```
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)

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  Natural language support but running in an English locale

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

2020-01-28 12:54:38.435 R[4972:600762] Antidote - Texteurs: Module texteur installé dans /Applications/R.app
(org.R-project.R)
> ########################
> #JF GODBOUT MANUSCRIPT##
> #CHAPTER 6##############
> #August 24, 2018########
> ########################
> #FIGURE 6.2##############
> ########################
>
> ######################################################################
> #Figure 6.2: The Influence of Budget/Religion Motions on Party Unity#
> ######################################################################
>
> rm(list=ls())
>
> library(mfx);library(ggplot2);library(car)
Loading required package: sandwich
Loading required package: lmtest
Loading required package: zoo

Attaching package: ‘zoo’

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

    as.Date, as.Date.numeric

Loading required package: MASS
Loading required package: betareg
Loading required package: carData
>
> cons <- read.csv(file="~/Dropbox/Canada-Manuscript/Analysis/cons-vote.csv", header=T)
> libs <- read.csv(file="~/Dropbox/Canada-Manuscript/Analysis/libs-vote.csv", header=T)
>
> libs1 <- subset(libs,libs$parlement < 17)
> cons1 <- subset(cons,cons$parlement < 17)
>
> ################
> #1. Code Topics#
> ################
>
> #libs
>
> #102 Bankruptcy + banking/Insurance
> libs1$money <- recode(libs1$topic,"'Bankruptcy'=1;'Banking/Insurance'=1;else=0")
> libs1$money <- as.numeric(as.character(libs1$money))
>
> #308 Railroad, Canal, Transportation
> libs1$transport <- recode(libs1$topic,"'Railroad'=1;'Canals'=1;'Transportation'=1;else=0")
> libs1$transport <- as.numeric(as.character(libs1$transport))
```

```
>
> #47 Agriculture + Natural Resources
> libs1$primary <- recode(libs1$topic,"'Agriculture'=1;'Natural Resources'=1;else=0")
> libs1$primary <- as.numeric(as.character(libs1$primary))
>
> #99 Budget
> libs1$budget <- recode(libs1$topic,"'Budget'=1;else=0")
> libs1$budget <- as.numeric(as.character(libs1$budget))
>
> # Hospital/Health + Education + Social Security/Welfare 4 + 1 + 9
> libs1$social <- recode(libs1$topic,"'Hospital/Health'=1;'Education'=1;'Social Security/Welfare'=1;else=0")
> libs1$social <- as.numeric(as.character(libs1$social))
>
> #Civil Service + Public Administraion 55 + 2
> libs1$admin <- recode(libs1$topic,"'Civil Service'=1;'Public Administration'=1;else=0")
> libs1$admin <- as.numeric(as.character(libs1$admin))
>
> #Constitution/Federalism + First Nation 39 + 5
> libs1$constitution <- recode(libs1$topic,"'Constitution/Federalism'=1;'First Nations'=1;else=0")
> libs1$constitution <- as.numeric(as.character(libs1$constitution))
>
> #Defence 48
> libs1$defence <- recode(libs1$topic,"'Defence'=1;else=0")
> libs1$defence <- as.numeric(as.character(libs1$defence))
>
> #Democratic Reform 122
> libs1$dem.ref <- recode(libs1$topic,"'Democratic Reform'=1;else=0")
> libs1$dem.ref <- as.numeric(as.character(libs1$dem.ref))
>
> #Divorce/Marriage 96
> libs1$divorce <- recode(libs1$topic,"'Divorce/Marriage'=1;else=0")
> libs1$divorce <- as.numeric(as.character(libs1$divorce))
>
> #Election 112
> libs1$election <- recode(libs1$topic,"'Election'=1;else=0")
> libs1$election <- as.numeric(as.character(libs1$election))
>
> #Foreign Policy 35
> libs1$foreign <- recode(libs1$topic,"'Foreign Policy'=1;else=0")
> libs1$foreign <- as.numeric(as.character(libs1$foreign))
>
> #Procedure (baseline 99)
> libs1$procedure <- recode(libs1$topic,"'Procedure'=1;else=0")
> libs1$procedure <- as.numeric(as.character(libs1$procedure))
>
> #Province/Territories 98
> libs1$province <-  recode(libs1$topic,"'Province/Territories'=1;else=0")
> libs1$province <- as.numeric(as.character(libs1$province))
>
> #Tariff Trade 169 + 42
> libs1$tariff <-  recode(libs1$topic,"'Tariff/Taxation'=1;'Trade'=1;else=0")
> libs1$tariff <- as.numeric(as.character(libs1$tariff))
>
> #Corruption Member Censusre 34
> libs1$corruption <- recode(libs1$topic,"'Member censure'=1;'Corruption'=1;else=0")
> libs1$corruption <- as.numeric(as.character(libs1$corruption))
>
> #Language/Religion/Prohibition
> libs1$religion <- recode(libs1$topic,"'Language/Religion/Prohibition'=1;else=0")
> libs1$religion <- as.numeric(as.character(libs1$religion))
>
> #commerce + communication
> libs1$commerce <- recode(libs1$topic,"'Commerce'=1;'Communication'=1;else=0")
> libs1$commerce <- as.numeric(as.character(libs1$commerce))
>
> #justice
>
> libs1$justice <- recode(libs1$topic,"'Justice'=1;else=0")
> libs1$justice <- as.numeric(as.character(libs1$justice))
>
> #immigration/colonisation
```

```
>
> libs1$immigration <- recode(libs1$topic,"'Immigration/Colonisation'=1;else=0")
> libs1$immigration <- as.numeric(as.character(libs1$immigration))
>
> #cons
>
> #102 Bankruptcy + banking/Insurance
> cons1$money <- recode(cons1$topic,"'Bankruptcy'=1;'Banking/Insurance'=1;else=0")
> cons1$money <- as.numeric(as.character(cons1$money))
>
> #308 Railroad, Canal, Transportation
> cons1$transport <- recode(cons1$topic,"'Railroad'=1;'Canals'=1;'Transportation'=1;else=0")
> cons1$transport <- as.numeric(as.character(cons1$transport))
>
> #47 Agriculture + Natural Resources
> cons1$primary <- recode(cons1$topic,"'Agriculture'=1;'Natural Resources'=1;else=0")
> cons1$primary <- as.numeric(as.character(cons1$primary))
>
> #99 Budget
> cons1$budget <- recode(cons1$topic,"'Budget'=1;else=0")
> cons1$budget <- as.numeric(as.character(cons1$budget))
>
> # Hospital/Health + Education + Social Security/Welfare 4 + 1 + 9
> cons1$social <- recode(cons1$topic,"'Hospital/Health'=1;'Education'=1;'Social Security/Welfare'=1;else=0")
> cons1$social <- as.numeric(as.character(cons1$social))
>
> #Civil Service + Public Administraion 55 + 2
> cons1$admin <- recode(cons1$topic,"'Civil Service'=1;'Public Administration'=1;else=0")
> cons1$admin <- as.numeric(as.character(cons1$admin))
>
> #Constitution/Federalism + First Nation 39 + 5
> cons1$constitution <- recode(cons1$topic,"'Constitution/Federalism'=1;'First Nations'=1;else=0")
> cons1$constitution <- as.numeric(as.character(cons1$constitution))
>
> #Defence 48
> cons1$defence <- recode(cons1$topic,"'Defence'=1;else=0")
> cons1$defence <- as.numeric(as.character(cons1$defence))
>
> #Democratic Reform 122
> cons1$dem.ref <- recode(cons1$topic,"'Democratic Reform'=1;else=0")
> cons1$dem.ref <- as.numeric(as.character(cons1$dem.ref))
>
> #Divorce/Marriage 96
> cons1$divorce <- recode(cons1$topic,"'Divorce/Marriage'=1;else=0")
> cons1$divorce <- as.numeric(as.character(cons1$divorce))
>
> #Election 112
> cons1$election <- recode(cons1$topic,"'Election'=1;else=0")
> cons1$election <- as.numeric(as.character(cons1$election))
>
> #Foreign Policy 35
> cons1$foreign <- recode(cons1$topic,"'Foreign Policy'=1;else=0")
> cons1$foreign <- as.numeric(as.character(cons1$foreign))
>
> #Procedure (baseline 99)
> cons1$procedure <- recode(cons1$topic,"'Procedure'=1;else=0")
> cons1$procedure <- as.numeric(as.character(cons1$procedure))
>
> #Province/Territories 98
> cons1$province <-  recode(cons1$topic,"'Province/Territories'=1;else=0")
> cons1$province <- as.numeric(as.character(cons1$province))
>
> #Tariff Trade 169 + 42
> cons1$tariff <-  recode(cons1$topic,"'Tariff/Taxation'=1;'Trade'=1;else=0")
> cons1$tariff <- as.numeric(as.character(cons1$tariff))
>
> #Corruption Member Censusre 34
> cons1$corruption <- recode(cons1$topic,"'Member censure'=1;'Corruption'=1;else=0")
> cons1$corruption <- as.numeric(as.character(cons1$corruption))
>
> #Language/Religion/Prohibition
```

```
> cons1$religion <- recode(cons1$topic,"'Language/Religion/Prohibition'=1;else=0")
> cons1$religion <- as.numeric(as.character(cons1$religion))
>
> #commerce + communication
> cons1$commerce <- recode(cons1$topic,"'Commerce'=1;'Communication'=1;else=0")
> cons1$commerce <- as.numeric(as.character(cons1$commerce))
>
> #justice
>
> cons1$justice <- recode(cons1$topic,"'Justice'=1;else=0")
> cons1$justice <- as.numeric(as.character(cons1$justice))
>
> #immigration/colonisation
>
> cons1$immigration <- recode(cons1$topic,"'Immigration/Colonisation'=1;else=0")
> cons1$immigration <- as.numeric(as.character(cons1$immigration))
>
> ################################
> #MODEL 6.2 TOPIC TABLE + GRAPHS#
> ################################
>
> #budget         1    0    0    0    0    0    0    0
> #commerce       0    1    0    0    0    0    0    0
> #democracy      0    0    1    0    0    0    0    0
> #foreign        0    0    0    1    0    0    0    0
> #immigration    0    0    0    0    1    0    0    0
> #justice        0    0    0    0    0    1    0    0
> #region         0    0    0    0    0    0    1    0
> #religion       0    0    0    0    0    0    0    1
> #xprocedure    -1   -1   -1   -1   -1   -1   -1   -1
>
> ####################
> #6.2.1 Conservatives#
> ####################
>
> data1 <- cons1
> data1 <- subset(data1,data1$topic!="Delete")
>
> data1$region.dum <-
ifelse(data1$transport==1,1,ifelse(data1$province==1,1,ifelse(data1$constitution==1,1,ifelse(data1$primary==1,1
,0))))
>
> data1$religion.dum <- ifelse(data1$religion==1,1,ifelse(data1$divorce==1,1,0))
>
> data1$budget.dum <-
ifelse(data1$budget==1,1,ifelse(data1$tariff==1,1,ifelse(data1$money==1,1,ifelse(data1$social==1,1,ifelse(data1
$admin==1,1,0)))))
>
> data1$foreign.dum <- ifelse(data1$defence==1,1,ifelse(data1$foreign==1,1,0))
>
> data1$democracy.dum <- ifelse(data1$dem.ref==1,1,ifelse(data1$election==1,1,ifelse(data1$corruption==1,1,0)))
>
> data1$immigration.dum <- ifelse(data1$immigration==1,1,0)
>
> data1$commerce.dum <- ifelse(data1$commerce==1,1,0)
