## tableA1

## Jocelyn Hu April 29, 2019

```
library(tidyverse)
## -- Attaching packages -----
## v tibble 2.1.1 v purrr 0.3.2

## v tibble 2.1.1 v dplyr 0.8.0.1

## v tidyr 0.8.3 v stringr 1.4.0

## v readr 1.3.1 v forcets 0.1
## -- Conflicts ------ tidyver
## x dplyr::filter() masks stats::filter()
                     masks stats::lag()
## x dplyr::lag()
library(yardstick)
## For binary classification, the first factor level is assumed to be the event.
## Set the global option `yardstick.event_first` to `FALSE` to change this.
##
## Attaching package: 'yardstick'
## The following object is masked from 'package:readr':
##
##
       spec
library(ggplot2)
library(mosaic)
## Loading required package: lattice
## Loading required package: ggformula
## Loading required package: ggstance
## Attaching package: 'ggstance'
## The following objects are masked from 'package:ggplot2':
##
##
       geom_errorbarh, GeomErrorbarh
```

```
##
## New to ggformula? Try the tutorials:
## learnr::run_tutorial("introduction", package = "ggformula")
## learnr::run_tutorial("refining", package = "ggformula")
## Loading required package: mosaicData
## Loading required package: Matrix
##
## Attaching package: 'Matrix'
## The following object is masked from 'package:tidyr':
##
##
       expand
## The 'mosaic' package masks several functions from core packages in order to add
## additional features. The original behavior of these functions should not be affected by this.
## Note: If you use the Matrix package, be sure to load it BEFORE loading mosaic.
##
## Attaching package: 'mosaic'
## The following object is masked from 'package:Matrix':
##
##
       mean
## The following objects are masked from 'package:dplyr':
##
##
       count, do, tally
## The following object is masked from 'package:purrr':
##
##
       cross
## The following object is masked from 'package:ggplot2':
##
##
       stat
## The following objects are masked from 'package:stats':
##
##
       binom.test, cor, cor.test, cov, fivenum, IQR, median,
##
       prop.test, quantile, sd, t.test, var
## The following objects are masked from 'package:base':
##
##
       max, mean, min, prod, range, sample, sum
```

```
library(stargazer)
##
## Please cite as:
## Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.
## R package version 5.2.2. https://CRAN.R-project.org/package=stargazer
require(Stat2Data)
## Loading required package: Stat2Data
library(scales)
##
## Attaching package: 'scales'
## The following object is masked from 'package:mosaic':
##
##
       rescale
## The following object is masked from 'package:purrr':
       discard
##
## The following object is masked from 'package:readr':
##
##
       col_factor
library(readr)
library(rms)
## Loading required package: Hmisc
## Loading required package: survival
## Loading required package: Formula
##
## Attaching package: 'Hmisc'
## The following objects are masked from 'package:dplyr':
##
##
       src, summarize
## The following objects are masked from 'package:base':
##
##
       format.pval, units
```

```
## Loading required package: SparseM
##
## Attaching package: 'SparseM'
## The following object is masked from 'package:base':
##
##
      backsolve
library(pastecs)
##
## Attaching package: 'pastecs'
## The following object is masked from 'package:rms':
##
##
      specs
## The following objects are masked from 'package:dplyr':
##
##
      first, last
## The following object is masked from 'package:tidyr':
##
##
      extract
library(tidyr)
library(stats)
# qrpffc<-read.csv("Dyadic.csv")%>%
  mutate(idgroup = ifelse(samegroup==1,grpid, NA))%>%
   group_by(idgroup)%>%
#
   mutate(grpFFcl = ifelse(samegroup==0, NA, mean(frfamcl)))
# grpffc<-aggregate(grpFFcl~idgroup,grpffc,mean,na.action = na.omit)</pre>
library(haven)
vector<- read.csv("Data/tablea1_edit.csv")</pre>
grp<-read_dta("Data/grpFFcl.dta")</pre>
# vector<-merge(vector, grpffc, by = "idgroup", all.x=TRUE)</pre>
tablea1<-merge(vector,grp,by = "idgroup")</pre>
glimpse(tablea1)
## Observations: 527
## Variables: 84
## $ idgroup
                 <int> 101, 102, 103, 104, 105, 106, 108, 112, 113, 20...
