

texdoc 2.0
An update on creating LaTeX documents from within Stata

Example 2

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1 The texdoc source file

— *crosswise09.texdoc* —

```
texdoc init crosswise09, replace logdir
version 14.1
clear all
set linesize 100
set type double
set more off

/**
\documentclass{article}
\usepackage{stata}
\usepackage{graphicx, hyperref}

\title{My Analysis of the Crosswise09 Data}
\author{Ben Jann}
\date{\today}

\begin{document}

\maketitle

\noindent
\begin{tabular}{@{}ll@{}}
***/

texdoc write Stata version:
texdoc write &
texdoc write Stata `c(stata_version)', Revision `c(born_date)'
texdoc write \\
texdoc write Version control:
texdoc write &
texdoc write \stcmd{version `c(version)'}
texdoc write \\
texdoc write Required SSC packages:
texdoc write &
texdoc write \stcmd{fre}, \stcmd{rrreg}, \stcmd{rrlogit}, \stcmd{estout}, \stcmd{coefplot}
texdoc write \\
texdoc write Date:
texdoc write &
texdoc write `c(current_date)'
texdoc write \\

/**
\end{tabular}

\tableofcontents

\section{Number of Observations}
```

```

***/

texdoc stlog
use crosswise09.dta
fre uni
fre version
fre f7
tab uni version, chi2 exact
gen byte touse = (f7!=1) | inlist(b1,1,2) | inlist(b2,1,2) ///
                | inlist(f11,1,2) | inlist(f12,1,2)

fre touse
fre version if touse
tab uni version if touse, chi2 exact
texdoc stlog close

/***

\section{Item-Nonresponse}

***/

texdoc stlog
gen byte partial = b1==1 if inlist(b1,1,2) & version==1 & touse
gen byte severe = b2==1 if inlist(b2,1,2) & version==1 & touse
replace partial = f11==1 if inlist(f11,1,2) & version==2 & touse
replace severe = f12==1 if inlist(f12,1,2) & version==2 & touse
gen byte missing = (partial>=.)
tab version missing if touse, missing row
drop missing
gen byte missing = (severe>=.)
tab version missing if touse, missing row
drop missing
gen byte missing = (partial>=.) | (severe>=.)
tab version missing if touse, missing row
drop missing
count if (partial<.) & (severe>=.) & touse
count if (partial>=.) & (severe<.) & touse
texdoc stlog close

/***

\section{Table 1: Descriptives}

***/

texdoc stlog
su f2 if touse
egen byte agecat = cut(f2) if touse, at(18,23,28,`r(max)')
tab agecat version if touse, chi2 exact col
tab f1 version if touse, chi2 exact col
tab f3 version if touse, chi2 exact col

```

```

texdoc stlog close

/**

\section{Table 2: Prevalence estimates}

***/

texdoc stlog
gen byte crosswise = version==1 if touse
gen pyes           = cond(crosswise, 0.25, 1) if touse

// - direct questioning (DQ)

reg partial if crosswise==0
reg severe  if crosswise==0

// - crosswise model (CM)

rrreg partial if crosswise, pw(pyes)
rrreg severe  if crosswise, pw(pyes)

// - difference between DQ and CM

rrreg partial crosswise, pw(pyes) robust hc2
rrreg severe  crosswise, pw(pyes) robust hc2
texdoc stlog close

/**

\section{Table 3: Regression estimates}

***/

texdoc stlog
gen byte female      = f1==2 if inlist(f1,1,2)
gen byte internet    = f8_4==1
gen byte students    = f8_5==1
gen byte papers3or4  = f7==3 if f7<.
gen byte papers5     = f7==4 if f7<.
gen byte zurich      = uni==1
gen byte munich      = uni==2

su partial crosswise zurich munich female ///
  papers3or4 papers5 internet students if partial<.
su partial crosswise zurich munich female ///
  papers3or4 papers5 internet students if partial<. & crosswise==1

eststo reg1: rrreg partial ///
  zurich munich ///
  female papers3or4 papers5 internet students ///

