

Pointfrip Documentation

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"PF guides the programmer in a way
so that the constructed functions are always pure."

Design Goals

- Infix-combinator mechanism
- with object orientation using arrays and index types (object classes)
- Vocabulary is built on a system of emergence + specialization
- FP as a nestable language - strict form of structured programming
- no gotos only calls, tail recursion support
- Function level ,Type level
- Aligned with APL's right-before-left rule
- Separation into pure functions and monad effects
- Pattern Matching for Dict
- dynamic scope because only instance variables
- (out-of-the-box)

Precompiler + FP Interpreter

- Type-oriented automaton (higher-order)
- Infix-combinator mechanism (infix meta combination)

Extensibility of the Language

Extensibility based on the ideas of Guy Steel's "Growing a Language".

the FP project is equipped with an object mechanism, so that one can define and inherit objects and classes and can address them in four different ways.

So you

- complex classes,
 - fraction classes,
 - interval classes,
 - matrix classes
- etc. can add.

There is also the possibility of meta-programming for the FP language in order to extend the scope of the language (unlike Java) in the direction that you can add your own loops and control structures.

Last Changes:

- hex function implemented,
- pointersize function implemented,
- reference.rtf/.tmdx extended
- LGPL license,
- Optimized interpreter (eval) of the VM,
- cosmetic work on the source code
- Documents translated into English,
- outerprod implemented in matrix.txt
- CP implemented in matrix.txt
- cosmetic work on MM in matrix.txt
- foldl and foldr implemented in standard.txt
- httpget implemented in actunit and system.txt
- “;” changed to “.. {list}”
- exe compiled with Lazarus IDE 2.2.4
- changed some “|” to “;” which Backus used in cond.
- “in” and “replace” implemented in standard.txt
- “where” and “Yn” implemented
- fassign “<-” fix for error messages
- get and put changed, parsejson implemented