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Yohei Yasukawa
;; missile
; Definitions for missile
(define DEF IMG )
(define MIS MOV 1)
(define BG WIDTH 500)
(define BG HEIGHT 500)
(define T EDGE 0)
(define EMPTY SCENE (empty-scene BG WIDTH BG HEIGHT))
(define missile-init (make-posn 100 100))
:: missile-tick: Status -> Status
; calculates the state following the given state if only
time passes
(define (missile-tick current)
  (move-up current))
;; touch-top-wall? : Status -> boolean
; determine if a given object is touching a wall on the
top.
(define (touch-top-wall? current)
  (cond
   [(<= (posn-y current) T EDGE) true]</pre>
   [else false]
   ) )
(check-expect (touch-top-wall? (make-posn 0 T EDGE)) true)
(check-expect (touch-top-wall? (make-posn 10 10)) false)
;; move-up : Status -> Status
; move a given object to the top in 1 px
(define (move-up current)
  (if (touch-top-wall? current)
     current
     (make-posn (posn-x current)
                (- (posn-y current) MIS MOV))
     ) )
(check-expect (move-up (make-posn 0 10)) (make-posn 0 9))
(check-expect (move-up (make-posn 0 T EDGE)) (make-posn 0
T EDGE))
```