```

```

    if crosswise, pw(pyes) robust
test zurich = munich

eststo logit1: rrlogit partial ///
    zurich munich ///
    female papers3or4 papers5 internet students ///
    if crosswise, pw(pyes) robust
test zurich = munich

eststo reg2: rrreg partial crosswise ///
    zurich munich ///
    female papers3or4 papers5 internet students ///
    , pw(pyes) robust
test zurich = munich

eststo logit2: rrlogit partial crosswise ///
    zurich munich ///
    female papers3or4 papers5 internet students ///
    , pw(pyes) nolog robust
test zurich = munich

esttab reg1 reg2 logit1 logit2, order(crosswise) ///
    compress mtitle nonumber star(+ 0.1 * 0.05 ** 0.01 *** 0.001)
texdoc stlog close

/****

\section{Graph: Regression estimates}

****/

texdoc stlog
coefplot reg2 reg1 || logit2 logit1, drop(_cons) xline(0) ///
    bylabels(LPM Logit) byopts(xrescale legend(off))
texdoc stlog close
texdoc graph

/****

\end{document}

```

— end of file —

2 The resulting L^AT_EX source file

Applying

```
. texdoc do crosswise09.texdoc
```

generates to the following L^AT_EX file.

— *crosswise09.tex* —

```
\documentclass{article}
\usepackage{stata}
\usepackage{graphicx, hyperref}

\title{My Analysis of the Crosswise09 Data}
\author{Ben Jann}
\date{\today}

\begin{document}

\maketitle

\noindent
\begin{tabular}{@{}ll@{}}
Stata version:
&
Stata 14.1, Revision 19 May 2016
\\
Version control:
&
\stcmd{version 14.1}
\\
Required SSC packages:
&
\stcmd{fre}, \stcmd{rrreg}, \stcmd{rrlogit}, \stcmd{estout}, \stcmd{coefplot}
\\
Date:
&
11 Jun 2016
\\
\end{tabular}

\tableofcontents

\section{Number of Observations}

\begin{stlog}
\input{crosswise09/1.log.tex}
\end{stlog}

\section{Item-Nonresponse}

\begin{stlog}
```

```
\input{crosswise09/2.log.tex}
\end{stlog}

\section{Table 1: Descriptives}

\begin{stlog}
\input{crosswise09/3.log.tex}
\end{stlog}

\section{Table 2: Prevalence estimates}

\begin{stlog}
\input{crosswise09/4.log.tex}
\end{stlog}

\section{Table 3: Regression estimates}

\begin{stlog}
\input{crosswise09/5.log.tex}
\end{stlog}

\section{Graph: Regression estimates}

\begin{stlog}
\input{crosswise09/6.log.tex}
\end{stlog}

\begin{center}
\includegraphics{crosswise09/6.pdf}
\end{center}

\end{document}
```

— *end of file* —

3 The resulting PDF

The following pages display the resulting PDF after compiling the \LaTeX source file.

My Analysis of the Crosswise09 Data

Ben Jann

June 11, 2016

Stata version: Stata 14.1, Revision 19 May 2016
Version control: version 14.1
Required SSC packages: fre, rrreg, rrlogit, estout, coefplot
Date: 11 Jun 2016

Contents

1	Number of Observations	1
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1 Number of Observations

```
. use crosswise09.dta
. fre uni
uni — location of data collection
```

		Freq.	Percent	Valid	Cum.
Valid	1 ETH Zurich	111	23.42	23.42	23.42
	2 LMU Munich	90	18.99	18.99	42.41
	3 University Leipzig	273	57.59	57.59	100.00
	Total	474	100.00	100.00	

```
. fre version
version — experimental condition
```

	Freq.	Percent	Valid	Cum.
--	-------	---------	-------	------

Valid	1 crosswise	358	75.53	75.53	75.53
	2 direct	116	24.47	24.47	100.00
	Total	474	100.00	100.00	

```
. fre f7
f7 — number of papers
```

		Freq.	Percent	Valid	Cum.
Valid	1 none	65	13.71	13.74	13.74
	2 one or two	178	37.55	37.63	51.37
	3 three or four	111	23.42	23.47	74.84
	4 five or more	119	25.11	25.16	100.00
	Total	473	99.79	100.00	
Missing	.	1	0.21		
Total		474	100.00		

```
. tab uni version, chi2 exact
Enumerating sample-space combinations:
stage 3: enumerations = 1
stage 2: enumerations = 2
stage 1: enumerations = 0
```

location of data collection	experimental condition		Total
	crosswise	direct	
ETH Zurich	85	26	111
LMU Munich	68	22	90
University Leipzig	205	68	273
Total	358	116	474

```
Pearson chi2(2) = 0.0942 Pr = 0.954
Fisher's exact = 0.967
```

```
. gen byte touse = (f7!=1) | inlist(b1,1,2) | inlist(b2,1,2) ///
> | inlist(f11,1,2) | inlist(f12,1,2)
```

```
. fre touse
touse
```

