Civil wars and international trade

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Instructions:

Follow the instructions step-by-step. Name your .rmd as follows: $your_surname_lab7.rmd$. For instance,

sichinava lab7.Rmd

Context:

In this exercise, we will replicate a study done by Resat Bayer and Matthew Rupert. Authors investigated the effect of civil wars on international trade. They argue that the countries engaged in international trade perceive their partners' internal instability as a threat. We are going to examine two hypotheses presented by Bayer and Rupert:

- Civil wars reduce bilateral trade
- One country's participation in the other country's civil war reduces bilateral trade

Download the paper from here, and the data from here: https://goo.gl/AofSPW

Descriptive statistics

First, let's examine what our dataset looks like. In the table below I summarize variables analyzed in this paper.

dtrade is the variable which we are going to analyze. It summarizes the total trade in logged dollars between two countries. Build a histogram of dtrade using ggplot library. Use custom colors and labels for the chart. Below is a minimal example of a such chart.

Table 1: Descriptives

Variable Definition

dtrade Volume of trade (logged)

civilwar Civil war

cw_join Member of the dyad participates in another country's civil war

```
ggplot(bayrup, aes(x=dtrade))+
geom_histogram()
```

Hypothesis testing

In order to evaluate the hypothesis, run two linear regression models. In both cases, the dependent variable is dtrade, while in one case we explain it with civilwar and in another case we use cw_join as an explanatory variable.

Run both models and give a substantive explanation of results.

How to submit?

Zip and submit your files to this link before the start of the next class.