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R ×
                                                                           Run
                                                                                      Save
 1 # Load necessary libraries
 2 library(ggplot2)
4 # Step 1: Create mock data directly in R
                                                                 Output
 5 year <- 2000:2025
6 crude_oil_price <- c(22, 24, 25, 28, 32, 40, 50, 60, 70,
                        110, 105, 96, 60, 45, 50, 65, 70, 75
                                                                   Call:
8 inflation <- c(3.2, 3.5, 3.8, 4.1, 4.3, 5.2, 6.5, 6.8, 7.
                                                                   lm(formula = inflation ~
9
                  10.1, 9.8, 8.5, 5.0, 4.0, 4.5, 5.0, 5.2, 5
10
                                                                   Residuals:
11 # Combine into a data frame
                                                                       Min
                                                                                10 Median
12 df <- data.frame(year, crude oil price, inflation)</pre>
                                                                   -1.6329 -0.9875 -0.0021
13
14 # Step 2: Line Plot for Trends
                                                                   Coefficients:
15 ggplot(df, aes(x = year)) +
                                                                                   Estimate
     geom_line(aes(y = crude_oil_price, color = "Crude Oil F
16
     geom_line(aes(y = inflation * 10, color = "Inflation Ra
                                                                   (Intercept)
                                                                                   2.268683
17
18
    scale_y_continuous(
                                                                   crude oil price 0.056466
19
       name = "Crude Oil Price",
20
       sec.axis = sec_axis(~./10, name = "Inflation Rate (%)
                                                                   Signif. codes:
21
22
     labs(title = "Crude Oil Prices vs Inflation (2000-2025)
                                                                   Residual standard error:
     scale_color_manual(values = c("Crude Oil Price ($/bbl)"
                                                                   Multiple R-squared: 0.70
     theme minimal()
24
                                                                   F-statistic: 58.03 on 1 a
25
26 # Step 3: Linear Regression Model
                                                                   `geom smooth()` using for
27 model <- lm(inflation ~ crude_oil_price, data = df)
28 summary(model)
                                                                   [Execution complete with
29
30 # Step 4: Regression Plot
                                                                     Crude Oil Prices vs Inflation (2000...2025)
31 ggplot(df, aes(x = crude_oil_price, y = inflation)) +
32
     geom_point(color = "darkgreen", size = 3) +
     geom smooth(method = "lm", se = TRUE, color = "black")
33
     labs(title = "Linear Regression: Crude Oil Price vs Inf
34
          x = "Crude Oil Price ($/bbl)", y = "Inflation Rate
35
     theme_minimal()
36
37
```



## Supported languages

| Deno   | JavaScript | NodeJS             | Python   | Ruby       | Go     |
|--------|------------|--------------------|----------|------------|--------|
| С      | C++        | Java               | C#       | TypeScript | PHP    |
| Bash   | R          | Octave<br>(MATLAB) | Fortran  | Lua        | Erlang |
| SQL    | MySQL      | MongoDB            | Clojure  | D          | Perl   |
| Kotlin | Swift      | Rust               | Assembly |            |        |

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