```
R version 3.6.1 (2019-07-05) -- "Action of the Toes"
Copyright (C) 2019 The R Foundation for Statistical Computing
Platform: x86_64-apple-darwin15.6.0 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

  Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

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

2020-01-28 12:38:25.813 R[4662:568870] Antidote - Texteurs: Module texteur installé dans /Applications/R.app
(org.R-project.R)
> ########################
> #JF GODBOUT MANUSCRIPT##
> #CHAPTER 5##############
> #August 20, 2018########
> ########################
> #FIGURE 5.2#############
> ########################
>
> ############################################################
> #Figure 5.2: The Influence of Competition on Party Loyalty#
> ############################################################
>
> #Figure 5.2.1 & 5.2.2 effective no. of parties & margin
>
> rm(list=ls())
>
> data1 <- read.csv(file="~/Dropbox/Canada-Manuscript/Analysis/data1.csv",header =TRUE)
>
> #keep liberals and conservatives only
>
> data1 <- subset(data1,data1$conservative==1 | data1$liberal==1)
>
> #drop turnout < .10
> data1 <- subset(data1,data1$turnout>.10)
>
> #drop total vote <10
> #Note that 31st Parliament is dropped
> data1 <- subset(data1,data1$total.vote>10)
>
> #drop election total votes = 0 for non-liberal + non-conservative parties, some by-elections (no average) +
acclamations > 1949
> data1 <- subset(data1,data1$el.total.vote.mean>0)
>
> ########################################
> #5.2.1 Analysis effective no. of parties#
> ########################################
>
> m5.2.1 <- loyalty ~ government + cabinet +  el.effective + maritime + quebec + west
>
> m1 <- lm(m5.2.1,data=data1[data1$parl1==1,])
> m2 <- lm(m5.2.1,data=data1[data1$parl2==1,])
> m3 <- lm(m5.2.1,data=data1[data1$parl3==1,])
> m4 <- lm(m5.2.1,data=data1[data1$parl4==1,])
> m5 <- lm(m5.2.1,data=data1[data1$parl5==1,])
> m6 <- lm(m5.2.1,data=data1[data1$parl6==1,])
> m7 <- lm(m5.2.1,data=data1[data1$parl7==1,])
> m8 <- lm(m5.2.1,data=data1[data1$parl8==1,])
> m9 <- lm(m5.2.1,data=data1[data1$parl9==1,])
```

```
> m10 <- lm(m5.2.1,data=data1[data1$parl10==1,])
> m11 <- lm(m5.2.1,data=data1[data1$parl11==1,])
> m12 <- lm(m5.2.1,data=data1[data1$parl12==1,])
> m13 <- lm(m5.2.1,data=data1[data1$parl13==1,])
> m14 <- lm(m5.2.1,data=data1[data1$parl14==1,])
> m15 <- lm(m5.2.1,data=data1[data1$parl15==1,])
> m16 <- lm(m5.2.1,data=data1[data1$parl16==1,])
> m17 <- lm(m5.2.1,data=data1[data1$parl17==1,])
> m18 <- lm(m5.2.1,data=data1[data1$parl18==1,])
> m19 <- lm(m5.2.1,data=data1[data1$parl19==1,])
> m20 <- lm(m5.2.1,data=data1[data1$parl20==1,])
> m21 <- lm(m5.2.1,data=data1[data1$parl21==1,])
> m22 <- lm(m5.2.1,data=data1[data1$parl22==1,])
> m23 <- lm(m5.2.1,data=data1[data1$parl23==1,])
> m24 <- lm(m5.2.1,data=data1[data1$parl24==1,])
> m25 <- lm(m5.2.1,data=data1[data1$parl25==1,])
> m26 <- lm(m5.2.1,data=data1[data1$parl26==1,])
> m27 <- lm(m5.2.1,data=data1[data1$parl27==1,])
> m28 <- lm(m5.2.1,data=data1[data1$parl28==1,])
> m29 <- lm(m5.2.1,data=data1[data1$parl29==1,])
>
> 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
>
> mm1 <- coeftest(m1, vcov = vcovHAC(m1))
> mm2 <- coeftest(m2, vcov = vcovHAC(m2))
> mm3 <- coeftest(m3, vcov = vcovHAC(m3))
> mm4 <- coeftest(m4, vcov = vcovHAC(m4))
> mm5 <- coeftest(m5, vcov = vcovHAC(m5))
> mm6 <- coeftest(m6, vcov = vcovHAC(m6))
> mm7 <- coeftest(m7, vcov = vcovHAC(m7))
> mm8 <- coeftest(m8, vcov = vcovHAC(m8))
> mm9 <- coeftest(m9, vcov = vcovHAC(m9))
> mm10 <- coeftest(m10, vcov = vcovHAC(m10))
> mm11 <- coeftest(m11, vcov = vcovHAC(m11))
> mm12 <- coeftest(m12, vcov = vcovHAC(m12))
> mm13 <- coeftest(m13, vcov = vcovHAC(m13))
> mm14 <- coeftest(m14, vcov = vcovHAC(m14))
> mm15 <- coeftest(m15, vcov = vcovHAC(m15))
> mm16 <- coeftest(m16, vcov = vcovHAC(m16))
> mm17 <- coeftest(m17, vcov = vcovHAC(m17))
> mm18 <- coeftest(m18, vcov = vcovHAC(m18))
> mm19 <- coeftest(m19, vcov = vcovHAC(m19))
> mm20 <- coeftest(m20, vcov = vcovHAC(m20))
> mm21 <- coeftest(m21, vcov = vcovHAC(m21))
> mm22 <- coeftest(m22, vcov = vcovHAC(m22))
> mm23 <- coeftest(m23, vcov = vcovHAC(m23))
> mm24 <- coeftest(m24, vcov = vcovHAC(m24))
> mm25 <- coeftest(m25, vcov = vcovHAC(m25))
> mm26 <- coeftest(m26, vcov = vcovHAC(m26))
> mm27 <- coeftest(m27, vcov = vcovHAC(m27))
> mm28 <- coeftest(m28, vcov = vcovHAC(m28))
> mm29 <- coeftest(m29, vcov = vcovHAC(m29))
>
> #Graphic 5.2.1
>
> coef <- mm1[4,1]
> se <- mm1[4,2]
> conf1 <- coef + c(-1,1)*se*qt(0.975, m1$df.residual)
> conf1 <- c(conf1,coef,"1st (1867-1872)")
```

```
> coef <- mm2[4,1]
> se <- mm2[4,2]
> conf2 <- coef + c(-1,1)*se*qt(0.975, m2$df.residual)
> conf2 <- c(conf2,coef,"2nd (1872-1874)")
> coef <- mm3[4,1]
> se <- mm3[4,2]
> conf3 <- coef + c(-1,1)*se*qt(0.975, m3$df.residual)
> conf3 <- c(conf3,coef,"3rd (1874-1878)")
> coef <- mm4[4,1]
> se <- mm4[4,2]
> conf4 <- coef + c(-1,1)*se*qt(0.975, m4$df.residual)
> conf4 <- c(conf4,coef,"4th (1879-1882)")
> coef <- mm5[4,1]
> se <- mm5[4,2]
> conf5 <- coef + c(-1,1)*se*qt(0.975, m5$df.residual)
> conf5 <- c(conf5,coef,"5th (1883-1887)")
> coef <- mm6[4,1]
> se <- mm6[4,2]
> conf6 <- coef + c(-1,1)*se*qt(0.975, m6$df.residual)
> conf6 <- c(conf6,coef,"6th (1887-1891)")
> coef <- mm7[4,1]
> se <- mm7[4,2]
> conf7 <- coef + c(-1,1)*se*qt(0.975, m7$df.residual)
> conf7 <- c(conf7,coef,"7th (1891-1896)")
> coef <- mm8[4,1]
> se <- mm8[4,2]
> conf8 <- coef + c(-1,1)*se*qt(0.975, m8$df.residual)
> conf8 <- c(conf8,coef,"8th (1896-1900)")
> coef <- mm9[4,1]
> se <- mm9[4,2]
> conf9 <- coef + c(-1,1)*se*qt(0.975, m9$df.residual)
> conf9 <- c(conf9,coef,"9th (1901-1904)")
> coef <- mm10[4,1]
> se <- mm10[4,2]
> conf10 <- coef + c(-1,1)*se*qt(0.975, m10$df.residual)
> conf10 <- c(conf10,coef,"10th (1905-1908)")
> coef <- mm11[4,1]
> se <- mm11[4,2]
> conf11 <- coef + c(-1,1)*se*qt(0.975, m11$df.residual)
> conf11 <- c(conf11,coef,"11th (1909-1911)")
> coef <- mm12[4,1]
> se <- mm12[4,2]
> conf12 <- coef + c(-1,1)*se*qt(0.975, m12$df.residual)
> conf12 <- c(conf12,coef,"12th (1911-1917)")
> coef <- mm13[4,1]
> se <- mm13[4,2]
> conf13 <- coef + c(-1,1)*se*qt(0.975, m13$df.residual)
> conf13 <- c(conf13,coef,"13th (1917-1921)")
> coef <- mm14[4,1]
> se <- mm14[4,2]
> conf14 <- coef + c(-1,1)*se*qt(0.975, m14$df.residual)
> conf14 <- c(conf14,coef,"14th (1921-1925)")
> coef <- mm15[4,1]
> se <- mm15[4,2]
> conf15 <- coef + c(-1,1)*se*qt(0.975, m15$df.residual)
> conf15 <- c(conf15,coef,"15th (1926)")
> coef <- mm16[4,1]
> se <- mm16[4,2]
> conf16 <- coef + c(-1,1)*se*qt(0.975, m16$df.residual)
> conf16 <- c(conf16,coef,"16th (1926-1930)")
> coef <- mm17[4,1]
> se <- mm17[4,2]
> conf17 <- coef + c(-1,1)*se*qt(0.975, m17$df.residual)
> conf17 <- c(conf17,coef,"17th (1930-1935)")
> coef <- mm18[4,1]
> se <- mm18[4,2]
> conf18 <- coef + c(-1,1)*se*qt(0.975, m18$df.residual)
> conf18 <- c(conf18,coef,"18th (1935-1940)")
> coef <- mm19[4,1]
> se <- mm19[4,2]
> conf19 <- coef + c(-1,1)*se*qt(0.975, m19$df.residual)
```

```
> conf19 <- c(conf19,coef,"19th (1940-1945)")
> coef <- mm20[4,1]
> se <- mm20[4,2]
> conf20 <- coef + c(-1,1)*se*qt(0.975, m20$df.residual)
> conf20 <- c(conf20,coef,"20th (1945-1949)")
>
> coef <- mm21[4,1]
> se <- mm21[4,2]
> conf21 <- coef + c(-1,1)*se*qt(0.975, m21$df.residual)
> conf21 <- c(conf21,coef,"21st (1949-1953)")
> coef <- mm22[4,1]
> se <- mm22[4,2]
> conf22 <- coef + c(-1,1)*se*qt(0.975, m22$df.residual)
> conf22 <- c(conf22,coef,"22nd (1953-1957)")
> coef <- mm23[4,1]
> se <- mm23[4,2]
> conf23 <- coef + c(-1,1)*se*qt(0.975, m23$df.residual)
> conf23 <- c(conf23,coef,"23rd (1957-1958)")
> coef <- mm24[4,1]
> se <- mm24[4,2]
> conf24 <- coef + c(-1,1)*se*qt(0.975, m24$df.residual)
> conf24 <- c(conf24,coef,"24th (1958-1962)")
> coef <- mm25[4,1]
> se <- mm25[4,2]
> conf25 <- coef + c(-1,1)*se*qt(0.975, m25$df.residual)
> conf25 <- c(conf25,coef,"25th (1962-1963)")
> coef <- mm26[4,1]
> se <- mm26[4,2]
> conf26 <- coef + c(-1,1)*se*qt(0.975, m26$df.residual)
> conf26 <- c(conf26,coef,"26th (1963-1965)")
> coef <- mm27[4,1]
> se <- mm27[4,2]
> conf27 <- coef + c(-1,1)*se*qt(0.975, m27$df.residual)
> conf27 <- c(conf27,coef,"27th (1965-1968)")
> coef <- mm28[4,1]
> se <- mm28[4,2]
> conf28 <- coef + c(-1,1)*se*qt(0.975, m28$df.residual)
> conf28 <- c(conf28,coef,"28th (1968-1972)")
> coef <- mm29[4,1]
> se <- mm29[4,2]
> conf29 <- coef + c(-1,1)*se*qt(0.975, m29$df.residual)
> conf29 <- c(conf29,coef,"29th (1972-1974)")
>
> all <-
rbind(conf29,conf28,conf27,conf26,conf25,conf24,conf23,conf22,conf21,conf20,conf19,conf18,conf17,conf16,conf15,
conf14,conf13,conf12,conf11,conf10,conf9,conf8,conf7,conf6,conf5,conf4,conf3,conf2,conf1)
>
> colnames(all) <- c("low","high","coef","V1")
> all <- data.frame(all)
> all$low <- as.numeric(as.character(all$low))
> all$high <- as.numeric(as.character(all$high))
> all$coef <- as.numeric(as.character(all$coef))
>
> #library(ggplot2)
> #tiff(file = "~/Dropbox/Canada-Manuscript/Figures-Final/Figure-5.2.1.jpg", width = 8, height = 8, units =
'in', res = 200)
> #ggplot(all, aes(V1,xx, ymin = low,ymax = high))+
> #  scale_x_discrete('Parliaments (1867-1974)',limits=all$V1) +
> #  scale_y_continuous('95% Confidence Intervals for Effective No. of Parties',limits=c(-0.075,0.075)) +
> #  theme_bw() +
> #  geom_errorbar(aes(x = V1, y = coef),size=.3,width=.2) +
> #  geom_point(aes(x = V1, y = coef)) +
> #  geom_hline(yintercept=0) +
> #  coord_flip() +
> #  ggtitle("Effective No. of Parties") +
> #  theme(plot.title = element_text(hjust = .5,face="bold"))
> #dev.off()
>
> #Print results 5.2.1
>
> summary(m1)
```

```
Call:
lm(formula = m5.2.1, data = data1[data1$parl1 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.40622 -0.04292  0.01928  0.08957  0.25146

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.77738    0.04289  18.127  < 2e-16 ***
government    0.10838    0.02174   4.985 1.36e-06 ***
cabinet       0.06560    0.03691   1.777 0.077054 .
el.effective -0.01518    0.02204  -0.689 0.491888
maritime     -0.11315    0.02922  -3.872 0.000147 ***
quebec       -0.01251    0.02315  -0.540 0.589513
west         -0.20337    0.05347  -3.803 0.000191 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1413 on 196 degrees of freedom
Multiple R-squared:  0.2743,
  Adjusted R-squared:  0.2521
F-statistic: 12.35 on 6 and 196 DF,  p-value: 8.917e-12

> nobs(m1)
[1] 203
> mm1

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.777382   0.055749 13.9442 < 2.2e-16 ***
government    0.108375   0.022981  4.7158 4.565e-06 ***
cabinet       0.065605   0.034290  1.9132 0.0571761 .
el.effective -0.015179   0.028717 -0.5286 0.5977065
maritime     -0.113148   0.032564 -3.4746 0.0006297 ***
quebec       -0.012509   0.020382 -0.6137 0.5400960
west         -0.203371   0.099211 -2.0499 0.0417081 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m2)

Call:
lm(formula = m5.2.1, data = data1[data1$parl2 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.62281 -0.08231  0.00981  0.09742  0.28151

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.89876    0.03686  24.382  < 2e-16 ***
government    0.11008    0.02354   4.676 5.85e-06 ***
cabinet       0.05293    0.05725   0.924  0.35655
el.effective -0.01283    0.01738  -0.738  0.46133
maritime     -0.23758    0.03266  -7.274 1.14e-11 ***
quebec       -0.15508    0.02640  -5.874 2.12e-08 ***
west         -0.23677    0.06016  -3.936  0.00012 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1522 on 174 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.347,
  Adjusted R-squared:  0.3245
F-statistic: 15.41 on 6 and 174 DF,  p-value: 3.881e-14

> nobs(m2)
[1] 181
```

```
> mm2

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.898757   0.042156 21.3196 < 2.2e-16 ***
government    0.110083   0.024474  4.4979 1.251e-05 ***
cabinet       0.052926   0.035240  1.5019   0.13494
el.effective -0.012832   0.022181 -0.5785   0.56366
maritime     -0.237584   0.042608 -5.5760 9.250e-08 ***
quebec       -0.155076   0.023210 -6.6813 3.077e-10 ***
west         -0.236772   0.111395 -2.1255   0.03495 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m3)

Call:
lm(formula = m5.2.1, data = data1[data1$parl3 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.58762 -0.04402  0.02954  0.08076  0.20739

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.81910    0.03592  22.802  < 2e-16 ***
government    0.08211    0.01994   4.117 5.58e-05 ***
cabinet       0.05641    0.03512   1.606 0.109788
el.effective -0.00269    0.01582  -0.170 0.865155
maritime     -0.03801    0.02562  -1.483 0.139495
quebec       -0.05018    0.02211  -2.269 0.024323 *
west         -0.19423    0.04901  -3.963 0.000102 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1329 on 203 degrees of freedom
Multiple R-squared:  0.184,
  Adjusted R-squared:  0.1599
F-statistic: 7.631 on 6 and 203 DF,  p-value: 2.123e-07

> nobs(m3)
[1] 210
> mm3

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.8191002  0.0394848 20.7447 < 2.2e-16 ***
government    0.0821094  0.0238563  3.4418 0.0007015 ***
cabinet       0.0564117  0.0190708  2.9580 0.0034637 **
el.effective -0.0026901  0.0158621 -0.1696 0.8654985
maritime     -0.0380115  0.0270689 -1.4042 0.1617730
quebec       -0.0501771  0.0233352 -2.1503 0.0327160 *
west         -0.1942310  0.0529563 -3.6678 0.0003126 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m4)

Call:
lm(formula = m5.2.1, data = data1[data1$parl4 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.75773 -0.01782  0.00585  0.03921  0.22622

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.91971    0.03008  30.579  < 2e-16 ***
government    0.04426    0.01696   2.610   0.0097 **
```

```
cabinet       0.01622    0.03274   0.496   0.6207
el.effective -0.01159    0.01283  -0.903   0.3677
maritime      0.00313    0.02233   0.140   0.8886
quebec       -0.00526    0.01790  -0.294   0.7691
west         -0.17861    0.03430  -5.208 4.51e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1114 on 212 degrees of freedom
Multiple R-squared:  0.1433,
  Adjusted R-squared:  0.1191
F-statistic:  5.91 on 6 and 212 DF,  p-value: 1.006e-05

> nobs(m4)
[1] 219
> mm4

t test of coefficients:

               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9197111  0.0299849 30.6725  < 2e-16 ***
