```
R version 3.6.1 (2019-07-05) -- "Action of the Toes"
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Platform: x86_64-apple-darwin15.6.0 (64-bit)

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[R.app GUI 1.70 (7684) x86_64-apple-darwin15.6.0]

2020-01-28 13:00:49.561 R[5070:612811] Antidote - Texteurs: Module texteur installé dans /Applications/R.app
(org.R-project.R)
> ########################
> #JF GODBOUT MANUSCRIPT##
> #CHAPTER 5##############
> #September 6, 2018######
> ########################
> #Appendix Chapter 6#####
> ########################
>
>
##############################################################################################################
#################
> #Appendix 6.A: Replication of Table 6.5, The Determinants of Party Unity (Cumulative Analysis) with
Fractional Logit regressions#
>
##############################################################################################################
#################
>
> rm(list=ls())
>
> library(mfx);library(car);library(mfx)
Loading required package: sandwich
Loading required package: lmtest
Loading required package: zoo

Attaching package: ‘zoo’

The following objects are masked from ‘package:base’:

    as.Date, as.Date.numeric

Loading required package: MASS
Loading required package: betareg
Loading required package: carData
>
> cons <- read.csv(file="~/Dropbox/Canada-Manuscript/Analysis/cons-vote.csv", header=T)
> libs <- read.csv(file="~/Dropbox/Canada-Manuscript/Analysis/libs-vote.csv", header=T)
>
> ####################
> #6.1.1 Code Topics 2#
> ####################
>
> #Conservative
>
> data1 <- cons
>
> data1$org.type <- recode(data1$type1,"'public.cabinet'='xpublic.cabinet'")
> data1$type.f <- factor(data1$org.type)
> x <- length(levels(factor(data1$type.f)))
```

```
> contrasts(data1$type.f) = contr.sum(x)
>
> #Liberals
>
> data2 <- libs
>
> data2$org.type <- recode(data2$type1,"'public.cabinet'='xpublic.cabinet'")
> data2$type.f <- factor(data2$org.type)
> x <- length(levels(factor(data2$type.f)))
> contrasts(data2$type.f) = contr.sum(x)
>
> ################
> #6.1.2 Analysis#
> ################
>
> m6.5 <- rice.bill ~ type.f + ownparty + govtype + govparty + per.seat + parlement + I(+ parlement^2)
>
> #cons 1-40
>
> m6.5cons <- glm(m6.5,dat=data1,family=quasibinomial(logit))
> round(coeftest(m6.5cons, vcov = vcovHAC(m6.5cons)),2)

z test of coefficients:

                Estimate Std. Error z value Pr(>|z|)
(Intercept)        -0.55       0.32   -1.75     0.08 .
type.f1             0.59       0.14    4.24   <2e-16 ***
type.f2             0.56       0.08    6.98   <2e-16 ***
type.f3            -1.03       0.10   -9.96   <2e-16 ***
type.f4            -0.76       0.12   -6.48   <2e-16 ***
ownparty            0.08       0.12    0.64     0.52
govtypeminority     0.02       0.24    0.09     0.93
govparty            0.47       0.22    2.18     0.03 *
per.seat            0.39       0.72    0.54     0.59
parlement           0.23       0.02   10.85   <2e-16 ***
I(+parlement^2)     0.00       0.00   -6.16   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #cons 1-16
>
> m6.5consA <- glm(m6.5,data=data1[data1$parlement<17,],family=quasibinomial(logit))
> round(coeftest(m6.5consA, vcov = vcovHAC(m6.5consA)),2)

z test of coefficients:

                Estimate Std. Error z value Pr(>|z|)
(Intercept)        -1.61       0.48   -3.37   <2e-16 ***
type.f1             0.53       0.16    3.28   <2e-16 ***
type.f2             0.60       0.10    6.15   <2e-16 ***
type.f3            -1.08       0.11   -9.99   <2e-16 ***
type.f4            -0.77       0.13   -5.88   <2e-16 ***
ownparty            0.00       0.13    0.01     0.99
govtypeminority    -0.02       0.33   -0.07     0.95
govparty           -0.33       0.32   -1.06     0.29
per.seat            3.41       1.22    2.78     0.01 **
parlement           0.24       0.05    5.21   <2e-16 ***
I(+parlement^2)     0.00       0.00   -1.69     0.09 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #cons 17-40
>
> m6.5consB <- glm(m6.5,data=data1[data1$parlement>16,],family=quasibinomial(logit))
> round(coeftest(m6.5consB, vcov = vcovHAC(m6.5consB)),2)

z test of coefficients:

                Estimate Std. Error z value Pr(>|z|)
```

```
(Intercept)         2.46       2.79    0.88     0.38
type.f1             0.67       0.22    3.02   <2e-16 ***
type.f2             0.52       0.14    3.67   <2e-16 ***
type.f3            -0.91       0.26   -3.45   <2e-16 ***
type.f4            -0.92       0.20   -4.56   <2e-16 ***
ownparty            0.30       0.17    1.74     0.08 .