		Freq.	Percent	Valid	Cum.
Valid	0	64	13.50	13.50	13.50
	1	410	86.50	86.50	100.00
	Total	474	100.00	100.00	

```
. fre version if touse
version — experimental condition
```

		Freq.	Percent	Valid	Cum.
Valid	1 crosswise	313	76.34	76.34	76.34
	2 direct	97	23.66	23.66	100.00
	Total	410	100.00	100.00	

```
. tab uni version if touse, chi2 exact
Enumerating sample-space combinations:
stage 3: enumerations = 1
```

```
stage 2: enumerations = 1
stage 1: enumerations = 0
```

location of data collection	experimental condition		Total
	crosswise	direct	
ETH Zurich	55	16	71
LMU Munich	66	21	87
University Leipzig	192	60	252
Total	313	97	410

Pearson chi2(2) = 0.0639 Pr = 0.969
Fisher's exact = 0.972

2 Item-Nonresponse

```
. gen byte partial = b1==1 if inlist(b1,1,2) & version==1 & touse
(164 missing values generated)
. gen byte severe = b2==1 if inlist(b2,1,2) & version==1 & touse
(164 missing values generated)
. replace partial = f11==1 if inlist(f11,1,2) & version==2 & touse
(96 real changes made)
. replace severe = f12==1 if inlist(f12,1,2) & version==2 & touse
(96 real changes made)
. gen byte missing = (partial>=.)
. tab version missing if touse, missing row
```

Key
<i>frequency</i>
<i>row percentage</i>

experimental condition	missing		Total
	0	1	
crosswise	310 99.04	3 0.96	313 100.00
direct	96 98.97	1 1.03	97 100.00
Total	406 99.02	4 0.98	410 100.00

```
. drop missing
. gen byte missing = (severe>=.)
. tab version missing if touse, missing row
```

Key
<i>frequency</i>
<i>row percentage</i>

experimental condition	missing		Total
	0	1	
crosswise	310	3	313
	99.04	0.96	100.00
direct	96	1	97
	98.97	1.03	100.00
Total	406	4	410
	99.02	0.98	100.00

```
. drop missing
. gen byte missing = (partial>=.) | (severe>=.)
. tab version missing if touse, missing row
```

Key
frequency row percentage

experimental condition	missing		Total
	0	1	
crosswise	309	4	313
	98.72	1.28	100.00
direct	96	1	97
	98.97	1.03	100.00
Total	405	5	410
	98.78	1.22	100.00

```
. drop missing
. count if (partial<.) & (severe>=.) & touse
1
. count if (partial>=.) & (severe<.) & touse
1
```

3 Table 1: Descriptives

```
. su f2 if touse
```

Variable	Obs	Mean	Std. Dev.	Min	Max
f2	407	23.24324	3.799442	18	60

```
. egen byte agecat = cut(f2) if touse, at(18,23,28,`r(max)`)
(68 missing values generated)
. tab agecat version if touse, chi2 exact col
```

Key

<i>frequency</i> <i>column percentage</i>
--

Enumerating sample-space combinations:

stage 3: enumerations = 1

stage 2: enumerations = 6

stage 1: enumerations = 0

agecat	experimental condition		Total
	crosswise	direct	
18	154 49.52	47 49.47	201 49.51
23	126 40.51	42 44.21	168 41.38
28	31 9.97	6 6.32	37 9.11
Total	311 100.00	95 100.00	406 100.00

Pearson chi2(2) = 1.3053 Pr = 0.521

Fisher's exact = 0.557

. tab f1 version if touse, chi2 exact col

Key
<i>frequency</i> <i>column percentage</i>

sex	experimental condition		Total
	crosswise	direct	
male	154 49.68	42 43.30	196 48.16
female	156 50.32	55 56.70	211 51.84
Total	310 100.00	97 100.00	407 100.00

Pearson chi2(1) = 1.2040 Pr = 0.273

Fisher's exact = 0.296

1-sided Fisher's exact = 0.163

. tab f3 version if touse, chi2 exact col

Key
<i>frequency</i> <i>column percentage</i>

nationality	experimental condition		Total
	crosswise	direct	

german or swiss	288 92.90	93 95.88	381 93.61
other	22 7.10	4 4.12	26 6.39
Total	310 100.00	97 100.00	407 100.00

Pearson chi2(1) = 1.0920 Pr = 0.296
 Fisher's exact = 0.351
 1-sided Fisher's exact = 0.214

