

putdocx: 输出结果 So Easy

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实证研究的难点

- 获取数据
- 整理数据
- 模型估计
- 结果输出

结果输出

- 样本分布表
- 变量定义表
- 基本统计量表
- 分样本T检验表
- 相关系数表
- 回归分析表
- 各种稳健性检验表

结果输出中常见问题

- 手工录入vs机器录入
- 一个文件vs多个文件
- 要不要分页？
- 中文输出有没有乱码？
- 表格上面有没有表头？
- Pearson's vs Spearman
- 相关系数表是不是表？

esttab制表

```
sysuse auto, clear
lab var weight "车重 (weight)"
reg mpg weight headroom
est store m1
reg mpg weight length headroom
est store m2
reg mpg weight length foreign headroom
est store m3
esttab m1 m2 m3 using E:/Stata教程/rtf/mytable.rtf, ///
    replace star( * 0.10 ** 0.05 *** 0.01 ) staraux ///
    order(weight length ) drop(head*) r2 nogaps ///
    mtitles("model 1" "model 2" "模型3" ) label ///
    title("表6: This is the Second regression table")
```

esttab制表

Figure 6: This is the Second regression table.

	(1)	(2)	(3)
	model 1	model 2	model 3
weight	-0.00590 (-9.91)***	-0.00385 (-2.41)**	-0.00437 (-2.71)***
Length (in.)		-0.0785 (-1.38)	-0.0816 (-1.45)
Car type			-1.708 (-1.59)
Constant	39.74 (22.12)***	47.84 (7.78)***	50.49 (8.00)***
Observations	74	74	74
R ²	0.652	0.661	0.673

t statistics in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Esttab制表

- 中文乱码如何解决？
- 如何修改边框（粗细、格式、颜色）
- 如何修改字体（字体、字号、颜色）
- 背景颜色（背景的颜色、式样、浓度）
- 多个表格的合并

基本统计量表

```
tabstat price mpg rep78 foreign, s(N mean sd min p50 max) c(s)
```

variable	N	mean	sd	min	p50	max
price	74	6165.257	2949.496	3291	5006.5	15906
mpg	74	21.2973	5.785503	12	20	41
rep78	69	3.405797	.9899323	1	3	5
foreign	74	.2972973	.4601885	0	0	1



基本统计量表

```
estpost summarize price mpg rep78 foreign, detail
esttab using E:/Stata教程/rtf/mytable.rtf, ///
    cells ("count mean(fmt(3)) p50 sd(fmt(2)) min max ") ///
    noobs replace compress
```

基本统计量表

	(1)					
	count	mean	p50	sd	min	max
price	74	6165.257	5006.5	2949.50	3291	15906
mpg	74	21.297	20	5.79	12	41
rep78	69	3.406	3	0.99	1	5
foreign	74	0.297	0	0.46	0	1

Esttab 制表

```
clear all
sysuse auto, clear

estpost summarize price mpg rep78 foreign, detail
esttab using E:/Stata教程/rtf/mytable.rtf, ///
    cells("count mean(fmt(3)) p50 sd(fmt(2)) min max ") ///
    noobs replace compress

reg mpg weight headroom
est store m1
reg mpg weight length headroom
est store m2
reg mpg weight length foreign headroom
est store m3
esttab m1 m2 m3 using E:/Stata教程/rtf/mytable.rtf, ///
    append star( * 0.10 ** 0.05 *** 0.01 ) staraux r2 nogaps ///
    order(weight length ) drop(head*) ///
    mtitles("model 1" "model 2" "model 3" ) ///
    title("表6 again: This is the Second regression table")

shellout E:/Stata教程/rtf/mytable.rtf
```



	(1)					
	count	mean	p50	sd	min	max
price	74	6165.257	5006.5	2949.50	3291	15906
mpg	74	21.297	20	5.79	12	41
rep78	69	3.406	3	0.99	1	5
foreign	74	0.297	0	0.46	0	1

