Reference Arrows

(define-struct goo (size img))
;; Goo is (make-goo Natural Image)
;; ListOfNatural is one of:
;; - empty
;; - (cons Natural ListOfNatural)

(define-struct bar (sim num))
;; Bar is one of:
;; false
;; (make-bar Goo ListOfNatural)

(define-struct foo (nm whg ty))
;; Foo is (make-foo String Natural Bar)
;; ListOfFoo is one of:
;; - empty
;; - (cons Foo ListOfFoo)

Call Arrows

(define (fn-for-goo g)
  (... (goo-size g)
       (goo-img g)))

(define (fn-for-lon lon)
  (cond [(empty? lon) (...)]
       [else (... (first lon)
                 (fn-for-lon lon)]))

(define (fn-for-bar b)
  (cond [(false? b) (...)]
       [else (... (fn-for-goo (bar-sim b))
                 (fn-for-lon (bar-num b)))]))

(define (fn-for-foo f)
  (... (foo-nm f)
       (foo-whg f)
       (fn-for-bar (foo-ty f))))

(define (fn-for-lof lof)
  (cond [(empty? lof) (...)]
       [else (... (fn-for-foo (first lof))
                 (fn-for-lof (rest lof)))]))