```

```
## $ grpmem
     <int> 2, 5, 5, 4, 3, 2, 2, 2, 2, 2, 3, 2, 2, 3, 7, 2,...
     <dbl> 4.000000, 5.600000, 3.800000, 5.500000, 5.00000...
## $ gch2
## $ gfem
     <dbl> 0.5000000, 1.0000000, 0.8000000, 1.0000000, 1.0...
     <dbl> 37.50000, 37.40000, 48.80000, 37.00000, 34.6666...
## $ gage
## $ gurb
     <dbl> 0.00000000, 0.40000001, 0.40000001, 0.00000000,...
## $ gysch
     <dbl> 4.000000, 3.400000, 1.800000, 1.750000, 5.33333...
## $ gmar
     <dbl> 0.0000000, 0.8000000, 1.0000000, 0.2500000, 0.3...
     <dbl> 11.75510, 12.20400, 12.09186, 11.54951, 12.7259...
## $ glcons
## $ ghhsz
     <dbl> 7.500000, 8.200000, 5.600000, 5.250000, 6.66666...
## $ municode
     <int> 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 2, ...
     <dbl> 0.00000000, 0.00000000, 0.00000000, 0.50000000,...
## $ grpFFcl.x
     ## $ X merge
## $ ffclmem
     <dbl> 0.0000000, 0.0000000, 0.0000000, 2.0000000, 1.0...
## $ X_Imunicode_2
     <int> 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, ...
## $ X_Imunicode_3
     ## $ X_Imunicode_4
     ## $ X_Imunicode_5
## $ X Imunicode 6
     ## $ X_Imunicode_7
```

```
<dbl> 0.00000000, 0.00000000, 0.00000000, 0.50000000,...
## $ grpFFcl.y
library(miceadds)
## Loading required package: mice
## Attaching package: 'mice'
## The following object is masked from 'package:tidyr':
##
##
 complete
## The following objects are masked from 'package:base':
##
##
 cbind, rbind
## * miceadds 3.2-48 (2019-04-15 18:10:29)
model_formula1 <- as.formula(pdefault ~ grpFFcl.y+grpmem+gch2+gfem+gage+gurb+gysch+gmar+glcons+ghhsz+f
tablea1_1<-tablea1%>%
filter(grpmem<=3)</pre>
col1<-lm(model formula1,data =tablea1 1)</pre>
summary(col1)
```

```
##
## Call:
  lm(formula = model formula1, data = tablea1 1)
##
##
  Residuals:
##
        Min
                   1Q
                       Median
                                     3Q
                                             Max
   -0.46642 -0.07658 -0.01621 0.02913
##
##
  Coefficients:
##
                         Estimate Std. Error t value Pr(>|t|)
  (Intercept)
                       -0.2165667
                                   0.4555008
                                              -0.475 0.635035
   grpFFcl.y
                       -0.0624102
                                   0.0378415
                                              -1.649 0.100811
  grpmem
                        0.0273806
                                   0.0275181
                                                0.995 0.321049
##
                                                0.650 0.516791
  gch2
                        0.0083651
                                   0.0128780
##
  gfem
                        0.1174818
                                   0.0535091
                                                2.196 0.029382 *
                       -0.0003984
                                   0.0017813
                                               -0.224 0.823294
##
  gage
                                   0.0509338
                                                0.883 0.378561
##
  gurb
                        0.0449588
                       -0.0102512
                                   0.0068856
                                               -1.489 0.138266
  gysch
                        0.0105882
                                   0.0544607
                                                0.194 0.846063
##
  gmar
## glcons
                       0.0028576
                                   0.0358827
                                                0.080 0.936613
## ghhsz
                        0.0008183
                                   0.0061735
                                                0.133 0.894692
## factor(municode)2
                        0.1715592
                                   0.1009287
                                                1.700 0.090866
## factor(municode)3
                        0.0375589
                                   0.1978264
                                                0.190 0.849631
## factor(municode)4
                        0.0131959
                                   0.1962864
                                                0.067 0.946474
## factor(municode)7
                        0.0291452
                                   0.1488140
                                                0.196 0.844945
## factor(municode)8
                        0.0802479
                                   0.1114679
                                                0.720 0.472493
## factor(municode)9
                        0.0530335
                                   0.1270932
                                                0.417 0.676962
## factor(municode)12
                       0.0278568
                                   0.1217015
                                                0.229 0.819206
## factor(municode)13
                       0.1477317
                                   0.0986888
                                                1.497 0.136131
## factor(municode)14
                       0.2570272
                                   0.1308380
                                                1.964 0.050990
## factor(municode)15
                        0.1060043
                                   0.1070745