è"6 again: This is the Second regression table

	(1)	(2)	(3)
	model 1	model 2	model 3
weight	-0.00590	-0.00385	-0.00437
	(-9.91)***	(-2.41)**	(-2.71)***
length		-0.0785	-0.0816
		(-1.38)	(-1.45)
foreign			-1.708
			(-1.59)
_cons	39.74	47.84	50.49
	(22.12)***	(7.78)***	(8.00)***
<i>N</i>	74	74	74
<i>R</i> ²	0.652	0.661	0.673

t statistics in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$



Rtf系列命令

```
clear all
set more off
tempname handle
rtfopen `handle' using E:/Stata教程/rtf/mytable.rtf, replace
file write `handle' "{\qc \fs80 实证结果展示 \par}"
file write `handle' "{\pard\b \qc \fs60 Prof. Chuntao}"
file write `handle' " Lee \par}"

file write `handle' "{\pard\b \qc "

rtfhyper `handle', hyper("http://richdata.zuel.edu.cn") ///
      text("{\ul Our Wonderful website}")

file write `handle' "\par}"

file write `handle' "\qc \par"
file write `handle' "{\pard\b \qc \fs40 Email: "
rtfhyper `handle', hyper("{\ul cht1@zuel.edu.cn}")
file write `handle' "\par}"
rtfclose `handle'
```



实证结果展示 ↵

Prof. Chuntao Lee ↵

Our Wonderful website.

Email: cht1@zuel.edu.cn ↵



Putdocx开出来

Title

[P] **putdocx** — Generate Office Open XML (.docx) file

添加文字

Create document for export

```
putdocx begin [, pagesize(psize) landscape font(fspec)]
```

Add paragraph to document

```
putdocx paragraph [, paragraph_options]
```

Add text to paragraph

```
putdocx text (exp) [, text_options]
```

Add image to paragraph

```
putdocx image filename [, image_options]
```



添加表格

Add table to document

```
putdocx table tablename = (nrows, ncols) [, table_options]
```

```
putdocx table tablename = data(varlist) [if] [in] [, varnames obsno table_options]
```

```
putdocx table tablename = matrix(matname) [, nformat(%fmt) rownames colnames table_options]
```

```
putdocx table tablename = mata(matname) [, nformat(%fmt) table_options]
```

```
putdocx table tablename = etable[(#_1 #_2 ... #_n)] [, table_options]
```

```
putdocx table tablename = returnset [, table_options]
```



修改表格和行列

Customize rows and columns

```
putdocx table tablename(i,.), row_col_options
```

```
putdocx table tablename(.,j), row_col_options
```

Add and format contents to table

```
putdocx table tablename(i,j) = (exp) [, cell_options]
```

```
putdocx table tablename(i,j) = image(filename) [, image_options cell_options]
```

```
putdocx table tablename(i,j) = table(mem_tablename) [, cell_options]
```

```
putdocx table tablename(i,j), cell_options
```





Add page break to document

```
putdocx pagebreak
```

Describe current document

```
putdocx describe
```

Describe table

```
putdocx describe tablename
```

Close and save document

```
putdocx save filename [, replace|append]
```

Close without saving

```
putdocx clear
```

Append content of documents

```
putdocx append filename1 filename2 [filename3 [...]] [, saving(filename [, replace])
```



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www.uone-tech.cn

生成Cover Page

```
putdocx begin, pagesize(A4)
putdocx paragraph, halign(center) ///
    font("华文楷体",30,black)
putdocx text ("宗教信仰与教育回报: "), ///
    font("华文楷体",28,black) bold linebreak
putdocx text ("来自xxxx调查的证据"), ///
    font("华文楷体",20,black) bold linebreak
putdocx text ("普京耶夫斯基"), ///
    font("华文楷体",15,red) bold linebreak
putdocx text ("帝都大学经济系"), ///
    font("华文楷体",15,purple) bold linebreak
putdocx text ("阿三大波波娃"), ///
    font("华文楷体",15,green) bold linebreak
putdocx text ("魔都大学经济系"), ///
    font("华文楷体",15,gold) bold linebreak
```

```
putdocx save d:/mytable1.docx, replace
shellout d:/mytable1.docx
```

