Reading GUK files

March 9, 2017

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I read

List folder names.

There will be warnings due to duplicated factor levels in dta which should be a fair warning but suppress them. In ./p1/1/Section8b_LivestockProduction.dta, iga seems to be assigned with noninteger values even if it is coded as a factor variable. I will assign the factor labels from stata value labels.

```
setwd(pathreceived.mar)

X ← lapply(fn, read.dta13, generate.factors = T, nonint.factors = T)

X ← lapply(X, data.table)
```

Save to source folder.

```
setwd(pathsource.mar)
saveRDS(X, "all_data.RDS")
```

Check if files are stored correctly. Section 3B is food security and comes with many yes/no answers.

```
\begin{array}{lll} fnshort &\leftarrow gsub("^\\.\/(.*?\\/).*(\\/.*?\$)", "/\\1...\\2", fn) \\ fnshort &\leftarrow gsub("^\\.", "", fnshort) \\ grepout(" 3B", fnshort) \end{array}
```

```
[1] "/p2/.../Section 3B.dta" "/p3/.../Section 3B.dta"
```

```
X[grep("3B", fnshort)]
```

```
[[1]]

id s8bq1 s8bq2_1 s8bq2_2 s8bq2_3 s8bq2_4 s8bq2_5 s8bq2_6 s8bq2_7
1: 7010102 no yes yes no no no yes yes
```

```
2:
           7010105
                       no
                               yes
                                         yes
                                                   no
                                                            no
                                                                     no
                                                                               no
                                                                                      yes
   3:
           7010106
                       no
                               yes
                                         yes
                                                   no
                                                            no
                                                                     no
                                                                               no
                                                                                       yes
   4:
           7010107
                       no
                                no
                                         yes
                                                   nο
                                                            nο
                                                                     nο
                                                                               nο
                                                                                      yes
   5:
           7010108
                       no
                               yes
                                         yes
                                                   no
                                                            no
                                                                     no
                                                                               no
                                                                                       yes
  ___
2079: 99081912415
                       no
                               yes
                                         yes
                                                  yes
                                                           yes
                                                                     no
                                                                             yes
                                                                                        no
2080: 99081912417
                      yes
                                NA
                                         NA
                                                  NA
                                                            NA
                                                                     NA
                                                                              NA
                                                                                        NA
2081: 99081912418
                                                   NA
                                                            NA
                                                                     NA
                                                                              NA
                                                                                        NA
                      yes
                                NA
                                          NA
2082: 99081912419
                       no
                                yes
                                         yes
                                                  ves
                                                            no
                                                                     no
                                                                              no
                                                                                        no
2083: 99081912420
                                                            NA
                                                                               NA
                                                                                        NA
                      ves
                                NA
                                         NA
                                                   NA
                                                                     NA
      s8bq2_8 s8bq2_9 s8bq2_10 s8bq2_11 s8bq2_12 s8bq3_1 s8bq3_2 s8bq3_3
   1:
                     no
                                                              3
                                                                      10
            no
                               no
                                          no
                                                   yes
                                                                       7
                                                                                 2
   2:
            no
                     no
                               no
                                          no
                                                   yes
                                                              3
                                                                      12
                                                                                 2
   3:
            no
                     no
                               no
                                         no
                                                   yes
                                                              3
   4:
                                                              3
                                                                       8
                                                                                 2
            no
                     no
                               no
                                         yes
                                                   yes
   5:
                                                              3
                                                                      10
                                                                                 3
            no
                     no
                               no
                                         yes
                                                   yes
  ___
2079:
            no
                    ves
                               no
                                          no
                                                    no
                                                              3
                                                                       2
                                                                                NA
2080:
            NA
                     NA
                               NA
                                          NA
                                                    NA
                                                              3
                                                                       2
                                                                                 2
                     NA
                                          NA
                                                    NA
                                                              3
                                                                       2
                                                                                 2
2081:
            NA
                               NA
2082:
            no
                     no
                               no
                                          no
                                                    no
                                                               3
2083:
            NA
                     NA
                               NA
                                          NA
                                                    NA
                                                              3
                                                                       2
      s8bq3_4 s8bq3_5 s8bq3_6 s8bq3_7 s8bq3_8 s8bq3_9 s8bq3_10 s8bq3_11
   1:
             3
                     30
                               2
                                         2
                                                  6
                                                           1
                                                                     4
                                                                               24
   2:
             3
                     28
                               7
                                         2
                                                  3
                                                           1
                                                                     2
                                                                               20
             5
                     30
                                         2
                                                  4
                                                                     2
                                                                               20
   3:
                               1
                                                           1
   4:
             5
                     30
                              NA
                                         2
                                                  4
                                                                    NA
                                                                               20
                                                           1
             5
                                         2
   5:
                     27
                              NA
                                                  4
                                                           1
                                                                     4
                                                                               30
 ___
2079:
                     24
                              NA
                                         2
                                                  1
                                                          NA
                                                                     2
                                                                               30
2080:
             1
                     30
                              NA
                                         3
                                                                               30
                                                  1
                                                           1
                                                                     1
2081:
             2
                                         3
                                                                     2
                     30
                              NA
                                                  1
                                                           1
                                                                               30
2082:
             2
                     28
                              NA
                                         2
                                                  1
                                                                     1
                                                                               30
2083:
                     30
                              NA
                                         3
                                                                               30
            NA
                                                  1
      s8bq3_12
                                   s8bq4_a_a s8bq4_a_2
                                                                            s8bq4_b_a
   1:
             NA
                     selling advance labor
                                                          buying from shop in debt.
             NA
                     selling advance labor
   2:
   3:
             NA
                     selling advance labor
                                                         buying from shop in debt.
             NA buying from shop in debt.
   4:
                                                                                    NA
                     selling advance labor
                                                                   loan from friends
   5:
             NA
2079:
             NA buying from shop in debt.
                                                                      regular income
2080:
             NA
                             regular income
                                                savings
                                                                                    NA
2081:
             NA
                             regular income
                                                 savings
                                                                                    NA
             NA
2082:
                             regular income
                                                 savings
                                                                                    NA
                             regular income
2083:
             NA
                                                 savings
                                                                                    NA
                                    s8bq4_c_a s8bq4_c_2 s8bq4_d_a s8bq4_d_2
      s8bq4_b_2
   1:
                           loan from friends
                 buying from shop in debt.
   2:
                                                                   NA
   3:
                           loan from friends
                                                                   NΑ
   4:
                                            NΑ
                                                                   NA
   5:
                                            NA
                                                                   NA
2079:
        savings
                                            NΔ
                                                                   NΑ
2080:
                                            NA
                                                                   NA
2081:
                                            NA
                                                                   NA
2082:
                                            NA
                                                                   NA
2083:
                                            NA
                                                                   NA
[[2]]
            id s8bq1 s8bq2_1 s8bq2_2 s8bq2_3 s8bq2_4 s8bq2_5 s8bq2_6 s8bq2_7
```

