

# Quality of Life in Eastern Europe Countries

Hayley Parrish

June 2023

## Contents

<b>Introduction</b>	<b>1</b>
Gapminder . . . . .	1
Regime Changes . . . . .	1
Variables . . . . .	2
Area of Focus . . . . .	2
<b>The Data</b>	<b>2</b>
Population . . . . .	2
GDP . . . . .	4
Life Expectancy . . . . .	6
Fertility . . . . .	7
Infant Morality . . . . .	9
<b>Summary</b>	<b>10</b>

## Introduction

### Gapminder

The Gapminder dataset contains the health and income outcomes for 184 countries from 1960 to 2016. In this project, I will be using the gapminder data set to compare the health and overall quality of life of Eastern European countries to the general population of Europe from 1960 to 2016 over different regime changes. *For more information on this data set please visit [gapminder.org](https://gapminder.org)*

### Regime Changes

For the purpose of this project, regime changes refer specifically to changes in Russian leadership and policy. I will be focusing on three specific eras:

1. Soviet Union 1960-1990
2. Post Soviet Union 1991-2011
3. Putin Second Term 2012-2016

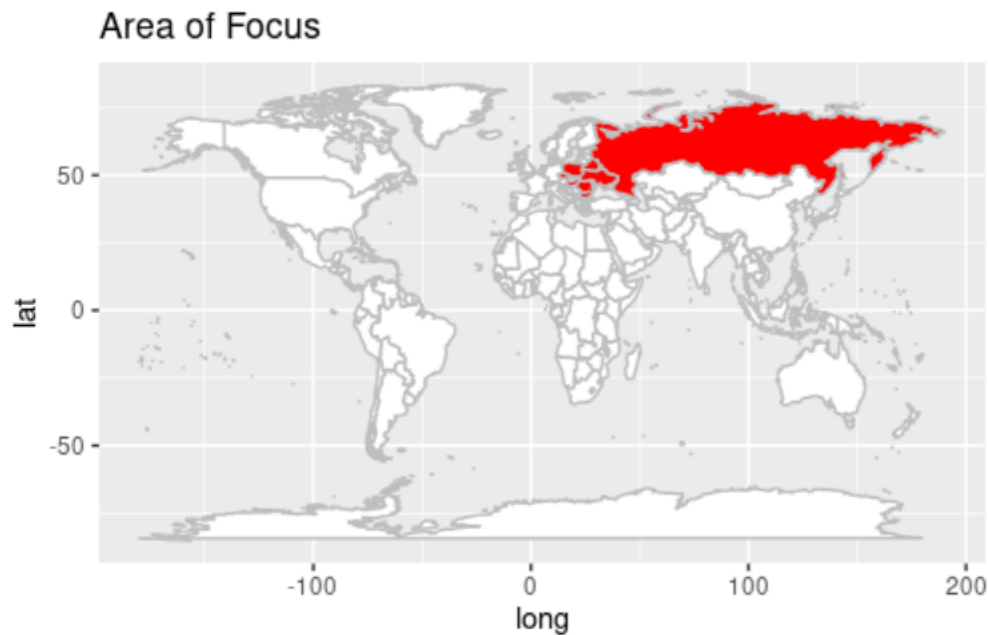
## Variables

The variables being measured will be:

- Population
- GDP
- Life Expectancy
- Fertility
- Infant Mortality

## Area of Focus

The gapminder defines *Eastern Europe* as follow: Russia, Ukraine, Poland, Romania, Slovak Republic, Moldova, Bulgaria, Belarus, Hungary, Czech Republic.



