix by enclosing them in parens; e.g., (+) 1 2.
- Double quotes for strings, single quote for characters, and a single quote may be used as part of an identifier.
 - String catenation with (^).
 - Not arrays, or lists, of characters as in C or Haskell.
 - Expected Print.printf string args.
 - Also print_string and read_line ().

Lists

- ♦ Syntax: [x; ...; x]
 - o Tuples are optionally enclosed in parens; hence [x, ..., x] is a singleton list consisting of only one tuple!
- ♦ Expected functionals: List.nth for list lookup, List.map, List.filter, etc.
- ♦ Cons operation is denoted ::.
- ♦ Arrays have syntax [|x; ...; x|] with 0-indexing lookup arr.(n).