govtypeminority     0.22       0.33    0.67     0.50
govparty            0.70       0.37    1.90     0.06 .
per.seat           -0.39       0.83   -0.47     0.64
parlement           0.03       0.22    0.15     0.88
I(+parlement^2)     0.00       0.00   -0.09     0.93
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #libs 1-40
>
> m6.5libs <- glm(m6.5,dat=data2,family=quasibinomial(logit))
> round(coeftest(m6.5libs, vcov = vcovHAC(m6.5libs)),2)

z test of coefficients:

                Estimate Std. Error z value Pr(>|z|)
(Intercept)        -0.34       0.36   -0.94     0.35
type.f1             0.47       0.15    3.16   <2e-16 ***
type.f2             0.62       0.08    7.92   <2e-16 ***
type.f3            -0.96       0.13   -7.17   <2e-16 ***
type.f4            -0.94       0.12   -7.69   <2e-16 ***
ownparty            0.85       0.11    7.40   <2e-16 ***
govtypeminority    -0.01       0.22   -0.04     0.97
govparty           -0.18       0.29   -0.64     0.52
per.seat           -0.48       0.84   -0.57     0.57
parlement           0.27       0.02   10.93   <2e-16 ***
I(+parlement^2)     0.00       0.00   -8.09   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #libs 1-16
>
> m6.5libsA <- glm(m6.5,data=data2[data2$parlement<17,],family=quasibinomial(logit))
> round(coeftest(m6.5libsA, vcov = vcovHAC(m6.5libsA)),2)

z test of coefficients:

                Estimate Std. Error z value Pr(>|z|)
(Intercept)        -0.61       0.44   -1.38     0.17
type.f1             0.46       0.18    2.51     0.01 **
type.f2             0.51       0.09    5.48   <2e-16 ***
type.f3            -1.18       0.13   -9.17   <2e-16 ***
type.f4            -0.50       0.14   -3.46   <2e-16 ***
ownparty            0.61       0.12    4.95   <2e-16 ***
govtypeminority    -0.13       0.28   -0.46     0.64
govparty            0.51       0.32    1.60     0.11
per.seat           -1.30       1.08   -1.21     0.23
parlement           0.58       0.04   13.37   <2e-16 ***
I(+parlement^2)    -0.03       0.00  -10.45   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #libs 17-40
>
> m6.5libsB <- glm(m6.5,data=data2[data2$parlement>16,],family=quasibinomial(logit))
> round(coeftest(m6.5libsB, vcov = vcovHAC(m6.5libsB)),2)

z test of coefficients:

                Estimate Std. Error z value Pr(>|z|)
(Intercept)        -6.75       2.77   -2.43     0.01 **
type.f1             0.42       0.22    1.88     0.06 .
