main

Introduction

The dictionary meaning of "Democracy" defined by Encyclopedia Britannica is "literally ruled by the pe Measuring democracy also has been contested that there still have ongoing debates on this subject. The Following the introduction, this research paper will proceed by presenting previous studies to provide

Prior studies and background about Democratization

Democratization, according to "An Agenda for Democratization" by Boutros Boutros-Ghali, the formal Se From his On Democracy, Robert Dahl suggests three conditions that are essential to attain democratic Africa has also been the wave of political transitions from various types of dictatorships to more op

Research Question

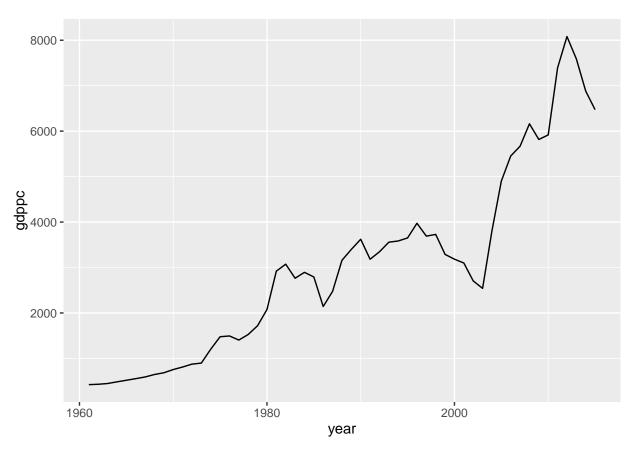
test

Data Availability

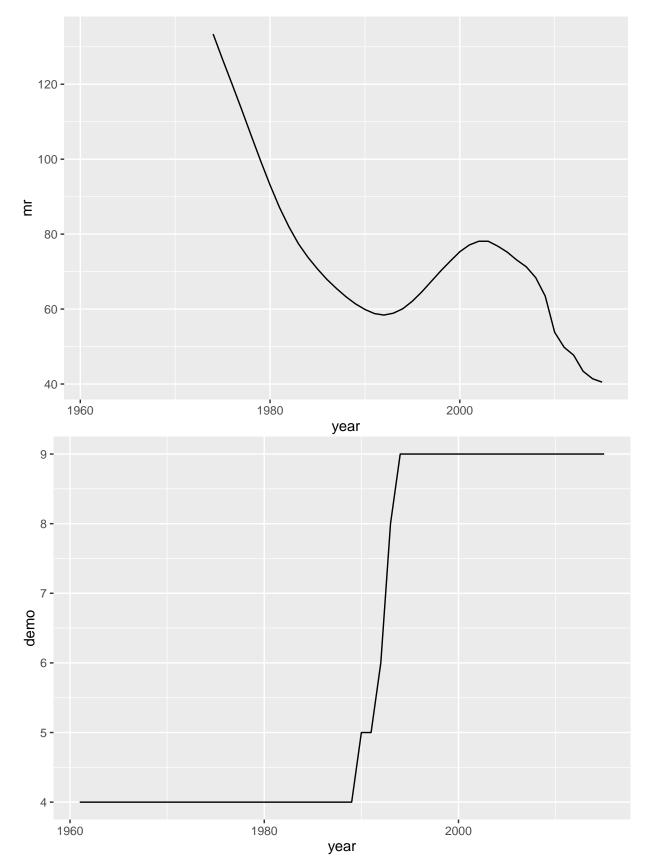
- 1) Measurement of Democratization 1-1) Polity 4 ?? ??http://www.systemicpeace.org/inscr/p4manualv2015.pdf 1-2)
- 2) Gross National Income Level
- 3) primary enrollment
- 4) Income Inequality
- 5) Gender Inequality in labor force
- 6) mortality rate under 5

Data Cleaning

Data Analysis



Warning: Removed 13 rows containing missing values (geom_path).