4 Table 2: Prevalence estimates

```

. gen byte crosswise = version==1 if touse
(64 missing values generated)
. gen pyes          = cond(crosswise, 0.25, 1) if touse
(64 missing values generated)
.
. // - direct questioning (DQ)
.
. reg partial if crosswise==0

```

Source	SS	df	MS	Number of obs	=	96
Model	0	0	.	F(0, 95)	=	0.00
Residual	6.48958333	95	.068311404	Prob > F	=	.
Total	6.48958333	95	.068311404	R-squared	=	0.0000
				Adj R-squared	=	0.0000
				Root MSE	=	.26136

```


```

partial	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
_cons	.0729167	.0266754	2.73	0.007	.0199593 .125874

```

. reg severe if crosswise==0

```

Source	SS	df	MS	Number of obs	=	96
Model	0	0	.	F(0, 95)	=	0.00
Residual	.989583333	95	.010416667	Prob > F	=	.
Total	.989583333	95	.010416667	R-squared	=	0.0000
				Adj R-squared	=	0.0000
				Root MSE	=	.10206

```


```

severe	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
_cons	.0104167	.0104167	1.00	0.320	-.010263 .0310964

```

.
. // - crosswise model (CM)
.
. rrrreg partial if crosswise, pw(pyess)
Randomized response regression

```

Number of obs	=	310
F(0, 309)	=	0.00
Prob > F	=	.

R-squared = 0.0000
 Adj R-squared = 0.0000
 Root MSE = 0.9623

partial	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
_cons	.2225806	.0546551	4.07	0.000	.1150374 .3301239

Pr(non-negated question) = pyes
 Pr(surrogate "yes") = 0
 Pr(surrogate "no") = 0
 . rrreg severe if crosswise, pw(pyes)

Randomized response regression
 Number of obs = 310
 F(0, 309) = 0.00
 Prob > F = .
 R-squared = 0.0000
 Adj R-squared = 0.0000
 Root MSE = 0.8766

severe	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
_cons	.016129	.0497849	0.32	0.746	-.0818313 .1140894

Pr(non-negated question) = pyes
 Pr(surrogate "yes") = 0
 Pr(surrogate "no") = 0

.
 . // - difference between DQ and CM
 .
 . rrreg partial crosswise, pw(pyes) robust hc2

Randomized response regression
 Number of obs = 406
 F(1, 404) = 6.05
 Prob > F = 0.0143
 R-squared = 0.0056
 Adj R-squared = 0.0031
 Root MSE = 0.8511

partial	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]
crosswise	.149664	.0608271	2.46	0.014	.0300868 .2692411
_cons	.0729167	.0266017	2.74	0.006	.0206216 .1252117

Pr(non-negated question) = pyes
 Pr(surrogate "yes") = 0
 Pr(surrogate "no") = 0
 . rrreg severe crosswise, pw(pyes) robust hc2

Randomized response regression
 Number of obs = 406
 F(1, 404) = 0.01
 Prob > F = 0.9107
 R-squared = 0.0000
 Adj R-squared = -0.0025
 Root MSE = 0.7682

severe	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]
--------	-------	------------------	---	------	----------------------

crosswise	.0057124	.0508988	0.11	0.911	-.0943471	.1057719
_cons	.0104167	.0103879	1.00	0.317	-.0100044	.0308377

```
Pr(non-negated question) = pyes
Pr(surrogate "yes")      = 0
Pr(surrogate "no")       = 0
```