government    0.0442633  0.0218427  2.0265  0.04397 *
cabinet       0.0162251  0.0177136  0.9160  0.36072
el.effective -0.0115857  0.0142008 -0.8158  0.41550
maritime      0.0031302  0.0185178  0.1690  0.86593
quebec       -0.0052603  0.0141428 -0.3719  0.71031
west         -0.1786085  0.0953291 -1.8736  0.06236 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m5)

Call:
lm(formula = m5.2.1, data = data1[data1$parl5 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.67860 -0.01380  0.01952  0.04024  0.10256

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.916855   0.021390  42.864   <2e-16 ***
government   -0.014630   0.013741  -1.065   0.2882
cabinet       0.023476   0.027784   0.845   0.3991
el.effective  0.006918   0.008744   0.791   0.4297
maritime     -0.034406   0.016897  -2.036   0.0429 *
quebec       -0.033606   0.015335  -2.191   0.0295 *
west         -0.053183   0.030060  -1.769   0.0782 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.09333 on 218 degrees of freedom
  (2 observations deleted due to missingness)
Multiple R-squared:  0.04977,
  Adjusted R-squared:  0.02361
F-statistic: 1.903 on 6 and 218 DF,  p-value: 0.08154

> nobs(m5)
[1] 225
> mm5

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9168552  0.0216298 42.3886 < 2.2e-16 ***
government   -0.0146302  0.0165567 -0.8836  0.377860
cabinet       0.0234764  0.0137854  1.7030  0.089995 .
el.effective  0.0069176  0.0055264  1.2517  0.212012
maritime     -0.0344060  0.0232366 -1.4807  0.140135
quebec       -0.0336062  0.0104373 -3.2198  0.001479 **
west         -0.0531834  0.0372883 -1.4263  0.155219
```

```
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m6)

Call:
lm(formula = m5.2.1, data = data1[data1$parl6 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.67838 -0.02094  0.01107  0.04694  0.14347

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.902105   0.022842  39.493  < 2e-16 ***
government   -0.013971   0.014151  -0.987   0.3246
cabinet       0.052863   0.025778   2.051   0.0415 *
el.effective  0.001672   0.009178   0.182   0.8557
maritime     -0.011161   0.018394  -0.607   0.5447
quebec       -0.072533   0.016047  -4.520 1.03e-05 ***
west          0.018091   0.024057   0.752   0.4529
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.09571 on 211 degrees of freedom
Multiple R-squared:  0.1221,
  Adjusted R-squared:  0.09712
F-statistic:  4.89 on 6 and 211 DF,  p-value: 0.0001057

> nobs(m6)
[1] 218
> mm6

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9021052  0.0223042 40.4456 < 2.2e-16 ***
government   -0.0139713  0.0158663 -0.8806 0.3795526
cabinet       0.0528632  0.0140181  3.7711 0.0002111 ***
el.effective  0.0016716  0.0115584  0.1446 0.8851500
maritime     -0.0111606  0.0235545 -0.4738 0.6361192
quebec       -0.0725332  0.0144057 -5.0350 1.023e-06 ***
west          0.0180915  0.0127673  1.4170 0.1579513
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m7)

Call:
lm(formula = m5.2.1, data = data1[data1$parl7 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.85194 -0.01432  0.01600  0.04142  0.10594

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.957761   0.022743  42.112  < 2e-16 ***
government    0.023379   0.013801   1.694  0.09167 .
cabinet       0.015763   0.022616   0.697  0.48655
el.effective -0.004307   0.009651  -0.446  0.65587
maritime     -0.024334   0.018134  -1.342  0.18099
quebec       -0.051109   0.015335  -3.333  0.00101 **
west         -0.005417   0.024859  -0.218  0.82769
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.09659 on 224 degrees of freedom
  (8 observations deleted due to missingness)
Multiple R-squared:  0.07064,
  Adjusted R-squared:  0.04575
```

```
F-statistic: 2.838 on 6 and 224 DF,  p-value: 0.01106

> nobs(m7)
[1] 231
> mm7

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9577613  0.0247720 38.6630 < 2.2e-16 ***
government    0.0233786  0.0160299  1.4584  0.146121
cabinet       0.0157625  0.0105043  1.5006  0.134873
el.effective -0.0043066  0.0139065 -0.3097  0.757093
maritime     -0.0243342  0.0188241 -1.2927  0.197442
quebec       -0.0511094  0.0157451 -3.2461  0.001349 **
west         -0.0054171  0.0127528 -0.4248  0.671405
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m8)

Call:
lm(formula = m5.2.1, data = data1[data1$parl8 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.56739 -0.02064  0.01349  0.04200  0.14889

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.915160   0.024835  36.849  < 2e-16 ***
government    0.010682   0.012769   0.837   0.4038
cabinet       0.043722   0.021704   2.015   0.0453 *
el.effective  0.005714   0.009202   0.621   0.5353
maritime     -0.025538   0.016055  -1.591   0.1133
quebec       -0.011431   0.014471  -0.790   0.4305
west         -0.086785   0.021847  -3.972 9.93e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.082 on 200 degrees of freedom
Multiple R-squared:  0.09805,
  Adjusted R-squared:  0.07099
F-statistic: 3.624 on 6 and 200 DF,  p-value: 0.001958

> nobs(m8)
[1] 207
> mm8

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9151598  0.0244190 37.4774 < 2.2e-16 ***
government    0.0106822  0.0134505  0.7942 0.4280316
cabinet       0.0437221  0.0120183  3.6380 0.0003497 ***
el.effective  0.0057143  0.0081674  0.6996 0.4849606
maritime     -0.0255385  0.0236366 -1.0805 0.2812363
quebec       -0.0114306  0.0090160 -1.2678 0.2063357
west         -0.0867850  0.0279124 -3.1092 0.0021496 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m9)

Call:
lm(formula = m5.2.1, data = data1[data1$parl9 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.75352 -0.01049  0.00995  0.02668  0.05407
```

```
Coefficients:
               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9310512  0.0200656  46.400  < 2e-16 ***
government    0.0423769  0.0106326   3.986 9.22e-05 ***
cabinet      -0.0002621  0.0161547  -0.016  0.98707
el.effective  0.0078964  0.0083983   0.940  0.34815
maritime      0.0017801  0.0129956   0.137  0.89118
quebec       -0.0353965  0.0114565  -3.090  0.00227 **
west         -0.0105081  0.0173968  -0.604  0.54646
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.06531 on 215 degrees of freedom
Multiple R-squared:  0.09918,
  Adjusted R-squared:  0.07404
F-statistic: 3.945 on 6 and 215 DF,  p-value: 0.0009172

> nobs(m9)
[1] 222
> mm9

t test of coefficients:

                Estimate  Std. Error t value Pr(>|t|)
(Intercept)   0.93105123  0.01718857 54.1669  < 2e-16 ***
government    0.04237689  0.01823796  2.3236  0.02108 *
cabinet      -0.00026212  0.00818594 -0.0320  0.97448
el.effective  0.00789641  0.00518343  1.5234  0.12913
maritime      0.00178013  0.00877754  0.2028  0.83948
quebec       -0.03539648  0.02017745 -1.7543  0.08081 .
west         -0.01050806  0.01283277 -0.8188  0.41378
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m10)

Call:
lm(formula = m5.2.1, data = data1[data1$parl10 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.81043 -0.00734  0.00932  0.03890  0.06222

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.976270   0.025213  38.720  < 2e-16 ***
government    0.044851   0.011431   3.924 0.000116 ***
cabinet       0.005619   0.018941   0.297 0.766991
el.effective -0.008088   0.011669  -0.693 0.488928
maritime     -0.006180   0.014701  -0.420 0.674579
quebec       -0.044514   0.012665  -3.515 0.000532 ***
west         -0.014642   0.016020  -0.914 0.361696
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.07464 on 225 degrees of freedom
Multiple R-squared:  0.09691,
  Adjusted R-squared:  0.07283
F-statistic: 4.024 on 6 and 225 DF,  p-value: 0.0007522

> nobs(m10)
[1] 232
> mm10

t test of coefficients:

               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9762696  0.0124560 78.3774  < 2e-16 ***
government    0.0448513  0.0178449  2.5134  0.01266 *
cabinet       0.0056194  0.0095076  0.5910  0.55509
el.effective -0.0080884  0.0053065 -1.5243  0.12885
```

```
maritime     -0.0061804  0.0077564 -0.7968  0.42640
quebec       -0.0445136  0.0211136 -2.1083  0.03611 *
west         -0.0146419  0.0096105 -1.5235  0.12903
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> summary(m11)

Call:
lm(formula = m5.2.1, data = data1[data1$parl11 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.85172 -0.00810 -0.00042  0.02036  0.08701

Coefficients:
               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9618415  0.0253218  37.985  < 2e-16 ***
government    0.0485845  0.0100991   4.811 2.88e-06 ***
cabinet      -0.0018955  0.0179785  -0.105    0.916
el.effective -0.0011755  0.0118876  -0.099    0.921
maritime     -0.0045058  0.0139974  -0.322    0.748
quebec       -0.0465438  0.0117121  -3.974 9.74e-05 ***
west          0.0001122  0.0134914   0.008    0.993
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.06612 on 208 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.1409,
  Adjusted R-squared:  0.1162
F-statistic: 5.687 on 6 and 208 DF,  p-value: 1.708e-05

> nobs(m11)
[1] 215
> mm11

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9618414  0.0106417 90.3839 < 2.2e-16 ***
government    0.0485845  0.0167693  2.8972  0.004168 **
cabinet      -0.0018954  0.0061503 -0.3082  0.758245
el.effective -0.0011755  0.0047501 -0.2475  0.804787
maritime     -0.0045058  0.0066714 -0.6754  0.500180
quebec       -0.0465438  0.0212310 -2.1923  0.029470 *
west          0.0001122  0.0054644  0.0205  0.983638
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m12)

Call:
lm(formula = m5.2.1, data = data1[data1$parl12 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.85523  0.00024  0.01825  0.03377  0.06694

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.975438   0.028403  34.342  < 2e-16 ***
government    0.002813   0.013446   0.209  0.83448
cabinet       0.017756   0.019098   0.930  0.35355
el.effective  0.001758   0.013000   0.135  0.89255
maritime     -0.007686   0.017908  -0.429  0.66820
quebec       -0.045732   0.015389  -2.972  0.00329 **
west         -0.027263   0.017233  -1.582  0.11509
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
Residual standard error: 0.08609 on 219 degrees of freedom
Multiple R-squared:  0.05441,
  Adjusted R-squared:  0.02851
F-statistic:   2.1 on 6 and 219 DF,  p-value: 0.05432

> nobs(m12)
[1] 226
> mm12

t test of coefficients:

               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9754385  0.0214081 45.5640  < 2e-16 ***
government    0.0028129  0.0186767  0.1506  0.88042
cabinet       0.0177557  0.0194605  0.9124  0.36256
el.effective  0.0017580  0.0081430  0.2159  0.82927
maritime     -0.0076862  0.0132911 -0.5783  0.56366
quebec       -0.0457315  0.0257310 -1.7773  0.07691 .
west         -0.0272625  0.0121941 -2.2357  0.02638 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m13)

Call:
lm(formula = m5.2.1, data = data1[data1$parl13 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.68341 -0.01365  0.01770  0.04316  0.09815

Coefficients:
               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.917234   0.029436  31.160   <2e-16 ***
government   -0.009754   0.022364  -0.436   0.6631
cabinet       0.032167   0.019710   1.632   0.1041
el.effective  0.018363   0.011244   1.633   0.1038
maritime     -0.014366   0.021010  -0.684   0.4948
quebec        0.034173   0.024517   1.394   0.1647
west         -0.028763   0.016636  -1.729   0.0852 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.09352 on 224 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.0752,
  Adjusted R-squared:  0.05043
F-statistic: 3.036 on 6 and 224 DF,  p-value: 0.007122

> nobs(m13)
[1] 231
> mm13

t test of coefficients:

               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.917234   0.022446 40.8635   <2e-16 ***
government   -0.009754   0.024091 -0.4049   0.6859
cabinet       0.032167   0.021601  1.4892   0.1379
el.effective  0.018363   0.015586  1.1782   0.2400
maritime     -0.014366   0.033584 -0.4277   0.6692
quebec        0.034173   0.016110  2.1212   0.0350 *
west         -0.028763   0.018761 -1.5331   0.1267
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m14)

Call:
lm(formula = m5.2.1, data = data1[data1$parl14 == 1, ])
```

```
Residuals:
     Min       1Q   Median       3Q      Max
-0.32890 -0.01571  0.01159  0.03347  0.09784

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.920138   0.019670  46.779  < 2e-16 ***
government   -0.018634   0.013581  -1.372 0.171828
cabinet       0.017960   0.015058   1.193 0.234613
el.effective  0.006498   0.006560   0.991 0.323260
maritime     -0.008649   0.014477  -0.597 0.551025
quebec        0.055287   0.015205   3.636 0.000365 ***
west         -0.018695   0.017850  -1.047 0.296407
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.06292 on 172 degrees of freedom
Multiple R-squared:   0.14,
  Adjusted R-squared:   0.11
F-statistic: 4.665 on 6 and 172 DF,  p-value: 0.0002016

> nobs(m14)
[1] 179
> mm14

t test of coefficients:

               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9201378  0.0179960 51.1301  < 2e-16 ***
government   -0.0186337  0.0150120 -1.2412  0.21620
cabinet       0.0179602  0.0120214  1.4940  0.13700
el.effective  0.0064983  0.0056323  1.1537  0.25020
maritime     -0.0086489  0.0170775 -0.5064  0.61319
quebec        0.0552867  0.0169670  3.2585  0.00135 **
west         -0.0186954  0.0231915 -0.8061  0.42128
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m15)

Call:
lm(formula = m5.2.1, data = data1[data1$parl15 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.039511  0.000231  0.000631  0.000769  0.002117

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9989382  0.0013108 762.065   <2e-16 ***
government    0.0014892  0.0007122   2.091   0.0378 *
cabinet       0.0004038  0.0008083   0.500   0.6179
el.effective  0.0001476  0.0005916   0.250   0.8032
maritime      0.0003501  0.0008534   0.410   0.6821
quebec       -0.0013491  0.0008734  -1.545   0.1240
west         -0.0001592  0.0007978  -0.200   0.8420
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.003838 on 203 degrees of freedom
Multiple R-squared:  0.02883,
  Adjusted R-squared:  0.0001222
F-statistic: 1.004 on 6 and 203 DF,  p-value: 0.4236

> nobs(m15)
[1] 210
> mm15

t test of coefficients:

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