宗教信仰与教育回报：↓

来自 XXXX 调查的证据↓

普京耶夫斯基↓

帝都大学经济系↓

阿三大波波娃↓

鹿都大学经济系↓



数据分页输出

```
putdocx paragraph
putdocx text ("Table 2: the first table"), linebreak
putdocx table t2= data(make mpg price foreign) ///
    in 31/60, layout(autofitw) varnames obsno ///
border(all, nil) ///
border(top, thinThickThinMediumGap, black) ///
border(bottom, single, black)
```

```
putdocx table t2 (1, .), border(bottom, single, black)
putdocx table t2 (1, .), font("Arial", 20, green)
putdocx table t2 (1, .), shading(black, white, pct50)
putdocx table t2 (2, .), underline(dottedHeavy)
putdocx table t2 (3, .), strikeouts
```

```
putdocx describe t2
```

```
putdocx save d:/temp.docx, replace
```

```
shellout d:/temp.docx
```



Table 2: the first table ↓

↵

+

	make	mpg	price	foreign
31	<u>Merc. Marquis</u>	15	6,165	Domestic
32	<u>Merc. Monarch</u>	18	4,516	Domestic
33	<u>Merc. XR-7</u>	14	6,303	Domestic
34	<u>Merc. Zephyr</u>	20	3,291	Domestic
35	Olds 98	21	8,814	Domestic
36	Olds <u>Cutl Supr</u>	19	5,172	Domestic
37	Olds Cutlass	19	4,733	Domestic
38	Olds Delta 88	18	4,890	Domestic

基于putdocx的几个新命令

- `sum2docx` -- Report summary statistics to formatted table in DOCX file.
- `t2docx` -- Report Mean Comparison for a lot of variables between two groups with formatted table output in DOCX file.
- `corr2docx` -- Report Pearson&Spearman coefficient of correlation to formatted table in DOCX file.
- `reg2docx` -- Report regression results to formatted table in DOCX file.



存在的问题

- Putdocx 还是一个全新的命令
- 存在的问题是在所难免的
- 我们希望能得到改进

No return values for table describe

- 比如我们定义了一个表格t1
- `Putdocx describe t1`可以给出该表格的行数和列数，但是只是打印在屏幕上
- 并没有给出return code
- 如果能给出，则可以比较容易地改变表格的格式



Row and column options

- 假定你要修改第三行，在第三行加上边框
- 7月30日的update已经fix了

Content append

- Suppose there is already something inside a cell and we want to append something else, there will be an enter key, which is better deleted.
- Or give us an option to keep

Table format

- Like MS word, I wish we have some hot table format, such as simplex, as well as some formats for different journals.
- We wish we permit users to define his or her most favorite format
- We wish a short command like
 - `putdocx table t1, format(Simplex)`



hyperlink

- Text link. We do need to add link to certain texts.
- Why not we permit users to add a link to a text or the content of a cell?
- There should be a link(url) option to the following command:
- Putdocx text (“text”), link(url)
- Putdocx image filename, link(url)
- Putdocx table t1, link(url)
- Putdocx table t1(i,j)=(exp), link(url)



Footnote

- We wish that putdocx can permit users to add footnote to the docx file
 - Putdocx text (“Footnote text”), footnote order(#)
font()



Cell content

- How can I get the content for a single cell?
- Is it possible to get the content with a putdocx describe command?



Add a column or a row

- Suppose we add a column after the first row
- the first row has a bottom border
- in this case the newly added row will also have a bottom border.
- It will not have a bottom border if the first row do not have a bottom border.

Math equation

- Is it possible to input math equations from a stata command line?
- Like that of LaTeX??



Inverse convert

- Is it possible to convert a word docx file into a Stata do file?
- From DOCX to do??
- A inverse of putdocx might be another command!

portrait vs landscape

- Sometimes we may need to have some pages layout as portrait and some pages layout as landscape.
- If we append a portrait page to a landscape, the result will be a file of landscape pages.
- This is not friendly and we wish a change.



Table title and note

- we wish the `putdocx table` command can have a `note()` option to let us key-in a note right after the table.
- We also wish it can permit us to add a table title.