1:	7042113	yes	NA	NA	NA	NA	NA	NA	NA
2:	7042114	yes	NA	NA	NA	NA	NA	NA	NA
3:	7042115	yes	NA	NA	NA	NA	NA	NA	NA
	7042116	yes	NA	NA	NA	NA	NA	NA	NA
	7042117	yes	NA	NA	NA	NA	NA	NA	NA
		J							
2090:	7042110	yes	NA	NA	NA	NA	NA	NA	NA
	7042111	yes	NA	NA	NA	NA	NA	NA	NA
	7042112	yes	NA	NA	NA	NA	NA	NA	NA
	7021011	no	no	yes	yes	yes	no	no	yes
	7021010	yes	NA	NA	NA	NA	NA	NA	NA
		-		s8bq2_11					
1:	NA	NA	NA			NA	3	18	2
2:	NA	NA	NA			NA	3	20	5
3:	NA	NA	NA			NA	3	18	3
4:	NA	NA	NA			NA	3	25	3
5:	NA	NA	NA			NA	3	14	2
	1474	1471	1474	1474		1474	3		2
2090:	NA	NA	NA	NA		NA	3	14	2
2091:	NA	NA	NA			NA	3	23	4
2091:	NA	NA	NA NA			NA	3	19	3
2093:	no	no	yes			no	3	10	3
2094:	NA	NA	NA NA			NA	3	12	1
2034.				s8bq3_7 s					•
1:	12	28	NA	3	10	1			28
2:	18	28	5	3	15	3	12		27
3:	13	25	NA NA	3	12	2			28
4:	14	28	NA NA	3	19	1	1 (27
5:	15	18	NA NA	3	12	1			29
3.	13	10	INA	3	12	ı		9	29
2090:	17	27	NA	3	12	1	10	λ	29
2090:	17	27	3	3	12	2	1.		27
2091.	15	26	3 7	3	11	1	1.		28
2092:	10	30	NA	2	15	NA			30
2093:	7	30	NA	3	10	1			30
2034.						-			
1.	s8bq3_12 s8bq4_a_a s8bq4_a_2 s8bq4_b_a s : NA regular income savings NA							0_2	
2:		regular Pregular					N/		
3:		regular regular		savings			N/		
4:		regular		savings savings			N/		
5:		regular regular			_		N/		
3.	IN A	regular	Theome	Sa	vings		IN/	1	
2090:	NI A	regular	income	6.3	vings		N/	Δ	
2090:		regular			vings vings		N/		
2091:		regular regular !			vings vings		N/		
2092:		_		regular i	_	oan from			
2093:		regular regular			work	van 1101	n irrenus N		
2034.		_		4_d_a s8b			IN/	1	
1:		.a soby4 ₋ IA	_c_z souq	NA NA	47_U_Z				
2:		IA IA		NA NA					
3:		IA IA		NA NA					
4:		IA IA		NA NA					
5:		IA IA		NA NA					
-	ľ	IA		NA.					
2090:	h.	IA		NA					
2090:		IA IA							
2091:				NA NA					
		IA IA		NA NA					
2093:		IA IA		NA NA					
2094:	N	IA		NA					

