texdoc 2.0
An update on creating LaTeX documents from within Stata

Example 2

Ben Jann

University of Bern, ben.jann@soz.unibe.ch

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Contents

1 The texdoc source file

```
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 LaTeX source file

Applying

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

generates to the following LaTeX 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

Contents

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
```

```
                    |     experimental
  location of data  |      condition
        collection  | crosswise     direct  |     Total
--------------------+------------------------+----------
        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         |
|-------------------|
|    frequency      |
|  row percentage   |
+-------------------+
```

```
experiment |
        al |         missing
 condition |        0          1  |     Total
-----------+----------------------+----------
 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 = (severe>=.)

. tab version missing if touse, missing row
```

```
+-------------------+
|       Key         |
|-------------------|
|    frequency      |
|  row percentage   |
+-------------------+
```

```
                              ┕━━━━━━━━━━━━━━━━┙

   experiment │
         al   │        missing
   condition  │        0            1 │     Total
──────────────┼────────────────────────┼───────────
   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     │
└──────────────────────┘
```

```
   experiment │
         al   │        missing
   condition  │        0            1 │     Total
──────────────┼────────────────────────┼───────────
   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                  │
```

4

```
┌─────────────────┐
│    frequency    │
│ column percentage │
└─────────────────┘
```

```
Enumerating sample-space combinations:
stage 3:   enumerations = 1
stage 2:   enumerations = 6
stage 1:   enumerations = 0
```

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

```
       Pearson chi2(2) =   1.3053   Pr = 0.521
       Fisher´s exact =                 0.557
. tab f1 version if touse, chi2 exact col
```

```
┌─────────────────┐
│ Key             │
├─────────────────┤
│    frequency    │
│ column percentage │
└─────────────────┘
```

| | | experimental | |
| | | condition | |
sex	crosswise	direct	Total
male	154	42	196
	49.68	43.30	48.16
female	156	55	211
	50.32	56.70	51.84
Total	310	97	407
	100.00	100.00	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             │
├─────────────────┤
│    frequency    │
│ column percentage │
└─────────────────┘
```

| | | experimental | |
| | | condition | |
nationality	crosswise	direct	Total

```
german or swiss |       288         93 |       381
                |     92.90      95.88 |     93.61
----------------+----------------------+----------
          other |        22          4 |        26
                |      7.10       4.12 |      6.39
----------------+----------------------+----------
          Total |       310         97 |       407
                |    100.00     100.00 |    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
-------------+----------------------------------   F(0, 95)        =      0.00
       Model |          0          0        .      Prob > F        =         .
    Residual | 6.48958333         95  .068311404   R-squared       =    0.0000
-------------+----------------------------------   Adj R-squared   =    0.0000
       Total | 6.48958333         95  .068311404   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
-------------+----------------------------------   F(0, 95)        =      0.00
       Model |          0          0        .      Prob > F        =         .
    Residual | .989583333         95  .010416667   R-squared       =    0.0000
-------------+----------------------------------   Adj R-squared   =    0.0000
       Total | .989583333         95  .010416667   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)
.
. rrreg partial 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	=	0.9623

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 ///
```

8

```
>       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(pyes) 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
```

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

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

    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**                  1.641**
                               (2.69)                    (2.82)

zurich             0.130        0.123        0.522        0.757
                  (0.77)       (0.96)       (0.53)       (1.00)

munich            -0.202       -0.133       -1.002       -0.232
                 (-1.50)      (-1.25)      (-1.09)      (-0.30)

female            0.0314       0.0409        0.232        0.520
                  (0.27)       (0.46)       (0.29)       (0.87)

papers3or4        -0.113      -0.0976       -0.675       -0.799
                 (-0.83)      (-0.91)      (-0.78)      (-1.11)

papers5           0.0880       0.0471        0.223       -0.342
                  (0.61)       (0.43)       (0.27)      (-0.49)

internet           0.173        0.148        1.012        1.392
                  (1.02)       (1.07)       (0.64)       (0.75)

students           0.190        0.161        0.955        1.073+
                  (1.38)       (1.57)       (1.20)       (1.92)

_cons             0.0344       -0.120       -2.303+      -4.525**
                  (0.21)      (-0.87)      (-1.78)      (-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) ///
```