2024-09-12

# Setup

data(mtcars)  
library(easystats)

# Attaching packages: easystats 0.7.3  
✔ bayestestR 0.14.0 ✔ correlation 0.8.5   
✔ datawizard 0.12.3 ✔ effectsize 0.8.9   
✔ insight 0.20.4 ✔ modelbased 0.8.8   
✔ performance 0.12.3 ✔ parameters 0.22.2  
✔ report 0.5.9 ✔ see 0.9.0

library(tidyverse)

── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
✔ dplyr 1.1.4 ✔ readr 2.1.5  
✔ forcats 1.0.0 ✔ stringr 1.5.1  
✔ ggplot2 3.5.1 ✔ tibble 3.2.1  
✔ lubridate 1.9.3 ✔ tidyr 1.3.1  
✔ purrr 1.0.2

── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
✖ dplyr::filter() masks stats::filter()  
✖ dplyr::lag() masks stats::lag()  
ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

# First model

<https://stats-nutshell.netlify.app/050-regression1#first-model-one-metric-predictor>

lm1\_freq <- lm(mpg ~ hp, data = mtcars)

Extract parameters of the model:

parameters(lm1\_freq) |>   
 print\_md()

| Parameter | Coefficient | SE | 95% CI | t(30) | p |
| --- | --- | --- | --- | --- | --- |
| (Intercept) | 30.10 | 1.63 | (26.76, 33.44) | 18.42 | < .001 |
| hp | -0.07 | 0.01 | (-0.09, -0.05) | -6.74 | < .001 |

plot(parameters(lm1\_freq))

