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1  * 'Simple' Spaghetti Plots in Stata
2
3  * Based upon combining syntax by Weiwen Ng at
4  https://www.statalist.org/forums/forum/general-stata-discu
5  ssion/general/1466533-graphing-individual-trajectories-ove
6  r-time
7  * with ideas from the Stata `mixed` Reference Manual
8
9  * The general idea is to:
10 * run a mixed model
11 * generate predicted values that include the random
12 effects
13 * sort the data by GROUP variable and X variable to make
14 the graph come out right
15 * use some sophisticated graphing syntax to graph fitted
16 values and overall regression line
17 * use the c(L) option to connect ASCENDING values
18
19 * with older versions of Stata we may want to `set
20 scheme slcolor`; with newer versions of Stata, we can
21 use the new default scheme
22
23 * Example
24
25 use
26 "https://github.com/agrogan1/multilevel/raw/master/mlm-R2-
27 gutten/gutten.dta", clear // get data
28
29 * sample 10 // could take a random sample
30
31 mixed height age_base || tree_ID: // mixed model
32
33 predict yhat, fitted // predicted (fitted) values that
34 use random effects
35
36 sort tree_ID age_base // sort by GROUP variable
37 (tree_ID) and x variable (age_base) to make graph work
38
39 twoway /// twoway graph
40 (line yhat age_base, connect(L) lwidth(vthin)) /// fit
41 lines for each group
42 (lfit yhat age_base, lwidth(thick)) // overall fit line
```