

Untitled

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9. October, 2025

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This document generates the key exploratory data analysis figures for the bachelor’s project. The code is organized into chunks for clarity and reproducibility.

...

0.0.1. Overview Figures

This section provides a general overview of the data sources and the raw comparison between the original treatment and control groups.

```
##| label: fig-overview ##| fig-cap: “An overview of the data sources and the  
raw comparison between the original treatment and control groups.” ##| fig-  
width: 10 ##| fig-height: 5 ##| echo: false
```

1. — Harmonize Y-axis for Figure 1 —

```
y_min_fig1 <- min(c(plot_A_dataavgmilex, plotBdataavg_milex), na.rm =  
TRUE) y_max_fig1 <- max(c(plot_A_dataavgmilex, plotBdataavg_milex),  
na.rm = TRUE) y_limits_fig1 <- c(y_min_fig1, y_max_fig1)
```

2. — Create individual plots for Figure 1 —

```
plot_A <- ggplot(plot_A_data, aes(x = year, y = avg_milex, color =  
source, group = source)) + geom_line(linewidth = 1) + geom_point(size  
= 2.5) + geom_vline(xintercept = 2022, linetype = “dashed”, color =  
“black”) + scale_x_continuous(breaks = seq(2014, 2025, by = 2)) +  
scale_y_continuous(limits = y_limits_fig1) + labs(title = “A: Data Source
```

```
Comparison", x = "Year", y = "Avg. Military Spending (% GDP)", color = NULL)
+ theme_minimal(base_size = 12) + theme(legend.position = "bottom")
```

```
plot_B <- ggplot(plot_B_data, aes(x = year, y = avg_milex, color
= group_label, group = group_label)) + geom_line(linewidth = 1) +
geom_point(size = 2.5) + geom_vline(xintercept = 2022, linetype = "dashed",
color = "black") + scale_x_continuous(breaks = seq(2014, 2025, by = 2),
limits = c(2014, 2025)) + scale_y_continuous(limits = y_limits_fig1) +
labs( title = "B: Treatment vs. Original Control", subtitle = "Note: Uses
SIPRI data for comparability.", x = "Year", y = NULL, color = NULL ) +
theme_minimal(base_size = 12) + theme(legend.position = "bottom")
```

3. — Combine Figure 1 —

```
plot_A + plot_B
```