---

## The Data

### Population

Table 1: Average Population in Eastern Europe

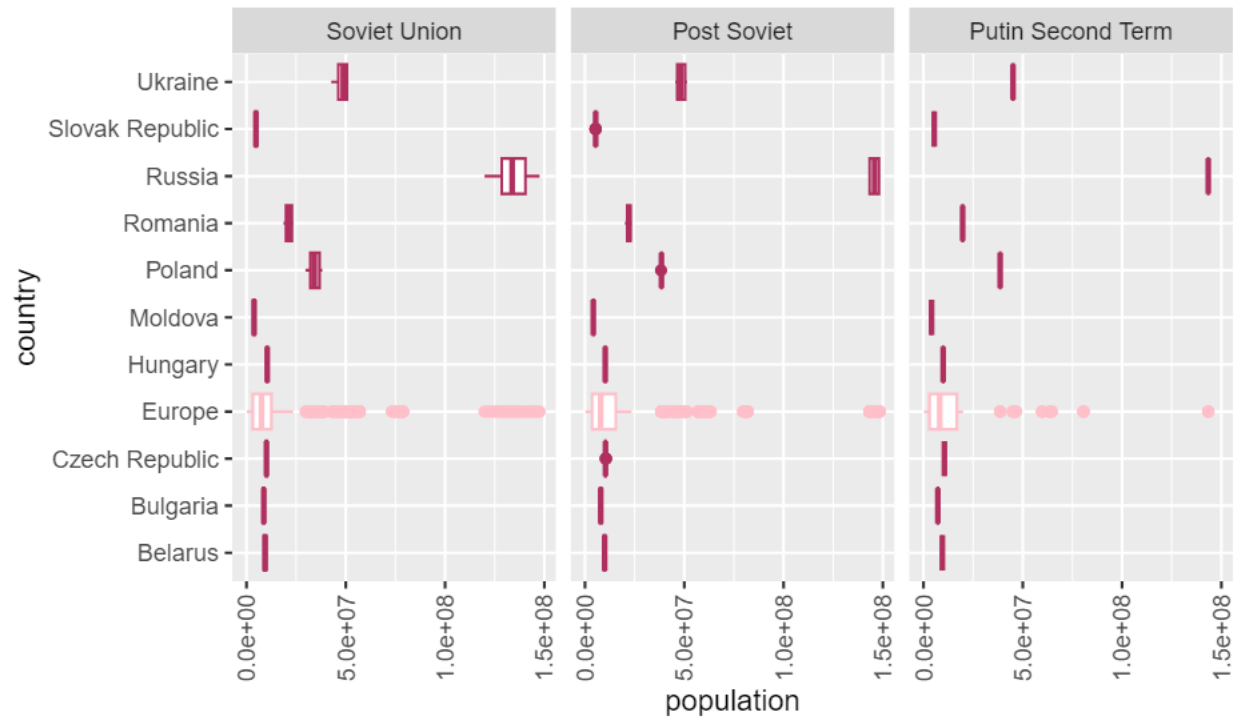
regime_change	avg
Soviet Union	28502056
Post Soviet	30258512
Putin Second Term	29347095

Table 2: Average Population in Eastern

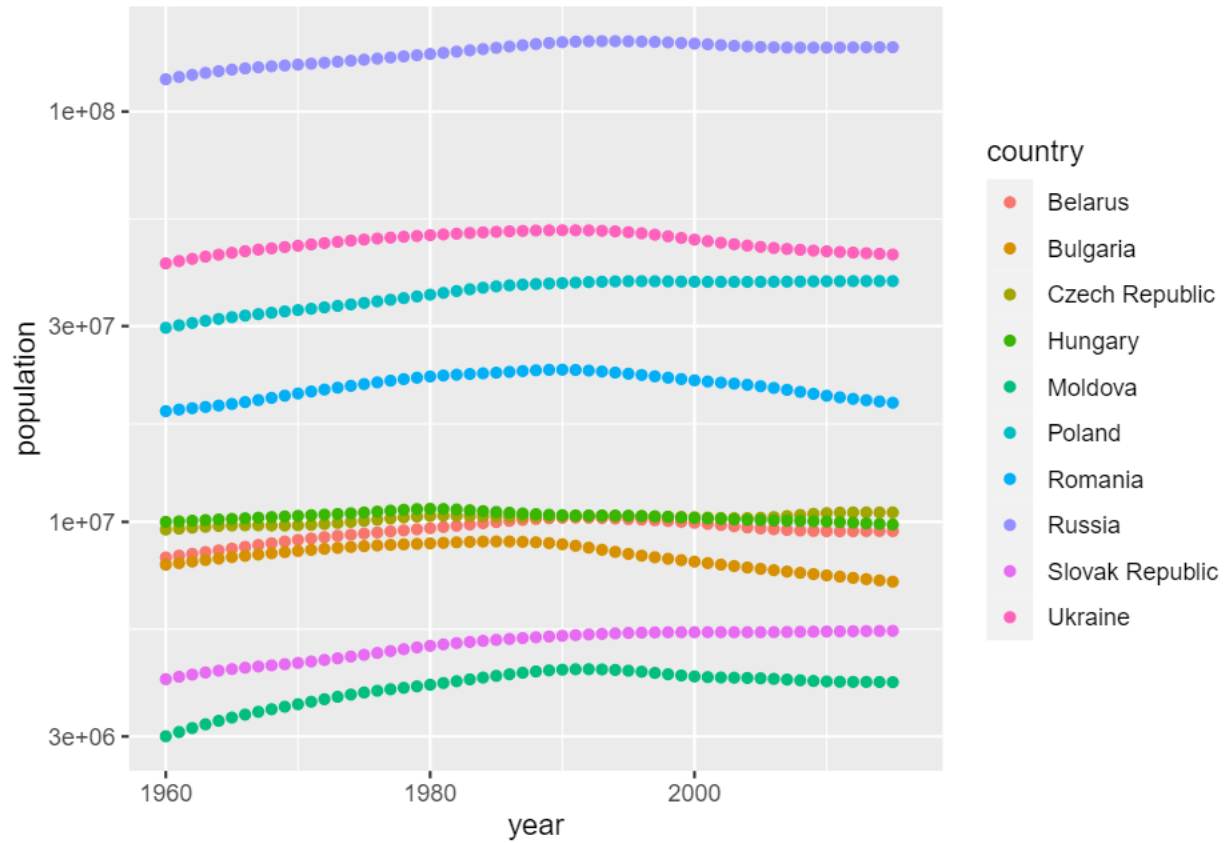
regime_change	avg
Soviet Union	17232483
Post Soviet	18672695
Putin Second Term	18903826