>
> data1$justice.dum <- ifelse(data1$justice==1,1,0)
>
> data1$procedure <- ifelse(data1$topic=="Procedure",1,0)
>
> data1$topic.reg <-
ifelse(data1$region.dum==1,"region",ifelse(data1$religion.dum==1,"religion",ifelse(data1$budget.dum==1,"budget"
,ifelse(data1$foreign.dum==1,"foreign",ifelse(data1$democracy.dum==1,"democracy",ifelse(data1$procedure==1,"xpr
ocedure",ifelse(data1$immigration.dum==1,"immigration",ifelse(data1$commerce.dum==1,"commerce",ifelse(data1$jus
tice.dum==1,"justice",1)))))))))
>
> data1$type.f <- factor(data1$topic.reg)
> x <- length(levels(factor(data1$type.f)))
> contrasts(data1$type.f) = contr.sum(x)
>
> data1$parl1 <- ifelse(data1$parlement==1,1,0)
```

```
> data1$parl2 <- ifelse(data1$parlement==2,1,0)
> data1$parl3 <- ifelse(data1$parlement==3,1,0)
> data1$parl4 <- ifelse(data1$parlement==4,1,0)
> data1$parl5 <- ifelse(data1$parlement==5,1,0)
> data1$parl6 <- ifelse(data1$parlement==6,1,0)
> data1$parl7 <- ifelse(data1$parlement==7,1,0)
> data1$parl8 <- ifelse(data1$parlement==8,1,0)
> data1$parl9 <- ifelse(data1$parlement==9,1,0)
> data1$parl10 <- ifelse(data1$parlement==10,1,0)
> data1$parl11 <- ifelse(data1$parlement==11,1,0)
> data1$parl12 <- ifelse(data1$parlement==12,1,0)
> data1$parl13 <- ifelse(data1$parlement==13,1,0)
> data1$parl14 <- ifelse(data1$parlement==14,1,0)
> data1$parl15 <- ifelse(data1$parlement==15,1,0)
> data1$parl16 <- ifelse(data1$parlement==16,1,0)
>
> #not used
>
> m6.2.1 <- rice.bill ~ type.f + parl2 + parl3 + parl4 + parl5 + parl6 + parl7 + parl8 + parl9 + parl10 +
parl11 + parl12 + parl13 + parl14 + parl15 + parl16
>
> #used
>
> m6.2.1a <- rice.bill ~ religion.dum
> m6.2.1b <- rice.bill ~ budget.dum
>
> #
>
> model <- m6.2.1a
> m1 <- lm(model,data=data1[data1$parlement==1,],)
> m2 <- lm(model,data=data1[data1$parlement==2,],)
> m3 <- lm(model,data=data1[data1$parlement==3,],)
> m4 <- lm(model,data=data1[data1$parlement==4,],)
> m5 <- lm(model,data=data1[data1$parlement==5,],)
> m6 <- lm(model,data=data1[data1$parlement==6,],)
> m7 <- lm(model,data=data1[data1$parlement==7,],)
> m8 <- lm(model,data=data1[data1$parlement==8,],)
> m9 <- lm(model,data=data1[data1$parlement==9,],)
> m10 <- lm(model,data=data1[data1$parlement==10,],)
> m11 <- lm(model,data=data1[data1$parlement==11,],)
> m12 <- lm(model,data=data1[data1$parlement==12,],)
> m13 <- lm(model,data=data1[data1$parlement==13,],)
> m14 <- lm(model,data=data1[data1$parlement==14,],)
> #m15 <- lm(model,data=data1[data1$parlement==15,],)
> m16 <- lm(model,data=data1[data1$parlement==16,],)
>
> #Print results Conservatives Religion
>
> summary(m1)

Call:
lm(formula = model, data = data1[data1$parlement == 1, ])

Residuals:
    Min      1Q  Median      3Q     Max
-0.6849 -0.1618  0.0967  0.2129  0.6024

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.70817    0.01683  42.074  < 2e-16 ***
religion.dum -0.34628    0.06496  -5.331 2.01e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2735 on 281 degrees of freedom
Multiple R-squared:  0.09184,
  Adjusted R-squared:  0.08861
F-statistic: 28.42 on 1 and 281 DF,  p-value: 2.012e-07

> nobs(m1)
[1] 283
```

```
> summary(m2)

Call:
lm(formula = model, data = data1[data1$parlement == 2, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.81332 -0.01121  0.07364  0.09293  0.09293

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.90707    0.03344   27.12  < 2e-16 ***
religion.dum -0.83786    0.07894  -10.61 8.83e-13 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1892 on 37 degrees of freedom
Multiple R-squared:  0.7528,
  Adjusted R-squared:  0.7461
F-statistic: 112.7 on 1 and 37 DF,  p-value: 8.825e-13

> nobs(m2)
[1] 39
> summary(m3)

Call:
lm(formula = model, data = data1[data1$parlement == 3, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.62565 -0.20552  0.02728  0.22036  0.54878

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.65129    0.02948  22.090  < 2e-16 ***
religion.dum -0.30533    0.05538  -5.514 1.93e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2813 on 125 degrees of freedom
Multiple R-squared:  0.1956,
  Adjusted R-squared:  0.1892
F-statistic:  30.4 on 1 and 125 DF,  p-value: 1.928e-07

> nobs(m3)
[1] 127
> summary(m4)

Call:
lm(formula = model, data = data1[data1$parlement == 4, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.73718  0.03641  0.09105  0.09418  0.32702

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.88812    0.01899  46.764  < 2e-16 ***
religion.dum -0.35800    0.05823  -6.148 7.82e-09 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2132 on 139 degrees of freedom
Multiple R-squared:  0.2138,
  Adjusted R-squared:  0.2082
F-statistic:  37.8 on 1 and 139 DF,  p-value: 7.82e-09

> nobs(m4)
[1] 141
> summary(m5)
```

```
Call:
lm(formula = model, data = data1[data1$parlement == 5, ])

Residuals:
    Min      1Q  Median      3Q     Max
-0.8571 -0.0434  0.1320  0.1320  0.4458

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.86805    0.02149  40.385  < 2e-16 ***
religion.dum -0.31390    0.04496  -6.982 3.84e-11 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2736 on 208 degrees of freedom
Multiple R-squared:  0.1899,
  Adjusted R-squared:  0.186
F-statistic: 48.75 on 1 and 208 DF,  p-value: 3.844e-11

> nobs(m5)
[1] 210
> summary(m6)

Call:
lm(formula = model, data = data1[data1$parlement == 6, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.86931  0.01795  0.10077  0.12038  0.49402

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.87962    0.02864  30.711  < 2e-16 ***
religion.dum -0.39344    0.05592  -7.035 1.32e-10 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2717 on 120 degrees of freedom
Multiple R-squared:  0.292,
  Adjusted R-squared:  0.2861
F-statistic: 49.49 on 1 and 120 DF,  p-value: 1.325e-10

> nobs(m6)
[1] 122
> summary(m7)

Call:
lm(formula = model, data = data1[data1$parlement == 7, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.53842 -0.00965  0.04096  0.06158  0.32126

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.93842    0.01499  62.598  < 2e-16 ***
religion.dum -0.28670    0.03871  -7.407 2.11e-11 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1514 on 118 degrees of freedom
Multiple R-squared:  0.3174,
  Adjusted R-squared:  0.3116
F-statistic: 54.86 on 1 and 118 DF,  p-value: 2.105e-11

> nobs(m7)
[1] 120
> summary(m8)

Call:
lm(formula = model, data = data1[data1$parlement == 8, ])
```

```
Residuals:
     Min       1Q   Median       3Q      Max
-0.74863 -0.03390  0.08866  0.14792  0.31144

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.85208    0.02550  33.410   <2e-16 ***
religion.dum -0.16352    0.09656  -1.694   0.0941 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2281 on 84 degrees of freedom
Multiple R-squared:  0.03302,
  Adjusted R-squared:  0.0215
F-statistic: 2.868 on 1 and 84 DF,  p-value: 0.09406

> nobs(m8)
[1] 86
> summary(m9)

Call:
lm(formula = model, data = data1[data1$parlement == 9, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.80350  0.02615  0.05766  0.09650  0.24740

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.90350    0.01994  45.320  < 2e-16 ***
religion.dum -0.37312    0.08552  -4.363 3.41e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.186 on 90 degrees of freedom
Multiple R-squared:  0.1746,
  Adjusted R-squared:  0.1654
F-statistic: 19.04 on 1 and 90 DF,  p-value: 3.408e-05

> nobs(m9)
[1] 92
> summary(m10)

Call:
lm(formula = model, data = data1[data1$parlement == 10, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.69954 -0.00773  0.05601  0.06537  0.28158

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.89954    0.01536  58.579  < 2e-16 ***
religion.dum -0.23376    0.05822  -4.015 0.000107 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1588 on 113 degrees of freedom
Multiple R-squared:  0.1248,
  Adjusted R-squared:  0.1171
F-statistic: 16.12 on 1 and 113 DF,  p-value: 0.0001073

> nobs(m10)
[1] 115
> summary(m11)

Call:
lm(formula = model, data = data1[data1$parlement == 11, ])

Residuals:
```

```
     Min       1Q   Median       3Q      Max
-0.70506  0.06384  0.07119  0.07467  0.10345

Coefficients: (1 not defined because of singularities)
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.89655    0.02604   34.43   <2e-16 ***
religion.dum       NA         NA      NA       NA
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2 on 58 degrees of freedom

> nobs(m11)
[1] 59
> summary(m12)

Call:
lm(formula = model, data = data1[data1$parlement == 12, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.57757 -0.00755  0.01806  0.02303  0.22243

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.957549   0.007481 127.997  < 2e-16 ***
religion.dum -0.179977   0.027430  -6.561 1.45e-09 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.07917 on 119 degrees of freedom
Multiple R-squared:  0.2657,
  Adjusted R-squared:  0.2595
F-statistic: 43.05 on 1 and 119 DF,  p-value: 1.454e-09

> nobs(m12)
[1] 121
> summary(m13)

Call:
lm(formula = model, data = data1[data1$parlement == 13, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.88411 -0.04627  0.05589  0.09316  0.29185

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.88411    0.01901  46.518   <2e-16 ***
religion.dum -0.17596    0.09375  -1.877   0.0646 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.159 on 71 degrees of freedom
Multiple R-squared:  0.04727,
  Adjusted R-squared:  0.03385
F-statistic: 3.523 on 1 and 71 DF,  p-value: 0.06464

> nobs(m13)
[1] 73
> summary(m14)

Call:
lm(formula = model, data = data1[data1$parlement == 14, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.77372  0.00864  0.12628  0.12628  0.27893

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