                                                0.990 0.323479
## factor(municode)16
                       0.1518933
                                   0.1137454
                                                1.335 0.183411
## factor(municode)17 -0.0080260
                                   0.1082212
                                               -0.074 0.940962
## factor(municode)18 -0.0125894
                                              -0.120 0.904659
                                   0.1049605
                                   0.0953808
## factor(municode)19
                                                1.209 0.228214
                       0.1153174
## factor(municode)21 -0.0248975
                                   0.1309099
                                               -0.190 0.849373
## factor(municode)22
                       0.1548560
                                   0.1475816
                                                1.049 0.295428
## factor(municode)23
                                   0.1503894
                                                1.608 0.109457
                       0.2418959
## factor(municode)24 -0.0438073
                                              -0.224 0.823376
                                   0.1959834
## factor(municode)25
                       0.0070296
                                   0.2004985
                                                0.035 0.972070
## factor(municode)26
                       0.2223791
                                   0.1283331
                                                1.733 0.084811
## factor(municode)27 -0.0603830
                                   0.1974396
                                               -0.306 0.760081
## factor(municode)28
                       0.0170089
                                   0.1043612
                                                0.163 0.870713
## factor(municode)29
                       0.5311701
                                   0.1529657
                                                3.472 0.000643 ***
## factor(municode)30 -0.0069139
                                   0.1972058
                                               -0.035 0.972071
## factor(municode)31
                        0.1232115
                                   0.1117541
                                                1.103 0.271682
                                   0.1153638
## factor(municode)32
                       0.0351890
                                                0.305 0.760693
## factor(municode)33
                       0.2853508
                                   0.1201968
                                                2.374 0.018631 *
## factor(municode)34
                       0.0626740
                                   0.1132893
                                                0.553 0.580788
## factor(municode)35
                       0.0268237
                                   0.0980466
                                                0.274 0.784715
## factor(municode)36 -0.0052903
                                   0.1482356
                                               -0.036 0.971570
## factor(municode)37 -0.0183033
                                   0.1474288
                                               -0.124 0.901333
## factor(municode)38 -0.0022931
                                   0.1001565
                                               -0.023 0.981759
## factor(municode)39 -0.0014422 0.0957567
                                              -0.015 0.988000
```

```
## factor(municode)42 0.2185242 0.1104614
                                             1.978 0.049397 *
                                             0.181 0.856350
## factor(municode)43 0.0361927 0.1996531
## factor(municode)44 0.1966385 0.1290414
                                             1.524 0.129275
## factor(municode)45 0.0718870 0.1485203
                                             0.484 0.628950
## factor(municode)46 0.0674929
                                0.1999877
                                             0.337 0.736138
## factor(municode)49 0.1411744 0.1223136
                                             1.154 0.249923
## factor(municode)51 0.0206337 0.1982295
                                             0.104 0.917212
## factor(municode)52 0.0500621 0.0997486
                                             0.502 0.616353
## factor(municode)53 0.0192603 0.0997165
                                             0.193 0.847055
## factor(municode)54 0.0815625 0.2031665
                                             0.401 0.688553
## factor(municode)55 0.2590258 0.1287613
                                             2.012 0.045721 *
## factor(municode)56 0.1206778 0.2043733
                                             0.590 0.555599
## factor(municode)57 -0.0193634 0.1951414 -0.099 0.921066
## factor(municode)58 0.0910020 0.1237348
                                             0.735 0.463001
## factor(municode)59 0.5240169 0.1473421
                                             3.556 0.000479 ***
## factor(municode)60 0.0076112
                                 0.1075338
                                             0.071 0.943651
## factor(municode)61 0.1821367 0.0976996
                                             1.864 0.063888 .
