Security Council Membership Data

Gina Reynolds and Matt Winters

This file is used in replicating findings for "Foreign Aid Funnel? Placebo-Based Assessment of Aid Flows to Non-Permanent U.N. Security Council Members" by Evangeline Reynolds (University of Illinois) and Matthew Winters (University of Illinois).

The U.N. Security Council data come from the U.N.'s website "Countries Elected Members of the Security Council", http://www.un.org/en/sc/members/elected.asp, accessed December 12, 2014.

Read in Data

```
text <- readLines("./01RawData/UNSC - RawDataUNSCnonPerm.txt", encoding="UTF-8")
```

```
## Warning in readLines("./01RawData/UNSC - RawDataUNSCnonPerm.txt",
## encoding = "UTF-8"): incomplete final line found on './01RawData/UNSC -
## RawDataUNSCnonPerm.txt'
```

```
head(text)
```

```
## [1] "Algeria "
## [2] "1968 <U+0096> 1969 , 1988 <U+0096> 1989 , 2004 <U+0096> 2005"
## [3] "Angola "
## [4] "2003 <U+0096> 2004"
## [5] "Argentina "
## [6] "1948 <U+0096> 1949 , 1959 <U+0096> 1960 , 1966 <U+0096> 1967 , 1971 <U+0096> 1972 , 1987 <U+009(
```

```
tail(text)
```

```
## [1] "1950 <U+0096> 1951 , 1956 , 1972 <U+0096> 1973 , 1988 <U+0096> 1989"
## [2] "Zaire (see Democratic Republic of the Congo)"
## [3] "Zambia "
## [4] "1969 <U+0096> 1970 , 1979 <U+0096> 1980 , 1987 <U+0096> 1988"
## [5] "Zimbabwe "
## [6] "1983 <U+0096> 1984 , 1991 <U+0096> 1992"
```

```
text0=iconv(text, "", "ASCII", "byte")
library(stringr)
text1= str_replace_all(text0, " , ", "/")
head(text1)
```

```
## [1] "Algeria "
## [2] "1968 <e2><80><93> 1969/1988 <e2><80><93> 1989/2004 <e2><80><93> 2005"
## [3] "Angola "
## [4] "2003 <e2><80><93> 2004"
## [5] "Argentina "
## [6] "1948 <e2><80><93> 1949/1959 <e2><80><93> 1960/1966 <e2><80><93> 1967/1971 <e2><80><93> 1972/198
```

```
text2= str_replace_all(text1, " <e2><80><93> ", "-")
head(text2)
```

```
## [1] "Algeria "
## [2] "1968-1969/1988-1989/2004-2005"
## [3] "Angola "
## [4] "2003-2004"
## [5] "Argentina "
## [6] "1948-1949/1959-1960/1966-1967/1971-1972/1987-1988/1994-1995/1999-2000/2005-2006/2013-2014"
```

```
text3= gsub(" $","", text2, perl=T)
head(text3)
```

```
## [1] "Algeria"
## [2] "1968-1969/1988-1989/2004-2005"
## [3] "Angola"
## [4] "2003-2004"
## [5] "Argentina"
## [6] "1948-1949/1959-1960/1966-1967/1971-1972/1987-1988/1994-1995/1999-2000/2005-2006/2013-2014"
```

```
tail(text3)
```

```
## [1] "1950-1951/1956/1972-1973/1988-1989"
## [2] "Zaire (see Democratic Republic of the Congo)"
## [3] "Zambia"
## [4] "1969-1970/1979-1980/1987-1988"
## [5] "Zimbabwe"
## [6] "1983-1984/1991-1992"
```

```
#Because we'll use the dash "-" as a marker,
#we need to replace this in country names:
text3=str_replace_all(text3, "Guinea-Bissau", "Guinea Bissau")
```