## Population in Eastern Europe vs Europe 1960–2016

by country



data source: dslabs package



## NULL

GDP

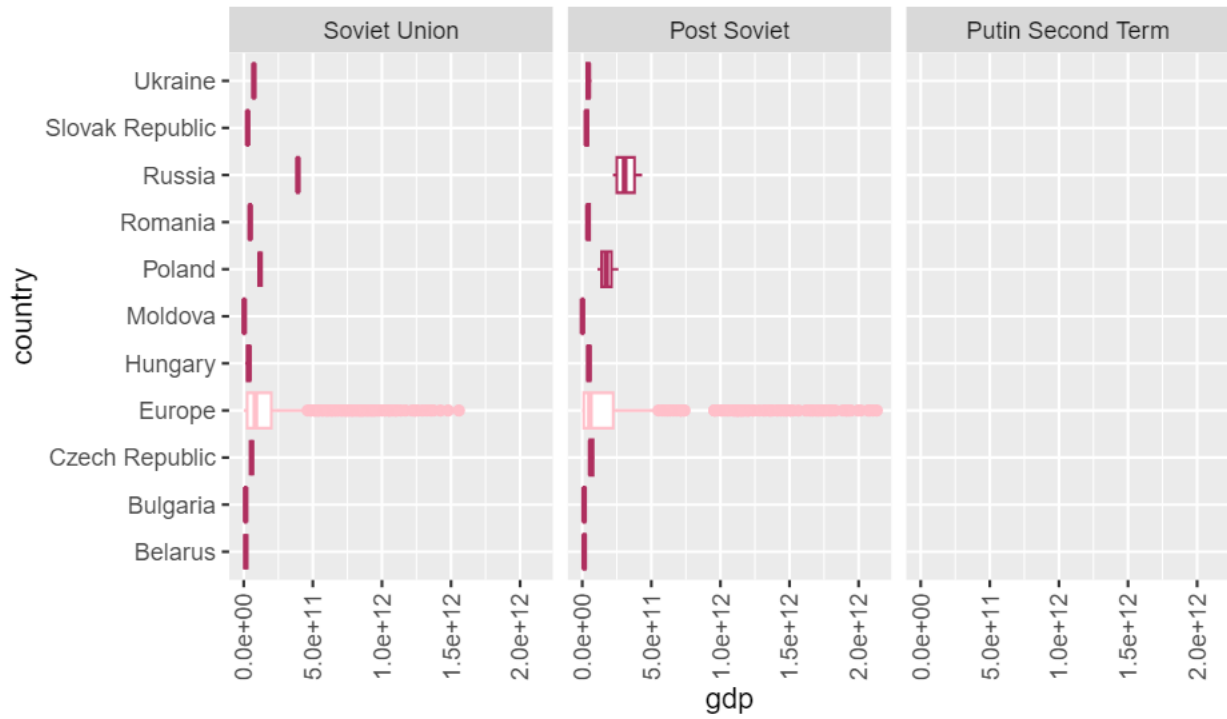
Table 3: Average GDP in Eastern Europe

regime_change	avg
Soviet Union	40557413210
Post Soviet	75969875901
Putin Second Term	NaN