```
(Intercept)   0.87372    0.02878  30.357   <2e-16 ***
religion.dum -0.26693    0.10833  -2.464   0.0158 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2558 on 83 degrees of freedom
Multiple R-squared:  0.06817,
  Adjusted R-squared:  0.05694
F-statistic: 6.072 on 1 and 83 DF,  p-value: 0.0158

> nobs(m14)
[1] 85
> summary(m16)

Call:
lm(formula = model, data = data1[data1$parlement == 16, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.87180  0.02562  0.06937  0.06937  0.20586

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.93063    0.02427   38.35  < 2e-16 ***
religion.dum -0.13648    0.04706   -2.90  0.00466 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2016 on 92 degrees of freedom
Multiple R-squared:  0.08377,
  Adjusted R-squared:  0.07382
F-statistic: 8.412 on 1 and 92 DF,  p-value: 0.004662

> nobs(m16)
[1] 94
>
> #
>
> mm1 <- coeftest(m1, vcov = vcovHAC(m1))
> mm1

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.708174   0.021579 32.8179 < 2.2e-16 ***
religion.dum -0.346275   0.090535 -3.8248 0.0001613 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm2 <- coeftest(m2, vcov = vcovHAC(m2))
> mm2

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.907075   0.039404  23.020 < 2.2e-16 ***
religion.dum -0.837862   0.042300 -19.807 < 2.2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm3 <- coeftest(m3, vcov = vcovHAC(m3))
> mm3

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.651292   0.034714 18.7617 < 2.2e-16 ***
religion.dum -0.305333   0.067965 -4.4925 1.582e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> mm4 <- coeftest(m4, vcov = vcovHAC(m4))
> mm4

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.888119   0.022002 40.3652 < 2.2e-16 ***
religion.dum -0.357999   0.049181 -7.2791 2.258e-11 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm5 <- coeftest(m5, vcov = vcovHAC(m5))
> mm5

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.868053   0.020737 41.8611 < 2.2e-16 ***
religion.dum -0.313897   0.051299 -6.1189 4.612e-09 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm6 <- coeftest(m6, vcov = vcovHAC(m6))
> mm6

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.879616   0.030416  28.920 < 2.2e-16 ***
religion.dum -0.393442   0.056955  -6.908 2.521e-10 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm7 <- coeftest(m7, vcov = vcovHAC(m7))
> mm7

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.938417   0.012699 73.8977 < 2.2e-16 ***
religion.dum -0.286703   0.084315 -3.4004 0.0009189 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm8 <- coeftest(m8, vcov = vcovHAC(m8))
> mm8

t test of coefficients:

              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.852082   0.026618 32.0119   <2e-16 ***
religion.dum -0.163522   0.119549 -1.3678    0.175
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm9 <- coeftest(m9, vcov = vcovHAC(m9))
> mm9

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.903501   0.020100 44.9509 < 2.2e-16 ***
religion.dum -0.373125   0.089108 -4.1873 6.565e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm10 <- coeftest(m10, vcov = vcovHAC(m10))
> mm10

t test of coefficients:
```

```
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.899545   0.016245 55.3720  < 2e-16 ***
religion.dum -0.233758   0.091756 -2.5476  0.01219 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm11 <- coeftest(m11, vcov = vcovHAC(m11))
> mm11

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.896552   0.025335  35.387 < 2.2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm12 <- coeftest(m12, vcov = vcovHAC(m12))
> mm12

t test of coefficients:

               Estimate Std. Error  t value Pr(>|t|)
(Intercept)   0.9575487  0.0048391 197.8771  < 2e-16 ***
religion.dum -0.1799766  0.0871363  -2.0655  0.04105 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm13 <- coeftest(m13, vcov = vcovHAC(m13))
> mm13

t test of coefficients:

             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.884112   0.018549 47.6631   <2e-16 ***
religion.dum -0.175964   0.134572 -1.3076   0.1952
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm14 <- coeftest(m14, vcov = vcovHAC(m14))
> mm14

t test of coefficients:

             Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.873715   0.029798 29.3216 < 2.2e-16 ***
religion.dum -0.266933   0.098470 -2.7108  0.008155 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm16 <- coeftest(m16, vcov = vcovHAC(m16))
> mm16

t test of coefficients:

             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.930626   0.022292 41.7465   <2e-16 ***
religion.dum -0.136484   0.064798 -2.1063   0.0379 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #
>
> coef <- mm1[2,1]
> se <- mm1[2,2]
> conf1 <- coef + c(-1,1)*se*qt(0.975, m1$df.residual)
> conf1 <- c(conf1,coef,"1st (1867-1872)")
> coef <- mm2[2,1]
> se <- mm2[2,2]
> conf2 <- coef + c(-1,1)*se*qt(0.975, m2$df.residual)
> conf2 <- c(conf2,coef,"2nd (1872-1874)")
```

```
> coef <- mm3[2,1]
> se <- mm3[2,2]
> conf3 <- coef + c(-1,1)*se*qt(0.975, m3$df.residual)
> conf3 <- c(conf3,coef,"3rd (1874-1878)")
> coef <- mm4[2,1]
> se <- mm4[2,2]
> conf4 <- coef + c(-1,1)*se*qt(0.975, m4$df.residual)
> conf4 <- c(conf4,coef,"4th (1879-1882)")
> coef <- mm5[2,1]
> se <- mm5[2,2]
> conf5 <- coef + c(-1,1)*se*qt(0.975, m5$df.residual)
> conf5 <- c(conf5,coef,"5th (1883-1887)")
> coef <- mm6[2,1]
> se <- mm6[2,2]
> conf6 <- coef + c(-1,1)*se*qt(0.975, m6$df.residual)
> conf6 <- c(conf6,coef,"6th (1887-1891)")
> coef <- mm7[2,1]
> se <- mm7[2,2]
> conf7 <- coef + c(-1,1)*se*qt(0.975, m7$df.residual)
> conf7 <- c(conf7,coef,"7th (1891-1896)")
> coef <- mm8[2,1]
> se <- mm8[2,2]
> conf8 <- coef + c(-1,1)*se*qt(0.975, m8$df.residual)
> conf8 <- c(conf8,coef,"8th (1896-1900)")
> coef <- mm9[2,1]
> se <- mm9[2,2]
> conf9 <- coef + c(-1,1)*se*qt(0.975, m9$df.residual)
> conf9 <- c(conf9,coef,"9th (1901-1904)")
> coef <- mm10[2,1]
> se <- mm10[2,2]
> conf10 <- coef + c(-1,1)*se*qt(0.975, m10$df.residual)
> conf10 <- c(conf10,coef,"10th (1905-1908)")
> #coef <- mm11[2,1]
> #se <- mm11[2,2]
> #conf11 <- coef + c(-1,1)*se*qt(0.975, m11$df.residual)
> #conf11 <- c(conf11,coef,"11th (1909-1911)")
> coef <- mm12[2,1]
> se <- mm12[2,2]
> conf12 <- coef + c(-1,1)*se*qt(0.975, m12$df.residual)
> conf12 <- c(conf12,coef,"12th (1911-1917)")
> coef <- mm13[2,1]
> se <- mm13[2,2]
> conf13 <- coef + c(-1,1)*se*qt(0.975, m13$df.residual)
> conf13 <- c(conf13,coef,"13th (1917-1921)")
> coef <- mm14[2,1]
> se <- mm14[2,2]
> conf14 <- coef + c(-1,1)*se*qt(0.975, m14$df.residual)
> conf14 <- c(conf14,coef,"14th (1921-1925)")
> coef <- mm16[2,1]
> se <- mm16[2,2]
> conf16 <- coef + c(-1,1)*se*qt(0.975, m16$df.residual)
> conf16 <- c(conf16,coef,"16th (1926-1930)")
>
> all1 <- rbind(conf16,conf14,conf13,conf12,conf10,conf9,conf8,conf7,conf6,conf5,conf4,conf3,conf2,conf1)
>
> #
>
> model <- m6.2.1b
> m1 <- lm(model,data=data1[data1$parlement==1,],)
> m2 <- lm(model,data=data1[data1$parlement==2,],)
> m3 <- lm(model,data=data1[data1$parlement==3,],)
> m4 <- lm(model,data=data1[data1$parlement==4,],)
> m5 <- lm(model,data=data1[data1$parlement==5,],)
> m6 <- lm(model,data=data1[data1$parlement==6,],)
> m7 <- lm(model,data=data1[data1$parlement==7,],)
> m8 <- lm(model,data=data1[data1$parlement==8,],)
> m9 <- lm(model,data=data1[data1$parlement==9,],)
> m10 <- lm(model,data=data1[data1$parlement==10,],)
> m11 <- lm(model,data=data1[data1$parlement==11,],)
> m12 <- lm(model,data=data1[data1$parlement==12,],)
> m13 <- lm(model,data=data1[data1$parlement==13,],)
```

```
> m14 <- lm(model,data=data1[data1$parlement==14,],)
> #m15 <- lm(model,data=data1[data1$parlement==15,],)
> m16 <- lm(model,data=data1[data1$parlement==16,],)
>
> #Print results Conservatives Budget
>
> summary(m1)

Call:
lm(formula = model, data = data1[data1$parlement == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.73147 -0.16507  0.08394  0.21908  0.39163

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.73147    0.02115  34.577  < 2e-16 ***
budget.dum  -0.12310    0.03440  -3.578 0.000408 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2807 on 281 degrees of freedom
Multiple R-squared:  0.04357,
  Adjusted R-squared:  0.04017
F-statistic:  12.8 on 1 and 281 DF,  p-value: 0.0004077

> nobs(m1)
[1] 283
> summary(m2)

Call:
lm(formula = model, data = data1[data1$parlement == 2, ])

Residuals:
    Min      1Q  Median      3Q     Max
-0.7200 -0.2081  0.2231  0.2530  0.2530

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.74704    0.06611  11.300 1.48e-13 ***
budget.dum   0.06270    0.16855   0.372    0.712
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.3798 on 37 degrees of freedom
Multiple R-squared:  0.003726,
  Adjusted R-squared:  -0.0232
F-statistic: 0.1384 on 1 and 37 DF,  p-value: 0.712

> nobs(m2)
[1] 39
> summary(m3)

Call:
lm(formula = model, data = data1[data1$parlement == 3, ])

Residuals:
    Min      1Q  Median      3Q     Max
-0.6071 -0.2867  0.1002  0.2719  0.4752

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.52480    0.03457  15.182   <2e-16 ***
budget.dum   0.10792    0.05682   1.899   0.0598 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.3092 on 125 degrees of freedom
Multiple R-squared:  0.02805,
  Adjusted R-squared:  0.02027
```

```
F-statistic: 3.607 on 1 and 125 DF,  p-value: 0.05984

> nobs(m3)
[1] 127
> summary(m4)

Call:
lm(formula = model, data = data1[data1$parlement == 4, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.71413 -0.00642  0.11616  0.11949  0.19092

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.86356    0.02324  37.161   <2e-16 ***
budget.dum  -0.05448    0.04664  -1.168    0.245
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2393 on 139 degrees of freedom
Multiple R-squared:  0.00972,
  Adjusted R-squared:  0.002596
F-statistic: 1.364 on 1 and 139 DF,  p-value: 0.2448

> nobs(m4)
[1] 141
> summary(m5)

Call:
lm(formula = model, data = data1[data1$parlement == 5, ])

Residuals:
    Min      1Q  Median      3Q     Max
-0.7652 -0.1238  0.1469  0.2238  0.2238