Special cases

We delete Saudia Arabia - which did not take it's seat. See the note: "(declined to take the seat - see A/68/599)"

```
length(text3)
```

```
## [1] 255
```

```
text3=text3[!substr(text3,1,12)=="Saudi Arabia"]
length(text3)
```

```
## [1] 254
```

```
text4=text3
for (i in 1:length(text4)){
  text4[i]=
    if(
       any(substring(text4[i],1,1)==c(1:9))|
       grepl("see", text4[i])|
       grepl("Perm", text4[i])
       ){
     paste(str_replace_all(text4[i]," ",""),"\r\n",sep="")
    }
  else{
     paste(text4[i], "/") }
}

head(text4)
```

```
## [1] "Algeria /"
## [2] "1968-1969/1988-1989/2004-2005\r\n"
## [3] "Angola /"
## [4] "2003-2004\r\n"
## [5] "Argentina /"
## [6] "1948-1949/1959-1960/1966-1967/1971-1972/1987-1988/1994-1995/1999-2000/2005-2006/2013-2014\r\n"
```

```
tail(text4)
```

```
## [1] "1950-1951/1956/1972-1973/1988-1989\r\n"
## [2] "Zaire(seeDemocraticRepublicoftheCongo)\r\n"
## [3] "Zambia /"
## [4] "1969-1970/1979-1980/1987-1988\r\n"
## [5] "Zimbabwe /"
## [6] "1983-1984/1991-1992\r\n"
```

```
long=c()
for (i in 1:length(text4)){
  long=paste(long,text4[i], sep="")
}

length(long)
```

```
## [1] 1
```

```
substr(long, 1,100)
```

```
## [1] "Algeria /1968-1969/1988-1989/2004-2005\r\nAngola /2003-2004\r\nArgentina /1948-1949/1959-1960/19
```

```
writeLines(long, "Temp.txt")
```

```
text5 <- readLines("Temp.txt")
head(text5)
```

```
## [1] "Algeria /1968-1969/1988-1989/2004-2005"
## [2] "Angola /2003-2004"
## [3] "Argentina /1948-1949/1959-1960/1966-1967/1971-1972/1987-1988/1994-1995/1999-2000/2005-2006/2013
## [4] "Australia /1946-1947/1956-1957/1973-1974/1985-1986/2013-2014"
## [5] "Austria /1973-1974/1991-1992/2009-2010"
## [6] "Azerbaijan /2012-2013"
```

```
tail(text5)
```

```
## [1] "Yemen /1990-1991"
## [2] "Yugoslavia /1950-1951/1956/1972-1973/1988-1989"
## [3] "Zaire(seeDemocraticRepublicoftheCongo)"
## [4] "Zambia /1969-1970/1979-1980/1987-1988"
## [5] "Zimbabwe /1983-1984/1991-1992"
## [6] ""
```

```
file.remove("Temp.txt")
```

```
## [1] TRUE
```

Parse data

```
TenuresData=data.frame(CountryName=character(), TwoYearTenure=character())
TenuresData
```

```
## [1] CountryName   TwoYearTenure
## <0 rows> (or 0-length row.names)
```

```
for (i in 1:length(text5)){
EachCountry=strsplit(text5[i],split="/")
if(length(EachCountry[[1]])>1){
for (j in 2:length(EachCountry[[1]])){
  TenuresData=rbind(TenuresData,
                    data.frame(CountryName=EachCountry[[1]][1],
                                       TwoYearTenure=EachCountry[[1]][j]))
}
}
}
head(TenuresData)
```

```
##   CountryName TwoYearTenure
## 1    Algeria      1968-1969
## 2    Algeria      1988-1989
## 3    Algeria      2004-2005
## 4     Angola      2003-2004
## 5  Argentina      1948-1949
## 6  Argentina      1959-1960
```

```
TenuresData$SCYearOne=as.numeric(substr(TenuresData$TwoYearTenure,1,4))
TenuresData$SCYearTwo=as.numeric(substr(TenuresData$TwoYearTenure,6,9))
```

Correction to Raw Data: One case (East Germany) is missing from the U.N. website —

```
OneCase=data.frame(CountryName="East Germany",
                   TwoYearTenure="1980-1981",
                   SCYearOne=1980,
                   SCYearTwo=1981)

TenuresData=rbind(TenuresData, OneCase)
tail(TenuresData)  #East Germany has been added.
```

```
##      CountryName TwoYearTenure SCYearOne SCYearTwo
## 310       Zambia      1969-1970      1969      1970
## 311       Zambia      1979-1980      1979      1980
## 312       Zambia      1987-1988      1987      1988
## 313     Zimbabwe      1983-1984      1983      1984
## 314     Zimbabwe      1991-1992      1991      1992
## 315 East Germany     1980-1981      1980      1981
```