```

```
type.f2             0.67       0.13    5.15   <2e-16 ***
type.f3            -0.76       0.31   -2.45     0.01 **
type.f4            -1.28       0.18   -7.25   <2e-16 ***
ownparty            0.71       0.20    3.56   <2e-16 ***
govtypeminority     0.49       0.40    1.22     0.22
govparty           -0.80       0.49   -1.64     0.10 .
per.seat            1.57       1.32    1.19     0.23
parlement           0.69       0.20    3.50   <2e-16 ***
I(+parlement^2)    -0.01       0.00   -3.41   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #motion.cabinet     1    0    0    0
> #motion.private     0    1    0    0
> #private.bill       0    0    1    0
> #public.private     0    0    0    1
> #xpublic.cabinet   -1   -1   -1   -1
>
>
##############################################################################################################
#########
> #Appendix 6.B: Replication of Table 6.5, The Determinants of Party Unity (Cumulative Analysis) with weighted
Rice Index#
>
##############################################################################################################
#########
>
> rm(list=ls())
>
> library(mfx);library(car);library(mfx)
>
> cons <- read.csv(file="~/Dropbox/Canada-Manuscript/Analysis/cons-vote.csv", header=T)
> libs <- read.csv(file="~/Dropbox/Canada-Manuscript/Analysis/libs-vote.csv", header=T)
>
> ######################
> #6.2.1. Code Topics 2#
> ######################
>
> #Conservative
>
> data1 <- cons
>
> data1$org.type <- recode(data1$type1,"'public.cabinet'='xpublic.cabinet'")
> data1$type.f <- factor(data1$org.type)
> x <- length(levels(factor(data1$type.f)))
> contrasts(data1$type.f) = contr.sum(x)
>
> #create weighted Rice Index
>
> data1$weighted.rice <- data1$rice.bill * data1$turnout
>
> #Liberals
>
> data2 <- libs
>
> data2$org.type <- recode(data2$type1,"'public.cabinet'='xpublic.cabinet'")
> data2$type.f <- factor(data2$org.type)
> x <- length(levels(factor(data2$type.f)))
> contrasts(data2$type.f) = contr.sum(x)
>
> #create weighted Rice Index
>
> data2$weighted.rice <- data2$rice.bill * data2$turnout
>
> #################
> #6.2.2. Analysis#
> #################
>
> m6.5 <- weighted.rice ~ type.f + ownparty + govtype + govparty + per.seat + parlement + I(+ parlement^2)
>
```

```
> #cons 1-40
>
> m6.5cons <- lm(m6.5,data=data1)
> m6.5cons.res <- round(coeftest(m6.5cons, vcov = vcovHAC(m6.5cons)),2)
>
> #cons 1-16
>
> m6.5consA <- lm(m6.5,data=data1[data1$parlement<17,],)
> m6.5cons.resA <- round(coeftest(m6.5consA, vcov = vcovHAC(m6.5consA)),2)
>
> #cons 17-40
>
> m6.5consB <- lm(m6.5,data=data1[data1$parlement>16,],)
> m6.5cons.resB <- round(coeftest(m6.5consB, vcov = vcovHAC(m6.5consB)),2)
>
> #libs 1-40
>
> m6.5libs <- lm(m6.5,data=data2)
> m6.5libs.res <- round(coeftest(m6.5libs, vcov = vcovHAC(m6.5libs)),2)
>
> #libs 1-16
>
> m6.5libsA <- lm(m6.5,data=data2[data2$parlement<17,],)
> m6.5libs.resA <- round(coeftest(m6.5libsA, vcov = vcovHAC(m6.5libsA)),2)
>
> #libs 17-40
>
> m6.5libsB <- lm(m6.5,data=data2[data2$parlement>16,],)
> m6.5libs.resB <- round(coeftest(m6.5libsB, vcov = vcovHAC(m6.5libsB)),2)
>
> #############
> #Topic table#
> #############
>
> #motion.cabinet     1    0    0    0
> #motion.private     0    1    0    0
> #private.bill       0    0    1    0
> #public.private     0    0    0    1
> #xpublic.cabinet   -1   -1   -1   -1
>
> #results conservatives
>
> summary(m6.5cons)

Call:
lm(formula = m6.5, data = data1)

Residuals:
     Min       1Q   Median       3Q      Max
-0.76261 -0.12128  0.04438  0.13069  0.49624

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      4.327e-01  9.855e-03  43.912  < 2e-16 ***