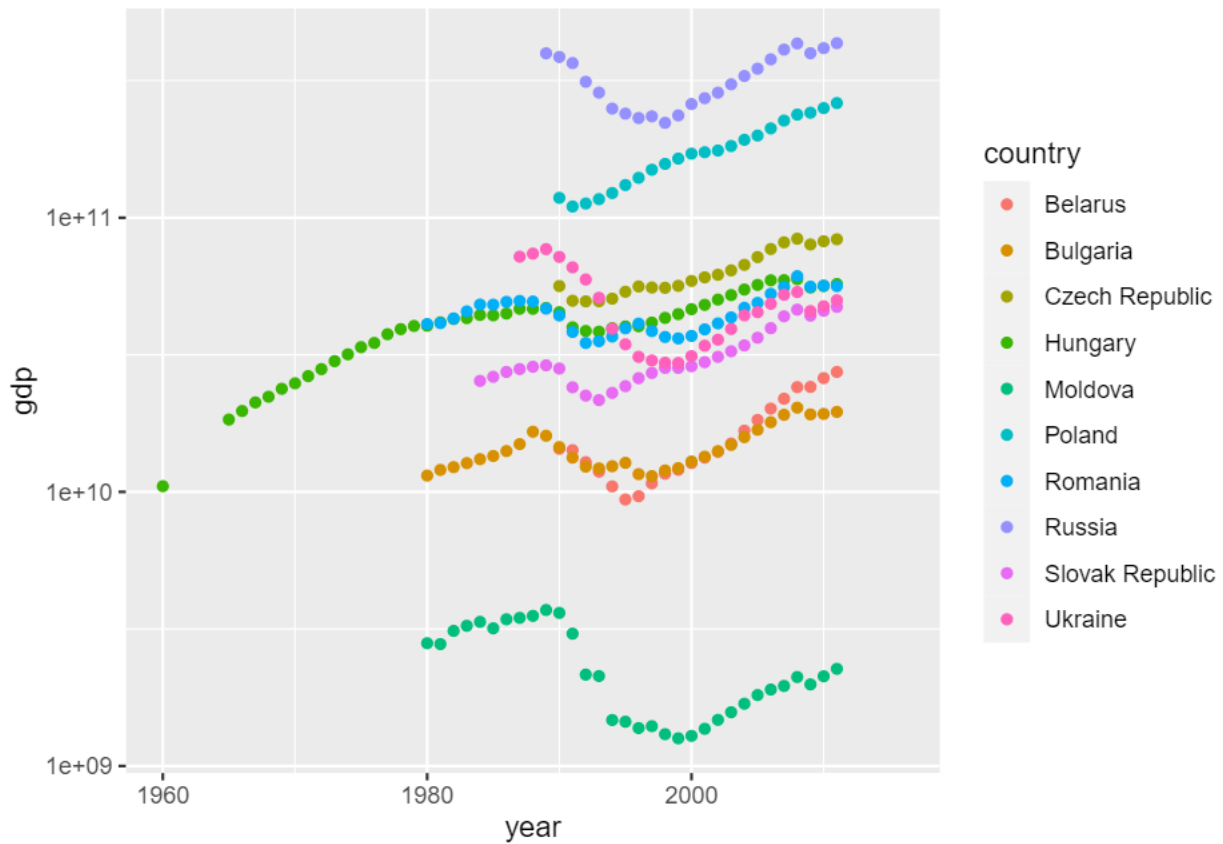
Table 4: Average GDP in Europe

regime_change	avg
Soviet Union	210014235706
Post Soviet	245151097433
Putin Second Term	NaN

## GDP in Eastern Europe vs Europe 1960–2016 by country



data source: dslabs package



```
## NULL
```

### Observations

> A notable amount of data is missing from this portion of the gapminder data set and results may be skewed or missing.

## Life Expectancy

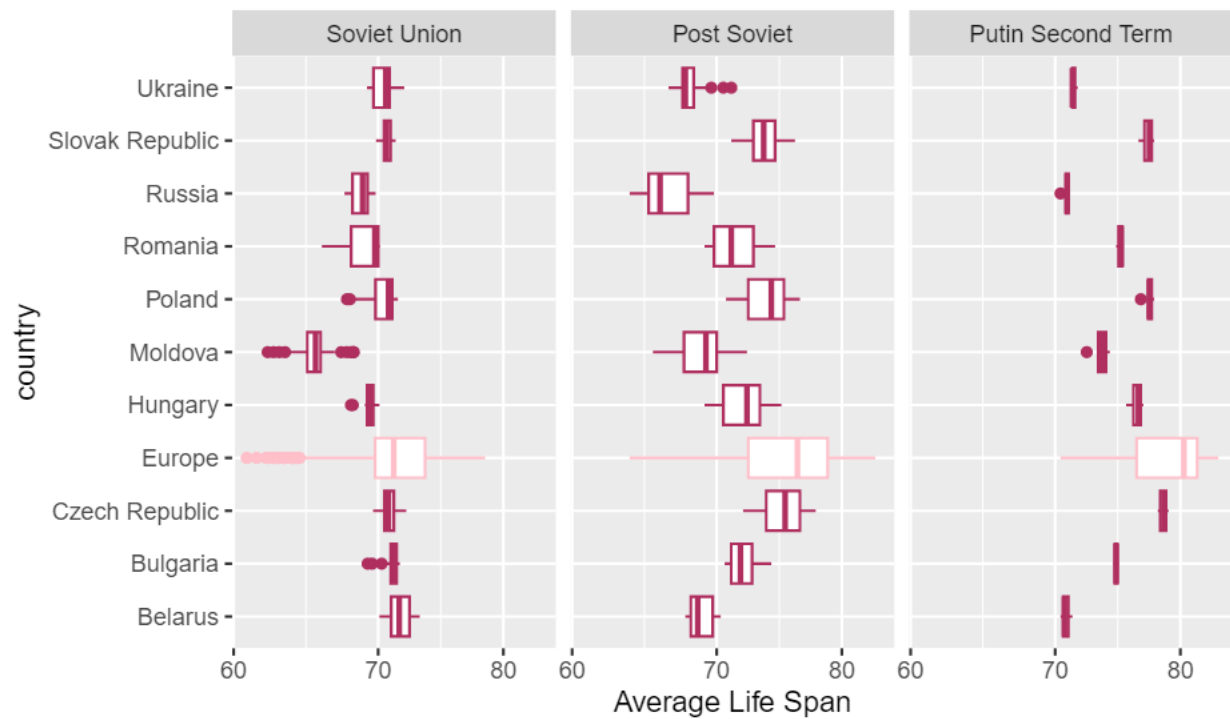
Table 5: Average Life Expectancy in Eastern Europe