Correction to Raw Data

Before 1990, 'Germany' should actually be "West Germany"

```
TenuresData$CountryName=as.character(TenuresData$CountryName)
TenuresData[TenuresData$CountryName=="Germany ",]
```

```
##     CountryName TwoYearTenure SCYearOne SCYearTwo
## 112     Germany      1977-1978      1977      1978
## 113     Germany      1987-1988      1987      1988
## 114     Germany      1995-1996      1995      1996
## 115     Germany      2003-2004      2003      2004
## 116     Germany      2011-2012      2011      2012
```

```
TenuresData$CountryName[TenuresData$CountryName=="Germany "&
                          TenuresData$SCYearOne<1990]="West Germany"

TenuresData[TenuresData$CountryName=="West Germany",]
```

```
##      CountryName TwoYearTenure SCYearOne SCYearTwo
## 112 West Germany     1977-1978      1977      1978
## 113 West Germany     1987-1988      1987      1988
```

```
TenuresData$CountryName =str_trim(TenuresData$CountryName) #trims off trailing or leading spaces.
setwd("./000MyCountryCoder/") #For chunk temporarily resets locaction
source("countrycode2.R")
TenuresData$StandardName=FavoriteCountryName(TenuresData$CountryName)
```

```
## [1] "The unique input and output where input and output do not match are:"
##            Unique.Inputs.Truncated           Out
## 19                      Cabo Verde    Cape Verde
## 27           C<c3><b4>te d'Ivoire   Ivory Coast
## 32  Democratic Republic of the Con           DRC
## 47                   Guinea Bissau Guinea-Bissau
## 53      Iran (Islamic Republic of)          Iran
## 64          Libyan Arab Jamahiriya         Libya
## 92              Republic of Korea   South Korea
## 106           Syrian Arab Republic         Syria
## 116    United Republic of Tanzania      Tanzania
## 118 Venezuela (Bolivarian Republic     Venezuela
## 119                      Viet Nam       Vietnam
```

```
dim(TenuresData)
```

```
## [1] 315   5
```

```
head(TenuresData)
```

```
##   CountryName TwoYearTenure SCYearOne SCYearTwo StandardName
## 1     Algeria     1968-1969      1968      1969      Algeria
## 2     Algeria     1988-1989      1988      1989      Algeria
## 3     Algeria     2004-2005      2004      2005      Algeria
## 4      Angola     2003-2004      2003      2004       Angola
## 5   Argentina     1948-1949      1948      1949    Argentina
## 6   Argentina     1959-1960      1959      1960    Argentina
```

Add variable for the year after the Security Council tenure

This variable is used frequently in the UNSC-aid papers, since the foreign aid quid-pro quo can take a while to complete.

```
options(width=90)
table(is.na(TenuresData$SCYearTwo))
```

```
##
## FALSE  TRUE
##   300    15
```

```
#This is not always two years after the first year on the council
#since some tenures are just one year long
TenuresData$YearAfterSCMembership=ifelse(!is.na(TenuresData$SCYearTwo),
                                         TenuresData$SCYearTwo+1,
                                         TenuresData$SCYearOne+1 )
head(TenuresData)
```

```
##   CountryName TwoYearTenure SCYearOne SCYearTwo StandardName YearAfterSCMembership
## 1     Algeria     1968-1969      1968      1969      Algeria                  1970
## 2     Algeria     1988-1989      1988      1989      Algeria                  1990
## 3     Algeria     2004-2005      2004      2005      Algeria                  2006
## 4      Angola     2003-2004      2003      2004       Angola                  2005
## 5   Argentina     1948-1949      1948      1949    Argentina                  1950
## 6   Argentina     1959-1960      1959      1960    Argentina                  1961
```

Save Country-Tenure Data

```
write.csv(TenuresData, "03_UNSC - SCTenuresData.csv")
save(TenuresData, file="03_UNSC - SCTenuresData.RData")
```