5 Table 3: Regression estimates

```
. gen byte female      = f1==2 if inlist(f1,1,2)
(3 missing values generated)
. gen byte internet    = f8_4==1
. gen byte students    = f8_5==1
. gen byte papers3or4  = f7==3 if f7<.
(1 missing value generated)
. gen byte papers5     = f7==4 if f7<.
(1 missing value generated)
. gen byte zurich      = uni==1
. gen byte munich      = uni==2
.
. su partial crosswise zurich munich female ///
>   papers3or4 papers5 internet students if partial<.
Variable | Obs      Mean      Std. Dev.      Min      Max
-----|-----
partial  | 406      .5049261    .5005926      0         1
crosswise| 406      .7635468    .4254279      0         1
zurich   | 406      .1724138    .3782058      0         1
munich   | 406      .2093596    .4073535      0         1
female   | 403      .5186104    .5002746      0         1
-----|-----
papers3or4| 405      .2691358    .4440592      0         1
papers5  | 405      .2888889    .4538068      0         1
internet | 406      .8940887    .3081038      0         1
students | 406      .2413793    .4284478      0         1
.
. su partial crosswise zurich munich female ///
>   papers3or4 papers5 internet students if partial<. & crosswise==1
Variable | Obs      Mean      Std. Dev.      Min      Max
-----|-----
partial  | 310      .6387097    .4811511      0         1
crosswise| 310      1           0             1         1
zurich   | 310      .1741935    .3798891      0         1
munich   | 310      .2096774    .4077365      0         1
female   | 307      .504886     .5007924      0         1
-----|-----
papers3or4| 309      .2944984    .4565563      0         1
papers5  | 309      .2912621    .455081       0         1
internet | 310      .883871     .3208976      0         1
students | 310      .2290323    .4208894      0         1
.
. eststo reg1: rrreg partial ///
>   zurich munich ///
```



```

> female papers3or4 papers5 internet students ///
> if crosswise, pw(pyes) robust
Randomized response regression      Number of obs   =      306
                                     F( 7, 298)      =      1.23
                                     Prob > F         =      0.2841
                                     R-squared       =      0.0258
                                     Adj R-squared   =      0.0029
                                     Root MSE      =      0.9599

```

partial	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
zurich	.1297747	.1679073	0.77	0.440	-.2006596	.4602089
munich	-.2022313	.1352413	-1.50	0.136	-.4683803	.0639178
female	.0313942	.1168534	0.27	0.788	-.1985681	.2613565
papers3or4	-.1129604	.1359154	-0.83	0.407	-.380436	.1545152
papers5	.0879665	.1432817	0.61	0.540	-.1940055	.3699386
internet	.1726924	.1687123	1.02	0.307	-.1593261	.5047109
students	.1897438	.1378786	1.38	0.170	-.0815952	.4610829
_cons	.0344005	.1662536	0.21	0.836	-.2927793	.3615803

```

Pr(non-negated question) = pyes
Pr(surrogate "yes")      = 0
Pr(surrogate "no")      = 0

```

```

. test zurich = munich
( 1) zurich - munich = 0
      F( 1, 298) = 2.97
      Prob > F = 0.0860

```

```

. eststo logit1: rrlogit partial ///
> zurich munich ///
> female papers3or4 papers5 internet students ///
> if crosswise, pw(pyes) robust

```

Fitting constant-only model:

```

Iteration 0: log pseudolikelihood = -212.10304
Iteration 1: log pseudolikelihood = -199.85397
Iteration 2: log pseudolikelihood = -199.85373
Iteration 3: log pseudolikelihood = -199.85373

```

Fitting full model:

```

Iteration 0: log pseudolikelihood = -199.85373
Iteration 1: log pseudolikelihood = -198.77043
Iteration 2: log pseudolikelihood = -197.73043
Iteration 3: log pseudolikelihood = -196.81341
Iteration 4: log pseudolikelihood = -196.68131
Iteration 5: log pseudolikelihood = -196.68051
Iteration 6: log pseudolikelihood = -196.68051

```

```

Randomized response logistic regression      Number of obs   =      306
                                               Nonzero outcomes =      196
P(non-negated question) = pyes              Zero outcomes   =      110
P(surrogate "yes")      = 0                  Wald chi2(7)    =      6.36
P(surrogate "no")      = 0                  Prob > chi2     =      0.4987
Log pseudolikelihood = -196.68051          Pseudo R2      =      0.0159

```

partial	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
---------	-------	------------------	---	------	----------------------	--

zurich	.5216706	.9830921	0.53	0.596	-1.405155	2.448496
munich	-1.001754	.9174338	-1.09	0.275	-2.799891	.7963832
female	.2318339	.8098296	0.29	0.775	-1.355403	1.819071
papers3or4	-.6753206	.8620195	-0.78	0.433	-2.364848	1.014207
papers5	.2226108	.8264936	0.27	0.788	-1.397287	1.842509
internet	1.011847	1.588698	0.64	0.524	-2.101945	4.125639
students	.9554459	.7934316	1.20	0.229	-.5996515	2.510543
_cons	-2.303029	1.297016	-1.78	0.076	-4.845134	.2390766

```
. test zurich = munich
( 1) [partial]zurich - [partial]munich = 0
      chi2( 1) = 1.64
      Prob > chi2 = 0.2001
```

```
. eststo reg2: rrreg partial crosswise ///
> zurich munich ///
> female papers3or4 papers5 internet students ///
> , pw(py) robust
```

```
Randomized response regression          Number of obs   =      402
                                         F( 8, 393)      =      1.70
                                         Prob > F        =      0.0976
                                         R-squared      =      0.0268
                                         Adj R-squared  =      0.0070
                                         Root MSE      =      0.8472
```

