Sample Lab Presentation: Lab 9

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Tom Hanna Lab 9 Sample POLS6481

Raw code

```
> library(here)
here() starts at C:/Users/tomha/Documents/3 - R Studio Projects/Teaching/POLS6481-Spring
> library(foreign)
> library(tseries) #For lagging
Registered S3 method overwritten by 'quantmod':
 method
                    from
 as.zoo.data.frame zoo
    'tseries' version: 0.10-48
    'tseries' is a package for time series analysis and computational finance.
   See 'library(help="tseries")' for details.
> library(lmtest) #For test for joint significance
Loading required package: zoo
Attaching package: 'zoo'
The following objects are masked from 'package:base':
    as.Date, as.Date.numeric
```

```
> library(plm) #For plm command --- if needed install.packages("plm")
> library(pglm)
Loading required package: maxLik
Loading required package: miscTools
Please cite the 'maxLik' package as:
Henningsen, Arne and Toomet, Ott (2011). maxLik: A package for maximum
likelihood estimation in R. Computational Statistics 26(3), 443-458.
DOI 10.1007/s00180-010-0217-1.
If you have questions, suggestions, or comments regarding the
 'maxLik' package, please use a forum or 'tracker' at maxLik's R-Forge site:
https://r-forge.r-project.org/projects/maxlik/
> #This is using data on non-democratic nations involvement in Militarized
> Interstate Disputes
> #(MIDS), the data is from the Correlates of War dataset. Additionally,
> #there are variables from the Varieties of Democracy (VDEM) project and
> from Jeff Colgan's
> #Revolutionary Leader's database. This is unbalanced panel data, so
> #I won't be using the PLM package.
> library(readr)
> NDC <- read_csv(here("data","nondemocraciesconflict.csv"))</pre>
-- Column specification -----
```

cols(

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```
.default = col_double(),
  country_name = col_character(),
  v2lpname = col_logical(),
  v2reginfo = col_character(),
  leader = col_character(),
  stabb = col_character()
)
i Use 'spec()' for the full column specifications.
Warning messages:
1: Missing column names filled in: 'X1' [1]
2: Duplicated column names deduplicated: 'X1' => 'X1_1' [149]
> View(NDC)
> names(NDC) #I like to do this because it makes organizing and using variables easier
  [1] "X1"
                                    "COWcode"
                                                                  "year"
                                                                  "v2x_libdem"
  [4] "country_name"
                                    "v2x_polyarchy"
  [7] "v2x_partipdem"
                                    "v2x_delibdem"
                                                                  "v2x_egaldem"
 [10] "v2x_regime"
                                    "v2x_regime_amb"
                                                                  "v2x_ex_military"
 [13] "v2x_ex_confidence"
                                    "v2x_ex_direlect"
                                                                  "v2x_ex_hereditary"
 [16] "v2x_ex_party"
                                    "v2x_neopat"
                                                                  "v2xnp_client"
 [19] "v2x_frassoc_thick"
                                    "v2x_jucon"
                                                                  "v2xlg_legcon"
 [22] "v2x_cspart"
                                    "v2lpname"
                                                                  "v2exhoshog"
 [25] "v2exremhog"
                                    "v2exdjdshg"
                                                                  "v2exdfvthg"
 [28] "v2reginfo"
                                    "v2regint"
                                                                  "v2regendtype"
 [31] "v2regimpgroup"
                                    "v2regsupgroupssize"
                                                                  "v2lgoppart"
 [34] "v2dlencmps"
                                    "v2juhcind"
                                                                  "v2juncind"
```

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[37]	"v2juhccomp"	"v2jucomp"	"v2jureview"
[40]	"v2stfisccap"	"v2svstterr"	"v2mecenefi"
[43]	"v2mecenefm"	"v2exl_legitideol"	"v2exl_legitideolcr_0"
[46]	"v2exl_legitideolcr_1"	"v2exl_legitideolcr_2"	"v2exl_legitideolcr_3"
[49]	"v2exl_legitideolcr_4"	"v2xpe_exlsocgr"	"v2x_genc1"
[52]	"v2x_rule"	"v2xcl_prpty"	"v2xcs_ccsi"
[55]	"v2x_clpol"	"v2x_clpriv"	"v2clfmove"
[58]	"v2xcl_dmove"	"v2cldmovem"	"v2cldmovew"
[61]	"v2cldiscm"	"v2cldiscw"	"v2clslavem"
[64]	"v2clslavef"	"v2clstown"	"v2clprptym"
[67]	"v2clprptyw"	"v2clacjstm"	"v2clacjstw"
[70]	"e_legparty"	"e_autoc"	"e_peaveduc"
[73]	"e_migdppc"	"e_migdppcln"	"e_cow_exports"
[76]	"e_cow_imports"	"e_total_fuel_income_pc"	"e_total_oil_income_pc"
[79]	"e_miurbani"	"e_mipopula"	"e_civil_war"
[82]	"e_miinteco"	"v2exrmhgnp_0"	"v2exrmhgnp_1"
[85]	"v2exrmhgnp_2"	"v2exrmhgnp_3"	"v2exrmhgnp_4"
[88]	"v2exrmhgnp_5"	"v2exrmhgnp_6"	"v2exrmhgnp_7"
[91]	"v2exrmhgnp_8"	"v2exctlhg_0"	"v2exctlhg_1"
[94]	"v2exctlhg_2"	"v2exctlhg_3"	"v2exctlhg_4"
[97]	"v2exctlhg_5"	"v2exctlhg_6"	"v2exctlhg_7"
[100]	"v2exctlhg_8"	"v2regsupgroups_0"	"v2regsupgroups_1"
[103]	"v2regsupgroups_2"	"v2regsupgroups_3"	"v2regsupgroups_4"
[106]	"v2regsupgroups_5"	"v2regsupgroups_6"	"v2regsupgroups_7"
[109]	"v2regsupgroups_8"	"v2regsupgroups_9"	"v2regsupgroups_10"
[112]	"v2regsupgroups_11"	"v2regsupgroups_12"	"v2regsupgroups_13"

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[115] "v2exl_legitlead"	"ccode.x"	"onsets"
[118] "revonsets"	"sideaonsets"	"force_onsets"
[121] "force_revonsets"	"force_sideaonsets"	"leader"
[124] "age0"	"age"	"usedforce"
[127] "irregulartransition"	"foundingleader"	"foreigninstall"
[130] "radicalideology"	"democratizing"	"revolutionaryleader"
[133] "chg_executivepower"	"chg_politicalideology"	"chg_propertyownership"
[136] "chg_womenandethnicstatus"	"chg_religioningovernment"	"chg_revolutionarycommit
[139] "totalcategorieschanged"	"muslim"	"durable"
[142] "cinc"	"majorpower"	"peaceyears"
[145] "dem"	"conflict.status"	"trade"
[148] "rule.inverse"	"X1_1"	"dispnum"
[151] "stabb"	"ccode.y"	"stday"
[154] "stmon"	"styear"	"endday"
[157] "endmon"	"endyear"	"sidea"
[160] "revstate"	"revtype1"	"revtype2"
[163] "fatality"	"fatalpre"	"hiact"
[166] "hostlev"	"orig"	"version"
[169] "outcome"	"settle"	"recip"
[172] "numa"	"numb"	"legitideol"
[175] "nationalist"	"socialist"	"conservative"
[178] "autonomist"	"religious"	"totalcat"
[181] "mideology"	"mnationalist"	"msocialist"
[184] "mconservative"	"mautonomist"	"mreligious"
[187] "initiator"	"revisionist"	"policyrevisionist"
[190] "regimerevisionist"	"territorialrevisionist"	"otherrevisionist"