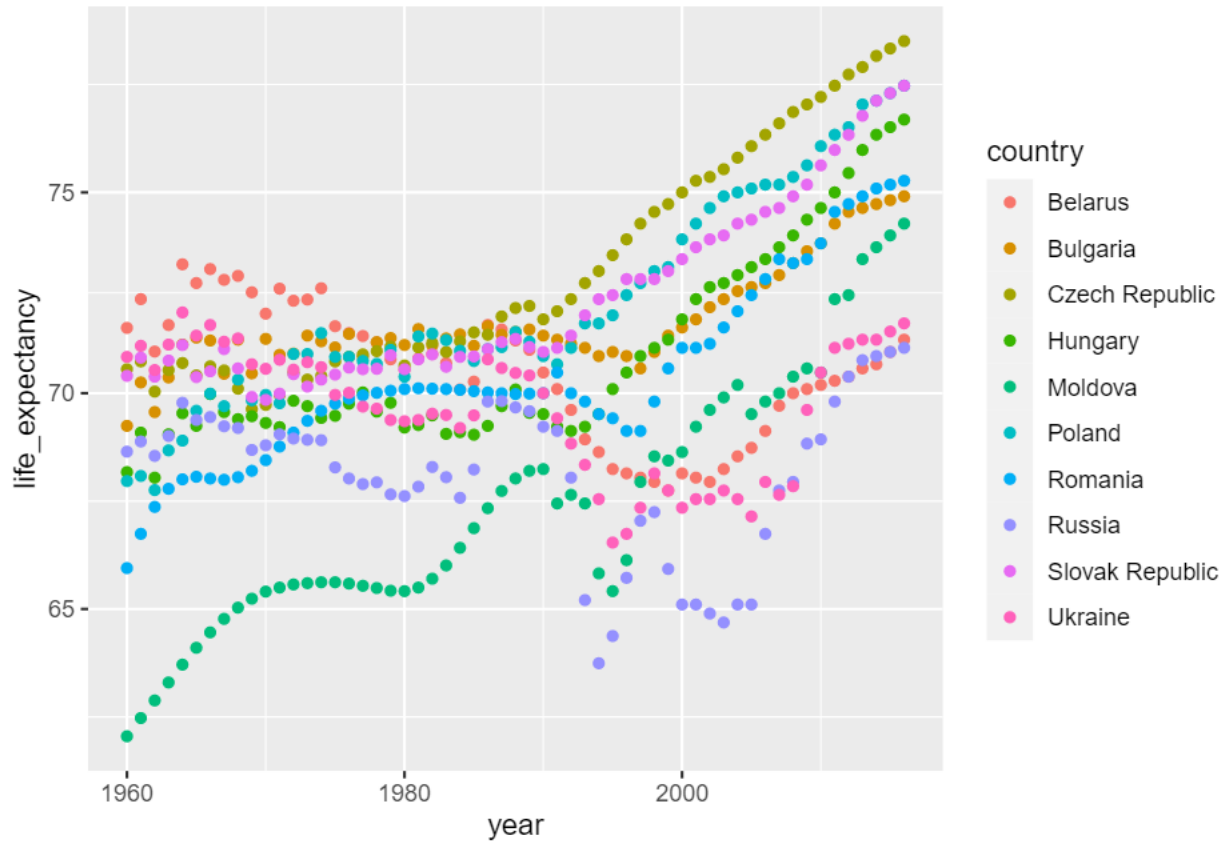
regime_change	avg
Soviet Union	69.75258
Post Soviet	70.99857
Putin Second Term	74.57800