Create TSCS Data

Create Country-Year Backbone

We include all countries that have been U.N. members and do a wide-to-long transformation with UNSC year info.

```
Year1=data.frame(StandardName=TenuresData$StandardName,
                 Year=        as.numeric(TenuresData$SCYearOne),
                 WhichTenureYear=1)
Year2=data.frame(StandardName=TenuresData$StandardName,
                 Year=        as.numeric(TenuresData$SCYearTwo),
                 WhichTenureYear=2)
Year2=Year2[!is.na(Year2$Year),] #several cases where the country does not stay for a second year
Year3=data.frame(StandardName=TenuresData$StandardName,
                 Year=        as.numeric(TenuresData$YearAfterSCMembership),
                 WhichTenureYear=3)

CountryCouncilYears=rbind(Year1, Year2, Year3)
head(CountryCouncilYears)
```

```
##   StandardName Year WhichTenureYear
## 1      Algeria 1968               1
## 2      Algeria 1988               1
## 3      Algeria 2004               1
## 4       Angola 2003               1
## 5    Argentina 1948               1
## 6    Argentina 1959               1
```

```
tail(CountryCouncilYears)
```

```
##     StandardName Year WhichTenureYear
## 925       Zambia 1971               3
## 926       Zambia 1981               3
## 927       Zambia 1989               3
## 928     Zimbabwe 1985               3
## 929     Zimbabwe 1993               3
## 930 East Germany 1982               3
```

```
table(CountryCouncilYears$WhichTenureYear)
```

```
##
##   1   2   3
## 315 300 315
```

```
CountryCouncilYears=CountryCouncilYears[CountryCouncilYears$Year!=2016, ]
```

Save Long Data

```
# str(LongSC)
#write.csv(LongSC, "03_UNSCMembTenureLong.csv")
#save(LongSC, file="03_UNSCMembTenureLong.RData")
```

Plot Membership Years

```
TenuresData$StandardName=factor(as.character(TenuresData$StandardName),

str(TenuresData)
```

```
## 'data.frame':    315 obs. of  6 variables:
##  $ CountryName          : chr  "Algeria" "Algeria" "Algeria" "Angola" ...
##  $ TwoYearTenure        : Factor w/ 79 levels "1968-1969","1988-1989",..: 1 2 3 4 5 6 7 8 9 10 ...
##  $ SCYearOne            : num  1968 1988 2004 2003 1948 ...
##  $ SCYearTwo            : num  1969 1989 2005 2004 1949 ...
##  $ StandardName         : Factor w/ 124 levels "East Germany",..: 124 124 124 123 122 122 122 122 12
##  $ YearAfterSCMembership: num  1970 1990 2006 2005 1950 ...
```

```
max(na.omit(TenuresData$SCYearTwo))
```