## factor(municode)62 0.1421501 0.0996678
                                             1.426 0.155503
## factor(municode)64 -0.0056883 0.1139484 -0.050 0.960241
## factor(municode)65 0.1361291 0.0965656
                                             1.410 0.160324
## factor(municode)66 -0.0236455 0.1480521
                                           -0.160 0.873285
## factor(municode)67 0.0007582 0.1184537
                                             0.006 0.994900
## factor(municode)69 -0.0214154 0.1296474 -0.165 0.868983
## factor(municode)70 0.0052732 0.1973383
                                             0.027 0.978711
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1767 on 183 degrees of freedom
## Multiple R-squared: 0.3365, Adjusted R-squared: 0.09355
## F-statistic: 1.385 on 67 and 183 DF, p-value: 0.04654
model_formula2 <- as.formula(pdefault ~grpFFcl.y+grpmem+gch2+gfem+gage+gurb+gysch+gmar+glcons+ghhsz+fac
col2<-lm(data =tablea1,model_formula2)</pre>
summary(col2)
##
## lm(formula = model_formula2, data = tablea1)
##
## Residuals:
                 1Q
                      Median
                                   3Q
                                           Max
       Min
## -0.24310 -0.08174 -0.03479 0.01436 0.83302
##
## Coefficients:
##
                       Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                      0.2122738 0.3119069
                                             0.681
                                                     0.4965
                     -0.0338286 0.0286059
                                           -1.183
## grpFFcl.y
                                                     0.2376
                      0.0005928 0.0041425
                                             0.143
## grpmem
                                                     0.8863
                      0.0117270 0.0086458
## gch2
                                             1.356
                                                     0.1757
                      0.0324310 0.0370426
                                             0.876
## gfem
                                                     0.3818
```

0.991

0.7066

0.3221

0.0359 \*

-0.0004668 0.0012393 -0.377

-0.0100903 0.0047960 -2.104

0.0308964 0.0311689

## gage

## gurb

## gysch

```
gmar
                       -0.0014639
                                    0.0353503
                                               -0.041
                                                         0.9670
##
##
  glcons
                       -0.0188466
                                                -0.742
                                                         0.4586
                                    0.0254081
  ghhsz
                        0.0042574
                                    0.0044168
                                                 0.964
                                                         0.3356
  factor(municode)2
                        0.1366071
                                    0.0812526
                                                 1.681
                                                         0.0934
##
  factor(municode)3
                        0.0243813
                                    0.1769484
                                                 0.138
                                                         0.8905
##
   factor(municode)4
                       -0.0347339
                                    0.1296423
                                                -0.268
                                                         0.7889
  factor(municode)5
                        0.0267615
                                    0.1802474
                                                 0.148
                                                         0.8820
## factor(municode)6
                        0.0539341
                                    0.0903526
                                                 0.597
                                                         0.5509
   factor(municode)7
                        0.0139967
                                    0.0875683
                                                 0.160
                                                         0.8731
   factor(municode)8
                        0.0260133
                                    0.0847500
                                                 0.307
                                                         0.7590
   factor(municode)9
                       -0.0248831
                                    0.0876449
                                                -0.284
                                                         0.7766
   factor(municode)10
                        0.2621798
                                    0.1345028
                                                 1.949
                                                         0.0519
   factor(municode)11 -0.0107610
                                    0.0805169
                                                -0.134
                                                         0.8937
   factor(municode)12 -0.0129935
                                                -0.136
                                    0.0953179
                                                         0.8916
                        0.1131706
   factor(municode)13
                                    0.0760320
                                                 1.488
                                                         0.1373
   factor(municode)14
                        0.0683483
                                    0.0826191
                                                 0.827
                                                         0.4085
   factor(municode)15
                                    0.0781562
                                                 0.456
                        0.0356723
                                                         0.6483
   factor(municode)16
                        0.1498882
                                    0.0830893
                                                 1.804
                                                         0.0719
  factor(municode)17
                        0.0008847
                                    0.0806807
                                                 0.011
                                                         0.9913
   factor(municode)18
                       -0.0289844
                                    0.0750820
                                                -0.386
                                                         0.6997
   factor(municode)19
                        0.0428082
                                    0.0720517
                                                 0.594
                                                         0.5527
   factor(municode)20 -0.0239542
                                    0.0920813
                                                -0.260
                                                         0.7949
  factor(municode)21 -0.0135695
                                    0.0947585
                                                -0.143
                                                         0.8862
   factor(municode)22
                        0.0483230
                                    0.0933443
                                                 0.518
                                                         0.6049