Table 6: Average Life Expectancy in Europe

regime_change	avg
Soviet Union	71.45706
Post Soviet	75.44322
Putin Second Term	78.63744

### Average Life Expectancy in Eastern Europe vs Europe 1960–2016 by country





## NULL

## Fertility

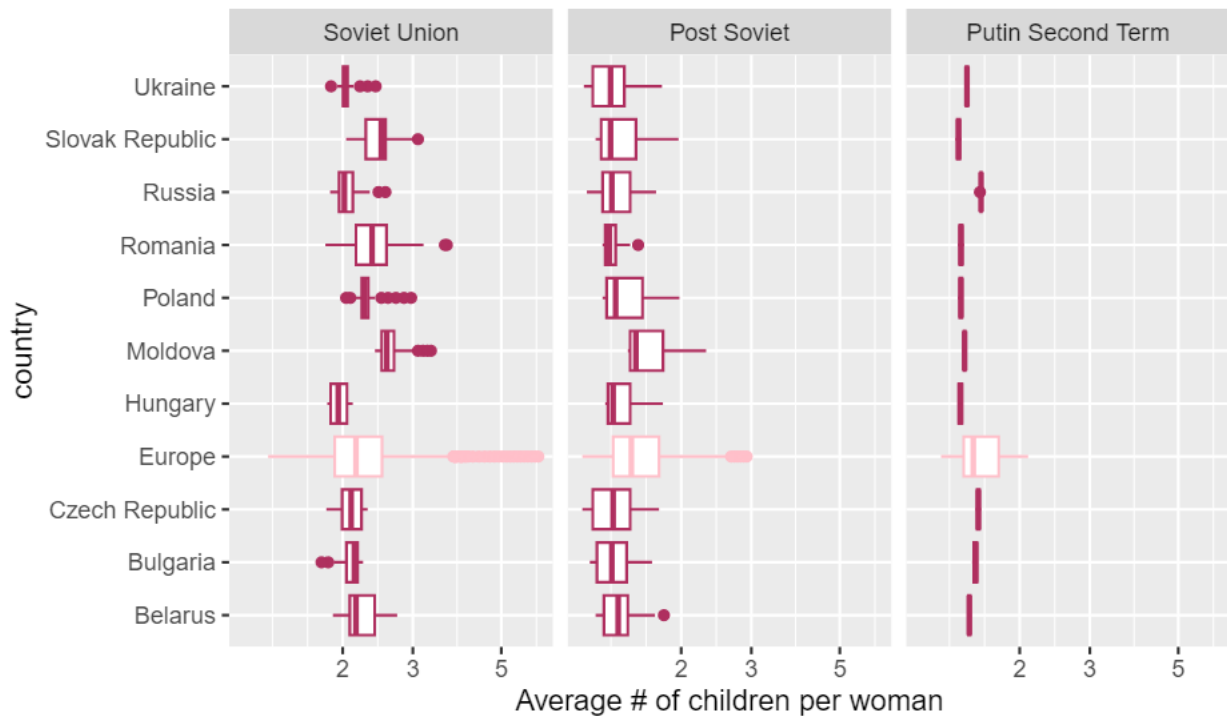
Table 7: Average Number of Children per Woman in Eastern Europe

regime_change	avg
Soviet Union	2.243258
Post Soviet	1.420190
Putin Second Term	1.482000