```
(Intercept)   0.99893823  0.00080228 1245.1166   <2e-16 ***
government    0.00148923  0.00128721    1.1569   0.2487
cabinet       0.00040376  0.00031212    1.2936   0.1973
el.effective  0.00014761  0.00014610    1.0104   0.3135
maritime      0.00035005  0.00047542    0.7363   0.4624
quebec       -0.00134907  0.00168776   -0.7993   0.4250
west         -0.00015922  0.00064721   -0.2460   0.8059
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> summary(m16)

Call:
lm(formula = m5.2.1, data = data1[data1$parl16 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.27728 -0.02441  0.01296  0.03737  0.17261

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9487698  0.0226530  41.883  < 2e-16 ***
government   -0.0615674  0.0124281  -4.954 1.47e-06 ***
cabinet      -0.0038913  0.0187437  -0.208    0.836
el.effective  0.0008195  0.0103217   0.079    0.937
maritime      0.0145937  0.0163893   0.890    0.374
quebec        0.0738236  0.0147339   5.010 1.13e-06 ***
west         -0.0614000  0.0142799  -4.300 2.59e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.07447 on 216 degrees of freedom
Multiple R-squared:  0.3212,
  Adjusted R-squared:  0.3023
F-statistic: 17.03 on 6 and 216 DF,  p-value: 4.326e-16
```

```
> nobs(m16)
[1] 223
> mm16

t test of coefficients:

               Estimate  Std. Error t value  Pr(>|t|)
(Intercept)   0.94876978  0.02010879 47.1818 < 2.2e-16 ***
government   -0.06156742  0.01511586 -4.0730 6.515e-05 ***
cabinet      -0.00389131  0.02211839 -0.1759 0.8605131
el.effective  0.00081948  0.01021353  0.0802 0.9361248
maritime      0.01459368  0.01424025  1.0248 0.3065948
quebec        0.07382357  0.01630155  4.5286 9.813e-06 ***
west         -0.06140001  0.01840418 -3.3362 0.0009998 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> summary(m17)

Call:
lm(formula = m5.2.1, data = data1[data1$parl17 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.79061 -0.01058  0.00599  0.01879  0.06129

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.948523   0.020533  46.196  < 2e-16 ***
government    0.034439   0.008250   4.174 4.25e-05 ***
cabinet       0.010144   0.013914   0.729   0.4667
el.effective  0.005545   0.009320   0.595   0.5525
maritime     -0.008962   0.012685  -0.707   0.4806
quebec       -0.003231   0.009830  -0.329   0.7427
west         -0.024725   0.010231  -2.417   0.0165 *
```

```
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.05794 on 228 degrees of freedom
Multiple R-squared:  0.1152,
  Adjusted R-squared:  0.09193
F-statistic: 4.948 on 6 and 228 DF,  p-value: 8.804e-05

> nobs(m17)
[1] 235
> mm17

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9485231  0.0150358 63.0843 < 2.2e-16 ***
government    0.0344393  0.0093672  3.6766 0.0002948 ***
cabinet       0.0101438  0.0037093  2.7347 0.0067338 **
el.effective  0.0055451  0.0046654  1.1886 0.2358492
maritime     -0.0089622  0.0052144 -1.7188 0.0870171 .
quebec       -0.0032314  0.0053404 -0.6051 0.5457157
west         -0.0247245  0.0146903 -1.6831 0.0937342 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m18)

Call:
lm(formula = m5.2.1, data = data1[data1$parl18 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.217966 -0.006849  0.009068  0.011925  0.041634

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.995641   0.010058  98.990  < 2e-16 ***
government    0.004552   0.005605   0.812    0.418
cabinet       0.014707   0.007559   1.945    0.053 .
el.effective -0.003472   0.002899  -1.198    0.232
maritime     -0.002416   0.006643  -0.364    0.716
quebec       -0.003787   0.005230  -0.724    0.470
west         -0.023699   0.005645  -4.198 3.96e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.02937 on 211 degrees of freedom
Multiple R-squared:  0.1266,
  Adjusted R-squared:  0.1017
F-statistic: 5.096 on 6 and 211 DF,  p-value: 6.584e-05

> nobs(m18)
[1] 218
> mm18

t test of coefficients:

               Estimate Std. Error  t value  Pr(>|t|)
(Intercept)   0.9956412  0.0097060 102.5796 < 2.2e-16 ***
government    0.0045519  0.0064787   0.7026  0.483080
cabinet       0.0147065  0.0046501   3.1626  0.001794 **
el.effective -0.0034719  0.0031335  -1.1080  0.269133
maritime     -0.0024158  0.0037410  -0.6458  0.519135
quebec       -0.0037865  0.0049186  -0.7698  0.442255
west         -0.0236991  0.0078298  -3.0268  0.002779 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m19)

Call:
```

```
lm(formula = m5.2.1, data = data1[data1$parl19 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.53267 -0.01385  0.01127  0.02481  0.16293

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.95045    0.03020  31.473  < 2e-16 ***
government    0.01165    0.01796   0.648   0.5174
cabinet       0.05064    0.02008   2.522   0.0124 *
el.effective  0.01357    0.01204   1.127   0.2610
maritime     -0.01451    0.02202  -0.659   0.5106
quebec       -0.14205    0.01699  -8.362 8.82e-15 ***
west         -0.01502    0.01852  -0.811   0.4183
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.09403 on 208 degrees of freedom
Multiple R-squared:  0.3263,
  Adjusted R-squared:  0.3069
F-statistic: 16.79 on 6 and 208 DF,  p-value: 8.87e-16

> nobs(m19)
[1] 215
> mm19

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9504489  0.0189404 50.1811 < 2.2e-16 ***
government    0.0116465  0.0046237  2.5188  0.012527 *
cabinet       0.0506409  0.0170445  2.9711  0.003316 **
el.effective  0.0135697  0.0088480  1.5337  0.126635
maritime     -0.0145148  0.0069917 -2.0760  0.039124 *
quebec       -0.1420524  0.0224712 -6.3215 1.553e-09 ***
west         -0.0150166  0.0078494 -1.9131  0.057110 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m20)

Call:
lm(formula = m5.2.1, data = data1[data1$parl20 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.125282 -0.008287  0.003921  0.013286  0.033849

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.985304   0.007559 130.352   <2e-16 ***
government    0.008137   0.004184   1.945   0.0533 .
cabinet      -0.001330   0.004466  -0.298   0.7662
el.effective -0.004103   0.002838  -1.446   0.1499
maritime     -0.004284   0.005057  -0.847   0.3980
quebec        0.002243   0.004586   0.489   0.6253
west         -0.005026   0.005110  -0.984   0.3266
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.02236 on 187 degrees of freedom
Multiple R-squared:  0.06564,
  Adjusted R-squared:  0.03566
F-statistic: 2.189 on 6 and 187 DF,  p-value: 0.04582