   factor(municode)23
                        0.0911588
                                    0.0831532
                                                 1.096
                                                         0.2735
   factor(municode)24
                        0.0190452
                                    0.1028316
                                                 0.185
                                                         0.8532
   factor(municode)25
                       -0.0164859
                                    0.1151997
                                                -0.143
                                                         0.8863
   factor(municode)26
                        0.2094032
                                    0.0846007
                                                 2.475
                                                         0.0137 *
   factor(municode)27
                        0.1427430
                                    0.0967985
                                                 1.475
                                                         0.1410
   factor(municode)28 -0.0306530
                                    0.0852284
                                                -0.360
                                                         0.7193
   factor(municode)29
                        0.1615995
                                    0.0855197
                                                 1.890
                                                         0.0595
   factor(municode)30
                        0.0014577
                                    0.1120042
                                                 0.013
                                                         0.9896
   factor(municode)31
                        0.0694625
                                    0.0764795
                                                 0.908
                                                         0.3642
   factor(municode)32
                        0.0182938
                                    0.0848715
                                                 0.216
                                                         0.8294
   factor(municode)33
                                    0.0880895
                                                 1.713
                                                         0.0873
                        0.1509369
   factor(municode)34 -0.0131486
                                    0.0909538
                                                -0.145
                                                         0.8851
   factor(municode)35
                       -0.0249515
                                    0.0755732
                                                -0.330
                                                         0.7414
  factor(municode)36
                                                 0.093
                        0.0088542
                                    0.0947683
                                                         0.9256
   factor(municode)37 -0.0383900
                                    0.0860879
                                                -0.446
                                                         0.6559
   factor(municode)38
                        0.0443598
                                    0.0733447
                                                 0.605
                                                         0.5456
   factor(municode)39
                        0.0055079
                                    0.0705522
                                                 0.078
                                                         0.9378
   factor(municode)40
                        0.0722735
                                    0.0834605
                                                 0.866
                                                         0.3870
   factor(municode)41
                        0.0283336
                                    0.0867348
                                                 0.327
                                                         0.7441
   factor(municode)42
                        0.1244944
                                    0.0743803
                                                 1.674
                                                         0.0949
   factor(municode)43
                        0.1083798
                                    0.0802233
                                                 1.351
                                                         0.1774
                                                 1.263
   factor(municode)44
                        0.1264859
                                    0.1001164
                                                         0.2071
   factor(municode)45
                        0.0078760
                                    0.1306894
                                                 0.060
                                                         0.9520
   factor(municode)46
                        0.0076510
                                    0.1129556
                                                 0.068
                                                         0.9460
   factor(municode)48
                        0.0076334
                                    0.1062152
                                                 0.072
                                                         0.9427
   factor(municode)49
                        0.0996951
                                    0.0965044
                                                 1.033
                                                         0.3021
   factor(municode)50 -0.0187441
                                                -0.181
                                                         0.8561
                                    0.1033118
  factor(municode)51 -0.0213106
                                    0.1076983
                                                -0.198
                                                         0.8432
## factor(municode)52
                        0.0078684
                                    0.0744762
                                                 0.106
                                                         0.9159
## factor(municode)53
                       0.0008312
                                    0.0727682
                                                 0.011
                                                         0.9909
```

```
## factor(municode)54 0.0404322 0.0800316
                                           0.505
                                                  0.6137
## factor(municode)55 0.0752159 0.0774285 0.971
                                                  0.3319
                                                  0.9806
## factor(municode)56 -0.0021270 0.0874468 -0.024
## factor(municode)57 0.0327639 0.0886655 0.370
                                                  0.7119
## factor(municode)58 0.0291362 0.0890539
                                           0.327
                                                  0.7437
## factor(municode)59 0.1144200 0.0750576 1.524 0.1281
## factor(municode)60 -0.0220926 0.0772889 -0.286
                                                  0.7751
## factor(municode)61 0.1434760 0.0761947
                                           1.883
                                                  0.0603 .