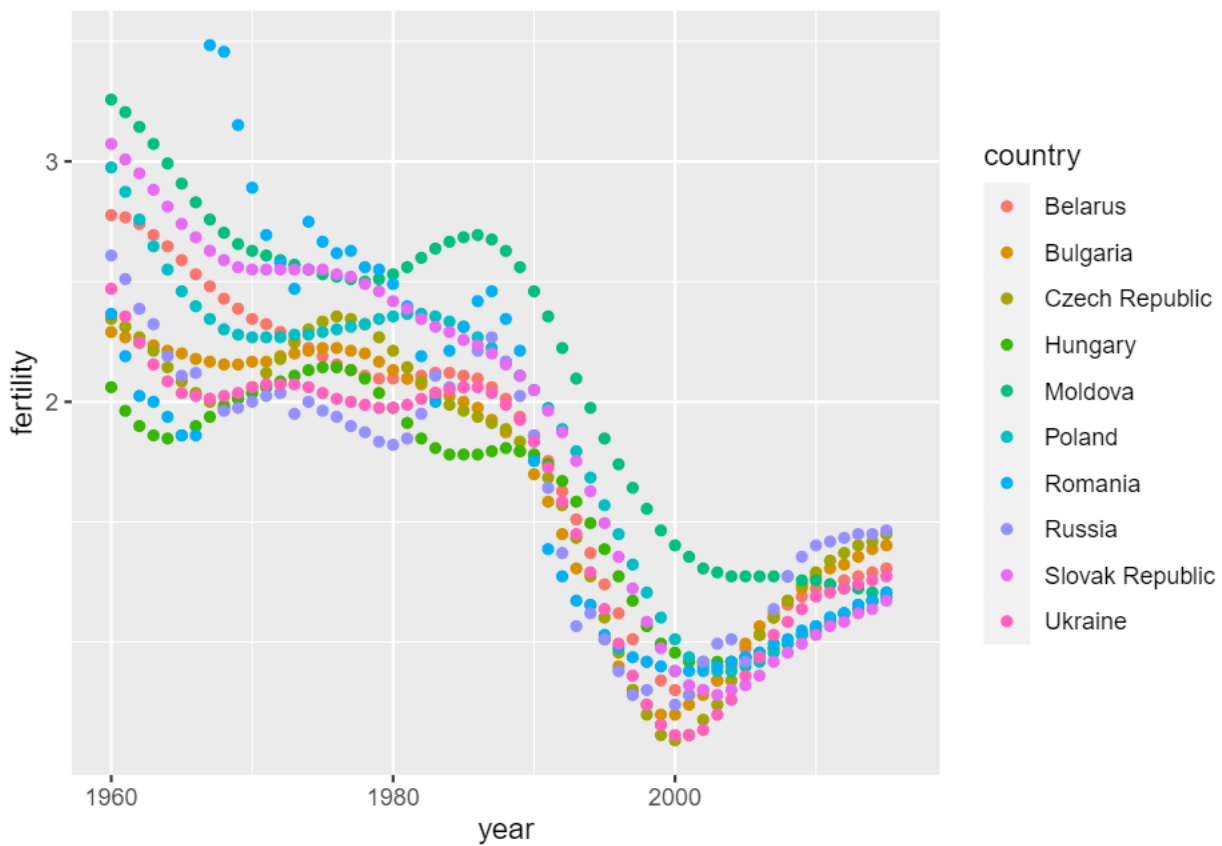
Table 8: Average Number of Children per Woman in Europe

regime_change	avg
Soviet Union	2.281489
Post Soviet	1.573309
Putin Second Term	1.603590

## Fertility in Eastern Europe vs Europe 1960–2016 by country



data source: dslabs package





## NULL

## Infant Mortality

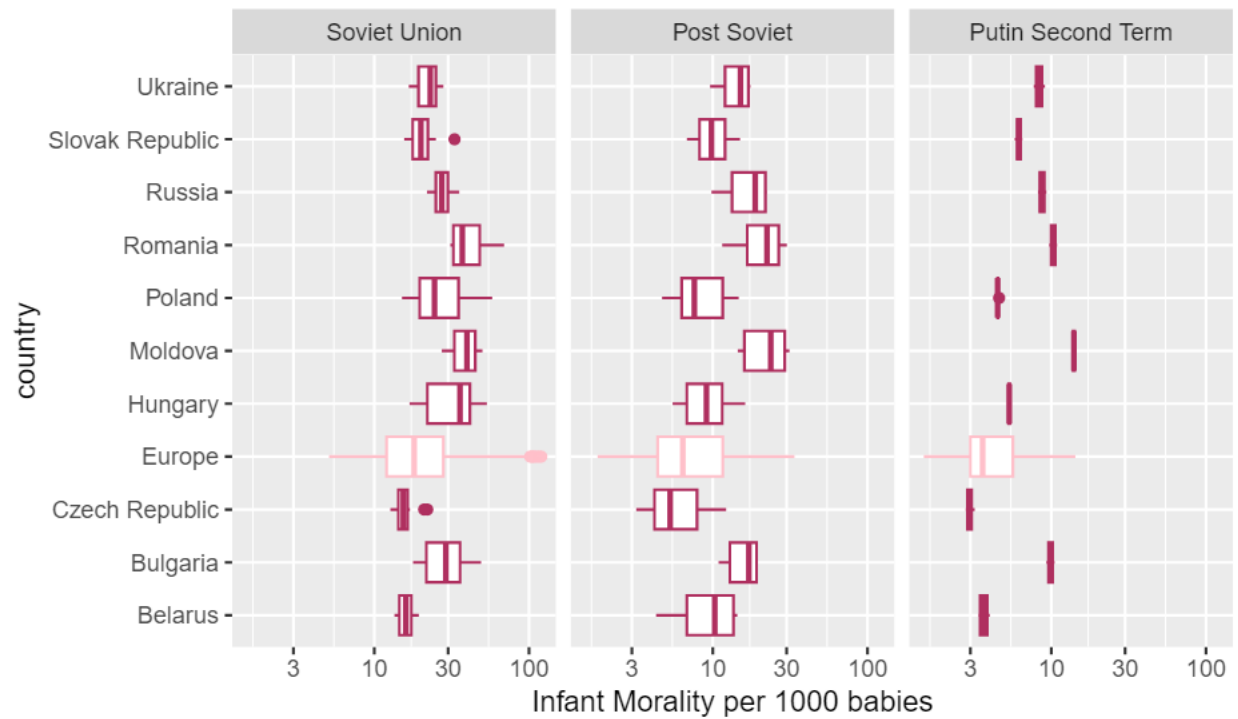
Table 9: Average Rate of Infant Mortality in Eastern Europe