> nobs(m20)
[1] 194
> mm20

t test of coefficients:
```

```
               Estimate Std. Error  t value Pr(>|t|)
(Intercept)   0.9853042  0.0069150 142.4871  < 2e-16 ***
government    0.0081371  0.0042593   1.9104  0.05761 .
cabinet      -0.0013301  0.0046197  -0.2879  0.77373
el.effective -0.0041033  0.0025731  -1.5947  0.11247
maritime     -0.0042841  0.0041169  -1.0406  0.29940
quebec        0.0022432  0.0045253   0.4957  0.62069
west         -0.0050262  0.0063397  -0.7928  0.42890
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m20)

Call:
lm(formula = m5.2.1, data = data1[data1$parl20 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.125282 -0.008287  0.003921  0.013286  0.033849

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.985304   0.007559 130.352   <2e-16 ***
government    0.008137   0.004184   1.945   0.0533 .
cabinet      -0.001330   0.004466  -0.298   0.7662
el.effective -0.004103   0.002838  -1.446   0.1499
maritime     -0.004284   0.005057  -0.847   0.3980
quebec        0.002243   0.004586   0.489   0.6253
west         -0.005026   0.005110  -0.984   0.3266
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.02236 on 187 degrees of freedom
Multiple R-squared:  0.06564,
  Adjusted R-squared:  0.03566
F-statistic: 2.189 on 6 and 187 DF,  p-value: 0.04582

> nobs(m20)
[1] 194
> mm20

t test of coefficients:

               Estimate Std. Error  t value Pr(>|t|)
(Intercept)   0.9853042  0.0069150 142.4871  < 2e-16 ***
government    0.0081371  0.0042593   1.9104  0.05761 .
cabinet      -0.0013301  0.0046197  -0.2879  0.77373
el.effective -0.0041033  0.0025731  -1.5947  0.11247
maritime     -0.0042841  0.0041169  -1.0406  0.29940
quebec        0.0022432  0.0045253   0.4957  0.62069
west         -0.0050262  0.0063397  -0.7928  0.42890
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m21)

Call:
lm(formula = m5.2.1, data = data1[data1$parl21 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.128107 -0.003604  0.002767  0.008422  0.018429

Coefficients:
               Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9941004  0.0059893 165.979  < 2e-16 ***
government    0.0031316  0.0026452   1.184  0.23764
cabinet       0.0063569  0.0029851   2.130  0.03422 *
el.effective -0.0018158  0.0021402  -0.848  0.39706
maritime     -0.0006519  0.0031898  -0.204  0.83825
```

```
quebec       -0.0020069  0.0027897  -0.719  0.47260
west         -0.0075338  0.0028270  -2.665  0.00822 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.01592 on 241 degrees of freedom
Multiple R-squared:  0.06372,
  Adjusted R-squared:  0.04041
F-statistic: 2.734 on 6 and 241 DF,  p-value: 0.01376

> nobs(m21)
[1] 248
> mm21

t test of coefficients:

               Estimate  Std. Error  t value  Pr(>|t|)
(Intercept)   0.99410036  0.00443293 224.2534 < 2.2e-16 ***
government    0.00313157  0.00257529   1.2160  0.225172
cabinet       0.00635695  0.00193178   3.2907  0.001149 **
el.effective -0.00181577  0.00161619  -1.1235  0.262347
maritime     -0.00065185  0.00257490  -0.2532  0.800364
quebec       -0.00200689  0.00215091  -0.9330  0.351732
west         -0.00753385  0.00347866  -2.1657  0.031313 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m22)

Call:
lm(formula = m5.2.1, data = data1[data1$parl22 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.212177 -0.002061  0.003210  0.005849  0.024690

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9933630  0.0069037 143.888  < 2e-16 ***
government    0.0131936  0.0033386   3.952 0.000104 ***
cabinet       0.0044978  0.0037755   1.191 0.234801
el.effective -0.0041309  0.0025944  -1.592 0.112748
maritime     -0.0001686  0.0040915  -0.041 0.967169
quebec       -0.0029858  0.0034629  -0.862 0.389499
west         -0.0091392  0.0041975  -2.177 0.030511 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.01962 on 222 degrees of freedom
Multiple R-squared:  0.136,
  Adjusted R-squared:  0.1127
F-statistic: 5.826 on 6 and 222 DF,  p-value: 1.172e-05

> nobs(m22)
[1] 229
> mm22

t test of coefficients:

              Estimate Std. Error  t value Pr(>|t|)
(Intercept)   0.9933630  0.0046168 215.1642  < 2e-16 ***
government    0.0131936  0.0054483   2.4216  0.01626 *
cabinet       0.0044978  0.0014325   3.1399  0.00192 **
el.effective -0.0041309  0.0018577  -2.2237  0.02718 *
maritime     -0.0001686  0.0024755  -0.0681  0.94576
quebec       -0.0029858  0.0032171  -0.9281  0.35436
west         -0.0091392  0.0071858  -1.2718  0.20476
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m23)
```

```
Call:
lm(formula = m5.2.1, data = data1[data1$parl23 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.140716  0.002355  0.007642  0.013758  0.048179

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.967977   0.015768  61.391  < 2e-16 ***
government    0.032574   0.007688   4.237 4.35e-05 ***
cabinet       0.004771   0.007769   0.614    0.540
el.effective -0.003614   0.005774  -0.626    0.532
maritime     -0.001871   0.008182  -0.229    0.820
quebec        0.014435   0.009104   1.585    0.115
west         -0.002633   0.009299  -0.283    0.778
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.03361 on 125 degrees of freedom
Multiple R-squared:  0.1636,
  Adjusted R-squared:  0.1235
F-statistic: 4.075 on 6 and 125 DF,  p-value: 0.0009105

> nobs(m23)
[1] 132
> mm23

t test of coefficients:

               Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9679769  0.0164542 58.8285 < 2.2e-16 ***
government    0.0325743  0.0106832  3.0491  0.002802 **
cabinet       0.0047705  0.0042102  1.1331  0.259350
el.effective -0.0036142  0.0062351 -0.5797  0.563193
maritime     -0.0018706  0.0084691 -0.2209  0.825548
quebec        0.0144346  0.0094182  1.5326  0.127896
west         -0.0026331  0.0079195 -0.3325  0.740083
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m24)

Call:
lm(formula = m5.2.1, data = data1[data1$parl24 == 1, ])

Residuals:
       Min         1Q     Median         3Q        Max
-0.0231623  0.0003729  0.0004813  0.0005856  0.0058591

Coefficients:
               Estimate Std. Error t value Pr(>|t|)
(Intercept)   9.954e-01  1.578e-03 630.867  < 2e-16 ***
government    4.894e-03  6.643e-04   7.366 2.36e-12 ***
cabinet      -4.706e-05  6.588e-04  -0.071    0.943
el.effective -3.976e-04  6.302e-04  -0.631    0.529
maritime     -8.976e-05  7.954e-04  -0.113    0.910
quebec        2.117e-05  6.296e-04   0.034    0.973
west          2.546e-04  7.009e-04   0.363    0.717
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.003957 on 258 degrees of freedom
Multiple R-squared:  0.2045,
  Adjusted R-squared:  0.186
F-statistic: 11.06 on 6 and 258 DF,  p-value: 5.739e-11

> nobs(m24)
[1] 265
> mm24
```

```
t test of coefficients:

               Estimate  Std. Error  t value  Pr(>|t|)
(Intercept)   9.9543e-01  1.5267e-03 652.0290 < 2.2e-16 ***
government    4.8936e-03  1.1152e-03   4.3880 1.669e-05 ***
cabinet      -4.7063e-05  3.6735e-04  -0.1281    0.8982
el.effective -3.9761e-04  5.6259e-04  -0.7067    0.4804
maritime     -8.9758e-05  7.6133e-04  -0.1179    0.9062
quebec        2.1175e-05  7.7878e-04   0.0272    0.9783
west          2.5464e-04  5.1464e-04   0.4948    0.6212
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m25)

Call:
lm(formula = m5.2.1, data = data1[data1$parl25 == 1, ])

Residuals:
       Min         1Q     Median         3Q        Max
-1.509e-15 -7.430e-16  2.800e-17  9.700e-17  6.499e-14

Coefficients:
              Estimate Std. Error    t value Pr(>|t|)
(Intercept)   1.000e+00  2.039e-15  4.904e+14   <2e-16 ***
government    4.425e-16  8.037e-16  5.510e-01    0.583
cabinet      -6.642e-16  9.878e-16 -6.720e-01    0.502
el.effective -7.260e-17  7.654e-16 -9.500e-02    0.925
maritime     -9.088e-19  1.023e-15 -1.000e-03    0.999
quebec        7.058e-17  9.079e-16  7.800e-02    0.938
west          1.129e-15  9.620e-16  1.174e+00    0.242
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.694e-15 on 196 degrees of freedom
Multiple R-squared:  0.4997,
  Adjusted R-squared:  0.4844
F-statistic: 32.63 on 6 and 196 DF,  p-value: < 2.2e-16

> nobs(m25)
[1] 203
> mm25

t test of coefficients:

               Estimate  Std. Error     t value Pr(>|t|)
(Intercept)   1.0000e+00  2.9650e-16  3.3727e+15   <2e-16 ***
government    4.4252e-16  4.5015e-16  9.8310e-01   0.3268
cabinet      -6.6415e-16  6.7452e-16 -9.8460e-01   0.3260
el.effective -7.2597e-17  1.3402e-16 -5.4170e-01   0.5886
maritime     -9.0882e-19  6.4200e-17 -1.4200e-02   0.9887
quebec        7.0577e-17  8.6380e-17  8.1710e-01   0.4149
west          1.1292e-15  1.1365e-15  9.9360e-01   0.3217
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m26)

Call:
lm(formula = m5.2.1, data = data1[data1$parl26 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.307507 -0.008264  0.002555  0.017470  0.029907

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.9893488  0.0126540  78.185  < 2e-16 ***
government    0.0286696  0.0053057   5.404 1.69e-07 ***
cabinet       0.0010127  0.0057063   0.177    0.859
```

```
el.effective -0.0043155  0.0048037  -0.898    0.370
maritime     -0.0005818  0.0064041  -0.091    0.928
quebec       -0.0238722  0.0055390  -4.310 2.46e-05 ***
west          0.0080387  0.0061869   1.299    0.195
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.031 on 220 degrees of freedom
Multiple R-squared:  0.1917,
  Adjusted R-squared:  0.1697
F-statistic: 8.697 on 6 and 220 DF,  p-value: 1.675e-08

> nobs(m26)
[1] 227
> mm26

t test of coefficients:

               Estimate  Std. Error  t value  Pr(>|t|)
(Intercept)   0.98934882  0.00726362 136.2060 < 2.2e-16 ***
government    0.02866959  0.00853498   3.3591 0.0009217 ***
cabinet       0.00101269  0.00260465   0.3888 0.6977987
el.effective -0.00431545  0.00359861  -1.1992 0.2317406
maritime     -0.00058175  0.00361312  -0.1610 0.8722323
quebec       -0.02387222  0.00810221  -2.9464 0.0035612 **
west          0.00803875  0.00570173   1.4099 0.1599879
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m27)

Call:
lm(formula = m5.2.1, data = data1[data1$parl27 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.41095 -0.01049  0.01014  0.02272  0.05514

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.952119   0.016937  56.214   <2e-16 ***
government    0.014826   0.007700   1.925   0.0554 .
cabinet       0.008791   0.008249   1.066   0.2877
el.effective  0.004599   0.006179   0.744   0.4575
maritime     -0.008095   0.009291  -0.871   0.3845
quebec       -0.017370   0.007784  -2.231   0.0266 *
west         -0.006038   0.008905  -0.678   0.4984
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.04497 on 230 degrees of freedom
Multiple R-squared:  0.05218,
  Adjusted R-squared:  0.02746
F-statistic: 2.111 on 6 and 230 DF,  p-value: 0.05297

