

HW0 - Maya Burns

Maya Burns

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```
draw_cat <- function() {  
  op <- par(mar = c(0, 0, 0, 0))  
  on.exit(par(op), add = TRUE)  
  
  plot.new()  
  plot.window(xlim = c(0, 1), ylim = c(0, 1), asp = 1)  
  # Head  
  symbols(0.5, 0.55, circles = 0.28,  
          inches = FALSE, add = TRUE, fg = "black", bg = "white")  
  # Ears  
  polygon(c(0.32, 0.40, 0.45), c(0.72, 0.92, 0.72), col = "white")  
  polygon(c(0.55, 0.60, 0.68), c(0.72, 0.92, 0.72), col = "white")  
  
  # Inner ears  
  polygon(c(0.35, 0.40, 0.43), c(0.73, 0.86, 0.73), col = "pink", border = NA)  
  polygon(c(0.57, 0.60, 0.65), c(0.73, 0.86, 0.73), col = "pink", border = NA)  
  
  # Eyes  
  symbols(c(0.42, 0.58), c(0.60, 0.60),  
          circles = c(0.03, 0.03), inches = FALSE, add = TRUE, bg = "black")  
  
  symbols(c(0.42, 0.58), c(0.61, 0.61),  
          circles = c(0.01, 0.01), inches = FALSE, add = TRUE, bg = "white")  
  # Nose  
  polygon(c(0.49, 0.51, 0.50), c(0.54, 0.54, 0.50), col = "pink")  
  
  # Mouth  
  lines(c(0.50, 0.47), c(0.50, 0.47), lwd = 2)  
  lines(c(0.50, 0.53), c(0.50, 0.47), lwd = 2)  
  # Whiskers  
  segments(0.28, 0.52, 0.42, 0.50, lwd = 2)  
  segments(0.28, 0.48, 0.42, 0.48, lwd = 2)  
  segments(0.28, 0.44, 0.42, 0.46, lwd = 2)  
  
  segments(0.72, 0.52, 0.58, 0.50, lwd = 2)  
  segments(0.72, 0.48, 0.58, 0.48, lwd = 2)  
  segments(0.72, 0.44, 0.58, 0.46, lwd = 2)  
}  
  
draw_cat()
```