##

```
## Call:
## lm(formula = demo ~ gdppc + gini + pe + mr + gi, data = df)
## Residuals:
## ALL 6 residuals are 0: no residual degrees of freedom!
## Coefficients:
##
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) 7.431e+01
                                 NA
                                         NA
                                 NA
                                         NA
                                                  NA
## gdppc
              -6.454e-04
## gini
              -6.580e-02
                                 NA
                                         NA
                                                  NA
## pe
               2.305e-07
                                 NA
                                         NA
                                                  NA
## mr
              -2.099e-01
                                 NA
                                         NΑ
                                                  NA
              -7.554e+01
                                 NA
## gi
                                         NA
                                                  NA
##
## Residual standard error: NaN on O degrees of freedom
    (49 observations deleted due to missingness)
## Multiple R-squared: 1, Adjusted R-squared:
## F-statistic: NaN on 5 and 0 DF, p-value: NA
## Call:
## lm(formula = gdppc ~ demo + pe + mr + gini, data = df)
## Residuals:
##
       Min
                 1Q
                     Median
## -1083.16 -324.19
                       47.27
                               182.82 1161.78
##
## Coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) 2.794e+03 3.332e+03
                                     0.839
                                             0.4338
               6.733e+02 2.060e+02
                                     3.269
                                              0.0171 *
              -1.295e-03 4.089e-04 -3.166
                                             0.0194 *
## pe
              -3.533e+01 1.469e+01 -2.405
                                              0.0530 .
## mr
               1.334e+02 4.327e+01
                                     3.083
                                              0.0216 *
## gini
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 727 on 6 degrees of freedom
    (44 observations deleted due to missingness)
## Multiple R-squared: 0.9035, Adjusted R-squared: 0.8392
## F-statistic: 14.04 on 4 and 6 DF, p-value: 0.003334
## Call:
## lm(formula = demo ~ gdppc + pe + mr + gi, data = df)
##
## Residuals:
##
       Min
                 1Q
                     Median
                                   3Q
## -1.53909 -0.16387 0.03986 0.18542 0.82555
##
## Coefficients:
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) 6.331e+01 2.563e+01 2.470 0.0295 *
             -7.301e-04 3.935e-04 -1.855 0.0883 .
## gdppc
```

```
5.341e-08 4.925e-07 0.108
                                              0.9154
## mr
                                              0.1646
              -1.540e-01 1.040e-01 -1.480
              -6.803e+01 2.242e+01 -3.034
## gi
                                              0.0104 *
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6706 on 12 degrees of freedom
     (38 observations deleted due to missingness)
## Multiple R-squared: 0.9372, Adjusted R-squared: 0.9162
## F-statistic: 44.74 on 4 and 12 DF, p-value: 4.076e-07
## % Table created by stargazer v.5.2 by Marek Hlavac, Harvard University. E-mail: hlavac at fas.harvar
## % Date and time: Thu, Dec 01, 2016 - 15:49:51
## \begin{table}[!htbp] \centering
    \caption{}
##
    \label{}
##
## \begin{tabular}{@{\extracolsep{5pt}}lc}
## \\[-1.8ex]\hline
## \hline \\[-1.8ex]
## & \multicolumn{1}{c}{\textit{Dependent variable:}} \\
## \cline{2-2}
## \\[-1.8ex] & demo \\
## \hline \\[-1.8ex]
## gdppc & $-$0.001$^{*}$ \\
   & (0.0004) \\
   & \\
##
##
   pe & 0.00000 \\
##
   & (0.00000) \\
##
   & \\
## mr & $-$0.154 \\
##
    & (0.104) \\
##
   & \\
## gi & $-$68.027$^{**}$ \\
##
   & (22.421) \\
    & \\
##
## Constant & 63.307$^{**}$ \\
   & (25.627) \\
   & \\
##
## \hline \\[-1.8ex]
## Observations & 17 \\
## R$^{2}$ & 0.937 \\
## Adjusted R$^{2}$ & 0.916 \\
## Residual Std. Error & 0.671 (df = 12) \\
## F Statistic & 44.745$^{***}$ (df = 4; 12) \\
## \hline
## \hline \\[-1.8ex]
## \textit{Note:} & \multicolumn{1}{r}{$^{*}$p$<$0.1; $^{**}$p$<$0.05; $^{***}$p$<$0.01} \\
## \end{tabular}
## \end{table}
```

Discussion

gdppc suffered from endogeneity # Conclusion