> nobs(m27)
[1] 237
> mm27

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.9521187  0.0287827 33.0796 < 2.2e-16 ***
government    0.0148256  0.0070021  2.1173  0.035308 *
cabinet       0.0087914  0.0045434  1.9350  0.054217 .
el.effective  0.0045990  0.0102208  0.4500  0.653160
maritime     -0.0080946  0.0115193 -0.7027  0.482956
quebec       -0.0173697  0.0066071 -2.6289  0.009143 **
west         -0.0060381  0.0072814 -0.8293  0.407822
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
>
> ##################################
> #5.2.2 Analysis margin of victory#
> ##################################
>
> rm(list=ls())
>
> data2 <- read.csv(file="~/Dropbox/Canada-Manuscript/Analysis/data2.csv",header =TRUE)
>
> #keep liberals and conservatives only
>
> data2 <- subset(data2,data2$conservative==1 | data2$liberal==1)
>
> #drop turnout < .10
> data2 <- subset(data2,data2$turnout>.10)
>
> #drop total vote <10
> #Note that 31st Parliament is dropped
> data2 <- subset(data2,data2$total.vote>10)
>
> #drop election margin = 0 for non-liberal + non-conservative parties, some by-elections (no average) +
acclamations > 1949
> data2 <- subset(data2,data2$el.margin>0)
>
> ##################################
> #5.2.2 Analysis margin of victory#
> ##################################
>
> #note acclamations are deleted in these models
>
> m5.2.2 <- loyalty ~ government + cabinet + margin.analysis + maritime + quebec + west
>
> m1 <- lm(m5.2.2,data=data2[data2$parl1==1,],)
> m2 <- lm(m5.2.2,data=data2[data2$parl2==1,],)
> m3 <- lm(m5.2.2,data=data2[data2$parl3==1,],)
> m4 <- lm(m5.2.2,data=data2[data2$parl4==1,],)
> m5 <- lm(m5.2.2,data=data2[data2$parl5==1,],)
> m6 <- lm(m5.2.2,data=data2[data2$parl6==1,],)
> m7 <- lm(m5.2.2,data=data2[data2$parl7==1,],)
> m8 <- lm(m5.2.2,data=data2[data2$parl8==1,],)
> m9 <- lm(m5.2.2,data=data2[data2$parl9==1,],)
> m10 <- lm(m5.2.2,data=data2[data2$parl10==1,],)
> m11 <- lm(m5.2.2,data=data2[data2$parl11==1,],)
> m12 <- lm(m5.2.2,data=data2[data2$parl12==1,],)
> m13 <- lm(m5.2.2,data=data2[data2$parl13==1,],)
> m14 <- lm(m5.2.2,data=data2[data2$parl14==1,],)
> m15 <- lm(m5.2.2,data=data2[data2$parl15==1,],)
> m16 <- lm(m5.2.2,data=data2[data2$parl16==1,],)
> m17 <- lm(m5.2.2,data=data2[data2$parl17==1,],)
> m18 <- lm(m5.2.2,data=data2[data2$parl18==1,],)
> m19 <- lm(m5.2.2,data=data2[data2$parl19==1,],)
> m20 <- lm(m5.2.2,data=data2[data2$parl20==1,],)
> m21 <- lm(m5.2.2,data=data2[data2$parl21==1,],)
> m22 <- lm(m5.2.2,data=data2[data2$parl22==1,],)
> m23 <- lm(m5.2.2,data=data2[data2$parl23==1,],)
> m24 <- lm(m5.2.2,data=data2[data2$parl24==1,],)
> m25 <- lm(m5.2.2,data=data2[data2$parl25==1,],)
> m26 <- lm(m5.2.2,data=data2[data2$parl26==1,],)
> m27 <- lm(m5.2.2,data=data2[data2$parl27==1,],)
> m28 <- lm(m5.2.2,data=data2[data2$parl28==1,],)
> m29 <- lm(m5.2.2,data=data2[data2$parl29==1,],)
>
> library(mfx)
>
> mm1 <- coeftest(m1, vcov = vcovHAC(m1))
> mm2 <- coeftest(m2, vcov = vcovHAC(m2))
> mm3 <- coeftest(m3, vcov = vcovHAC(m3))
> mm4 <- coeftest(m4, vcov = vcovHAC(m4))
> mm5 <- coeftest(m5, vcov = vcovHAC(m5))
> mm6 <- coeftest(m6, vcov = vcovHAC(m6))
```

```
> mm7 <- coeftest(m7, vcov = vcovHAC(m7))
> mm8 <- coeftest(m8, vcov = vcovHAC(m8))
> mm9 <- coeftest(m9, vcov = vcovHAC(m9))
> mm10 <- coeftest(m10, vcov = vcovHAC(m10))
> mm11 <- coeftest(m11, vcov = vcovHAC(m11))
> mm12 <- coeftest(m12, vcov = vcovHAC(m12))
> mm13 <- coeftest(m13, vcov = vcovHAC(m13))
> mm14 <- coeftest(m14, vcov = vcovHAC(m14))
> mm15 <- coeftest(m15, vcov = vcovHAC(m15))
> mm16 <- coeftest(m16, vcov = vcovHAC(m16))
> mm17 <- coeftest(m17, vcov = vcovHAC(m17))
> mm18 <- coeftest(m18, vcov = vcovHAC(m18))
> mm19 <- coeftest(m19, vcov = vcovHAC(m19))
> mm20 <- coeftest(m20, vcov = vcovHAC(m20))
> mm21 <- coeftest(m21, vcov = vcovHAC(m21))
> mm22 <- coeftest(m22, vcov = vcovHAC(m22))
> mm23 <- coeftest(m23, vcov = vcovHAC(m23))
> mm24 <- coeftest(m24, vcov = vcovHAC(m24))
> mm25 <- coeftest(m25, vcov = vcovHAC(m25))
> mm26 <- coeftest(m26, vcov = vcovHAC(m26))
> mm27 <- coeftest(m27, vcov = vcovHAC(m27))
> mm28 <- coeftest(m28, vcov = vcovHAC(m28))
> mm29 <- coeftest(m29, vcov = vcovHAC(m29))
>
> #Graphic 5.2.1
>
> coef <- mm1[4,1]
> se <- mm1[4,2]
> conf1 <- coef + c(-1,1)*se*qt(0.975, m1$df.residual)
> conf1 <- c(conf1,coef,"1st (1867-1872)")
> coef <- mm2[4,1]
> se <- mm2[4,2]
> conf2 <- coef + c(-1,1)*se*qt(0.975, m2$df.residual)
> conf2 <- c(conf2,coef,"2nd (1872-1874)")
> coef <- mm3[4,1]
> se <- mm3[4,2]
> conf3 <- coef + c(-1,1)*se*qt(0.975, m3$df.residual)
> conf3 <- c(conf3,coef,"3rd (1874-1878)")
> coef <- mm4[4,1]
> se <- mm4[4,2]
> conf4 <- coef + c(-1,1)*se*qt(0.975, m4$df.residual)
> conf4 <- c(conf4,coef,"4th (1879-1882)")
> coef <- mm5[4,1]
> se <- mm5[4,2]
> conf5 <- coef + c(-1,1)*se*qt(0.975, m5$df.residual)
> conf5 <- c(conf5,coef,"5th (1883-1887)")
> coef <- mm6[4,1]
> se <- mm6[4,2]
> conf6 <- coef + c(-1,1)*se*qt(0.975, m6$df.residual)
> conf6 <- c(conf6,coef,"6th (1887-1891)")
> coef <- mm7[4,1]
> se <- mm7[4,2]
> conf7 <- coef + c(-1,1)*se*qt(0.975, m7$df.residual)
> conf7 <- c(conf7,coef,"7th (1891-1896)")
> coef <- mm8[4,1]
> se <- mm8[4,2]
> conf8 <- coef + c(-1,1)*se*qt(0.975, m8$df.residual)
> conf8 <- c(conf8,coef,"8th (1896-1900)")
> coef <- mm9[4,1]
> se <- mm9[4,2]
> conf9 <- coef + c(-1,1)*se*qt(0.975, m9$df.residual)
> conf9 <- c(conf9,coef,"9th (1901-1904)")
> coef <- mm10[4,1]
> se <- mm10[4,2]
> conf10 <- coef + c(-1,1)*se*qt(0.975, m10$df.residual)
> conf10 <- c(conf10,coef,"10th (1905-1908)")
> coef <- mm11[4,1]
> se <- mm11[4,2]
> conf11 <- coef + c(-1,1)*se*qt(0.975, m11$df.residual)
> conf11 <- c(conf11,coef,"11th (1909-1911)")
> coef <- mm12[4,1]
```

```
> se <- mm12[4,2]
> conf12 <- coef + c(-1,1)*se*qt(0.975, m12$df.residual)
> conf12 <- c(conf12,coef,"12th (1911-1917)")
> coef <- mm13[4,1]
> se <- mm13[4,2]
> conf13 <- coef + c(-1,1)*se*qt(0.975, m13$df.residual)
> conf13 <- c(conf13,coef,"13th (1917-1921)")
> coef <- mm14[4,1]
> se <- mm14[4,2]
> conf14 <- coef + c(-1,1)*se*qt(0.975, m14$df.residual)
> conf14 <- c(conf14,coef,"14th (1921-1925)")
> coef <- mm15[4,1]
> se <- mm15[4,2]
> conf15 <- coef + c(-1,1)*se*qt(0.975, m15$df.residual)
> conf15 <- c(conf15,coef,"15th (1926)")
> coef <- mm16[4,1]
> se <- mm16[4,2]
> conf16 <- coef + c(-1,1)*se*qt(0.975, m16$df.residual)
> conf16 <- c(conf16,coef,"16th (1926-1930)")
> coef <- mm17[4,1]
> se <- mm17[4,2]
> conf17 <- coef + c(-1,1)*se*qt(0.975, m17$df.residual)
> conf17 <- c(conf17,coef,"17th (1930-1935)")
> coef <- mm18[4,1]
> se <- mm18[4,2]
> conf18 <- coef + c(-1,1)*se*qt(0.975, m18$df.residual)
> conf18 <- c(conf18,coef,"18th (1935-1940)")
> coef <- mm19[4,1]
> se <- mm19[4,2]
> conf19 <- coef + c(-1,1)*se*qt(0.975, m19$df.residual)
> conf19 <- c(conf19,coef,"19th (1940-1945)")
> coef <- mm20[4,1]
> se <- mm20[4,2]
> conf20 <- coef + c(-1,1)*se*qt(0.975, m20$df.residual)
> conf20 <- c(conf20,coef,"20th (1945-1949)")
>
> coef <- mm21[4,1]
> se <- mm21[4,2]
> conf21 <- coef + c(-1,1)*se*qt(0.975, m21$df.residual)
> conf21 <- c(conf21,coef,"21st (1949-1953)")
> coef <- mm22[4,1]
> se <- mm22[4,2]
> conf22 <- coef + c(-1,1)*se*qt(0.975, m22$df.residual)
> conf22 <- c(conf22,coef,"22nd (1953-1957)")
> coef <- mm23[4,1]
> se <- mm23[4,2]
> conf23 <- coef + c(-1,1)*se*qt(0.975, m23$df.residual)
> conf23 <- c(conf23,coef,"23rd (1957-1958)")
> coef <- mm24[4,1]
> se <- mm24[4,2]
> conf24 <- coef + c(-1,1)*se*qt(0.975, m24$df.residual)
> conf24 <- c(conf24,coef,"24th (1958-1962)")
> coef <- mm25[4,1]
> se <- mm25[4,2]
> conf25 <- coef + c(-1,1)*se*qt(0.975, m25$df.residual)
> conf25 <- c(conf25,coef,"25th (1962-1963)")
> coef <- mm26[4,1]
> se <- mm26[4,2]
> conf26 <- coef + c(-1,1)*se*qt(0.975, m26$df.residual)
> conf26 <- c(conf26,coef,"26th (1963-1965)")
> coef <- mm27[4,1]
> se <- mm27[4,2]
> conf27 <- coef + c(-1,1)*se*qt(0.975, m27$df.residual)
> conf27 <- c(conf27,coef,"27th (1965-1968)")
> coef <- mm28[4,1]
> se <- mm28[4,2]
> conf28 <- coef + c(-1,1)*se*qt(0.975, m28$df.residual)
> conf28 <- c(conf28,coef,"28th (1968-1972)")
> coef <- mm29[4,1]
> se <- mm29[4,2]
> conf29 <- coef + c(-1,1)*se*qt(0.975, m29$df.residual)
```

```
> conf29 <- c(conf29,coef,"29th (1972-1974)")
>
> all <-
rbind(conf29,conf28,conf27,conf26,conf25,conf24,conf23,conf22,conf21,conf20,conf19,conf18,conf17,conf16,conf15,
conf14,conf13,conf12,conf11,conf10,conf9,conf8,conf7,conf6,conf5,conf4,conf3,conf2,conf1)
>
> colnames(all) <- c("low","high","coef","V1")
> all <- data.frame(all)
> all$low <- as.numeric(as.character(all$low))
> all$high <- as.numeric(as.character(all$high))
> all$coef <- as.numeric(as.character(all$coef))
>
> #library(ggplot2)
> #tiff(file = "~/Dropbox/Canada-Manuscript/Figures-Final/Figure-5.2.2.jpg", width = 8, height = 8, units =
'in', res = 200)
> #ggplot(all, aes(V1,xx, ymin = low,ymax = high))+
> #  scale_x_discrete('Parliaments (1867-1974)',limits=all$V1) +
> #  scale_y_continuous('95% Confidence Intervals for Margin of Victory',limits=c(-0.2,0.2)) +
> #  theme_bw() +
> #  geom_errorbar(aes(x = V1, y = coef),size=.3,width=.2) +
> #  geom_point(aes(x = V1, y = coef)) +
> #  geom_hline(yintercept=0) +
> #  coord_flip() +
> #  theme(plot.title = element_text(hjust = .5,face="bold")) +
> #  ggtitle("Margin of Victory")
> # dev.off()
>
> #Print results 5.2.2
>
> summary(m1)

Call:
lm(formula = m5.2.2, data = data2[data2$parl1 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.41606 -0.04332  0.00322  0.08554  0.24990

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.76065    0.02181  34.873  < 2e-16 ***
government       0.08574    0.02288   3.748 0.000258 ***
cabinet          0.14356    0.04205   3.414 0.000833 ***
margin.analysis -0.04301    0.04984  -0.863 0.389689
maritime        -0.12287    0.02905  -4.230 4.15e-05 ***
quebec           0.00560    0.02468   0.227 0.820824
west             0.03746    0.06898   0.543 0.587982
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1282 on 143 degrees of freedom
Multiple R-squared:  0.3016,
  Adjusted R-squared:  0.2723
F-statistic: 10.29 on 6 and 143 DF,  p-value: 1.835e-09

> nobs(m1)
[1] 150
> mm1

t test of coefficients:

                 Estimate Std. Error t value  Pr(>|t|)
(Intercept)      0.7606449  0.0274777 27.6823 < 2.2e-16 ***
government       0.0857441  0.0270150  3.1739  0.001842 **
cabinet          0.1435655  0.0253841  5.6557 8.159e-08 ***
margin.analysis -0.0430057  0.0560885 -0.7667  0.444496
maritime        -0.1228653  0.0424212 -2.8963  0.004370 **
quebec           0.0055996  0.0181814  0.3080  0.758543
west             0.0374574  0.0344514  1.0873  0.278755
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> summary(m2)

Call:
lm(formula = m5.2.2, data = data2[data2$parl2 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.64397 -0.06310  0.01550  0.08521  0.44243

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)     0.883242   0.023201  38.069  < 2e-16 ***
government      0.100882   0.027814   3.627 0.000412 ***
cabinet         0.064252   0.062739   1.024 0.307692
margin.analysis 0.002843   0.065252   0.044 0.965318
maritime       -0.248677   0.038536  -6.453 2.02e-09 ***
quebec         -0.144135   0.031801  -4.532 1.31e-05 ***
west           -0.427659   0.080550  -5.309 4.67e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1556 on 129 degrees of freedom
Multiple R-squared:  0.4009,
  Adjusted R-squared:  0.373
F-statistic: 14.39 on 6 and 129 DF,  p-value: 1.63e-12

> nobs(m2)
[1] 136
> mm2

t test of coefficients:

                 Estimate Std. Error t value  Pr(>|t|)
(Intercept)     0.8832419  0.0194112 45.5017 < 2.2e-16 ***
government      0.1008816  0.0255015  3.9559 0.0001251 ***
cabinet         0.0642523  0.0378216  1.6988 0.0917629 .
margin.analysis 0.0028428  0.0614465  0.0463 0.9631715
maritime       -0.2486770  0.0570933 -4.3556 2.680e-05 ***
quebec         -0.1441349  0.0296140 -4.8671 3.246e-06 ***
west           -0.4276586  0.1373268 -3.1142 0.0022731 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m3)

Call:
lm(formula = m5.2.2, data = data2[data2$parl3 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.57276 -0.04065  0.03298  0.07647  0.20459

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.80189    0.02173  36.902  < 2e-16 ***
government       0.10042    0.02263   4.436 1.78e-05 ***
cabinet          0.05146    0.04913   1.047 0.296616
margin.analysis -0.02269    0.06176  -0.367 0.713858
maritime        -0.03845    0.02857  -1.346 0.180437
quebec          -0.02432    0.02663  -0.913 0.362613
west            -0.20425    0.05330  -3.832 0.000188 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1324 on 147 degrees of freedom
Multiple R-squared:  0.2196,
  Adjusted R-squared:  0.1878
F-statistic: 6.895 on 6 and 147 DF,  p-value: 1.812e-06

> nobs(m3)
```

```
[1] 154
> mm3

t test of coefficients:

                 Estimate Std. Error t value  Pr(>|t|)
(Intercept)      0.801893   0.023695 33.8427 < 2.2e-16 ***
government       0.100416   0.026605  3.7744 0.0002321 ***
cabinet          0.051465   0.026376  1.9512 0.0529352 .
margin.analysis -0.022689   0.085996 -0.2638 0.7922717
maritime        -0.038445   0.034949 -1.1000 0.2731161
quebec          -0.024316   0.030212 -0.8048 0.4222068
west            -0.204245   0.060850 -3.3565 0.0010048 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m4)

Call:
lm(formula = m5.2.2, data = data2[data2$parl4 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.75286 -0.01705  0.00653  0.03515  0.22596

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.902059   0.016260  55.476  < 2e-16 ***
government       0.029019   0.016319   1.778   0.0769 .
cabinet          0.024881   0.032045   0.776   0.4384
margin.analysis  0.048068   0.050696   0.948   0.3442
maritime        -0.006440   0.019820  -0.325   0.7456
quebec          -0.008062   0.017606  -0.458   0.6475
west            -0.209182   0.041518  -5.038 1.06e-06 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1041 on 197 degrees of freedom
Multiple R-squared:  0.1328,
  Adjusted R-squared:  0.1064
F-statistic: 5.027 on 6 and 197 DF,  p-value: 8.091e-05

> nobs(m4)
[1] 204
> mm4

t test of coefficients:

                  Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9020593  0.0164008 55.0009  < 2e-16 ***
government       0.0290188  0.0195986  1.4807  0.14029
cabinet          0.0248808  0.0206663  1.2039  0.23006
margin.analysis  0.0480682  0.0253483  1.8963  0.05938 .
maritime        -0.0064399  0.0153804 -0.4187  0.67588
quebec          -0.0080624  0.0146711 -0.5495  0.58325
west            -0.2091823  0.1306577 -1.6010  0.11098
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m5)

Call:
lm(formula = m5.2.2, data = data2[data2$parl5 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.67798 -0.00924  0.02165  0.04227  0.11001

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.92846    0.01425  65.161   <2e-16 ***
```

```
government      -0.01589    0.01526  -1.042   0.2989
cabinet          0.02704    0.03482   0.777   0.4384
margin.analysis  0.02393    0.07061   0.339   0.7351
maritime        -0.03502    0.01825  -1.919   0.0565 .
quebec          -0.03454    0.01808  -1.910   0.0576 .
west            -0.05786    0.03682  -1.571   0.1178
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.09898 on 187 degrees of freedom
Multiple R-squared:  0.04616,
  Adjusted R-squared:  0.01556
F-statistic: 1.508 on 6 and 187 DF,  p-value: 0.1775

> nobs(m5)
[1] 194
> mm5

t test of coefficients:

                 Estimate Std. Error t value  Pr(>|t|)
(Intercept)      0.928458   0.016000 58.0272 < 2.2e-16 ***
government      -0.015892   0.017711 -0.8973  0.370705
cabinet          0.027043   0.014430  1.8741  0.062472 .
margin.analysis  0.023929   0.039652  0.6035  0.546920
maritime        -0.035020   0.023802 -1.4713  0.142887
quebec          -0.034538   0.012490 -2.7653  0.006258 **
west            -0.057862   0.048730 -1.1874  0.236576
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m6)

Call:
lm(formula = m5.2.2, data = data2[data2$parl6 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.66754 -0.02750  0.00900  0.04205  0.11922

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.889022   0.012706  69.966  < 2e-16 ***
government       0.003146   0.012850   0.245 0.806824
cabinet          0.032875   0.023560   1.395 0.164506
margin.analysis  0.084332   0.053762   1.569 0.118374
maritime        -0.008360   0.015485  -0.540 0.589897
quebec          -0.052778   0.015031  -3.511 0.000555 ***
west            -0.003011   0.023889  -0.126 0.899843
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.08345 on 193 degrees of freedom
Multiple R-squared:  0.07916,
  Adjusted R-squared:  0.05053
F-statistic: 2.765 on 6 and 193 DF,  p-value: 0.01334

> nobs(m6)
[1] 200
> mm6

t test of coefficients:

                  Estimate Std. Error t value  Pr(>|t|)
(Intercept)      0.8890217  0.0119953 74.1141 < 2.2e-16 ***
government       0.0031465  0.0147590  0.2132  0.831403
cabinet          0.0328750  0.0124790  2.6344  0.009112 **
margin.analysis  0.0843316  0.0356069  2.3684  0.018853 *
maritime        -0.0083601  0.0226740 -0.3687  0.712750
quebec          -0.0527778  0.0091301 -5.7807  2.95e-08 ***
west            -0.0030106  0.0141695 -0.2125  0.831966
```

```
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m7)

Call:
lm(formula = m5.2.2, data = data2[data2$parl7 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.86279 -0.00787  0.01775  0.04218  0.10484

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)     0.948310   0.015156  62.572  < 2e-16 ***
government      0.018201   0.016051   1.134  0.25826
cabinet         0.014891   0.025421   0.586  0.55872
margin.analysis  0.066707   0.076504   0.872  0.38435
maritime       -0.022522   0.019642  -1.147  0.25299
quebec         -0.055275   0.017695  -3.124  0.00207 **
west           -0.003684   0.033057  -0.111  0.91139
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1025 on 188 degrees of freedom
Multiple R-squared:  0.06967,
  Adjusted R-squared:  0.03997
F-statistic: 2.346 on 6 and 188 DF,  p-value: 0.03294

> nobs(m7)
[1] 195
> mm7

t test of coefficients:

                 Estimate Std. Error t value  Pr(>|t|)
(Intercept)     0.9483105  0.0122052 77.6974 < 2.2e-16 ***
government      0.0182014  0.0195186  0.9325  0.352267
cabinet         0.0148913  0.0118457  1.2571  0.210273
margin.analysis  0.0667066  0.0409417  1.6293  0.104923
maritime       -0.0225220  0.0255353 -0.8820  0.378905
quebec         -0.0552749  0.0181200 -3.0505  0.002615 **
west           -0.0036837  0.0162771 -0.2263  0.821205
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m8)

Call:
lm(formula = m5.2.2, data = data2[data2$parl8 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.57175 -0.01847  0.01033  0.04401  0.16673

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)     0.927315   0.012510  74.127  < 2e-16 ***
government      0.008887   0.013200   0.673   0.5016
cabinet         0.044351   0.025217   1.759   0.0803 .
margin.analysis  0.019483   0.060042   0.324   0.7459
maritime       -0.025570   0.016622  -1.538   0.1257
quebec         -0.015466   0.014787  -1.046   0.2969
west           -0.094355   0.023609  -3.997 9.23e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.08365 on 187 degrees of freedom
Multiple R-squared:  0.1046,
  Adjusted R-squared:  0.07589
F-statistic: 3.642 on 6 and 187 DF,  p-value: 0.001926
```

```
> nobs(m8)
[1] 194
> mm8

t test of coefficients:

                  Estimate Std. Error  t value  Pr(>|t|)
(Intercept)      0.9273148  0.0089556 103.5461 < 2.2e-16 ***
government       0.0088875  0.0134455   0.6610  0.509426
cabinet          0.0443506  0.0109191   4.0618 7.159e-05 ***
margin.analysis  0.0194832  0.0512553   0.3801  0.704288
maritime        -0.0255702  0.0243857  -1.0486  0.295727
quebec          -0.0154663  0.0090127  -1.7161  0.087807 .
west            -0.0943553  0.0311637  -3.0277  0.002812 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m9)

Call:
lm(formula = m5.2.2, data = data2[data2$parl9 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.75032 -0.01126  0.00715  0.02543  0.06118

Coefficients:
                  Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9504240  0.0085674 110.934  < 2e-16 ***
government       0.0443427  0.0107266   4.134 5.19e-05 ***
cabinet          0.0001667  0.0180631   0.009  0.99265
margin.analysis -0.0152914  0.0562908  -0.272  0.78616
maritime         0.0003418  0.0130675   0.026  0.97916
quebec          -0.0415035  0.0118409  -3.505  0.00056 ***
west            -0.0113885  0.0171889  -0.663  0.50836
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.06505 on 206 degrees of freedom
Multiple R-squared:  0.1127,
  Adjusted R-squared:  0.08684
F-statistic:  4.36 on 6 and 206 DF,  p-value: 0.0003617

> nobs(m9)
[1] 213
> mm9

t test of coefficients:

                   Estimate  Std. Error t value Pr(>|t|)
(Intercept)      0.95042402  0.00955027 99.5181  < 2e-16 ***
government       0.04434273  0.01752047  2.5309  0.01212 *
cabinet          0.00016666  0.00894034  0.0186  0.98515
margin.analysis -0.01529140  0.03421142 -0.4470  0.65537
maritime         0.00034179  0.00847095  0.0403  0.96785
quebec          -0.04150351  0.02158832 -1.9225  0.05592 .
west            -0.01138852  0.01314762 -0.8662  0.38739
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m10)

Call:
lm(formula = m5.2.2, data = data2[data2$parl10 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.80670 -0.00794  0.00978  0.04044  0.06391

Coefficients:
```

```
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.960334   0.010369  92.619  < 2e-16 ***
government       0.044768   0.012018   3.725 0.000251 ***
cabinet          0.010956   0.021650   0.506 0.613361
margin.analysis -0.004233   0.045424  -0.093 0.925851
maritime        -0.007647   0.015291  -0.500 0.617551
quebec          -0.046826   0.013555  -3.454 0.000667 ***
west            -0.014759   0.017498  -0.843 0.399944
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.07695 on 210 degrees of freedom
Multiple R-squared:  0.09893,
  Adjusted R-squared:  0.07318
F-statistic: 3.843 on 6 and 210 DF,  p-value: 0.00117

> nobs(m10)
[1] 217
> mm10

t test of coefficients:

                  Estimate Std. Error  t value Pr(>|t|)
(Intercept)      0.9603344  0.0084649 113.4487  < 2e-16 ***
government       0.0447681  0.0188397   2.3763  0.01839 *
cabinet          0.0109557  0.0132788   0.8251  0.41028
margin.analysis -0.0042325  0.0471197  -0.0898  0.92851
maritime        -0.0076466  0.0076336  -1.0017  0.31764
quebec          -0.0468263  0.0206696  -2.2655  0.02450 *
west            -0.0147588  0.0093678  -1.5755  0.11665
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m11)

Call:
lm(formula = m5.2.2, data = data2[data2$parl11 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.84505 -0.01073  0.00159  0.02329  0.08741