                                           1.091
## factor(municode)62 0.0824139 0.0755337
                                                  0.2758
## factor(municode)63 0.0403010 0.2289392
                                           0.176 0.8603
## factor(municode)64 0.0293957 0.0771194
                                           0.381 0.7033
## factor(municode)65 0.0464929 0.0725451
                                           0.641
                                                  0.5219
## factor(municode)66 0.0380346 0.0888638
                                          0.428
                                                  0.6689
## factor(municode)67 0.0426065 0.0697440
                                           0.611
                                                  0.5416
## factor(municode)68 0.0097386 0.1346812
                                           0.072
                                                  0.9424
## factor(municode)69 0.0509721 0.0826545
                                           0.617
                                                   0.5378
## factor(municode)70 0.1223414 0.0880622
                                           1.389
                                                  0.1654
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.1642 on 447 degrees of freedom
    (1 observation deleted due to missingness)
## Multiple R-squared: 0.1619, Adjusted R-squared: 0.01568
## F-statistic: 1.107 on 78 and 447 DF, p-value: 0.2631
tablea1<-tablea1%>%
 mutate(ffclmem=grpFFcl.y*grpmem)
model_formula3 <- as.formula(pdefault ~ grpFFcl.y+grpmem+ffclmem+gch2+gfem+gage+gurb+gysch+gmar+glcons
col3<-lm(data =tablea1,model_formula3)</pre>
summary(col3)
##
## Call:
## lm(formula = model_formula3, data = tablea1)
## Residuals:
                10 Median
                                 30
## -0.23998 -0.08005 -0.03467 0.02062 0.83373
##
## Coefficients:
##
                      Estimate Std. Error t value Pr(>|t|)
                    0.2181786 0.3108352 0.702 0.4831
## (Intercept)
## grpFFcl.y
                    -0.1549915 0.0661038 -2.345
                                                  0.0195 *
## grpmem
                    -0.0044132 0.0048076 -0.918
                                                  0.3591
## ffclmem
                     0.0390186 0.0192066
                                           2.032
                                                  0.0428 *
## gch2
                     0.0110044 0.0086231
                                           1.276
                                                  0.2026
## gfem
                    0.0311405 0.0369191 0.843
                                                  0.3994
                   -0.0004352 0.0012351 -0.352
                                                  0.7248
## gage
## gurb
                    0.0210558 0.0314359 0.670
                                                  0.5033
                    -0.0100987 0.0047793 -2.113
                                                  0.0352 *
## gysch
## gmar
                   -0.0042317 0.0352536 -0.120
                                                  0.9045
                   -0.0176105 0.0253270 -0.695
## glcons
                                                  0.4872
                    0.0043301 0.0044016 0.984
## ghhsz
                                                  0.3258
```

```
## factor(municode)2
                        0.1552675
                                   0.0814893
                                                1.905
                                                         0.0574 .
## factor(municode)3
                                    0.1763731
                                                0.095
                                                         0.9246
                        0.0167082
  factor(municode)4
                                    0.1291915
                       -0.0352434
                                               -0.273
                                                         0.7851
                                                0.322
  factor(municode)5
                        0.0580216
                                    0.1802781
                                                         0.7477
##
  factor(municode)6
                        0.0584966
                                    0.0900662
                                                0.649
                                                         0.5164
## factor(municode)7
                                    0.0873494
                                                0.250
                                                         0.8025
                        0.0218575
## factor(municode)8
                        0.0231052
                                    0.0844672
                                                0.274
                                                         0.7846
## factor(municode)9
                       -0.0256844
                                    0.0873408
                                               -0.294
                                                         0.7688
   factor(municode)10
                        0.2598695
                                    0.1340396
                                                1.939
                                                         0.0532 .