partial	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
crosswise	.1722132	.0640163	2.69	0.007	.046356	.2980703
zurich	.122656	.1280605	0.96	0.339	-.1291133	.3744253
munich	-.1326625	.1057303	-1.25	0.210	-.3405302	.0752052
female	.0409437	.0889149	0.46	0.645	-.1338647	.2157522
papers3or4	-.097614	.1074576	-0.91	0.364	-.3088777	.1136497
papers5	.0471034	.109144	0.43	0.666	-.1674756	.2616825
internet	.1475172	.1376815	1.07	0.285	-.1231672	.4182016
students	.1606791	.1024078	1.57	0.117	-.0406565	.3620148
_cons	-.1198158	.1376898	-0.87	0.385	-.3905164	.1508849

```
Pr(non-negated question) = pyes
Pr(surrogate "yes")      = 0
Pr(surrogate "no")      = 0
```

```
. test zurich = munich
( 1) zurich - munich = 0
      F( 1, 393) = 2.83
      Prob > F = 0.0935
```

```
. eststo logit2: rrlogit partial crosswise ///
> zurich munich ///
> female papers3or4 papers5 internet students ///
> , pw(py) nolog robust
```

```
Randomized response logistic regression  Number of obs   =      402
                                         Nonzero outcomes =      203
                                         Zero outcomes   =      199
P(non-negated question) = pyes          Wald chi2(8)   =     15.36
P(surrogate "yes")      = 0              Prob > chi2    =     0.0526
P(surrogate "no")      = 0              Pseudo R2     =     0.0339
Log pseudolikelihood = -220.02124
```

partial	Robust		z	P> z	[95% Conf. Interval]	
	Coef.	Std. Err.				
crosswise	1.640846	.5820506	2.82	0.005	.5000476	2.781644
zurich	.7572907	.7581485	1.00	0.318	-.7286531	2.243234
munich	-.2324246	.7642652	-0.30	0.761	-1.730357	1.265508
female	.5202687	.5969944	0.87	0.383	-.6498187	1.690356
papers3or4	-.7994094	.7180947	-1.11	0.266	-2.206849	.6080304
papers5	-.3420689	.7012229	-0.49	0.626	-1.71644	1.032303
internet	1.392363	1.848611	0.75	0.451	-2.230848	5.015574
students	1.072526	.558806	1.92	0.055	-.022714	2.167765
_cons	-4.524949	1.658885	-2.73	0.006	-7.776303	-1.273595

```

. test zurich = munich
( 1) [partial]zurich - [partial]munich = 0
      chi2( 1) =    1.03
      Prob > chi2 =   0.3110
.
. esttab reg1 reg2 logit1 logit2, order(crosswise) ///
> compress mtitle nonumber star(+ 0.1 * 0.05 ** 0.01 *** 0.001)

```

	reg1	reg2	logit1	logit2
main				
crosswise		0.172** (2.69)		1.641** (2.82)
zurich	0.130 (0.77)	0.123 (0.96)	0.522 (0.53)	0.757 (1.00)
munich	-0.202 (-1.50)	-0.133 (-1.25)	-1.002 (-1.09)	-0.232 (-0.30)
female	0.0314 (0.27)	0.0409 (0.46)	0.232 (0.29)	0.520 (0.87)
papers3or4	-0.113 (-0.83)	-0.0976 (-0.91)	-0.675 (-0.78)	-0.799 (-1.11)
papers5	0.0880 (0.61)	0.0471 (0.43)	0.223 (0.27)	-0.342 (-0.49)
internet	0.173 (1.02)	0.148 (1.07)	1.012 (0.64)	1.392 (0.75)
students	0.190 (1.38)	0.161 (1.57)	0.955 (1.20)	1.073+ (1.92)
_cons	0.0344 (0.21)	-0.120 (-0.87)	-2.303+ (-1.78)	-4.525** (-2.73)
N	306	402	306	402

```

t statistics in parentheses
+ p<0.1, * p<0.05, ** p<0.01, *** p<0.001

```

6 Graph: Regression estimates

```

. coefplot reg2 reg1 || logit2 logit1, drop(_cons) xline(0) ///

```

```
> bylabels(LPM Logit) byopts(xrescale legend(off))
```

