

car_emissions Co2

2025-03-03

```
carData <- read_csv("carData.csv")

## New names:
## Rows: 220 Columns: 9
## -- Column specification
## ----- Delimiter: "," chr
## (1): car dbl (8): ...1, day, con, rep, hc, co2, co, dev
## i Use `spec()` to retrieve the full column specification for this data. i
## Specify the column types or set `show_col_types = FALSE` to quiet this message.
## * `` -> `...1`

#read in data set
Yugo_emissions <- carData |>
  select(day, co2, car, dev) |>
  filter(car == "Yugo") |>
  group_by(day, dev) |>
  summarise(Avg_emission = mean(co2, na.rm = TRUE))

## `summarise()` has grouped output by 'day'. You can override using the `.groups`
## argument.

Yugo_Co2 <- ggplot(Yugo_emissions, aes(x = day, y = Avg_emission, colour = dev, group = dev)) +
  geom_line(size = 1) + # Line color and thickness
  geom_point(size = 2) + # Add points for clarity
  labs(title = "Yugo Co2 Emissions", x = "Day", y = "Co2 Emissions") +
  theme_minimal()

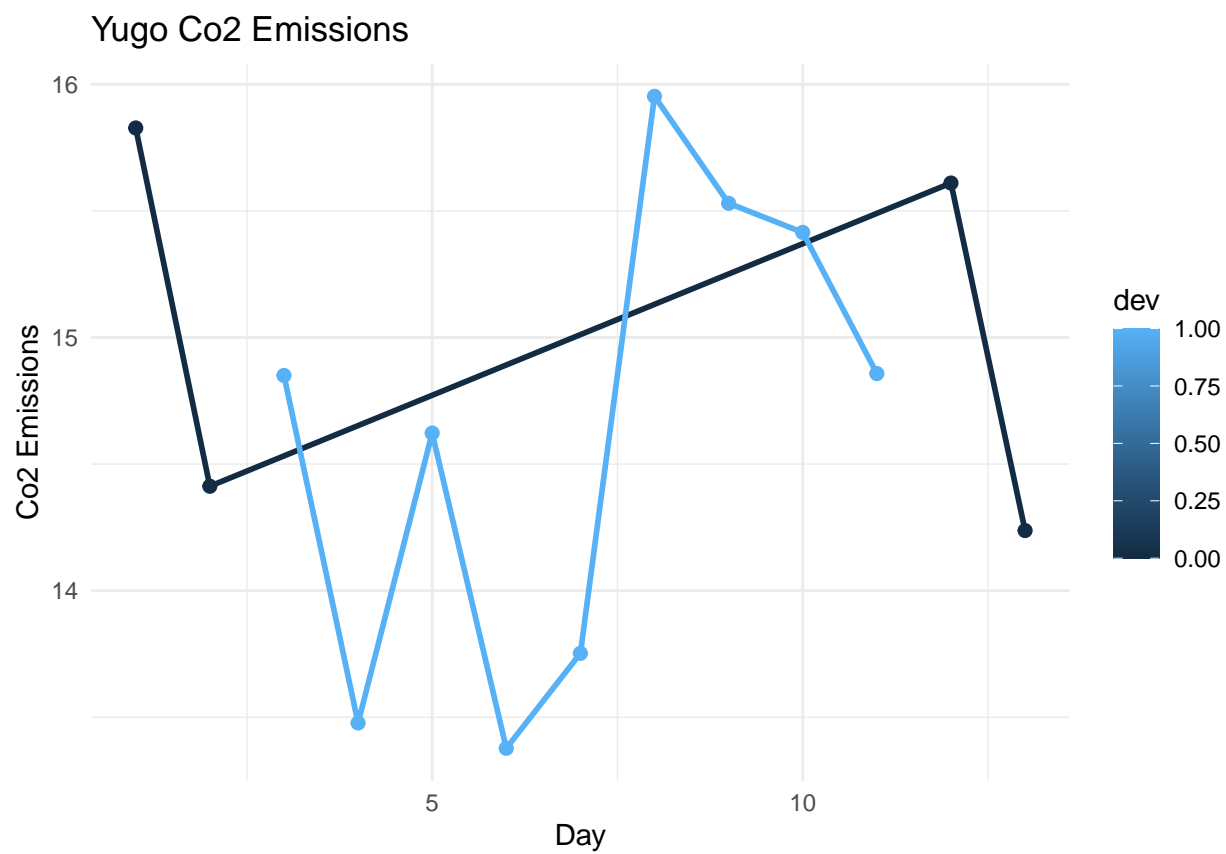
## Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.
## i Please use `linewidth` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.

Bentley_emissions <- carData |>
  select(day, co2, car, dev) |>
  filter(car == "Bentley") |>
  group_by(day, dev) |>
  summarise(Avg_emission = mean(co2, na.rm = TRUE))

## `summarise()` has grouped output by 'day'. You can override using the `.groups`
## argument.

Bentley_Co2 <- ggplot(Bentley_emissions, aes(x = day, y = Avg_emission, colour = dev, group = dev)) +
  geom_line(size = 1) + # Line color and thickness
  geom_point(size = 2) + # Add points for clarity
  labs(title = "Bentley Co2 Emissions", x = "Day", y = "Co2 Emissions") +
  theme_minimal()
```

Yugo_Co2



Bentley_Co2