   factor(municode)11 -0.0068127
                                    0.0802602
                                               -0.085
                                                         0.9324
  factor(municode)12 -0.0079449
                                    0.0950187
                                               -0.084
                                                         0.9334
   factor(municode)13
                        0.1081286
                                    0.0758080
                                                1.426
                                                         0.1545
   factor(municode)14
                        0.0721960
                                    0.0823534
                                                0.877
##
                                                         0.3811
   factor(municode)15
                        0.0362087
                                    0.0778846
                                                0.465
                                                         0.6422
## factor(municode)16
                        0.1508657
                                    0.0828016
                                                1.822
                                                         0.0691
   factor(municode)17 -0.0018670
                                    0.0804114
                                               -0.023
                                                         0.9815
   factor(municode)18 -0.0294368
                                               -0.393
                                    0.0748211
                                                         0.6942
   factor(municode)19
                        0.0435090
                                    0.0718018
                                                0.606
                                                         0.5449
  factor(municode)20 -0.0537252
                                    0.0929237
                                               -0.578
                                                         0.5634
  factor(municode)21 -0.0147031
                                    0.0944304
                                               -0.156
                                                         0.8763
##
  factor(municode)22
                        0.0526092
                                    0.0930435
                                                0.565
                                                         0.5721
  factor(municode)23
                        0.0965305
                                    0.0829060
                                                1.164
                                                         0.2449
## factor(municode)24
                        0.0161672
                                    0.1024836
                                                         0.8747
                                                0.158
   factor(municode)25 -0.0114695
                                    0.1148254
                                               -0.100
                                                         0.9205
   factor(municode)26
                        0.2041440
                                    0.0843461
                                                2.420
                                                         0.0159 *
  factor(municode)27
                        0.1212417
                                    0.0970405
                                                1.249
                                                         0.2122
   factor(municode)28
                       -0.0260230
                                    0.0849624
                                               -0.306
                                                         0.7595
##
   factor(municode)29
                        0.1644083
                                    0.0852333
                                                1.929
                                                         0.0544
   factor(municode)30
                        0.0036943
                                    0.1116199
                                                0.033
                                                         0.9736
## factor(municode)31
                        0.0672162
                                    0.0762214
                                                0.882
                                                         0.3783
   factor(municode)32
                        0.0105624
                                    0.0846617
                                                0.125
                                                         0.9008
   factor(municode)33
                        0.1554196
                                    0.0878107
                                                1.770
                                                         0.0774 .
   factor(municode)34
                        0.0008947
                                    0.0909005
                                                0.010
                                                         0.9922
  factor(municode)35
                       -0.0236316
                                    0.0753131
                                               -0.314
                                                         0.7538
   factor(municode)36
                        0.0006968
                                    0.0945239
                                                0.007
                                                         0.9941
##
  factor(municode)37
                      -0.0246186
                                    0.0860558
                                               -0.286
                                                         0.7750
   factor(municode)38
                        0.0433490
                                    0.0730912
                                                0.593
                                                         0.5534
## factor(municode)39
                                    0.0703768
                        0.0118898
                                                0.169
                                                         0.8659
                                    0.0833288
                                                0.993
  factor(municode)40
                        0.0827166
                                                         0.3214
                                                         0.6739
  factor(municode)41
                        0.0364395
                                    0.0865250
                                                0.421
  factor(municode)42
                        0.1284848
                                    0.0741475
                                                1.733
                                                         0.0838
                                    0.0799461
  factor(municode)43
                        0.1095049
                                                1.370
                                                         0.1715
   factor(municode)44
                        0.1281873
                                    0.0997715
                                                1.285
                                                         0.1995
##
   factor(municode)45
                        0.0001393
                                    0.1302903
                                                0.001
                                                         0.9991
## factor(municode)46
                        0.0156653
                                    0.1126317
                                                0.139
                                                         0.8894
## factor(municode)48
                        0.0038366
                                    0.1058621