type.f1          6.945e-02  6.902e-03  10.062  < 2e-16 ***
type.f2          9.180e-02  4.920e-03  18.658  < 2e-16 ***
type.f3         -1.712e-01  1.124e-02 -15.241  < 2e-16 ***
type.f4         -1.186e-02  8.192e-03  -1.448  0.14766
ownparty         1.845e-02  6.495e-03   2.840  0.00452 **
govtypeminority  2.293e-01  6.627e-03  34.606  < 2e-16 ***
govparty         2.319e-02  1.026e-02   2.260  0.02386 *
per.seat         3.393e-02  2.125e-02   1.597  0.11035
parlement        2.677e-03  1.010e-03   2.651  0.00804 **
I(+parlement^2)  1.308e-05  2.434e-05   0.537  0.59110
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2037 on 10121 degrees of freedom
  (24 observations deleted due to missingness)
Multiple R-squared:  0.2227,
  Adjusted R-squared:  0.222
```

```
F-statistic:   290 on 10 and 10121 DF,  p-value: < 2.2e-16

> nobs(m6.5cons)
[1] 10132
> m6.5cons.res

t test of coefficients:

                Estimate Std. Error t value Pr(>|t|)
(Intercept)         0.43       0.04   11.71   <2e-16 ***
type.f1             0.07       0.01    7.36   <2e-16 ***
type.f2             0.09       0.01   12.78   <2e-16 ***
type.f3            -0.17       0.02  -10.29   <2e-16 ***
type.f4            -0.01       0.01   -0.83     0.41
ownparty            0.02       0.01    1.53     0.13
govtypeminority     0.23       0.03    7.55   <2e-16 ***
govparty            0.02       0.03    0.68     0.50
per.seat            0.03       0.10    0.35     0.73
parlement           0.00       0.00    0.95     0.34
I(+parlement^2)     0.00       0.00    0.18     0.86
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> summary(m6.5consA)

Call:
lm(formula = m6.5, data = data1[data1$parlement < 17, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.70797 -0.12615  0.02506  0.13996  0.57046

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)     0.0404876  0.0392378   1.032  0.30228
type.f1         0.1111026  0.0159306   6.974 4.32e-12 ***
type.f2         0.1110611  0.0087820  12.646  < 2e-16 ***
type.f3        -0.1795570  0.0148947 -12.055  < 2e-16 ***
type.f4        -0.1152717  0.0145858  -7.903 4.73e-15 ***
ownparty       -0.0068029  0.0127673  -0.533  0.59421
govtypeminority 0.1226494  0.0240878   5.092 3.92e-07 ***
govparty       -0.0694481  0.0267614  -2.595  0.00953 **
per.seat        0.8253125  0.0983793   8.389  < 2e-16 ***
parlement       0.0059380  0.0041523   1.430  0.15288
I(+parlement^2) 0.0001905  0.0002569   0.741  0.45856
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1996 on 1783 degrees of freedom
Multiple R-squared:  0.2483,
  Adjusted R-squared:  0.2441
F-statistic: 58.89 on 10 and 1783 DF,  p-value: < 2.2e-16

> nobs(m6.5consA)
[1] 1794
> m6.5cons.resA

t test of coefficients:

                Estimate Std. Error t value Pr(>|t|)
(Intercept)         0.04       0.07    0.61     0.54
type.f1             0.11       0.02    5.88   <2e-16 ***
type.f2             0.11       0.01    9.56   <2e-16 ***
type.f3            -0.18       0.02  -11.48   <2e-16 ***
type.f4            -0.12       0.02   -5.43   <2e-16 ***
ownparty           -0.01       0.02   -0.37     0.71
govtypeminority     0.12       0.04    3.23   <2e-16 ***
govparty           -0.07       0.05   -1.41     0.16
per.seat            0.83       0.17    4.72   <2e-16 ***
parlement           0.01       0.01    0.97     0.33
```

```
I(+parlement^2)     0.00       0.00    0.51     0.61
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> summary(m6.5consB)

Call:
lm(formula = m6.5, data = data1[data1$parlement > 16, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.83997 -0.12020  0.04129  0.12746  0.43483

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      1.3358569  0.0748652  17.844  < 2e-16 ***