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.77618    0.02166  35.827  < 2e-16 ***
budget.dum   0.20121    0.06851   2.937  0.00369 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2978 on 208 degrees of freedom
Multiple R-squared:  0.03982,
  Adjusted R-squared:  0.0352
F-statistic: 8.626 on 1 and 208 DF,  p-value: 0.003687

> nobs(m5)
[1] 210
> summary(m6)

Call:
lm(formula = model, data = data1[data1$parlement == 6, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.93023 -0.10065  0.03406  0.26346  0.31263

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.6874     0.0324  21.216  < 2e-16 ***
budget.dum    0.2786     0.0573   4.861 3.57e-06 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2952 on 120 degrees of freedom
Multiple R-squared:  0.1645,
  Adjusted R-squared:  0.1576
F-statistic: 23.63 on 1 and 120 DF,  p-value: 3.568e-06
```

```
> nobs(m6)
[1] 122
> summary(m7)

Call:
lm(formula = model, data = data1[data1$parlement == 7, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.69317  0.00818  0.03814  0.10860  0.12875

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.87125    0.01905  45.726   <2e-16 ***
budget.dum   0.09061    0.03690   2.456   0.0155 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1787 on 118 degrees of freedom
Multiple R-squared:  0.04862,
  Adjusted R-squared:  0.04056
F-statistic: 6.031 on 1 and 118 DF,  p-value: 0.01551

> nobs(m7)
[1] 120
> summary(m8)

Call:
lm(formula = model, data = data1[data1$parlement == 8, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.74243 -0.00779  0.09393  0.12862  0.18766

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.81234    0.02942  27.616   <2e-16 ***
budget.dum   0.09373    0.05350   1.752   0.0834 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2279 on 84 degrees of freedom
Multiple R-squared:  0.03525,
  Adjusted R-squared:  0.02377
F-statistic:  3.07 on 1 and 84 DF,  p-value: 0.08342

> nobs(m8)
[1] 86
> summary(m9)

Call:
lm(formula = model, data = data1[data1$parlement == 9, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.74156 -0.02471  0.03479  0.12438  0.15844

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.84156    0.02509  33.542  < 2e-16 ***
budget.dum   0.12365    0.04322   2.861  0.00525 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.196 on 90 degrees of freedom
Multiple R-squared:  0.08335,
  Adjusted R-squared:  0.07317
F-statistic: 8.184 on 1 and 90 DF,  p-value: 0.005254

> nobs(m9)
[1] 92
```

```
> summary(m10)

Call:
lm(formula = model, data = data1[data1$parlement == 10, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.68888 -0.03274  0.06322  0.09581  0.13465

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.86535    0.01730  50.032   <2e-16 ***
budget.dum   0.08968    0.03867   2.319   0.0222 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1659 on 113 degrees of freedom
Multiple R-squared:  0.04542,
  Adjusted R-squared:  0.03697
F-statistic: 5.377 on 1 and 113 DF,  p-value: 0.0222

> nobs(m10)
[1] 115
> summary(m11)

Call:
lm(formula = model, data = data1[data1$parlement == 11, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.68927  0.01698  0.08287  0.09025  0.11924

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.88076    0.02977  29.587   <2e-16 ***
budget.dum   0.06653    0.06111   1.089    0.281
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1997 on 57 degrees of freedom
Multiple R-squared:  0.02037,
  Adjusted R-squared:  0.003186
F-statistic: 1.185 on 1 and 57 DF,  p-value: 0.2808

> nobs(m11)
[1] 59
> summary(m12)

Call:
lm(formula = model, data = data1[data1$parlement == 12, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.74067 -0.01384  0.02707  0.03686  0.05933

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.940671   0.008973  104.83   <2e-16 ***
budget.dum  0.026398   0.024676    1.07    0.287
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.09195 on 119 degrees of freedom
Multiple R-squared:  0.009525,
  Adjusted R-squared:  0.001202
F-statistic: 1.144 on 1 and 119 DF,  p-value: 0.2869

> nobs(m12)
[1] 121
> summary(m13)
```

```
Call:
lm(formula = model, data = data1[data1$parlement == 13, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.87451 -0.04277  0.06549  0.09985  0.12549

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.87451    0.02085   41.95   <2e-16 ***
budget.dum   0.01441    0.05142    0.28     0.78
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1628 on 71 degrees of freedom
Multiple R-squared:  0.001105,
  Adjusted R-squared:  -0.01296
F-statistic: 0.07852 on 1 and 71 DF,  p-value: 0.7801

> nobs(m13)
[1] 73
> summary(m14)

Call:
lm(formula = model, data = data1[data1$parlement == 14, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.77903 -0.02136  0.12097  0.16046  0.16046

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.83954    0.03665  22.907   <2e-16 ***
budget.dum   0.03949    0.05882   0.671    0.504
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2643 on 83 degrees of freedom
Multiple R-squared:  0.005402,
  Adjusted R-squared:  -0.006581
F-statistic: 0.4508 on 1 and 83 DF,  p-value: 0.5038

> nobs(m14)
[1] 85
> summary(m16)

Call:
lm(formula = model, data = data1[data1$parlement == 16, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.78314 -0.00533  0.01740  0.15804  0.15804

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.84196    0.02592  32.487  < 2e-16 ***
budget.dum   0.14064    0.04247   3.311  0.00133 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1991 on 92 degrees of freedom
Multiple R-squared:  0.1065,
  Adjusted R-squared:  0.09677
F-statistic: 10.96 on 1 and 92 DF,  p-value: 0.001328

> nobs(m16)
[1] 94
>
> #
>
> mm1 <- coeftest(m1, vcov = vcovHAC(m1))
```

```
> mm1

t test of coefficients:

             Estimate Std. Error t value  Pr(>|t|)
(Intercept)  0.731468   0.024333 30.0602 < 2.2e-16 ***
budget.dum  -0.123096   0.043988 -2.7984  0.005491 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm2 <- coeftest(m2, vcov = vcovHAC(m2))
> mm2

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.747043   0.083215  8.9773 7.975e-11 ***
budget.dum  0.062699   0.152962  0.4099    0.6842
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm3 <- coeftest(m3, vcov = vcovHAC(m3))
> mm3

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.524803   0.040128 13.0781  < 2e-16 ***
budget.dum  0.107916   0.057028  1.8923  0.06076 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm4 <- coeftest(m4, vcov = vcovHAC(m4))
> mm4

t test of coefficients:

             Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.863558   0.030307 28.4937   <2e-16 ***
budget.dum  -0.054481   0.064026 -0.8509   0.3963
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm5 <- coeftest(m5, vcov = vcovHAC(m5))
> mm5

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.776183   0.022297 34.8109 < 2.2e-16 ***
budget.dum  0.201214   0.026211  7.6767 6.258e-13 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm6 <- coeftest(m6, vcov = vcovHAC(m6))
> mm6

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.687366   0.042149 16.3081 < 2.2e-16 ***
budget.dum  0.278573   0.048086  5.7933  5.67e-08 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm7 <- coeftest(m7, vcov = vcovHAC(m7))
> mm7

t test of coefficients:

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

```
(Intercept) 0.871248   0.022315 39.0433 < 2.2e-16 ***
budget.dum  0.090612   0.028951  3.1298  0.002205 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm8 <- coeftest(m8, vcov = vcovHAC(m8))
> mm8

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.812337   0.028242 28.7636  < 2e-16 ***
budget.dum  0.093728   0.055712  1.6824  0.09621 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm9 <- coeftest(m9, vcov = vcovHAC(m9))
> mm9

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.841558   0.034904 24.1108 < 2.2e-16 ***
budget.dum  0.123650   0.035498  3.4833 0.0007669 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm10 <- coeftest(m10, vcov = vcovHAC(m10))
> mm10

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.865348   0.022518 38.4284 < 2.2e-16 ***
budget.dum  0.089678   0.023081  3.8853 0.0001727 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm11 <- coeftest(m11, vcov = vcovHAC(m11))
> mm11

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.880764   0.031586 27.8848  < 2e-16 ***
budget.dum  0.066534   0.034698  1.9176  0.06018 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm12 <- coeftest(m12, vcov = vcovHAC(m12))
> mm12

t test of coefficients:

             Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.9406714  0.0094833 99.1926   <2e-16 ***
budget.dum  0.0263977  0.0161954  1.6299   0.1058
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm13 <- coeftest(m13, vcov = vcovHAC(m13))
> mm13

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.874512   0.022558 38.7677   <2e-16 ***
budget.dum  0.014408   0.034136  0.4221   0.6742
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> mm14 <- coeftest(m14, vcov = vcovHAC(m14))
> mm14

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.839539   0.044104 19.0357   <2e-16 ***
budget.dum  0.039495   0.062311  0.6338   0.5279
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm16 <- coeftest(m16, vcov = vcovHAC(m16))
> mm16

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.841961   0.032454 25.9430 < 2.2e-16 ***
budget.dum  0.140639   0.033526  4.1949  6.28e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
>
> #
>
> coef <- mm1[2,1]
> se <- mm1[2,2]
> conf1 <- coef + c(-1,1)*se*qt(0.975, m1$df.residual)
> conf1 <- c(conf1,coef,"1st (1867-1872)")
> coef <- mm2[2,1]
> se <- mm2[2,2]
> conf2 <- coef + c(-1,1)*se*qt(0.975, m2$df.residual)
> conf2 <- c(conf2,coef,"2nd (1872-1874)")
> coef <- mm3[2,1]
> se <- mm3[2,2]
> conf3 <- coef + c(-1,1)*se*qt(0.975, m3$df.residual)
> conf3 <- c(conf3,coef,"3rd (1874-1878)")
> coef <- mm4[2,1]
> se <- mm4[2,2]
> conf4 <- coef + c(-1,1)*se*qt(0.975, m4$df.residual)
> conf4 <- c(conf4,coef,"4th (1879-1882)")
> coef <- mm5[2,1]
> se <- mm5[2,2]
> conf5 <- coef + c(-1,1)*se*qt(0.975, m5$df.residual)
> conf5 <- c(conf5,coef,"5th (1883-1887)")
> coef <- mm6[2,1]
> se <- mm6[2,2]
> conf6 <- coef + c(-1,1)*se*qt(0.975, m6$df.residual)
> conf6 <- c(conf6,coef,"6th (1887-1891)")
> coef <- mm7[2,1]
> se <- mm7[2,2]
> conf7 <- coef + c(-1,1)*se*qt(0.975, m7$df.residual)
> conf7 <- c(conf7,coef,"7th (1891-1896)")
> coef <- mm8[2,1]
> se <- mm8[2,2]
> conf8 <- coef + c(-1,1)*se*qt(0.975, m8$df.residual)
> conf8 <- c(conf8,coef,"8th (1896-1900)")
> coef <- mm9[2,1]
> se <- mm9[2,2]
> conf9 <- coef + c(-1,1)*se*qt(0.975, m9$df.residual)
> conf9 <- c(conf9,coef,"9th (1901-1904)")
> coef <- mm10[2,1]
> se <- mm10[2,2]
> conf10 <- coef + c(-1,1)*se*qt(0.975, m10$df.residual)
> conf10 <- c(conf10,coef,"10th (1905-1908)")
> coef <- mm11[2,1]
> se <- mm11[2,2]
> conf11 <- coef + c(-1,1)*se*qt(0.975, m11$df.residual)
> conf11 <- c(conf11,coef,"11th (1909-1911)")
> coef <- mm12[2,1]
```

```
> se <- mm12[2,2]
> conf12 <- coef + c(-1,1)*se*qt(0.975, m12$df.residual)
> conf12 <- c(conf12,coef,"12th (1911-1917)")
> coef <- mm13[2,1]
> se <- mm13[2,2]
> conf13 <- coef + c(-1,1)*se*qt(0.975, m13$df.residual)
> conf13 <- c(conf13,coef,"13th (1917-1921)")
> coef <- mm14[2,1]
> se <- mm14[2,2]
> conf14 <- coef + c(-1,1)*se*qt(0.975, m14$df.residual)
> conf14 <- c(conf14,coef,"14th (1921-1925)")
> coef <- mm16[2,1]
> se <- mm16[2,2]
> conf16 <- coef + c(-1,1)*se*qt(0.975, m16$df.residual)
> conf16 <- c(conf16,coef,"16th (1926-1930)")
>
> all2 <-
rbind(conf16,conf14,conf13,conf12,conf11,conf10,conf9,conf8,conf7,conf6,conf5,conf4,conf3,conf2,conf1)
> alll2 <- rbind(conf16,conf14,conf13,conf12,conf10,conf9,conf8,conf7,conf6,conf5,conf4,conf3,conf2,conf1)
>
> ###
> ###GRAPHS
>
> all <- all1
> 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)
> #ggplot(all, aes(V1,xx, ymin = low,ymax = high))+
> #  scale_x_discrete('Parliament',limits=all$V1) +
> #  scale_y_continuous('95% Confidence Intervals for for Private Member Motions',limits=c(-1,.1)) +
> #  theme_bw() +
> #  geom_errorbar(aes(x = V1, y = coef),size=.3,width=.2) +
> #  geom_point(aes(x = V1, y = coef)) +
> #  geom_hline(yintercept=0) +
> #  coord_flip() +
> #  ggtitle("The Influence of Religion Motions on Party Unity")
>
> all <- all2
> colnames(all) <- c("low","high","coef","V1")
> all <- data.frame(all)
> all$low <- as.numeric(as.character(all$low))
> all$high <- as.numeric(as.character(all$high))
> all$coef <- as.numeric(as.character(all$coef))
>
> #ibrary(ggplot2)
> #ggplot(all, aes(V1,xx, ymin = low,ymax = high))+
> #  scale_x_discrete('Parliament',limits=all$V1) +
> #  scale_y_continuous('95% Confidence Intervals for for Private Member Motions',limits=c(-.4,.4)) +
> #  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("The Influence of Budget Motions on Party Unity")
>
> #
>
> a1 <- all1
> colnames(a1) <- c("low","high","coef","V1")
> a1 <- data.frame(a1)
> a1$low <- as.numeric(as.character(a1$low))
> a1$high <- as.numeric(as.character(a1$high))
> a1$coef <- as.numeric(as.character(a1$coef))
> a1$specification <- 1:14
> a1$method <- paste("Religion")
>
> a2 <- alll2
```

```
> colnames(a2) <- c("low","high","coef","V1")
> a2 <- data.frame(a2)
> a2$low <- as.numeric(as.character(a2$low))
> a2$high <- as.numeric(as.character(a2$high))
> a2$coef <- as.numeric(as.character(a2$coef))
> a2$specification <- 1:14
> a2$method <- paste("Budget")
>
> #ggplot combine for Conservatives
>
> all <- rbind(a1,a2)
> lab <- c("16th (1926-1930)","14th (1921-1925)","13th (1917-1921)","12th (1911-1917)","10th (1905-1908)","9th
(1901-1904)","8th (1896-1900)","7th (1891-1896)","6th (1887-1891)","5th (1883-1887)","4th (1879-1882)","3rd
(1874-1878)","2nd (1872-1874)","1st (1867-1872)")
> pd <- position_dodge(width=0.3)
>
> #tiff(file = "~/Dropbox/Canada-Manuscript/Figures-Final/Figure-6.2.1.jpg", width = 8, height = 8, units =
'in', res = 200)
> #ggplot(all, aes(specification,coef, color=method,ymin = low,ymax = high)) +
> #geom_point(aes(shape=method),size=2, position=pd) +
> #scale_color_manual(name="Type",values=c("black","gray")) +
> #scale_shape_manual(name="Type",values=c(16,16)) +
> #theme_bw() +
> #scale_x_discrete("Parliaments (1867-1930)", breaks=1:14, labels=lab,limits = c(1:14)) +
> #scale_y_continuous("95% Confidence Intervals by Types of Motions",limits = c(-1,.5)) +
> #geom_errorbar(aes(ymin=low,ymax=high),width=0.2,size=.3,position=pd)+
> #geom_hline(yintercept=0) +
> #ggtitle("Conservative MPs") +
> #theme(plot.title = element_text(hjust = 0.5)) +
> #coord_flip()
> #dev.off()
>
> ################
> #6.2.2 Liberals#
> ################
>
> data1 <- libs1
> data1 <- subset(data1,data1$topic!="Delete")
>
> data1$region.dum <-
ifelse(data1$transport==1,1,ifelse(data1$province==1,1,ifelse(data1$constitution==1,1,ifelse(data1$primary==1,1
,0))))
>
> data1$religion.dum <- ifelse(data1$religion==1,1,ifelse(data1$divorce==1,1,0))
>
> data1$budget.dum <-
ifelse(data1$budget==1,1,ifelse(data1$tariff==1,1,ifelse(data1$money==1,1,ifelse(data1$social==1,1,ifelse(data1
$admin==1,1,0)))))
>
> data1$foreign.dum <- ifelse(data1$defence==1,1,ifelse(data1$foreign==1,1,0))
>
> data1$democracy.dum <- ifelse(data1$dem.ref==1,1,ifelse(data1$election==1,1,ifelse(data1$corruption==1,1,0)))
>
> data1$immigration.dum <- ifelse(data1$immigration==1,1,0)
>
> data1$commerce.dum <- ifelse(data1$commerce==1,1,0)
>
> data1$justice.dum <- ifelse(data1$justice==1,1,0)
>
> data1$procedure <- ifelse(data1$topic=="Procedure",1,0)
>
>
> data1$topic.reg <-
ifelse(data1$region.dum==1,"region",ifelse(data1$religion.dum==1,"religion",ifelse(data1$budget.dum==1,"budget"
,ifelse(data1$foreign.dum==1,"foreign",ifelse(data1$democracy.dum==1,"democracy",ifelse(data1$procedure==1,"xpr
ocedure",ifelse(data1$immigration.dum==1,"immigration",ifelse(data1$commerce.dum==1,"commerce",ifelse(data1$jus
tice.dum==1,"justice",1)))))))))
>
> data1$type.f <- factor(data1$topic.reg)
> x <- length(levels(factor(data1$type.f)))
> contrasts(data1$type.f) = contr.sum(x)
```

```
>
> data1$parl1 <- ifelse(data1$parlement==1,1,0)
> data1$parl2 <- ifelse(data1$parlement==2,1,0)
> data1$parl3 <- ifelse(data1$parlement==3,1,0)
> data1$parl4 <- ifelse(data1$parlement==4,1,0)
> data1$parl5 <- ifelse(data1$parlement==5,1,0)
> data1$parl6 <- ifelse(data1$parlement==6,1,0)
> data1$parl7 <- ifelse(data1$parlement==7,1,0)
> data1$parl8 <- ifelse(data1$parlement==8,1,0)
> data1$parl9 <- ifelse(data1$parlement==9,1,0)
> data1$parl10 <- ifelse(data1$parlement==10,1,0)
> data1$parl11 <- ifelse(data1$parlement==11,1,0)
> data1$parl12 <- ifelse(data1$parlement==12,1,0)
> data1$parl13 <- ifelse(data1$parlement==13,1,0)
> data1$parl14 <- ifelse(data1$parlement==14,1,0)
> data1$parl15 <- ifelse(data1$parlement==15,1,0)
> data1$parl16 <- ifelse(data1$parlement==16,1,0)
>
> #not used
>
> m6.2.1 <- rice.bill ~ type.f + parl2 + parl3 + parl4 + parl5 + parl6 + parl7 + parl8 + parl9 + parl10 +
parl11 + parl12 + parl13 + parl14 + parl15 + parl16
>
> #used
>
> m6.2.1a <- rice.bill ~ religion.dum
> m6.2.1b <- rice.bill ~ budget.dum
>
> model <- m6.2.1
> m1 <- lm(model,data=data1)
> mm1 <- coeftest(m1, vcov = vcovHAC(m1))
>
> #
>
> model <- m6.2.1a
> m1 <- lm(model,data=data1[data1$parlement==1,],)
> m2 <- lm(model,data=data1[data1$parlement==2,],)
> m3 <- lm(model,data=data1[data1$parlement==3,],)
> m4 <- lm(model,data=data1[data1$parlement==4,],)
> m5 <- lm(model,data=data1[data1$parlement==5,],)
> m6 <- lm(model,data=data1[data1$parlement==6,],)
> m7 <- lm(model,data=data1[data1$parlement==7,],)
> m8 <- lm(model,data=data1[data1$parlement==8,],)
> m9 <- lm(model,data=data1[data1$parlement==9,],)
> m10 <- lm(model,data=data1[data1$parlement==10,],)
> m11 <- lm(model,data=data1[data1$parlement==11,],)
> m12 <- lm(model,data=data1[data1$parlement==12,],)
> m13 <- lm(model,data=data1[data1$parlement==13,],)
> m14 <- lm(model,data=data1[data1$parlement==14,],)
> #m15 <- lm(model,data=data1[data1$parlement==15,],)
> m16 <- lm(model,data=data1[data1$parlement==16,],)
>
> #Print results Liberals Religion
>
> summary(m1)

Call:
lm(formula = model, data = data1[data1$parlement == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.51158 -0.21760  0.03129  0.21480  0.48842

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.51158    0.01574   32.51   <2e-16 ***
religion.dum -0.13546    0.06074   -2.23   0.0265 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2557 on 281 degrees of freedom
```

```
Multiple R-squared:  0.01739,
  Adjusted R-squared:  0.0139
F-statistic: 4.974 on 1 and 281 DF,  p-value: 0.02652

> nobs(m1)
[1] 283
> summary(m2)

Call:
lm(formula = model, data = data1[data1$parlement == 2, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.60676 -0.06878 -0.01390  0.08066  0.41314

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.66390    0.02979   22.28  < 2e-16 ***
religion.dum -0.48730    0.07032   -6.93 3.52e-08 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1685 on 37 degrees of freedom
Multiple R-squared:  0.5648,
  Adjusted R-squared:  0.553
F-statistic: 48.02 on 1 and 37 DF,  p-value: 3.519e-08

> nobs(m2)
[1] 39
> summary(m3)

Call:
lm(formula = model, data = data1[data1$parlement == 3, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.60192 -0.17417  0.06415  0.14468  0.38431

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.80622    0.02233  36.097  < 2e-16 ***
religion.dum -0.19053    0.04195  -4.542  1.3e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2131 on 125 degrees of freedom
Multiple R-squared:  0.1417,
  Adjusted R-squared:  0.1348
F-statistic: 20.63 on 1 and 125 DF,  p-value: 1.295e-05

> nobs(m3)
[1] 127
> summary(m4)

Call:
lm(formula = model, data = data1[data1$parlement == 4, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.77590  0.02005  0.05708  0.10767  0.33204

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.79477    0.01995  39.834  < 2e-16 ***
religion.dum -0.17443    0.06117  -2.852  0.00502 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.224 on 139 degrees of freedom
Multiple R-squared:  0.05526,
  Adjusted R-squared:  0.04847
```

```
F-statistic: 8.131 on 1 and 139 DF,  p-value: 0.005015

> nobs(m4)
[1] 141
> summary(m5)

Call:
lm(formula = model, data = data1[data1$parlement == 5, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.82024 -0.00282  0.04553  0.09204  0.24538

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.90796    0.01529  59.389  < 2e-16 ***
religion.dum -0.15334    0.03198  -4.795 3.09e-06 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1946 on 208 degrees of freedom
Multiple R-squared:  0.09954,
  Adjusted R-squared:  0.09522
F-statistic: 22.99 on 1 and 208 DF,  p-value: 3.093e-06

> nobs(m5)
[1] 210
> summary(m6)

Call:
lm(formula = model, data = data1[data1$parlement == 6, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.80393 -0.02867  0.07776  0.11807  0.48213

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.84741    0.02835  29.895  < 2e-16 ***
religion.dum -0.32954    0.05535  -5.954 2.67e-08 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2689 on 120 degrees of freedom
Multiple R-squared:  0.228,
  Adjusted R-squared:  0.2216
F-statistic: 35.45 on 1 and 120 DF,  p-value: 2.67e-08

> nobs(m6)
[1] 122
> summary(m7)

Call:
lm(formula = model, data = data1[data1$parlement == 7, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.76789  0.02334  0.10548  0.14120  0.29113

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.85880    0.02433  35.302   <2e-16 ***
religion.dum -0.14993    0.06281  -2.387   0.0186 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2457 on 118 degrees of freedom
Multiple R-squared:  0.04606,
  Adjusted R-squared:  0.03798
F-statistic: 5.698 on 1 and 118 DF,  p-value: 0.01858
```

```
> nobs(m7)
[1] 120
> summary(m8)

Call:
lm(formula = model, data = data1[data1$parlement == 8, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.84142  0.00858  0.09608  0.09608  0.60360

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.90392    0.02428  37.227  < 2e-16 ***
religion.dum -0.50752    0.09193  -5.521 3.68e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2172 on 84 degrees of freedom
Multiple R-squared:  0.2662,
  Adjusted R-squared:  0.2575
F-statistic: 30.48 on 1 and 84 DF,  p-value: 3.681e-07

> nobs(m8)
[1] 86
> summary(m9)

Call:
lm(formula = model, data = data1[data1$parlement == 9, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.48289  0.00415  0.03324  0.03324  0.48316

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.96676    0.01361  71.029  < 2e-16 ***
religion.dum -0.47143    0.05838  -8.075 2.86e-12 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.127 on 90 degrees of freedom
Multiple R-squared:  0.4201,
  Adjusted R-squared:  0.4137
F-statistic:  65.2 on 1 and 90 DF,  p-value: 2.86e-12

> nobs(m9)
[1] 92
> summary(m10)

Call:
lm(formula = model, data = data1[data1$parlement == 10, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.45898 -0.00285  0.01525  0.01525  0.15030

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.984749   0.006111 161.139  < 2e-16 ***
religion.dum -0.135050   0.023170  -5.829 5.38e-08 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.06321 on 113 degrees of freedom
Multiple R-squared:  0.2312,
  Adjusted R-squared:  0.2243
F-statistic: 33.97 on 1 and 113 DF,  p-value: 5.379e-08

> nobs(m10)
[1] 115
```

```
> summary(m11)

Call:
lm(formula = model, data = data1[data1$parlement == 11, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.68249  0.02719  0.02719  0.02719  0.02719

Coefficients: (1 not defined because of singularities)
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.97281    0.01543   63.04   <2e-16 ***
religion.dum       NA         NA      NA       NA
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1185 on 58 degrees of freedom

> nobs(m11)
[1] 59
> summary(m12)

Call:
lm(formula = model, data = data1[data1$parlement == 12, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.93862  0.01138  0.06138  0.06138  0.40689

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.93862    0.01735  54.093  < 2e-16 ***
religion.dum -0.34551    0.06362  -5.431 3.02e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1836 on 119 degrees of freedom
Multiple R-squared:  0.1986,
  Adjusted R-squared:  0.1919
F-statistic: 29.49 on 1 and 119 DF,  p-value: 3.018e-07

> nobs(m12)
[1] 121
> summary(m13)

Call:
lm(formula = model, data = data1[data1$parlement == 13, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.89442  0.02863  0.05640  0.05640  0.15152

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.94360    0.02131  44.279   <2e-16 ***
religion.dum -0.24326    0.10512  -2.314   0.0236 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1783 on 71 degrees of freedom
Multiple R-squared:  0.07013,
  Adjusted R-squared:  0.05704
F-statistic: 5.355 on 1 and 71 DF,  p-value: 0.02356

> nobs(m13)
[1] 73
> summary(m14)

Call:
lm(formula = model, data = data1[data1$parlement == 14, ])
```

```
Residuals:
     Min       1Q   Median       3Q      Max
-0.68459  0.00417  0.06051  0.08012  0.15660

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.91988    0.01720  53.480  < 2e-16 ***
religion.dum -0.43759    0.06474  -6.759 1.79e-09 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1529 on 83 degrees of freedom
Multiple R-squared:  0.355,
  Adjusted R-squared:  0.3472
F-statistic: 45.69 on 1 and 83 DF,  p-value: 1.792e-09

> nobs(m14)
[1] 85
> summary(m16)

Call:
lm(formula = model, data = data1[data1$parlement == 16, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.87627  0.01289  0.08669  0.08669  0.33539

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.91331    0.02345   38.94   <2e-16 ***
religion.dum -0.51536    0.04548  -11.33   <2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1948 on 92 degrees of freedom
Multiple R-squared:  0.5826,
  Adjusted R-squared:  0.5781
F-statistic: 128.4 on 1 and 92 DF,  p-value: < 2.2e-16

> nobs(m16)
[1] 94
>
> #
>
> mm1 <- coeftest(m1, vcov = vcovHAC(m1))
> mm1

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.511581   0.018948 26.9989 < 2.2e-16 ***
religion.dum -0.135461   0.048585 -2.7881  0.005663 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm2 <- coeftest(m2, vcov = vcovHAC(m2))
> mm2

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.663904   0.032591 20.3706 < 2.2e-16 ***
religion.dum -0.487303   0.078997 -6.1686 3.713e-07 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm3 <- coeftest(m3, vcov = vcovHAC(m3))
> mm3

t test of coefficients:
```

```
              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.806219   0.022240 36.2501 < 2.2e-16 ***
religion.dum -0.190529   0.070536 -2.7012  0.007869 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm4 <- coeftest(m4, vcov = vcovHAC(m4))
> mm4

t test of coefficients:

              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.794770   0.022819 34.8292  < 2e-16 ***
religion.dum -0.174431   0.071766 -2.4305  0.01635 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm5 <- coeftest(m5, vcov = vcovHAC(m5))
> mm5

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.907956   0.011756  77.232 < 2.2e-16 ***
religion.dum -0.153340   0.044771  -3.425 0.0007405 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm6 <- coeftest(m6, vcov = vcovHAC(m6))
> mm6

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.847410   0.028565 29.6656 < 2.2e-16 ***
religion.dum -0.329543   0.078979 -4.1726 5.727e-05 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm7 <- coeftest(m7, vcov = vcovHAC(m7))
> mm7

t test of coefficients:

              Estimate Std. Error t value Pr(>|t|)
(Intercept)   0.858803   0.026554 32.3416   <2e-16 ***
religion.dum -0.149931   0.081819 -1.8325   0.0694 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm8 <- coeftest(m8, vcov = vcovHAC(m8))
> mm8

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.903923   0.023646 38.2271 < 2.2e-16 ***
religion.dum -0.507522   0.166358 -3.0508  0.003054 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm9 <- coeftest(m9, vcov = vcovHAC(m9))
> mm9

t test of coefficients:

               Estimate Std. Error  t value  Pr(>|t|)
(Intercept)   0.9667605  0.0089949 107.4790 < 2.2e-16 ***
religion.dum -0.4714286  0.1521331  -3.0988  0.002593 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> mm10 <- coeftest(m10, vcov = vcovHAC(m10))
> mm10

t test of coefficients:

               Estimate Std. Error  t value Pr(>|t|)
(Intercept)   0.9847485  0.0049171 200.2682  < 2e-16 ***
religion.dum -0.1350503  0.0549895  -2.4559  0.01557 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm11 <- coeftest(m11, vcov = vcovHAC(m11))
> mm11

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.972808   0.015194  64.027 < 2.2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm12 <- coeftest(m12, vcov = vcovHAC(m12))
> mm12

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.938620   0.017287 54.2957 < 2.2e-16 ***
religion.dum -0.345512   0.119964 -2.8801  0.004716 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm13 <- coeftest(m13, vcov = vcovHAC(m13))
> mm13

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.943596   0.021535 43.8175 < 2.2e-16 ***
religion.dum -0.243259   0.076342 -3.1864  0.002142 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm14 <- coeftest(m14, vcov = vcovHAC(m14))
> mm14

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.919884   0.018134  50.727 < 2.2e-16 ***
religion.dum -0.437594   0.041907 -10.442 < 2.2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm16 <- coeftest(m16, vcov = vcovHAC(m16))
> mm16

t test of coefficients:

              Estimate Std. Error t value  Pr(>|t|)
(Intercept)   0.913306   0.022897  39.887 < 2.2e-16 ***
religion.dum -0.515362   0.045721 -11.272 < 2.2e-16 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #
>
> coef <- mm1[2,1]
> se <- mm1[2,2]
```

```
> conf1 <- coef + c(-1,1)*se*qt(0.975, m1$df.residual)
> conf1 <- c(conf1,coef,"1st (1867-1872)")
> coef <- mm2[2,1]
> se <- mm2[2,2]
> conf2 <- coef + c(-1,1)*se*qt(0.975, m2$df.residual)
> conf2 <- c(conf2,coef,"2nd (1872-1874)")
> coef <- mm3[2,1]
> se <- mm3[2,2]
> conf3 <- coef + c(-1,1)*se*qt(0.975, m3$df.residual)
> conf3 <- c(conf3,coef,"3rd (1874-1878)")
> coef <- mm4[2,1]
> se <- mm4[2,2]
> conf4 <- coef + c(-1,1)*se*qt(0.975, m4$df.residual)
> conf4 <- c(conf4,coef,"4th (1879-1882)")
> coef <- mm5[2,1]
> se <- mm5[2,2]
> conf5 <- coef + c(-1,1)*se*qt(0.975, m5$df.residual)
> conf5 <- c(conf5,coef,"5th (1883-1887)")
> coef <- mm6[2,1]
> se <- mm6[2,2]
> conf6 <- coef + c(-1,1)*se*qt(0.975, m6$df.residual)
> conf6 <- c(conf6,coef,"6th (1887-1891)")
> coef <- mm7[2,1]
> se <- mm7[2,2]
> conf7 <- coef + c(-1,1)*se*qt(0.975, m7$df.residual)
> conf7 <- c(conf7,coef,"7th (1891-1896)")
> coef <- mm8[2,1]
> se <- mm8[2,2]
> conf8 <- coef + c(-1,1)*se*qt(0.975, m8$df.residual)
> conf8 <- c(conf8,coef,"8th (1896-1900)")
> coef <- mm9[2,1]
> se <- mm9[2,2]
> conf9 <- coef + c(-1,1)*se*qt(0.975, m9$df.residual)
> conf9 <- c(conf9,coef,"9th (1901-1904)")
> coef <- mm10[2,1]
> se <- mm10[2,2]
> conf10 <- coef + c(-1,1)*se*qt(0.975, m10$df.residual)
> conf10 <- c(conf10,coef,"10th (1905-1908)")
> #coef <- mm11[2,1]
> #se <- mm11[2,2]
> #conf11 <- coef + c(-1,1)*se*qt(0.975, m11$df.residual)
> #conf11 <- c(conf11,coef,"11th (1909-1911)")
> coef <- mm12[2,1]
> se <- mm12[2,2]
> conf12 <- coef + c(-1,1)*se*qt(0.975, m12$df.residual)
> conf12 <- c(conf12,coef,"12th (1911-1917)")
> coef <- mm13[2,1]
> se <- mm13[2,2]
> conf13 <- coef + c(-1,1)*se*qt(0.975, m13$df.residual)
> conf13 <- c(conf13,coef,"13th (1917-1921)")
> coef <- mm14[2,1]
> se <- mm14[2,2]
> conf14 <- coef + c(-1,1)*se*qt(0.975, m14$df.residual)
> conf14 <- c(conf14,coef,"14th (1921-1925)")
> coef <- mm16[2,1]
> se <- mm16[2,2]
> conf16 <- coef + c(-1,1)*se*qt(0.975, m16$df.residual)
> conf16 <- c(conf16,coef,"16th (1926-1930)")
>
> all1 <- rbind(conf16,conf14,conf13,conf12,conf10,conf9,conf8,conf7,conf6,conf5,conf4,conf3,conf2,conf1)
>
> #
>
> model <- m6.2.1b
> m1 <- lm(model,data=data1[data1$parlement==1,],)
> m2 <- lm(model,data=data1[data1$parlement==2,],)
> m3 <- lm(model,data=data1[data1$parlement==3,],)
> m4 <- lm(model,data=data1[data1$parlement==4,],)
> m5 <- lm(model,data=data1[data1$parlement==5,],)
> m6 <- lm(model,data=data1[data1$parlement==6,],)
> m7 <- lm(model,data=data1[data1$parlement==7,],)
```

```
> m8 <- lm(model,data=data1[data1$parlement==8,],)
> m9 <- lm(model,data=data1[data1$parlement==9,],)
> m10 <- lm(model,data=data1[data1$parlement==10,],)
> m11 <- lm(model,data=data1[data1$parlement==11,],)
> m12 <- lm(model,data=data1[data1$parlement==12,],)
> m13 <- lm(model,data=data1[data1$parlement==13,],)
> m14 <- lm(model,data=data1[data1$parlement==14,],)
> #m15 <- lm(model,data=data1[data1$parlement==15,],)
> m16 <- lm(model,data=data1[data1$parlement==16,],)
>
> #Print results Liberals Budget
>
> summary(m1)

Call:
lm(formula = model, data = data1[data1$parlement == 1, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.52729 -0.22074  0.01657  0.21265  0.53831

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.52729    0.01930   27.33   <2e-16 ***
budget.dum  -0.06560    0.03138   -2.09   0.0375 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.256 on 281 degrees of freedom
Multiple R-squared:  0.01531,
  Adjusted R-squared:  0.01181
F-statistic:  4.37 on 1 and 281 DF,  p-value: 0.03748

> nobs(m1)
[1] 283
> summary(m2)

Call:
lm(formula = model, data = data1[data1$parlement == 2, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.51075  0.01011  0.05848  0.12548  0.33455

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.56789    0.04433  12.811 3.58e-15 ***
budget.dum   0.05556    0.11301   0.492    0.626
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2546 on 37 degrees of freedom
Multiple R-squared:  0.00649,
  Adjusted R-squared:  -0.02036
F-statistic: 0.2417 on 1 and 37 DF,  p-value: 0.6259

> nobs(m2)
[1] 39
> summary(m3)

Call:
lm(formula = model, data = data1[data1$parlement == 3, ])

Residuals:
    Min      1Q  Median      3Q     Max
-0.5924 -0.1641  0.0857  0.1860  0.2739

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.72610    0.02542  28.561   <2e-16 ***
budget.dum   0.07055    0.04179   1.688   0.0939 .
```