                                                0.036
                                                         0.9711
   factor(municode)49
                        0.0960964
                                    0.0961849
                                                0.999
                                                         0.3183
   factor(municode)50 -0.0424211
                                    0.1036099
                                               -0.409
                                                         0.6824
  factor(municode)51 -0.0307614
                                    0.1074243
                                               -0.286
                                                         0.7747
   factor(municode)52
                        0.0124632
                                    0.0742515
                                                0.168
                                                         0.8668
##
   factor(municode)53 -0.0014882
                                    0.0725240
                                               -0.021
                                                         0.9836
## factor(municode)54
                       0.0415266
                                    0.0797550
                                                0.521
                                                         0.6029
## factor(municode)55
                        0.0711395
                                    0.0771851
                                                0.922
                                                         0.3572
## factor(municode)56 -0.0024453 0.0871427
                                               -0.028
                                                         0.9776
```

```
## factor(municode)57 0.0341221 0.0883595
                                             0.386
                                                     0.6996
## factor(municode)58 0.0299047 0.0887449
                                             0.337
                                                     0.7363
## factor(municode)59 0.1198461 0.0748441
                                             1.601
                                                     0.1100
## factor(municode)60 -0.0171286 0.0770587
                                           -0.222
                                                     0.8242
## factor(municode)61 0.1439461 0.0759299
                                             1.896
                                                     0.0586
## factor(municode)62 0.0812839 0.0752730
                                             1.080
                                                     0.2808
## factor(municode)63 0.2183196 0.2443926
                                             0.893
                                                     0.3722
## factor(municode)64 0.0281091 0.0768537
                                             0.366
                                                     0.7147
## factor(municode)65 0.0508748 0.0723248
                                             0.703
                                                     0.4822
## factor(municode)66 0.0352096 0.0885656
                                             0.398
                                                     0.6911
## factor(municode)67 0.0221765
                                0.0702251
                                             0.316
                                                     0.7523
## factor(municode)68 0.0482056
                                             0.356
                                                     0.7223
                                0.1355417
## factor(municode)69 0.0440147
                                0.0824381
                                             0.534
                                                     0.5937
## factor(municode)70 0.1279072 0.0877986
                                             1.457
                                                     0.1459
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.1636 on 446 degrees of freedom
     (1 observation deleted due to missingness)
## Multiple R-squared: 0.1696, Adjusted R-squared: 0.02252
## F-statistic: 1.153 on 79 and 446 DF, p-value: 0.19
model_formula_var <- as.formula(pdefault ~ grpFFcl.y+grpmem+ffclmem+gch2+gfem+gage+gurb+gysch+gmar+glc
col_var<-lm(model_formula_var,data =tablea1_1)</pre>
summary(col_var)
##
## Call:
## lm(formula = model_formula_var, data = tablea1_1)
##
## Residuals:
##
       Min
                 1Q
                      Median
                                   30
                                           Max
## -0.17327 -0.09639 -0.05618 -0.00161
##
## Coefficients:
##
                Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.1195456 0.3855299 -0.310
                                              0.7568
                                              0.4221
## grpFFcl.y
             -0.1343074 0.1670291
                                    -0.804
## grpmem
               0.0248618 0.0267365
                                     0.930
                                              0.3534
## ffclmem
               0.0270602 0.0657341
                                      0.412
                                              0.6810
## gch2
               0.0124168 0.0117753
                                      1.054
                                              0.2927
## gfem
               0.0508206
                          0.0456864
                                      1.112
                                              0.2671
                          0.0016122 -0.268
                                              0.7889
## gage
              -0.0004322
               0.0797695
                          0.0345871
                                      2.306
                                              0.0219 *
## gurb
                                              0.0294 *
## gysch
              -0.0134089
                          0.0061192
                                    -2.191
              -0.0468562
                          0.0482950
                                     -0.970
                                              0.3329
## gmar
               0.0077302 0.0296361
                                              0.7944
## glcons
                                      0.261
               0.0042320 0.0053183
                                              0.4270
## ghhsz
                                      0.796
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 0.1819 on 239 degrees of freedom
## Multiple R-squared: 0.0811, Adjusted R-squared: 0.03881
```

```
## F-statistic: 1.918 on 11 and 239 DF, p-value: 0.03787
```

library(stargazer)

```
stargazer(col1,col2,col3,type = "html", column.labels = c("Groups of 2 or 3","All groups"), column.sepa
##
## <caption><strong>Table A1: Group-level analysis of defections: Depe
## style="text-align:left"
## 
## Proportion of members that default
## Groups of 2 or 3All groups
## (1)(2)(3)
## <td style="text-align:left"
## (0.038)(0.029)(0.066)
## [2] Number of group members0.0270.001-0.0
## (0.028)(0.004)(0.005)
## <(td><(td)<(0.019)</td>
## Average gamble choice0.0080.0120.011
## (0.013)(0.009)(0.009)
## Proportion of females0.117<sup>**</sup>0.032<
## (0.054)(0.037)(0.037)
## Average age-0.0004-0.0005-0.0004
## (0.002)(0.001)(0.001)
## Proportion living in municipal centre0.0450.031
## (0.051)(0.031)(0.031)
## Average years of education-0.010-0.010<*td>>**</sup
## (0.007)(0.005)(0.005)
## Proportion married0.011-0.001-0.004<
## (0.054)(0.035)(0.035)
## Average log household consumption0.0030.019<
## (0.036)(0.025)(0.025)
## Average household size0.0010.0040.004
## (0.006)(0.004)(0.004)
## <td style="text-align:left"
## Observations251526526
## <td style="text-align:left"
## Linear regression coeff
##
```

out