

The road-map to World War III

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Abstract

In this paper, I describe the road-map to World War III.
The paper ends with "The End"

Introduction

The road-map to World War III is now clear through the use of
non-linear regression and the cluster classifier.
In this paper, I describe the road-map to World War III.

The G20 dataset

We use the following small dataset for our study:

Country	GDP Per Capita (PPP)	Males/Females	Births/Woman
Argentina	31379	0.98	1.51
Australia	72138	0.99	1.64
Brazil	23238	0.97	1.60
Canada	65707	0.98	1.33
China	28978	1.06	1.02
France	65626	0.96	1.64
Germany	72599	0.96	1.46
India	12132	1.08	1.94
Indonesia	17612	1.00	2.10
Italy	63076	0.93	1.21
Japan	54677	0.94	1.23
Mexico	25463	0.96	1.87
Russia	49383	0.86	1.47
Saudi Arabia	61923	1.30	2.29
South Africa	15989	0.98	2.19
South Korea	65112	1.01	0.75
Turkey	42451	1.01	1.62
United Kingdom	63661	0.99	1.54
United States of America	89105	0.97	1.62

The European Union was discarded from the dataset as a control.

The non-linear regression

The non-linear regression

$$\log_{10} (GDP \text{ Per Capita } (PPP)) = a + b * e^{\frac{Males}{Females}} + c * e^{\frac{Births}{Woman}}$$

is fit to the remaining dataset.

From the regression, we obtain:

Fitted parameters: $a = 4.3227, b = 0.2560, c = -0.0759$

Parameter standard errors: $SE(a) = 0.6155, SE(b) = 0.2527, SE(c) = 0.0322$

95% confidence intervals for parameters:

$a : [3.0180, 5.6275]$

$b : [-0.2796, 0.7917]$

$c : [-0.1441, -0.0077]$

Goodness of Fit Metrics:

R-squared: 0.2612

Adjusted R-squared: 0.1135

RMSE: 0.2164

MAE: 0.1799

The cluster classifier

We use a cluster classifier to obtain two clusters using the agglomerate method, which is a single linkage clustering algorithm.

This produces two clusters, with Brazil alone in the second cluster and the remaining nations in the first cluster.

Since the number of nations in the first cluster hugely outnumber the **lone nation** Brazil, one can interpret the finding as the remaining nations attacking and defeating Brazil.

Removing such lone nations and iterating the cluster classifier on the remaining data yields many more such lone nations - Japan, Mexico, Saudi Arabia and finally the pair of nations South Korea and Turkey.

Running the cluster classifier again yields two clusters:

1. **The First Front:** Argentina, Canada, China, Germany, India, Indonesia and the United Kingdom
2. **The Second Front:** Australia, France, Italy, Russia, South Africa and the United States of America

Inferences

1. The smaller lone nations shall try to **organize** and become the **Third Front** in World War III.
2. The **First Front** and the **Second Front** are likely to feign a **Phoney War** while working behind-the-scenes to **undermine** the Third Front.
3. World War III shall probably end with the **defeat** of the smaller lone nations by the remaining nations of both the **First Front** and the **Second Front**.
4. While the **continuation** of World War III between the **First Front** and the **Second Front** is a possibility, it has a low probability since they both have large combined nuclear arsenals.

The End