Final Exam Practice

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1 Introduction

In this paper, we will replicate the results from "Civic Honesty Around the Globe" (Cohn et al. 2019). Anything I call an "extra challenge" is available for the intrepid among you, but is not required.

To submit your final exam, knit this .Rmd to a PDF and post it to eLC.

2 Data

Replication files are available here, and I have already downloaded them into the data/folder. Let's load the behavioral data.

```
data <- read_csv('data/behavioral data (csv file).csv')</pre>
```

3 Results

3.1 Replicating Figure 1

First, let's replicate the left-hand side of Figure 1. To do so, we need to perform the following steps:

• Keep only the Money and NoMoney conditions.

- Recode the cond variable as "Money" and "NoMoney".
- Compute the average response rate, grouped by country and condition.
- Plot a scatter with reporting rate on the x-axis, country on the y-axis, and colored by monetary condition.

As an extra challenge, you can:

- Rearrange the y-axis so that the countries with the lowest reporting rate appear at the bottom and those with the highest reporting rate appear at the top.
- Include the line segments between points from the original figure
- Use the colors from the original figure

```
fig1 <- data %>%
 filter(cond %in% c(0,1)) %>%
 mutate(cond = case_when(cond == 1 ~ 'Money',
                          cond == 0 ~ 'NoMoney')) %>%
  # compute reporting rate by country and monetary condition
 group_by(Country,
          cond) %>%
  summarize(pct_reported = mean(response)) %>%
  # # sort by reporting rate
  # ungroup %>%
  # arrange(pct_reported) %>%
  # mutate(Country = factor(Country, levels = unique(Country))) %>%
  # plot
 ggplot() +
  geom_point(aes(x=pct_reported, y=Country, color = factor(cond))) +
 labs(x = 'Reporting rate (%)', y = '', color = 'Condition') +
 theme_minimal()
fig1
```

```
cond) %>%
  summarize(pct_reported = mean(response)) %>%
  # pivot_wider to make those line segments
 ungroup %>%
 pivot_wider(names_from = cond, values_from = pct_reported) %>%
  # sort by NoMoney reporting rate
  arrange(NoMoney) %>%
 mutate(Country = factor(Country, levels = unique(Country))) %>%
 ggplot() +
  geom_segment(aes(x=Money, xend=NoMoney, y=Country, yend=Country),
               color = 'gray', size = 0.5) +
 geom_point(aes(x=Money,y=Country), color = 'red') +
 geom_point(aes(x=NoMoney,y=Country), color = '#F6BE00') +
  geom_text(aes(x=NoMoney-3, y=Country, label = Country), size = 2) +
 labs(x = 'Reporting rate (%)', y = '', color = 'Condition') +
 theme_classic() +
 theme(axis.text.y = element_blank(),
        axis.ticks.y = element_blank())
fig1a
```

References

Cohn, Alain, Michel André Maréchal, David Tannenbaum, and Christian Lukas Zünd. 2019. "Civic Honesty Around the Globe." *Science* 365 (6448): 70-73. https://doi.org/10.1126/science.aau8712.

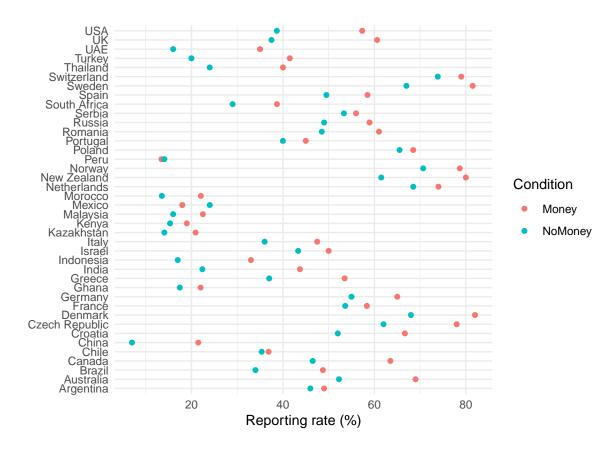


Figure 1: Share of wallets reported in the NoMoney and Money conditions, by country.

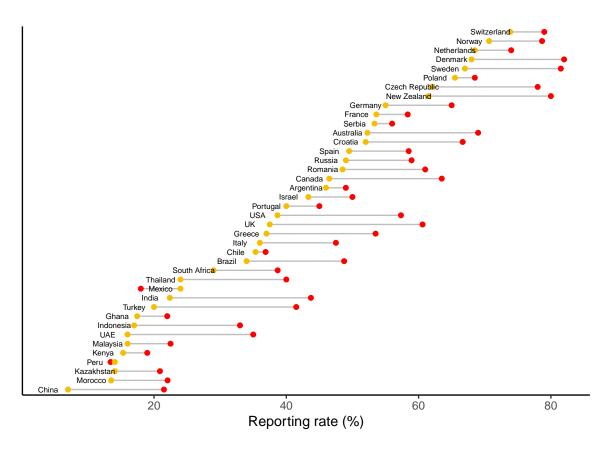


Figure 2: Share of wallets reported in the NoMoney and Money conditions, by country.