type.f1          0.0502951  0.0079753   6.306 3.00e-10 ***
type.f2          0.0729951  0.0062355  11.706  < 2e-16 ***
type.f3         -0.1322501  0.0169839  -7.787 7.70e-15 ***
type.f4          0.0006495  0.0099784   0.065    0.948
ownparty         0.0354215  0.0073738   4.804 1.58e-06 ***
govtypeminority  0.2088156  0.0078650  26.550  < 2e-16 ***
govparty        -0.1063656  0.0140310  -7.581 3.80e-14 ***
per.seat         0.2658792  0.0294162   9.039  < 2e-16 ***
parlement       -0.0651434  0.0058618 -11.113  < 2e-16 ***
I(+parlement^2)  0.0011955  0.0001044  11.451  < 2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.199 on 8327 degrees of freedom
  (24 observations deleted due to missingness)
Multiple R-squared:  0.2348,
  Adjusted R-squared:  0.2339
F-statistic: 255.5 on 10 and 8327 DF,  p-value: < 2.2e-16

> nobs(m6.5consB)
[1] 8338
> m6.5cons.resB

t test of coefficients:

                Estimate Std. Error t value Pr(>|t|)
(Intercept)         1.34       0.21    6.45   <2e-16 ***
type.f1             0.05       0.01    4.73   <2e-16 ***
type.f2             0.07       0.01    8.71   <2e-16 ***
type.f3            -0.13       0.02   -5.41   <2e-16 ***
type.f4             0.00       0.01    0.04     0.97
ownparty            0.04       0.01    2.56     0.01 **
govtypeminority     0.21       0.03    6.68   <2e-16 ***
govparty           -0.11       0.05   -2.28     0.02 *
per.seat            0.27       0.12    2.23     0.03 *
parlement          -0.07       0.02   -3.86   <2e-16 ***
I(+parlement^2)     0.00       0.00    3.90   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #results liberals
>
> summary(m6.5libs)

Call:
lm(formula = m6.5, data = data2)

Residuals:
     Min       1Q   Median       3Q      Max
-0.82415 -0.10876  0.04892  0.15540  0.59274

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
```

```
(Intercept)      2.366e-01  1.563e-02  15.140  < 2e-16 ***
type.f1          9.136e-02  6.868e-03  13.301  < 2e-16 ***
type.f2          1.011e-01  5.038e-03  20.059  < 2e-16 ***
type.f3         -1.901e-01  1.158e-02 -16.422  < 2e-16 ***
type.f4         -4.121e-02  8.117e-03  -5.077 3.89e-07 ***
ownparty         4.317e-02  5.981e-03   7.219 5.59e-13 ***
govtypeminority  1.418e-01  6.715e-03  21.110  < 2e-16 ***
govparty        -1.423e-02  1.078e-02  -1.320    0.187
per.seat         4.457e-01  3.227e-02  13.813  < 2e-16 ***
parlement        3.823e-03  9.750e-04   3.921 8.88e-05 ***
I(+parlement^2)  1.989e-05  2.163e-05   0.920    0.358
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2102 on 10849 degrees of freedom
  (30 observations deleted due to missingness)
Multiple R-squared:  0.2169,
  Adjusted R-squared:  0.2162
F-statistic: 300.4 on 10 and 10849 DF,  p-value: < 2.2e-16

> nobs(m6.5libs)
[1] 10860
> m6.5libs.res

t test of coefficients:

                Estimate Std. Error t value Pr(>|t|)
(Intercept)         0.24       0.07    3.46   <2e-16 ***
type.f1             0.09       0.01    9.21   <2e-16 ***
type.f2             0.10       0.01   13.57   <2e-16 ***
type.f3            -0.19       0.02  -11.35   <2e-16 ***
type.f4            -0.04       0.01   -2.92   <2e-16 ***
ownparty            0.04       0.01    3.56   <2e-16 ***
govtypeminority     0.14       0.02    6.61   <2e-16 ***
govparty           -0.01       0.05   -0.31     0.76
per.seat            0.45       0.15    3.01   <2e-16 ***
parlement           0.00       0.00    1.01     0.31
I(+parlement^2)     0.00       0.00    0.24     0.81
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> summary(m6.5libsA)

Call:
lm(formula = m6.5, data = data2[data2$parlement < 17, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.61956 -0.12699  0.02967  0.14089  0.52254

Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.6178171  0.0463024  13.343  < 2e-16 ***
type.f1          0.1090852  0.0156808   6.957 4.88e-12 ***
type.f2          0.0813148  0.0086878   9.360  < 2e-16 ***
type.f3         -0.1809117  0.0147083 -12.300  < 2e-16 ***
type.f4         -0.0555746  0.0141805  -3.919 9.22e-05 ***
ownparty         0.0679906  0.0119650   5.682 1.55e-08 ***
govtypeminority  0.0163305  0.0244025   0.669    0.503
govparty         0.1848832  0.0311978   5.926 3.71e-09 ***
per.seat        -0.7836566  0.1184131  -6.618 4.80e-11 ***
parlement        0.0422543  0.0040631  10.399  < 2e-16 ***
I(+parlement^2) -0.0023957  0.0002554  -9.378  < 2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1964 on 1783 degrees of freedom
Multiple R-squared:  0.2484,
  Adjusted R-squared:  0.2442
F-statistic: 58.92 on 10 and 1783 DF,  p-value: < 2.2e-16
```

```
> nobs(m6.5libsA)
[1] 1794
> m6.5libs.resA

t test of coefficients:

                Estimate Std. Error t value Pr(>|t|)
(Intercept)         0.62       0.09    7.11   <2e-16 ***
type.f1             0.11       0.02    4.97   <2e-16 ***
type.f2             0.08       0.01    6.61   <2e-16 ***
type.f3            -0.18       0.02   -9.65   <2e-16 ***
type.f4            -0.06       0.02   -2.69     0.01 **
ownparty            0.07       0.02    3.86   <2e-16 ***
govtypeminority     0.02       0.04    0.42     0.67
govparty            0.18       0.06    2.89   <2e-16 ***
per.seat           -0.78       0.22   -3.52   <2e-16 ***
parlement           0.04       0.01    5.37   <2e-16 ***
I(+parlement^2)     0.00       0.00   -4.92   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> summary(m6.5libsB)

Call:
lm(formula = m6.5, data = data2[data2$parlement > 16, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.84210 -0.10193  0.05096  0.15337  0.48093

Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
(Intercept)     -3.728e-01  7.460e-02  -4.997 5.93e-07 ***
type.f1          8.717e-02  8.082e-03  10.785  < 2e-16 ***
type.f2          1.071e-01  6.604e-03  16.222  < 2e-16 ***
type.f3         -1.871e-01  1.782e-02 -10.496  < 2e-16 ***
type.f4         -3.881e-02  1.007e-02  -3.855 0.000116 ***
ownparty         3.807e-02  7.099e-03   5.363 8.37e-08 ***
govtypeminority  1.684e-01  7.555e-03  22.290  < 2e-16 ***
govparty        -3.009e-02  1.287e-02  -2.337 0.019436 *
per.seat         5.753e-01  3.721e-02  15.463  < 2e-16 ***
parlement        4.211e-02  4.881e-03   8.628  < 2e-16 ***
I(+parlement^2) -6.036e-04  8.203e-05  -7.358 2.02e-13 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2092 on 9055 degrees of freedom
  (30 observations deleted due to missingness)
Multiple R-squared:  0.203,
  Adjusted R-squared:  0.2021
F-statistic: 230.6 on 10 and 9055 DF,  p-value: < 2.2e-16

> nobs(m6.5libsB)
[1] 9066
> m6.5libs.resB

t test of coefficients:

                Estimate Std. Error t value Pr(>|t|)
(Intercept)        -0.37       0.29   -1.27     0.20
type.f1             0.09       0.01    7.57   <2e-16 ***
type.f2             0.11       0.01   11.52   <2e-16 ***
type.f3            -0.19       0.03   -6.79   <2e-16 ***
type.f4            -0.04       0.02   -2.05     0.04 *
ownparty            0.04       0.01    3.08   <2e-16 ***
govtypeminority     0.17       0.03    6.38   <2e-16 ***
govparty           -0.03       0.06   -0.51     0.61
per.seat            0.58       0.19    3.10   <2e-16 ***
parlement           0.04       0.02    2.27     0.02 *
```

```
I(+parlement^2)     0.00       0.00   -1.89     0.06 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
>
```