```
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[193] "nonterritorial"
                                    "backdown"
                                                                  "hostile"
                                    "hostilepolicy"
                                                                  "hostileregime"
[196] "hostileorig"
[199] "personofleader"
                                    "coldwar"
                                                                  "transformativeideology"
[202] "cinc2"
> ## The following produces an error because there are duplicates - some countries (COWo
> ## appear in multiple disputes in the same year. This is okay, because at this point I
> ## just demonstrating how to copy the console output to LaTeX.
> panelNDC <- pdata.frame(NDC, c("COWcode","year"))</pre>
Warning message:
In pdata.frame(NDC, c("COWcode", "year")) :
  duplicate couples (id-time) in resulting pdata.frame
 to find out which, use, e.g., table(index(your_pdataframe), useNA = "ifany")
> pdim(panelNDC)
Error in pdim.default(index[[1L]], index[[2L]]) :
  duplicate couples (id-time)
>
```

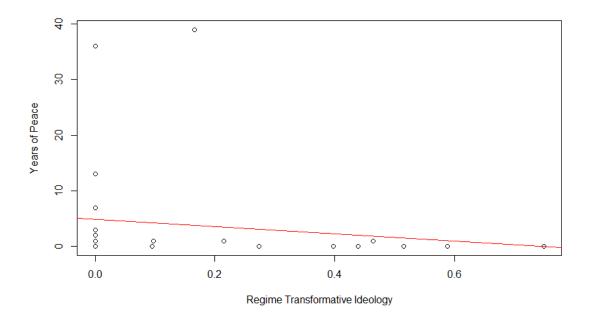
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Part 2: Plots

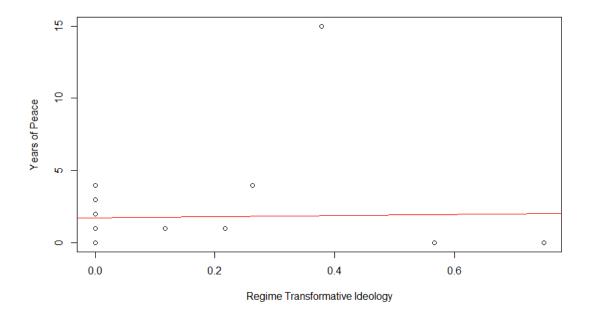
• Plot of 1984, peace years versus transformative ideology.

Figure 1: Data from 1984



• Plot of 1992, peace years versus transformative ideology.

Figure 2: This is the plot of peace years versus transformative ideology for nondemocracies in 1992.



Part 3: Results Tables

My results show that XYZ (See Table 1, column Logit Model). As you can see in Table 1, the Logit Model was consistent with the Fixed Effects Logit Model.

Table 1: Transformative Ideology Effect on Nonterritorial Revisionist Demands

	I	Dependent variable: Non-territorial Revisionist Demands	
	Non-terri		
	(Logit)	(Fixed Effects Logit Model)	
Transformative Ideology	1.056***	0.778**	
	(0.205)	(0.375)	
Combined Index of	0.030***	0.044	
National Capabilities	(0.011)	(0.036)	
Cold War	0.157	-0.026	
(dummy variable)	(0.127)	(0.183)	
Peace Years	-0.023	-0.026	
	(0.015)	(0.020)	
Constant	-1.167***	-1.576***	
	(0.118)	(0.594)	
Observations	1,768	1,768	
Log Likelihood	-1,059.119	-861.691	
Akaike Inf. Crit.	2,128.237	1,985.381	

Note: CFE ommitted for space

*p<0.1; **p<0.05; ***p<0.01

References