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      9.544e-01  9.008e-03 105.950  < 2e-16 ***
government       4.840e-02  1.025e-02   4.724 4.32e-06 ***
cabinet         -6.555e-03  1.941e-02  -0.338    0.736
margin.analysis  5.803e-02  3.755e-02   1.546    0.124
maritime        -3.814e-03  1.385e-02  -0.275    0.783
quebec          -4.984e-02  1.205e-02  -4.137 5.15e-05 ***
west            -8.537e-06  1.389e-02  -0.001    1.000
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.06648 on 203 degrees of freedom
  (1 observation deleted due to missingness)
Multiple R-squared:  0.1515,
  Adjusted R-squared:  0.1265
F-statistic: 6.042 on 6 and 203 DF,  p-value: 7.755e-06

> nobs(m11)
[1] 210
> mm11

t test of coefficients:

                   Estimate  Std. Error t value Pr(>|t|)
(Intercept)      9.5438e-01  1.0398e-02 91.7856  < 2e-16 ***
government       4.8400e-02  1.6601e-02  2.9155  0.00395 **
cabinet         -6.5547e-03  7.4787e-03 -0.8765  0.38182
margin.analysis  5.8030e-02  3.3023e-02  1.7573  0.08038 .
```

```
maritime        -3.8139e-03  6.7657e-03 -0.5637  0.57357
quebec          -4.9842e-02  2.2777e-02 -2.1882  0.02979 *
west            -8.5374e-06  5.8188e-03 -0.0015  0.99883
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> summary(m12)

Call:
lm(formula = m5.2.2, data = data2[data2$parl12 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.85661 -0.00939  0.01874  0.03370  0.07159

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9635794  0.0172630  55.818   <2e-16 ***
government       0.0085776  0.0140861   0.609    0.543
cabinet          0.0209781  0.0213102   0.984    0.326
margin.analysis  0.0738128  0.0555845   1.328    0.186
maritime        -0.0006781  0.0189233  -0.036    0.971
quebec          -0.0352695  0.0163324  -2.159    0.032 *
west            -0.0295651  0.0182959  -1.616    0.108
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.08674 on 201 degrees of freedom
Multiple R-squared:  0.05642,
  Adjusted R-squared:  0.02825
F-statistic: 2.003 on 6 and 201 DF,  p-value: 0.06687

> nobs(m12)
[1] 208
> mm12

t test of coefficients:

                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9635794  0.0158316 60.8645  < 2e-16 ***
government       0.0085776  0.0188035  0.4562  0.64876
cabinet          0.0209781  0.0200272  1.0475  0.29614
margin.analysis  0.0738128  0.0366380  2.0147  0.04527 *
maritime        -0.0006781  0.0128276 -0.0529  0.95789
quebec          -0.0352695  0.0260387 -1.3545  0.17710
west            -0.0295651  0.0135128 -2.1879  0.02983 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m13)

Call:
lm(formula = m5.2.2, data = data2[data2$parl13 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.66750 -0.01329  0.01743  0.03350  0.07191

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.92546    0.01880  49.213   <2e-16 ***
government       0.01840    0.01806   1.019   0.3096
cabinet          0.00841    0.01680   0.501   0.6172
margin.analysis  0.01705    0.02413   0.707   0.4807
maritime         0.02574    0.01813   1.420   0.1574
quebec           0.04086    0.02137   1.912   0.0574 .
west            -0.01722    0.01374  -1.253   0.2117
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.07336 on 189 degrees of freedom
```

```
  (1 observation deleted due to missingness)
Multiple R-squared:  0.05999,
  Adjusted R-squared:  0.03015
F-statistic:  2.01 on 6 and 189 DF,  p-value: 0.06623

> nobs(m13)
[1] 196
> mm13

t test of coefficients:

                 Estimate Std. Error t value  Pr(>|t|)
(Intercept)      0.925459   0.013494 68.5818 < 2.2e-16 ***
government       0.018403   0.012782  1.4398  0.151582
cabinet          0.008410   0.017598  0.4779  0.633276
margin.analysis  0.017046   0.019190  0.8883  0.375516
maritime         0.025737   0.010782  2.3870  0.017975 *
quebec           0.040862   0.014792  2.7624  0.006305 **
west            -0.017224   0.016675 -1.0330  0.302942
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m14)

Call:
lm(formula = m5.2.2, data = data2[data2$parl14 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.31479 -0.02004  0.01050  0.03998  0.10152

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.932251   0.009986  93.352   <2e-16 ***
government      -0.019550   0.013531  -1.445   0.1504
cabinet          0.028376   0.015570   1.822   0.0702 .
margin.analysis  0.070334   0.033982   2.070   0.0400 *
maritime        -0.015473   0.014537  -1.064   0.2887
quebec           0.023060   0.017698   1.303   0.1944
west            -0.025343   0.017675  -1.434   0.1535
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.06228 on 164 degrees of freedom
Multiple R-squared:  0.1598,
  Adjusted R-squared:  0.129
F-statistic: 5.198 on 6 and 164 DF,  p-value: 6.374e-05

> nobs(m14)
[1] 171
> mm14

t test of coefficients:

                  Estimate Std. Error  t value  Pr(>|t|)
(Intercept)      0.9322508  0.0087232 106.8702 < 2.2e-16 ***
government      -0.0195499  0.0148885  -1.3131  0.190988
cabinet          0.0283758  0.0102451   2.7697  0.006258 **
margin.analysis  0.0703344  0.0295178   2.3828  0.018327 *
maritime        -0.0154735  0.0175021  -0.8841  0.377941
quebec           0.0230598  0.0206480   1.1168  0.265711
west            -0.0253429  0.0231688  -1.0938  0.275630
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m15)

Call:
lm(formula = m5.2.2, data = data2[data2$parl15 == 1, ])

Residuals:
```

```
      Min        1Q    Median        3Q       Max
-0.039460  0.000309  0.000623  0.000745  0.002107

Coefficients:
                 Estimate Std. Error  t value Pr(>|t|)
(Intercept)      0.9992940  0.0005640 1771.864   <2e-16 ***
government       0.0015246  0.0007113    2.143   0.0333 *
cabinet          0.0004155  0.0008120    0.512   0.6094
margin.analysis -0.0003157  0.0018323   -0.172   0.8634
maritime         0.0003711  0.0008457    0.439   0.6613
quebec          -0.0013767  0.0008753   -1.573   0.1173
west            -0.0001090  0.0007811   -0.140   0.8891
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.003847 on 202 degrees of freedom
Multiple R-squared:  0.02898,
  Adjusted R-squared:  0.0001419
F-statistic: 1.005 on 6 and 202 DF,  p-value: 0.4232

> nobs(m15)
[1] 209
> mm15

t test of coefficients:

                   Estimate  Std. Error   t value Pr(>|t|)
(Intercept)      0.99929404  0.00070787 1411.6997   <2e-16 ***
government       0.00152459  0.00128844    1.1833   0.2381
cabinet          0.00041546  0.00033208    1.2511   0.2124
margin.analysis -0.00031570  0.00159189   -0.1983   0.8430
maritime         0.00037111  0.00055622    0.6672   0.5054
quebec          -0.00137670  0.00160123   -0.8598   0.3909
west            -0.00010904  0.00069385   -0.1571   0.8753
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m16)

Call:
lm(formula = m5.2.2, data = data2[data2$parl16 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.23625 -0.03185  0.01380  0.03936  0.16493

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.938590   0.010692  87.785  < 2e-16 ***
government      -0.057868   0.012375  -4.676 5.28e-06 ***
cabinet          0.009932   0.019024   0.522 0.602158
margin.analysis  0.055965   0.032322   1.731 0.084864 .
maritime         0.018208   0.016399   1.110 0.268150
quebec           0.064314   0.015096   4.260 3.10e-05 ***
west            -0.055384   0.014135  -3.918 0.000121 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.07245 on 206 degrees of freedom
Multiple R-squared:  0.308,
  Adjusted R-squared:  0.2879
F-statistic: 15.28 on 6 and 206 DF,  p-value: 1.835e-14

> nobs(m16)
[1] 213
> mm16

t test of coefficients:

                 Estimate Std. Error t value  Pr(>|t|)
(Intercept)      0.9385898  0.0114549 81.9380 < 2.2e-16 ***
```

```
government      -0.0578676  0.0154911 -3.7355 0.0002425 ***
cabinet          0.0099324  0.0185881  0.5343 0.5936835
margin.analysis  0.0559649  0.0277536  2.0165 0.0450468 *
maritime         0.0182082  0.0140479  1.2961 0.1963741
quebec           0.0643140  0.0171402  3.7522 0.0002279 ***
west            -0.0553836  0.0179159 -3.0913 0.0022683 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m17)

Call:
lm(formula = m5.2.2, data = data2[data2$parl17 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.79164 -0.01023  0.00563  0.01822  0.06414

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.959849   0.009685  99.112  < 2e-16 ***
government       0.034536   0.008300   4.161  4.5e-05 ***
cabinet          0.007727   0.014532   0.532   0.5954
margin.analysis -0.000180   0.032461  -0.006   0.9956
maritime        -0.007660   0.012801  -0.598   0.5502
quebec          -0.003297   0.009889  -0.333   0.7392
west            -0.023965   0.010254  -2.337   0.0203 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.05822 on 226 degrees of freedom
Multiple R-squared:  0.1129,
  Adjusted R-squared:  0.08934
F-statistic: 4.793 on 6 and 226 DF,  p-value: 0.0001268

> nobs(m17)
[1] 233
> mm17

t test of coefficients:

                  Estimate Std. Error  t value  Pr(>|t|)
(Intercept)      0.9598490  0.0083798 114.5425 < 2.2e-16 ***
government       0.0345360  0.0092122   3.7490 0.0002256 ***
cabinet          0.0077275  0.0037977   2.0348 0.0430422 *
margin.analysis -0.0001800  0.0173899  -0.0104 0.9917504
maritime        -0.0076598  0.0047802  -1.6024 0.1104629
quebec          -0.0032966  0.0049892  -0.6607 0.5094490
west            -0.0239651  0.0140509  -1.7056 0.0894572 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m18)

Call:
lm(formula = m5.2.2, data = data2[data2$parl18 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.215744 -0.007297  0.009544  0.012517  0.040255

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.984769   0.005165 190.678  < 2e-16 ***
government       0.005436   0.005681   0.957   0.3398
cabinet          0.015790   0.008003   1.973   0.0499 *
margin.analysis  0.004589   0.015032   0.305   0.7604
maritime        -0.001136   0.007226  -0.157   0.8752
quebec          -0.003116   0.005438  -0.573   0.5673
west            -0.025079   0.005609  -4.471 1.29e-05 ***
---
```

```
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.02989 on 203 degrees of freedom
Multiple R-squared:  0.1196,
  Adjusted R-squared:  0.09354
F-statistic: 4.594 on 6 and 203 DF,  p-value: 0.0002133

> nobs(m18)
[1] 210
> mm18

t test of coefficients:

                 Estimate Std. Error  t value  Pr(>|t|)
(Intercept)      0.9847690  0.0054816 179.6507 < 2.2e-16 ***
government       0.0054356  0.0067364   0.8069 0.4206717
cabinet          0.0157903  0.0048746   3.2393 0.0014001 **
margin.analysis  0.0045894  0.0098802   0.4645 0.6427877
maritime        -0.0011360  0.0039247  -0.2894 0.7725415
quebec          -0.0031156  0.0049900  -0.6244 0.5330843
west            -0.0250791  0.0072077  -3.4795 0.0006147 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m19)

Call:
lm(formula = m5.2.2, data = data2[data2$parl19 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.53124 -0.01231  0.01082  0.02434  0.17903

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.984267   0.016930  58.139  < 2e-16 ***
government       0.016373   0.018234   0.898  0.37024
cabinet          0.052721   0.020155   2.616  0.00956 **
margin.analysis -0.059759   0.047336  -1.262  0.20821
maritime        -0.011926   0.021762  -0.548  0.58427
quebec          -0.133608   0.018938  -7.055 2.52e-11 ***
west            -0.009401   0.017240  -0.545  0.58614
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.09396 on 208 degrees of freedom
Multiple R-squared:  0.3274,
  Adjusted R-squared:  0.308
F-statistic: 16.87 on 6 and 208 DF,  p-value: 7.601e-16

> nobs(m19)
[1] 215
> mm19

t test of coefficients:

                 Estimate Std. Error  t value  Pr(>|t|)
(Intercept)      0.9842672  0.0066520 147.9658 < 2.2e-16 ***
government       0.0163735  0.0061693   2.6540  0.008568 **
cabinet          0.0527209  0.0176161   2.9928  0.003099 **
margin.analysis -0.0597588  0.0594563  -1.0051  0.316022
maritime        -0.0119257  0.0062858  -1.8973  0.059180 .
quebec          -0.1336084  0.0203177  -6.5760 3.835e-10 ***
west            -0.0094010  0.0055830  -1.6838  0.093712 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m20)

Call:
lm(formula = m5.2.2, data = data2[data2$parl20 == 1, ])
```

```
Residuals:
      Min        1Q    Median        3Q       Max
-0.123229 -0.008357  0.004535  0.014768  0.032602

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9749214  0.0033903 287.558   <2e-16 ***
government       0.0073810  0.0041867   1.763   0.0795 .
cabinet         -0.0005699  0.0044664  -0.128   0.8986
margin.analysis  0.0023276  0.0132718   0.175   0.8610
maritime        -0.0047385  0.0051024  -0.929   0.3543
quebec           0.0024316  0.0047634   0.510   0.6103
west            -0.0076436  0.0048140  -1.588   0.1140
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.02248 on 187 degrees of freedom
Multiple R-squared:  0.05534,
  Adjusted R-squared:  0.02503
F-statistic: 1.826 on 6 and 187 DF,  p-value: 0.09609

