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()
```

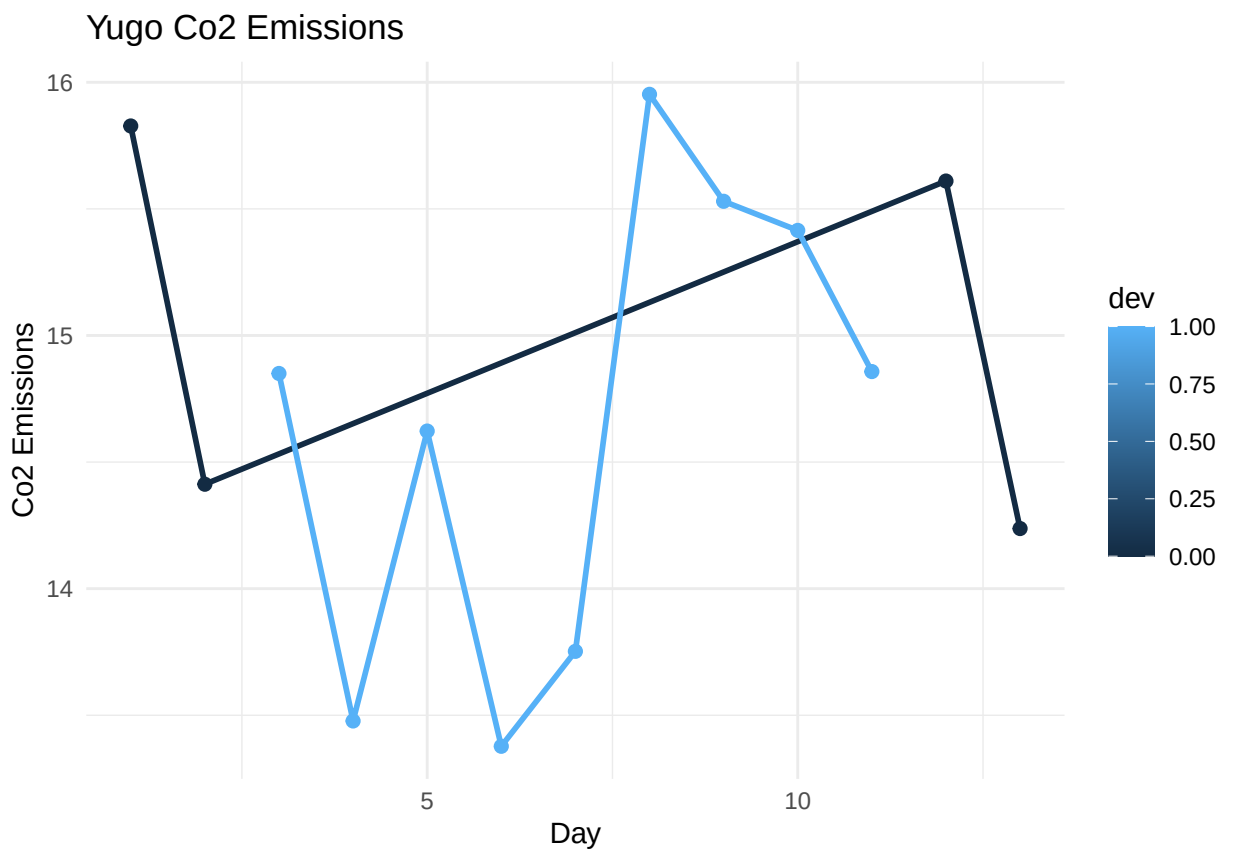
```
## Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.
## i Please use `linewidth` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

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

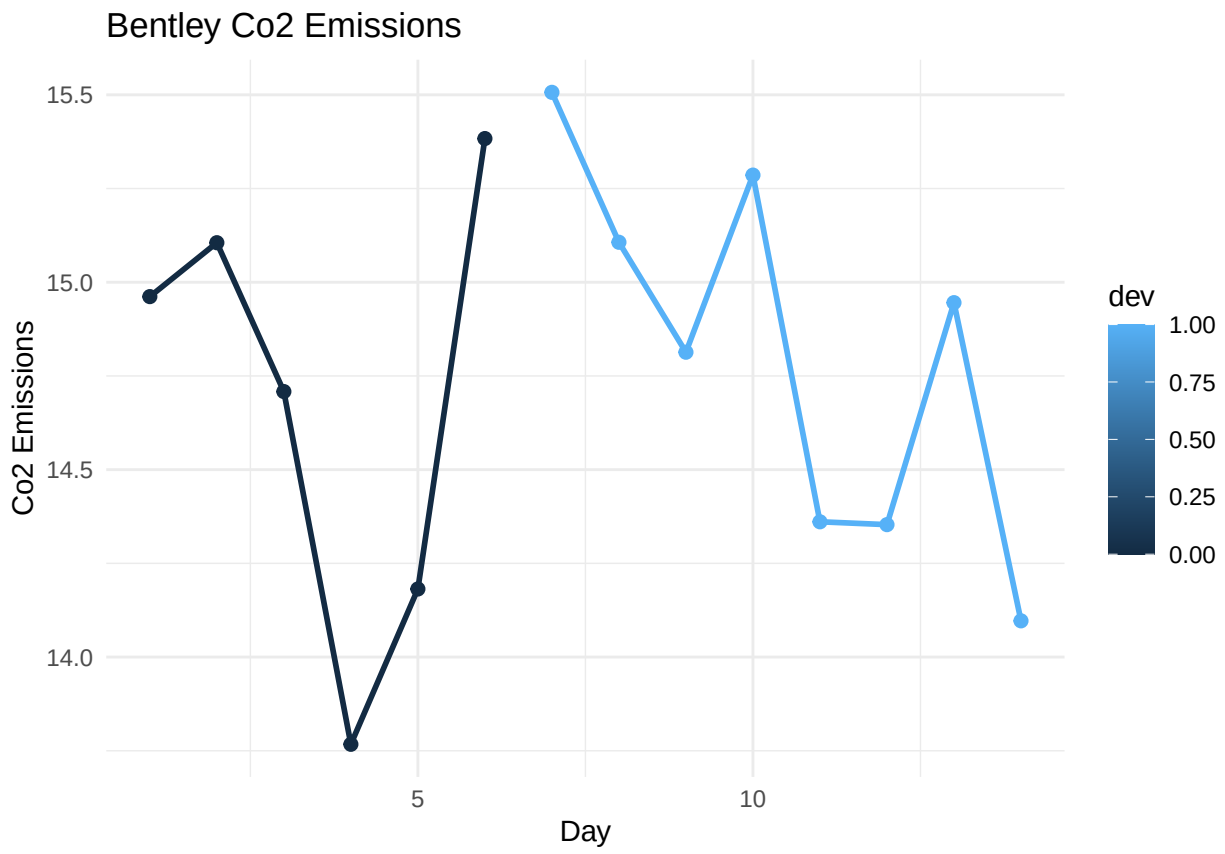
```
## `summarise()` has grouped output by 'day'. You can override using the `.groups`
## argument.
```

```
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
```


Bentley Co2 Emissions
15.5
15.0
14.5
14.0
Co2 Emissions
5
10
Day
dev
1.00
0.75
0.50
0.25
0.00