# Comparación del área humana (16 000 km²) frente a la superficie terrestre emergida

# Requiere: ggplot2

# install.packages("ggplot2")

library(ggplot2)

# Datos

land\_area\_km2 <- 148000000 # Superficie terrestre emergida (km²)

human\_area\_km2 <- 16000 # Área humana (km²)

# Porcentaje

percentage <- human\_area\_km2 / land\_area\_km2 \* 100

pct\_label <- sprintf("%.6f %%", percentage)

human\_label <- paste0(formatC(human\_area\_km2, big.mark = ","), " km²")

# Data frame

df <- data.frame(

 category = c("Tierra emergida", "Área humana"),

 km2 = c(land\_area\_km2, human\_area\_km2)

)

# Gráfico lineal

g <- ggplot(df, aes(x = category, y = km2, fill = category)) +

 geom\_col(show.legend = FALSE) +

 scale\_y\_continuous(labels = scales::comma) +

 labs(

 title = "Área humana vs superficie terrestre emergida (lineal)",

 subtitle = paste0("Área humana = ", human\_label, " (", pct\_label, ")"),

 x = NULL, y = "km²"

 ) +

 theme\_minimal(base\_size = 12) +

 theme(axis.text.x = element\_text(size = 11)) +

 geom\_text(aes(label = ifelse(category == "Área humana", human\_label, "")),

 vjust = -0.5, size = 3)

# Mostrar

print(g)

# Guardar como PNG (opcional)

ggsave("area\_humana\_vs\_tierra\_emergida.png", g, width = 8, height = 6, dpi = 300)