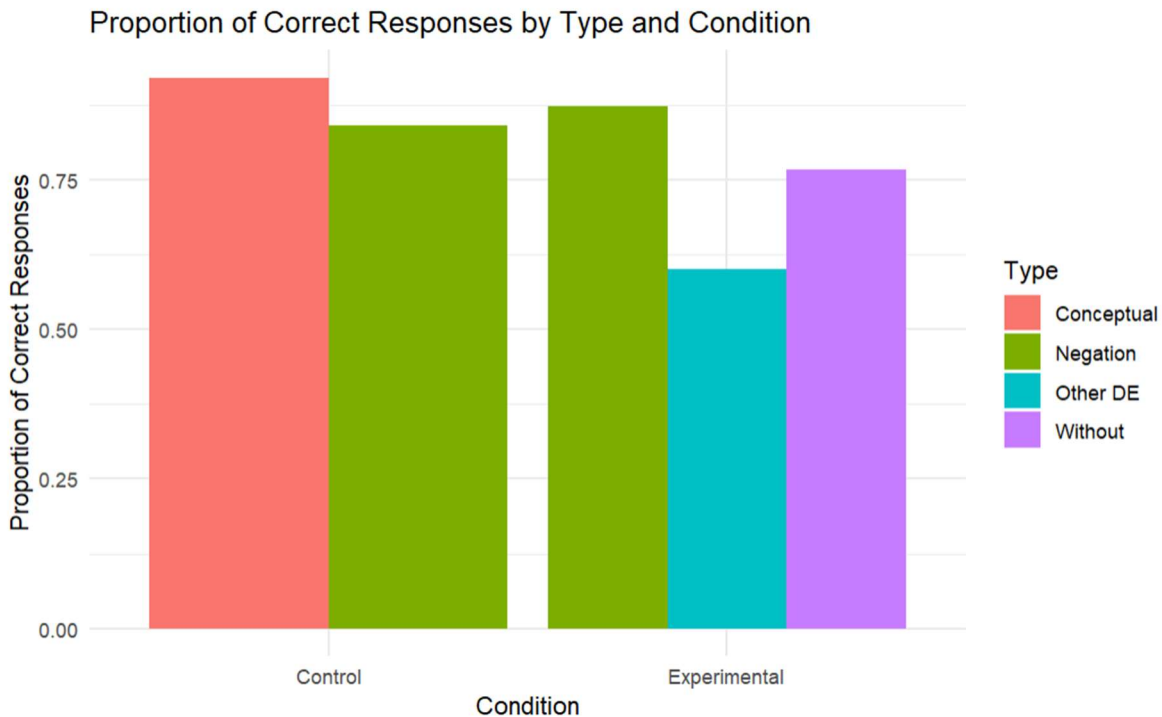


# LLM Logic Contradiction Task Plots

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## R Appendix

```
knitr::opts_chunk$set(echo = FALSE, comment = NA)
# importing packages and data
library(tidyverse)
dataset =
read_csv("C:/CS_programs/Python/LLM_Logic/data/output_responses_C.csv")
dataset <- dataset %>%
  group_by(Condition, Type) %>% # change to Type
  mutate(Correct = Contradictory_cont == Response) %>%
  count(Correct) %>%
  mutate(Percentage = n / sum(n)) %>%
  filter(Correct == TRUE)
# plotting
ggplot(dataset, aes(x = Condition, y = Percentage, fill = Type)) +
  geom_bar(stat = "identity", position = "dodge") +
  labs(title = "Proportion of Correct Responses by Type and Condition",
       x = "Condition",
       y = "Proportion of Correct Responses") +
  theme_minimal()
```