regime_change	avg
Soviet Union	29.22866
Post Soviet	13.75286
Putin Second Term	7.39750

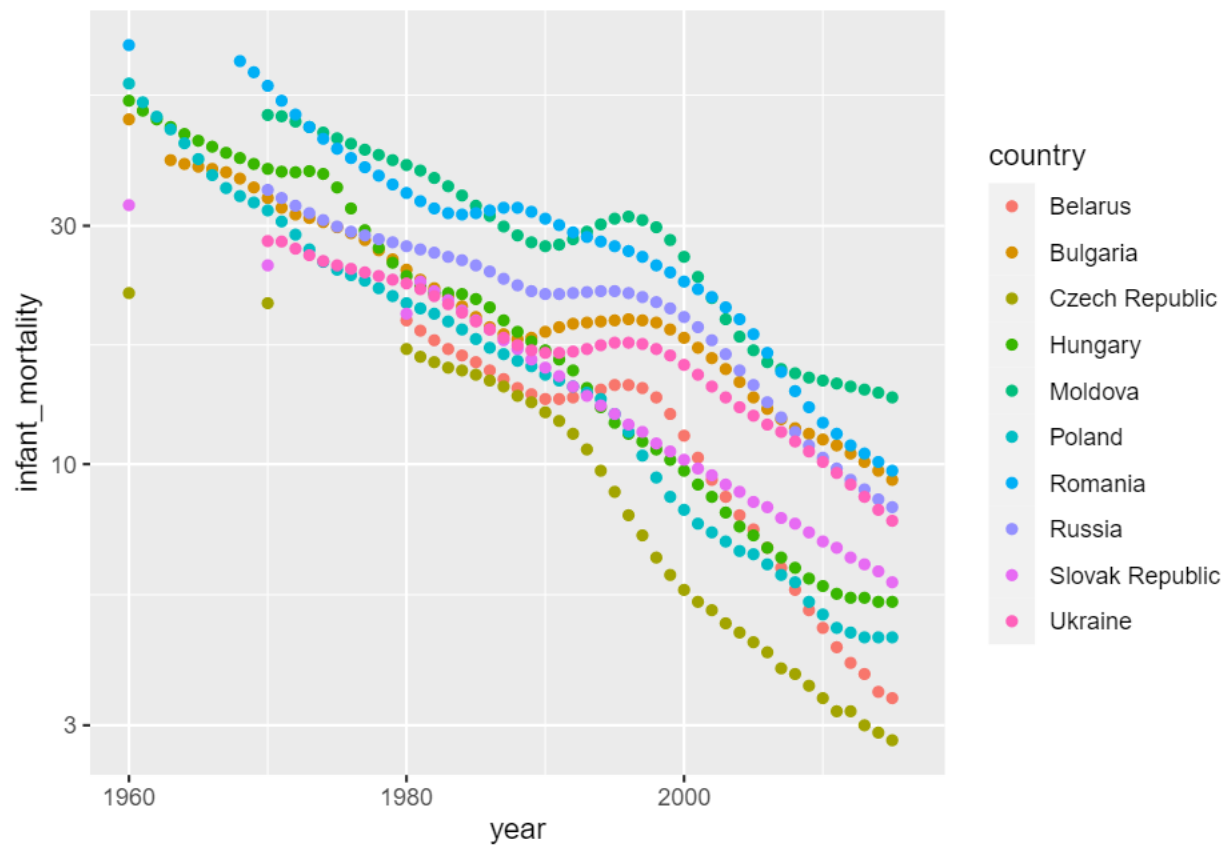
Table 10: Average Rate of Infant Mortality in Europe

regime_change	avg
Soviet Union	22.695824
Post Soviet	8.853236
Putin Second Term	4.810256

### Infant Mortality in Eastern Europe vs Europe 1960–2016 by country



data source: dslabs package



## NULL

## Summary

Overall, the quality of life in Eastern Europe has steadily increased over time.