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

Residual standard error: 0.2274 on 125 degrees of freedom
Multiple R-squared:  0.02229,
  Adjusted R-squared:  0.01447
F-statistic:  2.85 on 1 and 125 DF,  p-value: 0.09388

> nobs(m3)
[1] 127
> summary(m4)

Call:
lm(formula = model, data = data1[data1$parlement == 4, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.77818  0.00106  0.06852  0.11455  0.30739

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.80382    0.02188  36.736   <2e-16 ***
budget.dum  -0.11121    0.04392  -2.532   0.0124 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2253 on 139 degrees of freedom
Multiple R-squared:  0.0441,
  Adjusted R-squared:  0.03722
F-statistic: 6.412 on 1 and 139 DF,  p-value: 0.01244

> nobs(m4)
[1] 141
> summary(m5)

Call:
lm(formula = model, data = data1[data1$parlement == 5, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.87035  0.00782  0.05948  0.10239  0.12965

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.87035    0.01491  58.391   <2e-16 ***
budget.dum   0.02559    0.04714   0.543    0.588
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2049 on 208 degrees of freedom
Multiple R-squared:  0.001415,
  Adjusted R-squared:  -0.003386
F-statistic: 0.2948 on 1 and 208 DF,  p-value: 0.5878

> nobs(m5)
[1] 210
> summary(m6)

Call:
lm(formula = model, data = data1[data1$parlement == 6, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.69035 -0.03248  0.04987  0.23235  0.30965

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.69035    0.03160  21.845  < 2e-16 ***
budget.dum   0.22091    0.05589   3.952 0.000131 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
Residual standard error: 0.2879 on 120 degrees of freedom
Multiple R-squared:  0.1152,
  Adjusted R-squared:  0.1078
F-statistic: 15.62 on 1 and 120 DF,  p-value: 0.0001312

> nobs(m6)
[1] 122
> summary(m7)

Call:
lm(formula = model, data = data1[data1$parlement == 7, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.75376  0.00060  0.09472  0.16172  0.18876

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.81124    0.02644  30.681   <2e-16 ***
budget.dum   0.09404    0.05120   1.837   0.0688 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.248 on 118 degrees of freedom
Multiple R-squared:  0.02779,
  Adjusted R-squared:  0.01955
F-statistic: 3.373 on 1 and 118 DF,  p-value: 0.06877

> nobs(m7)
[1] 120
> summary(m8)

Call:
lm(formula = model, data = data1[data1$parlement == 8, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.79841 -0.00622  0.03865  0.17778  0.17778

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.82222    0.03142   26.17  < 2e-16 ***
budget.dum   0.15314    0.05714    2.68  0.00885 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2433 on 84 degrees of freedom
Multiple R-squared:  0.07878,
  Adjusted R-squared:  0.06782
F-statistic: 7.184 on 1 and 84 DF,  p-value: 0.008852

> nobs(m8)
[1] 86
> summary(m9)

Call:
lm(formula = model, data = data1[data1$parlement == 9, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.88374  0.02136  0.02160  0.07780  0.07780

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.92220    0.02107  43.776   <2e-16 ***
budget.dum   0.05620    0.03629   1.549    0.125
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1645 on 90 degrees of freedom
```

```
Multiple R-squared:  0.02596,
  Adjusted R-squared:  0.01513
F-statistic: 2.398 on 1 and 90 DF,  p-value: 0.125

> nobs(m9)
[1] 92
> summary(m10)

Call:
lm(formula = model, data = data1[data1$parlement == 10, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.44366  0.00098  0.01302  0.03056  0.03056

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.969436   0.007412 130.784   <2e-16 ***
budget.dum  0.029587   0.016575   1.785   0.0769 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.0711 on 113 degrees of freedom
Multiple R-squared:  0.02742,
  Adjusted R-squared:  0.01882
F-statistic: 3.186 on 1 and 113 DF,  p-value: 0.07694

> nobs(m10)
[1] 115
> summary(m11)

Call:
lm(formula = model, data = data1[data1$parlement == 11, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.68977  0.01991  0.01991  0.01991  0.05059

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.98009    0.01771  55.329   <2e-16 ***
budget.dum  -0.03068    0.03636  -0.844    0.402
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1188 on 57 degrees of freedom
Multiple R-squared:  0.01234,
  Adjusted R-squared:  -0.004991
F-statistic: 0.712 on 1 and 57 DF,  p-value: 0.4023

> nobs(m11)
[1] 59
> summary(m12)

Call:
lm(formula = model, data = data1[data1$parlement == 12, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.90455  0.03214  0.09545  0.09545  0.09545

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.90455    0.01991  45.438   <2e-16 ***
budget.dum   0.06331    0.05475   1.156     0.25
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.204 on 119 degrees of freedom
Multiple R-squared:  0.01111,
  Adjusted R-squared:  0.002803
```

```
F-statistic: 1.337 on 1 and 119 DF,  p-value: 0.2498

> nobs(m12)
[1] 121
> summary(m13)

Call:
lm(formula = model, data = data1[data1$parlement == 13, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.87353  0.01104  0.07729  0.07729  0.07729

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.92271    0.02346  39.334   <2e-16 ***
budget.dum   0.06625    0.05786   1.145    0.256
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1832 on 71 degrees of freedom
Multiple R-squared:  0.01813,
  Adjusted R-squared:  0.004305
F-statistic: 1.311 on 1 and 71 DF,  p-value: 0.256

> nobs(m13)
[1] 73
> summary(m14)

Call:
lm(formula = model, data = data1[data1$parlement == 14, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.60409 -0.02073  0.03284  0.13839  0.16061

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.83939    0.02491  33.696  < 2e-16 ***
budget.dum   0.12777    0.03998   3.196  0.00197 **
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.1796 on 83 degrees of freedom
Multiple R-squared:  0.1096,
  Adjusted R-squared:  0.09885
F-statistic: 10.21 on 1 and 83 DF,  p-value: 0.001971

> nobs(m14)
[1] 85
> summary(m16)

Call:
lm(formula = model, data = data1[data1$parlement == 16, ])

Residuals:
     Min       1Q   Median       3Q      Max
-0.64405 -0.15914  0.04909  0.23670  0.32738

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.67262    0.03504  19.196  < 2e-16 ***
budget.dum   0.27829    0.05742   4.846 5.09e-06 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.2691 on 92 degrees of freedom
Multiple R-squared:  0.2034,
  Adjusted R-squared:  0.1947
F-statistic: 23.48 on 1 and 92 DF,  p-value: 5.085e-06
```

