# Package: lfe2fixest (via r-universe)

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Title Converts `lfe::felm()` To The `fixest::feols()` Equivalents
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<b>Description</b> What the package does (one paragraph).
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lfe2fixest

#### Description

Takes an R script with lfe::felm() commands, converts them into their fixest::feols equivalents, and then exports the resulting script to disk. Conversion is the only thing it does. Neither the input not output script are run.

#### Usage

```
lfe2fixest(infile = NULL, outfile = NULL, verbose = FALSE, robust = FALSE)
felm2feols(infile = NULL, outfile = NULL, verbose = FALSE, robust = FALSE)
```

#### Arguments

infile	An R script containing lfe::felm() commands. Required.									
outfile	File or connection to write the resulting R script (i.e. with fixest::feols() conversion) to. Can be the same as the input script, in which case the the latte will obviously be overwritten. Can also be left blank in which case nothing will be written to disk and the output will simply be printed to screen.									
verbose	Logical. Should the result be printed to screen. Defaults to FALSE unless outfile above is left blank.									
robust	Logical. By default, iid errors will be used unless cluster variables have been specified in the felm() formula(s). If users would like HC-robust standard errors, they should specify TRUE. Will be ignored if the felm formula contains cluster variables, since the errors will then default to cluster-robust.									

## Details

lfe::felm() and fixest::feols() provide "fixed-effects" estimation routines for high-dimensional data. Both methods are highly optimised, although feols() is newer and tends to be quite a bit faster. The syntax between these two methods is similar, if not quite offering drop-in replacement. This function aims to automate the conversion process; ignoring non-relevant arguments and differing options between the two, while doing its best to ensure that the resulting scripts will produce the same output.

Note that the conversion only handles (or attempts to handle) the actual model calls. No attempt is made to convert downstream objects or functions like regression table construction. Although, you will probably be okay if you use a modern table-generating package like modelsummary.

Other limitations include: (1) The function more or less implements a literal translation of the relevant felm model. It doesn't support translation for some of the specialised syntax that feols() offers, e.g. multiple estimation and varying slopes. Everything should still work even if the literal translation doesn't yield all of the additional performance boosts and tricks that feols() offers. (2) The function assumes that users always provide a dataset in their model calls; i.e. regressions with

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global variables are not supported. (3) Similarly, models that are constructed programatically (e.g. with Formula()) are not supported.

#### Value

An R script.

## See Also

felm, feols.

### Examples

```
## Not run:
## Write a (deliberately messy) lfe script
lfe_string = "
library(lfe)
library(modelsummary)
## Our toy dataset
aq = airquality
names(aq) = c('y', 'x1', 'x2', 'x3', 'mnth', 'dy')
## Simple OLS (no FEs)
mod1 = felm(y \sim x1 + x2, aq)
## Add a FE and cluster variable
mod2 = felm(y \sim x1 + x2)
              dy |
              0 |
              mnth, aq)
## Add a second cluster variable and some estimation options
mod3 = felm(y \sim x1 + x2 |
              dy |
              0 |
              dy + mnth,
            cmethod = 'reghdfe',
            exactDOF = TRUE,
            aq)
## IV reg with weights
mod4 = felm(y \sim 1 |
              dy |
              (x1 ~ x3) |
              mnth,
            weights = aq$x2,
            data = aq
            )
## Regression table
mods = list(mod1, mod2, mod3, mod4)
```

```
msummary(mods, gof_omit = 'Pseudo|Within|Log|IC', output = 'markdown')
writeLines(lfe_string, 'lfe_script.R')
## Covert to fixest equivalents
lfe2fixest('lfe_script.R') ## no output file provided, will print to screen
lfe2fixest('lfe_script.R', 'fixest_script.R') ## write converted script to disk
## Check equivalence
## First the lfe version
source('lfe_script.R', print.eval = TRUE)
## Then the fixest conversion
source('fixest_script.R', print.eval = TRUE)
## Clean up
file.remove(c('lfe_script.R', 'fixest_script.R'))
## End(Not run)
## Not run:
## For people that like options, there's the felm2feols() alias...
felm2fixest('another_felm_script.R')
```

## End(Not run)

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