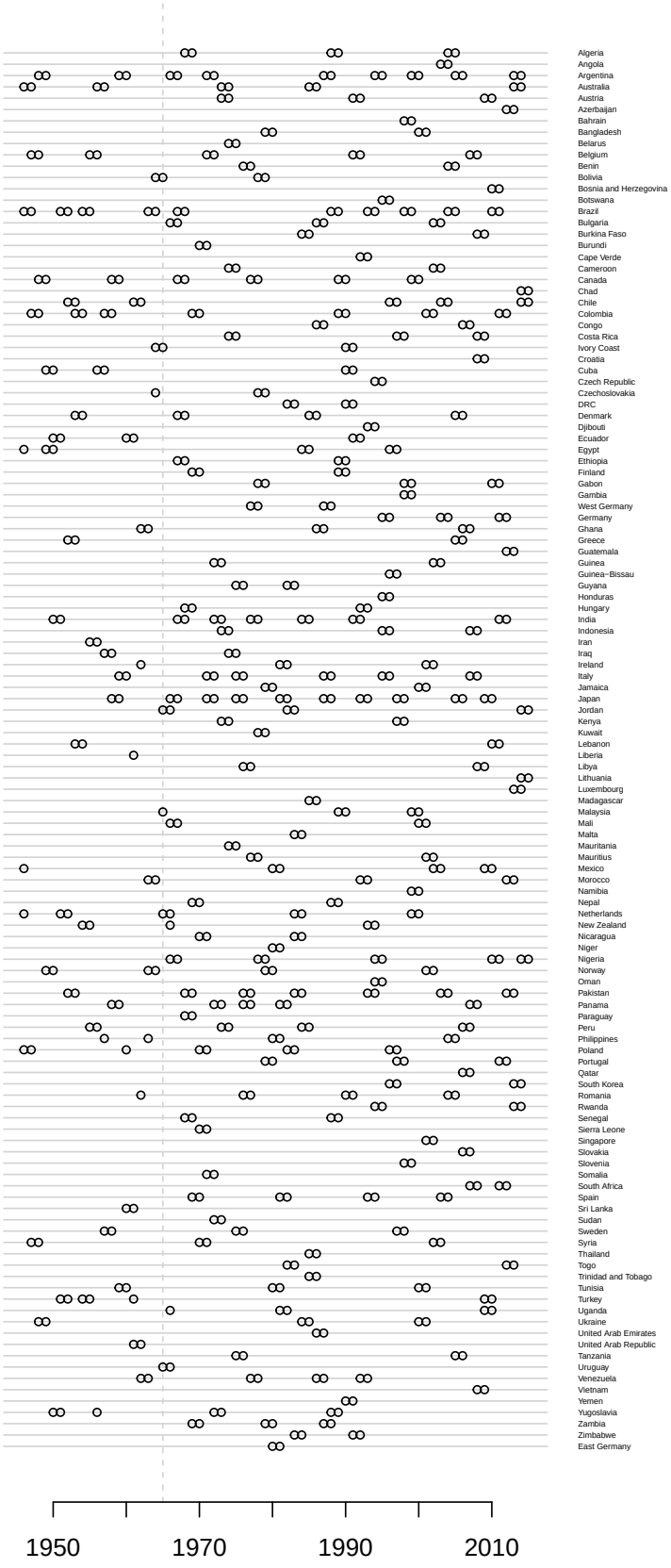
```
## [1] 2015
```

```
par(mar=c(2.1,2.1,2.1,12))
plot(c(1946,max(na.omit(TenuresData$SCYearTwo))),
     c(1,max(as.numeric(TenuresData$StandardName))),
     pch="",
     axes=FALSE,
     xlab="Year",
     ylab=""
     )

abline(v=1965, col="lightgrey", lty=2)
abline(h=c(1:length(levels(TenuresData$StandardName))), col="lightgrey")

axis(1 )
axis(4, at=c(1:length(levels(TenuresData$StandardName))),
     labels=levels(TenuresData$StandardName), las=2, cex.axis=0.3, col="white")

points(TenuresData$SCYearOne,
       as.numeric(TenuresData$StandardName),
       cex=.7)
points(TenuresData$SCYearTwo,
       as.numeric(TenuresData$StandardName),
       cex=.7)
```


Algeria
Angola
Argentina
Australia
Austria
Azerbaijan
Bahrain
Bangladesh
Belarus
Belgium
Benin
Bolivia
Bosnia and Herzegovina
Botswana
Brazil
Bulgaria
Burkina Faso
Burundi
Cape Verde
Cameroon
Canada
Chad
Chile
Colombia
Congo
Costa Rica
Ivory Coast
Croatia
Cuba
Czech Republic
Czechoslovakia
DRC
Denmark
Djibouti
Ecuador
Egypt
Ethiopia
Finland
Gabon
Gambia
West Germany
Germany
Ghana
Greece
Guatemala
Guinea
Guinea−Bissau
Guyana
Honduras
Hungary
India
Indonesia
Iran
Iraq
Ireland
Italy
Jamaica
Japan
Jordan
Kenya
Kuwait
Lebanon
Liberia
Libya
Lithuania
Luxembourg
Madagascar
Malaysia
Mali
Malta
Mauritania
Mauritius
Mexico
Morocco
Namibia
Nepal
Netherlands
New Zealand
Nicaragua
Niger
Nigeria
Norway
Oman
Pakistan
Panama
Paraguay
Peru
Philippines
Poland
Portugal
Qatar
South Korea
Romania
Rwanda
Senegal
Sierra Leone
Singapore
Slovakia
Slovenia
Somalia
South Africa
Spain
Sri Lanka
Sudan
Sweden
Syria
Thailand
Togo
Trinidad and Tobago
Tunisia
Turkey
Uganda
Ukraine
United Arab Emirates
United Arab Republic
Tanzania
Uruguay
Venezuela
Vietnam
Yemen
Yugoslavia
Zambia
Zimbabwe
East Germany
1950
1970
1990
2010