```
> nobs(m16)
[1] 94
>
> #
>
> mm1 <- coeftest(m1, vcov = vcovHAC(m1))
> mm1

t test of coefficients:

             Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.527289   0.025528 20.6556  < 2e-16 ***
budget.dum  -0.065598   0.035253 -1.8608  0.06382 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm2 <- coeftest(m2, vcov = vcovHAC(m2))
> mm2

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.567892   0.056177 10.1090 3.412e-12 ***
budget.dum  0.055558   0.087877  0.6322    0.5311
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm3 <- coeftest(m3, vcov = vcovHAC(m3))
> mm3

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.726103   0.032831 22.1164   <2e-16 ***
budget.dum  0.070547   0.046285  1.5242     0.13
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm4 <- coeftest(m4, vcov = vcovHAC(m4))
> mm4

t test of coefficients:

             Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.803819   0.022183 36.2365   <2e-16 ***
budget.dum  -0.111211   0.072102 -1.5424   0.1252
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm5 <- coeftest(m5, vcov = vcovHAC(m5))
> mm5

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.870348   0.014985 58.0832   <2e-16 ***
budget.dum  0.025590   0.042875  0.5969   0.5513
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm6 <- coeftest(m6, vcov = vcovHAC(m6))
> mm6

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.690354   0.041834 16.5021 < 2.2e-16 ***
budget.dum  0.220911   0.044301  4.9866 2.095e-06 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

```
> mm7 <- coeftest(m7, vcov = vcovHAC(m7))
> mm7

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.811236   0.034277 23.6672  < 2e-16 ***
budget.dum  0.094041   0.045008  2.0894  0.03882 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm8 <- coeftest(m8, vcov = vcovHAC(m8))
> mm8

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.822216   0.037054 22.1898 < 2.2e-16 ***
budget.dum  0.153140   0.038563  3.9712 0.0001503 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm9 <- coeftest(m9, vcov = vcovHAC(m9))
> mm9

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.922201   0.024161 38.1693  < 2e-16 ***
budget.dum  0.056204   0.029590  1.8994  0.06071 .
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm10 <- coeftest(m10, vcov = vcovHAC(m10))
> mm10

t test of coefficients:

             Estimate Std. Error  t value  Pr(>|t|)
(Intercept) 0.9694364  0.0081871 118.4110 < 2.2e-16 ***
budget.dum  0.0295866  0.0081298   3.6393 0.0004138 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm11 <- coeftest(m11, vcov = vcovHAC(m11))
> mm11

t test of coefficients:

             Estimate Std. Error t value Pr(>|t|)
(Intercept)  0.980089   0.015734 62.2902   <2e-16 ***
budget.dum  -0.030684   0.042152 -0.7279   0.4696
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm12 <- coeftest(m12, vcov = vcovHAC(m12))
> mm12

t test of coefficients:

            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.904549   0.021612 41.8537  < 2e-16 ***
budget.dum  0.063308   0.029899  2.1174  0.03631 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm13 <- coeftest(m13, vcov = vcovHAC(m13))
> mm13

t test of coefficients:
```

```
            Estimate Std. Error t value Pr(>|t|)
(Intercept) 0.922708   0.028455 32.4269  < 2e-16 ***
budget.dum  0.066254   0.028058  2.3613  0.02096 *
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm14 <- coeftest(m14, vcov = vcovHAC(m14))
> mm14

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.839389   0.031222 26.8845 < 2.2e-16 ***
budget.dum  0.127774   0.032832  3.8917 0.0002002 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> mm16 <- coeftest(m16, vcov = vcovHAC(m16))
> mm16

t test of coefficients:

            Estimate Std. Error t value  Pr(>|t|)
(Intercept) 0.672625   0.041825 16.0820 < 2.2e-16 ***
budget.dum  0.278285   0.047415  5.8691 6.858e-08 ***
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

>
> #
>
> coef <- mm1[2,1]
> se <- mm1[2,2]
> conf1 <- coef + c(-1,1)*se*qt(0.975, m1$df.residual)
> conf1 <- c(conf1,coef,"1st (1867-1872)")
> coef <- mm2[2,1]
> se <- mm2[2,2]
> conf2 <- coef + c(-1,1)*se*qt(0.975, m2$df.residual)
> conf2 <- c(conf2,coef,"2nd (1872-1874)")
> coef <- mm3[2,1]
> se <- mm3[2,2]
> conf3 <- coef + c(-1,1)*se*qt(0.975, m3$df.residual)
> conf3 <- c(conf3,coef,"3rd (1874-1878)")
> coef <- mm4[2,1]
> se <- mm4[2,2]
> conf4 <- coef + c(-1,1)*se*qt(0.975, m4$df.residual)
> conf4 <- c(conf4,coef,"4th (1879-1882)")
> coef <- mm5[2,1]
> se <- mm5[2,2]
> conf5 <- coef + c(-1,1)*se*qt(0.975, m5$df.residual)
> conf5 <- c(conf5,coef,"5th (1883-1887)")
> coef <- mm6[2,1]
> se <- mm6[2,2]
> conf6 <- coef + c(-1,1)*se*qt(0.975, m6$df.residual)
> conf6 <- c(conf6,coef,"6th (1887-1891)")
> coef <- mm7[2,1]
> se <- mm7[2,2]
> conf7 <- coef + c(-1,1)*se*qt(0.975, m7$df.residual)
> conf7 <- c(conf7,coef,"7th (1891-1896)")
> coef <- mm8[2,1]
> se <- mm8[2,2]
> conf8 <- coef + c(-1,1)*se*qt(0.975, m8$df.residual)
> conf8 <- c(conf8,coef,"8th (1896-1900)")
> coef <- mm9[2,1]
> se <- mm9[2,2]
> conf9 <- coef + c(-1,1)*se*qt(0.975, m9$df.residual)
> conf9 <- c(conf9,coef,"9th (1901-1904)")
> coef <- mm10[2,1]
> se <- mm10[2,2]
> conf10 <- coef + c(-1,1)*se*qt(0.975, m10$df.residual)
> conf10 <- c(conf10,coef,"10th (1905-1908)")
```

```
> coef <- mm11[2,1]
> se <- mm11[2,2]
> conf11 <- coef + c(-1,1)*se*qt(0.975, m11$df.residual)
> conf11 <- c(conf11,coef,"11th (1909-1911)")
> coef <- mm12[2,1]
> se <- mm12[2,2]
> conf12 <- coef + c(-1,1)*se*qt(0.975, m12$df.residual)
> conf12 <- c(conf12,coef,"12th (1911-1917)")
> coef <- mm13[2,1]
> se <- mm13[2,2]
> conf13 <- coef + c(-1,1)*se*qt(0.975, m13$df.residual)
> conf13 <- c(conf13,coef,"13th (1917-1921)")
> coef <- mm14[2,1]
> se <- mm14[2,2]
> conf14 <- coef + c(-1,1)*se*qt(0.975, m14$df.residual)
> conf14 <- c(conf14,coef,"14th (1921-1925)")
> coef <- mm16[2,1]
> se <- mm16[2,2]
> conf16 <- coef + c(-1,1)*se*qt(0.975, m16$df.residual)
> conf16 <- c(conf16,coef,"16th (1926-1930)")
>
> all2 <-
rbind(conf16,conf14,conf13,conf12,conf11,conf10,conf9,conf8,conf7,conf6,conf5,conf4,conf3,conf2,conf1)
> alll2 <- rbind(conf16,conf14,conf13,conf12,conf10,conf9,conf8,conf7,conf6,conf5,conf4,conf3,conf2,conf1)
>
> ###
> ###GRAPHS
>
> all <- all1
> colnames(all) <- c("low","high","coef","V1")
> all <- data.frame(all)
> all$low <- as.numeric(as.character(all$low))
> all$high <- as.numeric(as.character(all$high))
> all$coef <- as.numeric(as.character(all$coef))
>
> #library(ggplot2)
> #ggplot(all, aes(V1,xx, ymin = low,ymax = high))+
> #  scale_x_discrete('Parliament',limits=all$V1) +
> #  scale_y_continuous('95% Confidence Intervals for for Private Member Motions',limits=c(-1,.1)) +
> #  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("The Influence of Religion Motions on Party Unity")
>
> all <- all2
> 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)
> #ggplot(all, aes(V1,xx, ymin = low,ymax = high))+
> #  scale_x_discrete('Parliament',limits=all$V1) +
> #  scale_y_continuous('95% Confidence Intervals for for Private Member Motions',limits=c(-.4,.4)) +
> #  theme_bw() +
> #  geom_errorbar(aes(x = V1, y = coef),size=.3,width=.2) +
> #  geom_point(aes(x = V1, y = coef)) +
> #  geom_hline(yintercept=0) +
> #  coord_flip() +
> #  ggtitle("The Influence of Budget Motions on Party Unity")
>
> #
>
> a1 <- all1
> colnames(a1) <- c("low","high","coef","V1")
> a1 <- data.frame(a1)
> a1$low <- as.numeric(as.character(a1$low))
> a1$high <- as.numeric(as.character(a1$high))
```

```
> a1$coef <- as.numeric(as.character(a1$coef))
> a1$specification <- 1:14
> a1$method <- paste("Religion")
>
> a2 <- alll2
> colnames(a2) <- c("low","high","coef","V1")
> a2 <- data.frame(a2)
> a2$low <- as.numeric(as.character(a2$low))
> a2$high <- as.numeric(as.character(a2$high))
> a2$coef <- as.numeric(as.character(a2$coef))
> a2$specification <- 1:14
> a2$method <- paste("Budget")
>
> ##ggplot combine for Liberals
>
> all <- rbind(a1,a2)
> lab <- c("16th (1926-1930)","14th (1921-1925)","13th (1917-1921)","12th (1911-1917)","10th (1905-1908)","9th
(1901-1904)","8th (1896-1900)","7th (1891-1896)","6th (1887-1891)","5th (1883-1887)","4th (1879-1882)","3rd
(1874-1878)","2nd (1872-1874)","1st (1867-1872)")
> pd <- position_dodge(width=0.3)
>
> #tiff(file = "~/Dropbox/Canada-Manuscript/Figures-Final/Figure-6.2.2.jpg", width = 8, height = 8, units =
'in', res = #200)
> #ggplot(all, aes(specification,coef, color=method,ymin = low,ymax = high)) +
> #geom_point(aes(shape=method),size=2, position=pd) +
> #scale_color_manual(name="Type",values=c("black","gray")) +
> #scale_shape_manual(name="Type",values=c(16,16)) +
> #theme_bw() +
> #scale_x_discrete("Parliaments (1867-1930)", breaks=1:14, labels=lab,limits = c(1:14)) +
> #scale_y_continuous("95% Confidence Intervals by Types of Motions",limits = c(-1,.5)) +
> #geom_errorbar(aes(ymin=low,ymax=high),width=0.2,size=.3,position=pd)+
> #geom_hline(yintercept=0) +
> #ggtitle("Liberal MPs") +
> #theme(plot.title = element_text(hjust = 0.5)) +
> #coord_flip()
> #dev.off()
>
>
```