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Example11-6

Kei Sakamoto

##

Example10-4(FDL)のFirst Difference versionが今回。First Difference取ってからlagとる。

```
load("~/計量経済学演習/R data sets for 5e/fertil3.RData")
fertil3<-data
library(dynlm);library(stargazer)

## Loading required package: zoo

## ## Attaching package: 'zoo'

## The following objects are masked from 'package:base':
```

##
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

Define Yearly time series beginning in 1913

tsdata <- ts(fertil3, start=1913)

as.Date, as.Date.numeric

First Difference model

res1 <- dynlm(d(gfr) ~ d(pe), data=tsdata)

Lagged First Difference model

```
res2 <- dynlm( d(gfr) \sim d(pe) + L(d(pe)) + L(d(pe),2), data=tsdata)
```

stargazer(res1,res2,type="text")

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```
##
##
             Dependent variable:
##
##
                d(gfr)
##
            (1)
                      (2)
## ---
              -0.043
## d(pe)
                        -0.036
##
            (0.028)
                      (0.027)
##
## L(d(pe))
                      -0.014
##
                    (0.028)
##
                       0.110***
## L(d(pe), 2)
##
                    (0.027)
##
## Constant
               -0.785
                         -0.964**
##
            (0.502)
                      (0.468)
##
## Observations
                 71
                          69
## R2
             0.032
                       0.232
## Adjusted R2
                0.018
                          0.197
## Residual Std. Error 4.221 (df = 69) 3.859 (df = 65)
## F Statistic
            2.263 (df = 1; 69) 6.563*** (df = 3; 65)
## Note:
                *p<0.1; **p<0.05; ***p<0.01
```

pe(t-2)-pe(t-3)のtermだけめっちゃ有意に出てる。change of tax codeは二年後に一番影響でる。