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#lang slideshow
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;CS 320 Fall 2018: Extra Credit Scheme Program
;29.99 Points
;12/15/2018

(require 2htdp/image)
(define (lascannon)
  (vc-append
    (right-triangle 10 35 "solid" "white") ;spacer
    (rectangle 10 50 "outline" "black")
    (rectangle 10 5 "solid" "black")
    (rectangle 10 3 "outline" "black")
    (rectangle 3 60 "outline" "black")
    (rectangle 8 5 "outline" "black")
    (rectangle 2 15 "solid" "black")))
(define (rwing)
  (vc-append
    (flip-horizontal (right-triangle 100 30 "solid" "white")) ;spacer
    (flip-horizontal (right-triangle 100 20 "outline" "black"))
    (flip-horizontal (rectangle 100 40 "outline" "black"))))
(define (lwing)
  (vc-append
    (right-triangle 100 30 "solid" "white") ;spacer
    (right-triangle 100 20 "outline" "black")
    (rectangle 100 40 "outline" "black")))
(define (engine)
  (vc-append
    (hc-append
      (flip-horizontal (right-triangle 3 10 "solid" "black"))
      (rectangle 3 10 "outline" "black")
      (rectangle 3 10 "outline" "black")
      (rectangle 3 10 "outline" "black")
      (rectangle 3 10 "outline" "black")
      (right-triangle 3 10 "solid" "black"))
    (rectangle 15 5 "outline" "black")
    (rectangle 13 30 "outline" "black")
    (rectangle 13 5 "solid" "black")
    (rectangle 20 50 "outline" "black")
    (rectangle 20 7 "outline" "orange")))
(define (cockpit)
  (cc-superimpose
    (rectangle 36 40 "outline" "black")
    (rectangle 20 40 "solid" "black")))
(define (body)
  (vc-append
    (rectangle 50 20 "solid" "white") ;spacer
    (hc-append
      (flip-horizontal (right-triangle 10 10 "outline" "black"))
      (rectangle 30 10 "outline" "black")
      (right-triangle 10 10 "outline" "black"))
    (cbl-superimpose (cc-superimpose (rectangle 50 100 "outline" "black") (rectangle 30 100
"solid" "black")) (circle 8 "solid" "blue"))
    (hc-append
      (flip-horizontal (flip-vertical(right-triangle 7 10 "outline" "black")))
      (rectangle 36 10 "outline" "black")
      (flip-vertical (right-triangle 7 10 "outline" "black")))
    (cockpit)
    (hc-append
      (flip-horizontal (flip-vertical(right-triangle 8 120 "outline" "orange")))
      (rectangle 20 120 "outline" "black"))

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(flip-vertical (right-triangle 8 120 "outline" "orange"))
(hc-append
 (flip-horizontal (flip-vertical(right-triangle 5 30 "outline" "black")))
 (rectangle 10 30 "solid" "black")
 (flip-vertical (right-triangle 5 30 "outline" "black"))))
(define (fullLwing)
 (ht-append (engine) (ht-append (lwing) (lasercannon))))
(define (fullRwing)
 (ht-append (ht-append (lasercannon) (rwing)) (engine)))
(define (x-wing)
 (ht-append (fullRwing) (body) (fullLwing)))
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