Il save as text files

Create subfolders in source folder. Following correspondence:

Pick files in each folder, save. I will skip the first folder (baseline additional) which use xls files.

```
folstr ← substr(fol[, original], nchar(fol[, original])-15, nchar(fol[, original]))
folstr \leftarrow gsub(" \setminus (| \_ | \setminus )", ".", folstr)
fname0 \leftarrow asc(strsplit(fn, "^{\land}.* \setminus /"))
fname0 \leftarrow asc(strsplit(fname0, "\\\))
fname0 ← tolower(gsub(" ", "-", fname0))
setwd (path source.mar)
write.to.gzip \leftarrow function(data, filename) {
         write.tablev(data, filename)
         system(paste("gzip", filename))
for (i in c(1, 3:4)) {
         ii \leftarrow (1:length(fn))[grepl(folstr[i], fn)]
         currfol \leftarrow paste0(getwd(), gsub("^\\.", "", fol[i, new]), "/")
         relfol \leftarrow paste0(gsub("^\\.", "", fol[i, new]), "/")
         fn0 ← paste0(currfol, fname0[ii], ".prn")
         relative.fn0 ← paste0(relfol, fname0[ii], ".prn")
         fn0dta ← gsub("prn", "dta", fn0)
         #write.to.gzip(X[ii][[3]], fn0[3])
         #system(paste("gzip", fn0[1]))
         lapply \, (\, seq\_along \, (fn0 \,) \,, \ function \, (\, i \,) \ write. \\ tablev \, (X[\, ii \,][[\, i \,]] \,, \ fn0 \, [\, i \,]))
         #lapply(seq_along(fn0), function(i) write.dta(X[[i]], fn0dta[i]))
         \#zip(paste0("prn", gsub(").?)/", "_", fol[i, new]), ".zip"), files = relative.fr
         \#zip(paste0("dta", gsub("\\.?\\/", "_", fol[i, new]), ".zip"), files = fn0)
```

III read additional char households

List folder names.

```
setwd(pathreceived.mar)

foldernamea ← list.dirs(path = ".", recursive = T, full.names = T)

foldernamea ← grepout("last", foldernamea)
```

Read using XLConnect and save as tab-separated text files. Note: Memory limit binds. Some files are hand copied.

```
library (XLConnect)
setwd (pathreceived.mar)
fnx ← list.files(path = foldernamea, pattern = ".xlsx$",
        recursive = T, full.names = T)
fnxs \leftarrow gsub("^{\land}.* \setminus /", "", fnx)
options (java.parameters = "-Xmx8g")
# skip section 2c as the file size is too large to read
#for (i in c(1:21, 23, 25, 27:length(fnx))) {
for (i in 31:length(fnx)) {
  gc()
 wb ← loadWorkbook(fnx[i])
  # set "header = F" so I can read it as entries
  sc ← readWorksheet(wb, header = F, sheet = "Sheet1",
    startRow = 1, startCol = 1, endCol = 200, endRow = 3000)
  colnames(sc) \leftarrow tolower(sc[1, ])
  sc \leftarrow sc[-1,]
 sc \leftarrow a2b(sc, "na", NA)
 write.tablev(sc, paste0(pathsource.mar, "1/additional/", gsub("xlsx", "prn", fnxs[i])))
```