> nobs(m20)
[1] 194
> mm20

t test of coefficients:

                 Estimate Std. Error  t value Pr(>|t|)
(Intercept)      0.9749214  0.0034101 285.8921  < 2e-16 ***
government       0.0073810  0.0042007   1.7571  0.08054 .
cabinet         -0.0005699  0.0045445  -0.1254  0.90034
margin.analysis  0.0023276  0.0164046   0.1419  0.88732
maritime        -0.0047385  0.0040042  -1.1834  0.23817
quebec           0.0024316  0.0045830   0.5306  0.59635
west            -0.0076436  0.0061097  -1.2511  0.21248
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m20)

Call:
lm(formula = m5.2.2, data = data2[data2$parl20 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.123229 -0.008357  0.004535  0.014768  0.032602

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9749214  0.0033903 287.558   <2e-16 ***
government       0.0073810  0.0041867   1.763   0.0795 .
cabinet         -0.0005699  0.0044664  -0.128   0.8986
margin.analysis  0.0023276  0.0132718   0.175   0.8610
maritime        -0.0047385  0.0051024  -0.929   0.3543
quebec           0.0024316  0.0047634   0.510   0.6103
west            -0.0076436  0.0048140  -1.588   0.1140
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.02248 on 187 degrees of freedom
Multiple R-squared:  0.05534,
  Adjusted R-squared:  0.02503
F-statistic: 1.826 on 6 and 187 DF,  p-value: 0.09609

> nobs(m20)
[1] 194
> mm20

t test of coefficients:
```

```
                 Estimate Std. Error  t value Pr(>|t|)
(Intercept)      0.9749214  0.0034101 285.8921  < 2e-16 ***
government       0.0073810  0.0042007   1.7571  0.08054 .
cabinet         -0.0005699  0.0045445  -0.1254  0.90034
margin.analysis  0.0023276  0.0164046   0.1419  0.88732
maritime        -0.0047385  0.0040042  -1.1834  0.23817
quebec           0.0024316  0.0045830   0.5306  0.59635
west            -0.0076436  0.0061097  -1.2511  0.21248
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m21)

Call:
lm(formula = m5.2.2, data = data2[data2$parl21 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.127466 -0.003960  0.002447  0.008567  0.018541

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      9.896e-01  2.464e-03 401.673  < 2e-16 ***
government       3.384e-03  2.697e-03   1.255  0.21073
cabinet          6.747e-03  3.029e-03   2.228  0.02682 *
margin.analysis -1.939e-03  6.932e-03  -0.280  0.77996
maritime        -3.041e-05  3.176e-03  -0.010  0.99237
quebec          -1.006e-03  2.837e-03  -0.354  0.72332
west            -7.744e-03  2.819e-03  -2.748  0.00646 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.01594 on 241 degrees of freedom
Multiple R-squared:  0.06123,
  Adjusted R-squared:  0.03786
F-statistic:  2.62 on 6 and 241 DF,  p-value: 0.01768

> nobs(m21)
[1] 248
> mm21

t test of coefficients:

                   Estimate  Std. Error  t value  Pr(>|t|)
(Intercept)      9.8957e-01  2.1479e-03 460.7158 < 2.2e-16 ***
government       3.3842e-03  2.5135e-03   1.3464  0.179434
cabinet          6.7471e-03  2.1013e-03   3.2109  0.001503 **
margin.analysis -1.9389e-03  6.2197e-03  -0.3117  0.755511
maritime        -3.0412e-05  2.6320e-03  -0.0116  0.990790
quebec          -1.0057e-03  2.3182e-03  -0.4338  0.664805
west            -7.7445e-03  3.4422e-03  -2.2499  0.025361 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m22)

Call:
lm(formula = m5.2.2, data = data2[data2$parl22 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.213206 -0.001650  0.003365  0.005998  0.023075

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9827942  0.0029743 330.430  < 2e-16 ***
government       0.0126767  0.0034218   3.705 0.000267 ***
cabinet          0.0048864  0.0037870   1.290 0.198289
margin.analysis  0.0065643  0.0087364   0.751 0.453221
maritime         0.0002433  0.0040994   0.059 0.952723
quebec          -0.0021798  0.0034930  -0.624 0.533231
```

```
west            -0.0114963  0.0039373  -2.920 0.003863 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.0197 on 222 degrees of freedom
Multiple R-squared:  0.1284,
  Adjusted R-squared:  0.1048
F-statistic:  5.45 on 6 and 222 DF,  p-value: 2.8e-05

> nobs(m22)
[1] 229
> mm22

t test of coefficients:

                   Estimate  Std. Error  t value  Pr(>|t|)
(Intercept)      0.98279417  0.00344237 285.4996 < 2.2e-16 ***
government       0.01267666  0.00554764   2.2851 0.0232541 *
cabinet          0.00488637  0.00145594   3.3562 0.0009296 ***
margin.analysis  0.00656433  0.00542460   1.2101 0.2275258
maritime         0.00024332  0.00246461   0.0987 0.9214450
quebec          -0.00217983  0.00334513  -0.6516 0.5153061
west            -0.01149631  0.00741995  -1.5494 0.1227150
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m23)

Call:
lm(formula = m5.2.2, data = data2[data2$parl23 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.137252  0.001971  0.008258  0.012646  0.049552

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9549796  0.0089544 106.649  < 2e-16 ***
government       0.0338526  0.0078410   4.317 3.18e-05 ***
cabinet          0.0038921  0.0078891   0.493   0.6226
margin.analysis  0.0188607  0.0220723   0.854   0.3945
maritime        -0.0005345  0.0082922  -0.064   0.9487
quebec           0.0166211  0.0089402   1.859   0.0654 .
west            -0.0048764  0.0083209  -0.586   0.5589
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.03357 on 125 degrees of freedom
Multiple R-squared:  0.1659,
  Adjusted R-squared:  0.1258
F-statistic: 4.142 on 6 and 125 DF,  p-value: 0.0007887

> nobs(m23)
[1] 132
> mm23

t test of coefficients:

                   Estimate  Std. Error t value  Pr(>|t|)
(Intercept)      0.95497964  0.01291395 73.9494 < 2.2e-16 ***
government       0.03385255  0.01158734  2.9215  0.004135 **
cabinet          0.00389208  0.00459906  0.8463  0.399015
margin.analysis  0.01886071  0.02195191  0.8592  0.391884
maritime        -0.00053453  0.00841783 -0.0635  0.949470
quebec           0.01662107  0.00921277  1.8041  0.073618 .
west            -0.00487636  0.00884502 -0.5513  0.582404
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m24)
```

```
Call:
lm(formula = m5.2.2, data = data2[data2$parl24 == 1, ])

Residuals:
       Min         1Q     Median         3Q        Max
-0.0230629  0.0002244  0.0005005  0.0007293  0.0058517

Coefficients:
                 Estimate Std. Error  t value Pr(>|t|)
(Intercept)     0.9941128  0.0007827 1270.125  < 2e-16 ***
government      0.0048230  0.0006697    7.202 6.51e-12 ***
cabinet        -0.0002108  0.0006888   -0.306    0.760
margin.analysis  0.0020924  0.0020897    1.001    0.318
maritime        0.0001494  0.0008349    0.179    0.858
quebec          0.0003563  0.0007059    0.505    0.614
west            0.0001208  0.0006549    0.185    0.854
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.003952 on 258 degrees of freedom
Multiple R-squared:  0.2064,
  Adjusted R-squared:  0.1879
F-statistic: 11.18 on 6 and 258 DF,  p-value: 4.32e-11

> nobs(m24)
[1] 265
> mm24

t test of coefficients:

                  Estimate  Std. Error  t value  Pr(>|t|)
(Intercept)     0.99411275  0.00131428 756.3962 < 2.2e-16 ***
government      0.00482305  0.00110549   4.3628 1.858e-05 ***
cabinet        -0.00021076  0.00042502  -0.4959    0.6204
margin.analysis  0.00209239  0.00173944   1.2029    0.2301
maritime        0.00014941  0.00086527   0.1727    0.8630
quebec          0.00035630  0.00083660   0.4259    0.6705
west            0.00012084  0.00042253   0.2860    0.7751
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m25)

Call:
lm(formula = m5.2.2, data = data2[data2$parl25 == 1, ])

Residuals:
       Min         1Q     Median         3Q        Max
-1.991e-15 -6.840e-16 -2.020e-16  1.380e-16  6.458e-14

Coefficients:
                 Estimate Std. Error    t value Pr(>|t|)
(Intercept)     1.000e+00  7.578e-16  1.320e+15   <2e-16 ***
government      3.666e-16  8.033e-16  4.560e-01    0.649
cabinet        -6.646e-16  9.752e-16 -6.820e-01    0.496
margin.analysis -3.495e-15  3.089e-15 -1.131e+00    0.259
maritime        1.727e-17  1.015e-15  1.700e-02    0.986
quebec          2.072e-17  8.894e-16  2.300e-02    0.981
west            1.281e-15  9.119e-16  1.405e+00    0.162
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 4.679e-15 on 196 degrees of freedom
Multiple R-squared:  0.5003,
  Adjusted R-squared:  0.485
F-statistic: 32.71 on 6 and 196 DF,  p-value: < 2.2e-16

> nobs(m25)
[1] 203
> mm25
```

```
t test of coefficients:

                  Estimate  Std. Error     t value Pr(>|t|)
(Intercept)      1.0000e+00  3.7930e-16  2.6364e+15   <2e-16 ***
government       3.6660e-16  3.8309e-16  9.5700e-01   0.3398
cabinet         -6.6461e-16  6.7040e-16 -9.9140e-01   0.3227
margin.analysis -3.4951e-15  3.5168e-15 -9.9380e-01   0.3215
maritime         1.7265e-17  1.2193e-16  1.4160e-01   0.8875
quebec           2.0721e-17  7.5356e-17  2.7500e-01   0.7836
west             1.2810e-15  1.2801e-15  1.0007e+00   0.3182
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m26)

Call:
lm(formula = m5.2.2, data = data2[data2$parl26 == 1, ])

Residuals:
      Min        1Q    Median        3Q       Max
-0.307031 -0.007356  0.001286  0.016826  0.026669

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      0.9763236  0.0050969 191.552  < 2e-16 ***
government       0.0263785  0.0052835   4.993 1.22e-06 ***
cabinet         -0.0008977  0.0058321  -0.154    0.878
margin.analysis  0.0279780  0.0169656   1.649    0.101
maritime        -0.0002884  0.0063352  -0.046    0.964
quebec          -0.0246491  0.0054564  -4.518 1.02e-05 ***
west             0.0039382  0.0060098   0.655    0.513
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.0308 on 219 degrees of freedom
Multiple R-squared:  0.186,
  Adjusted R-squared:  0.1637
F-statistic:  8.34 on 6 and 219 DF,  p-value: 3.77e-08

> nobs(m26)
[1] 226
> mm26

t test of coefficients:

                  Estimate  Std. Error  t value  Pr(>|t|)
(Intercept)      0.97632359  0.00742304 131.5262 < 2.2e-16 ***
government       0.02637852  0.00811020   3.2525  0.001325 **
cabinet         -0.00089767  0.00297699  -0.3015  0.763293
margin.analysis  0.02797799  0.01580853   1.7698  0.078151 .
maritime        -0.00028844  0.00371691  -0.0776  0.938215
quebec          -0.02464912  0.00914463  -2.6955  0.007575 **
west             0.00393819  0.00420081   0.9375  0.349543
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> summary(m27)

Call:
lm(formula = m5.2.2, data = data2[data2$parl27 == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.37448 -0.00920  0.00772  0.02564  0.06519

Coefficients:
                 Estimate Std. Error t value Pr(>|t|)
(Intercept)      9.704e-01  7.274e-03 133.398  < 2e-16 ***
government       1.761e-02  7.589e-03   2.320  0.02121 *
cabinet          1.051e-02  8.126e-03   1.294  0.19709
margin.analysis -6.196e-02  2.148e-02  -2.885  0.00429 **
```

```
maritime        -4.458e-03  9.205e-03  -0.484  0.62863
quebec          -1.268e-02  7.667e-03  -1.654  0.09948 .
west            -1.056e-05  8.626e-03  -0.001  0.99902
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.04423 on 230 degrees of freedom
Multiple R-squared:  0.08307,
  Adjusted R-squared:  0.05915
F-statistic: 3.473 on 6 and 230 DF,  p-value: 0.002638

> nobs(m27)
[1] 237
> mm27

t test of coefficients:

                  Estimate  Std. Error  t value Pr(>|t|)
(Intercept)      9.7040e-01  7.1966e-03 134.8423  < 2e-16 ***
government       1.7608e-02  8.9793e-03   1.9609  0.05109 .
cabinet          1.0512e-02  5.0719e-03   2.0726  0.03932 *
margin.analysis -6.1959e-02  6.3344e-02  -0.9781  0.32903
maritime        -4.4581e-03  9.1022e-03  -0.4898  0.62476
quebec          -1.2681e-02  6.4906e-03  -1.9537  0.05194 .
west            -1.0559e-05  8.8589e-03  -0.0012  0.99905
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
>
>
```