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***How to reshape data in STATA

*** step 1
** copy and paste data from CSV to data editor in STATA
** when copying data from CSV to STATA, make sure the var names are text.

*** step 2
** create id for each observation
** reshape to long data (2nd table from notes)
** for help use: help reshape

gen id = _n
order id
reshape long x, i(id) j(year)

*** step 3
** we need to separate variables that needs work :)
** first, we need to create a new variable with labels of each variable type
encode indicatorname, gen (varlabel)

** in example #2 with FDI *** 20th October Ex.9
encode variable, gen (varlabel)

** only if we don't already work in do file, this is back-up do file.
label save varlabel using varname, replace

*** step 4
** but first, create another id for groups (country, year)
** (check country var names: in world bank case is "countryname")

egen id2 = group (countryname year)
move id2 year
drop id
drop indicatorname

*** example #2 with FDI
egen id2 = group (country year)
move id2 year
drop id
drop variable

*** step 5
** we need to separate variables "var1" "var2" "var3" we need to reshape
again.
** we can use again command reshape , but to wide

reshape wide x, i(id2) j(varlabel)
order id2 country year x1 x2 x3

*** example #2 with FDI
*** we do not need this step since we have only one variable in this example.
*reshape wide x, i(id2) j(varlabel)
*order id2 country year x1

*** step 6

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Exercises 7, 8 and 9

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** getting the names of X vars to true names
rename x1 gni
rename x2 le
rename x3 enroll
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*** example #2 with FDI
rename x fdiflow
drop varlabel
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**** When STATA does not recognize text from numbers
**** go to data editor and delete observation 1.
****if we have again red letters instead of black indicating text, then
problem is in source file.
**** always use click instead of space (space is not a blank cell)
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**** with Example #2 we reshaped one variable for over 180 countries.
**** next, would be to find rest of the variables for the model for all
countries.
**** merge two or three data sets.
**** use: help merge
**** use: help append
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