

Creating customized reports in Word, Excel, and PDF

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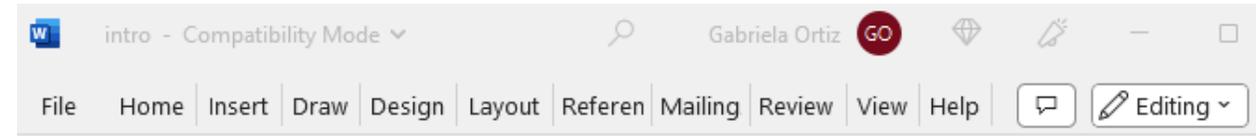
Run this do-file

```
use low, clear
putdocx begin
putdocx textblock begin, style(Title)
Analysis of birthweights
putdocx textblock end
putdocx textblock begin
We have data on birthweights from Hosmer,
Lemeshow, and Sturdivant (2013, 24).
putdocx textblock end
graph hbar bwt, over(ht) over(smoke) asyvars ///
    title(Baby birthweights)
graph export bweight.png, replace
putdocx image bweight.png, width(4)
regress bwt i.smoke age, noheader cformat(%9.2f)
putdocx table bweight = etable
putdocx save bwreport, replace
```

Run this do-file

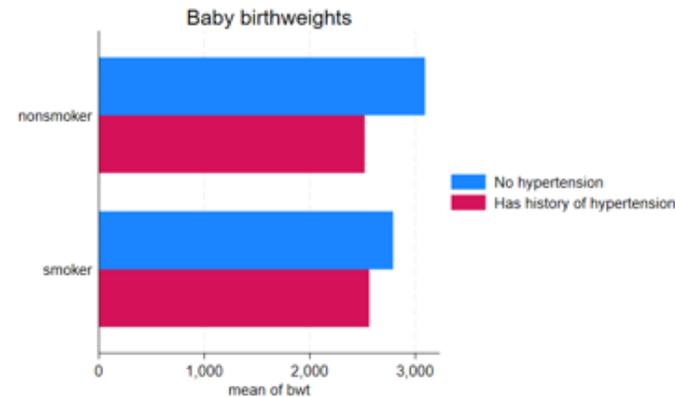
```
use low, clear
putdocx begin
putdocx textblock begin, style(Title)
Analysis of birthweights
putdocx textblock end
putdocx textblock begin
We have data on birthweights from Hosmer,
Lemeshow, and Sturdivant (2013, 24).
putdocx textblock end
graph hbar bwt, over(ht) over(smoke) asyvars ///
    title(Baby birthweights)
graph export bweight.png, replace
putdocx image bweight.png, width(4)
regress bwt i.smoke age, noheader cformat(%9.2f)
putdocx table bweight = etable
putdocx save bwreport, replace
```

Obtain this Word document



Analysis of birthweights

We have data on birthweights from Hosmer, Lemeshow, and Sturdivant (2013, 24).



	bwt	Coefficient	Std. err.	t	P> t	[95% conf. interval]
smoke						
smoker		-277.29	106.98	-2.59	0.010	-488.34 -66.24
age		11.18	9.88	1.13	0.259	-8.31 30.67
_cons		2793.08	240.93	11.59	0.000	2317.77 3268.40

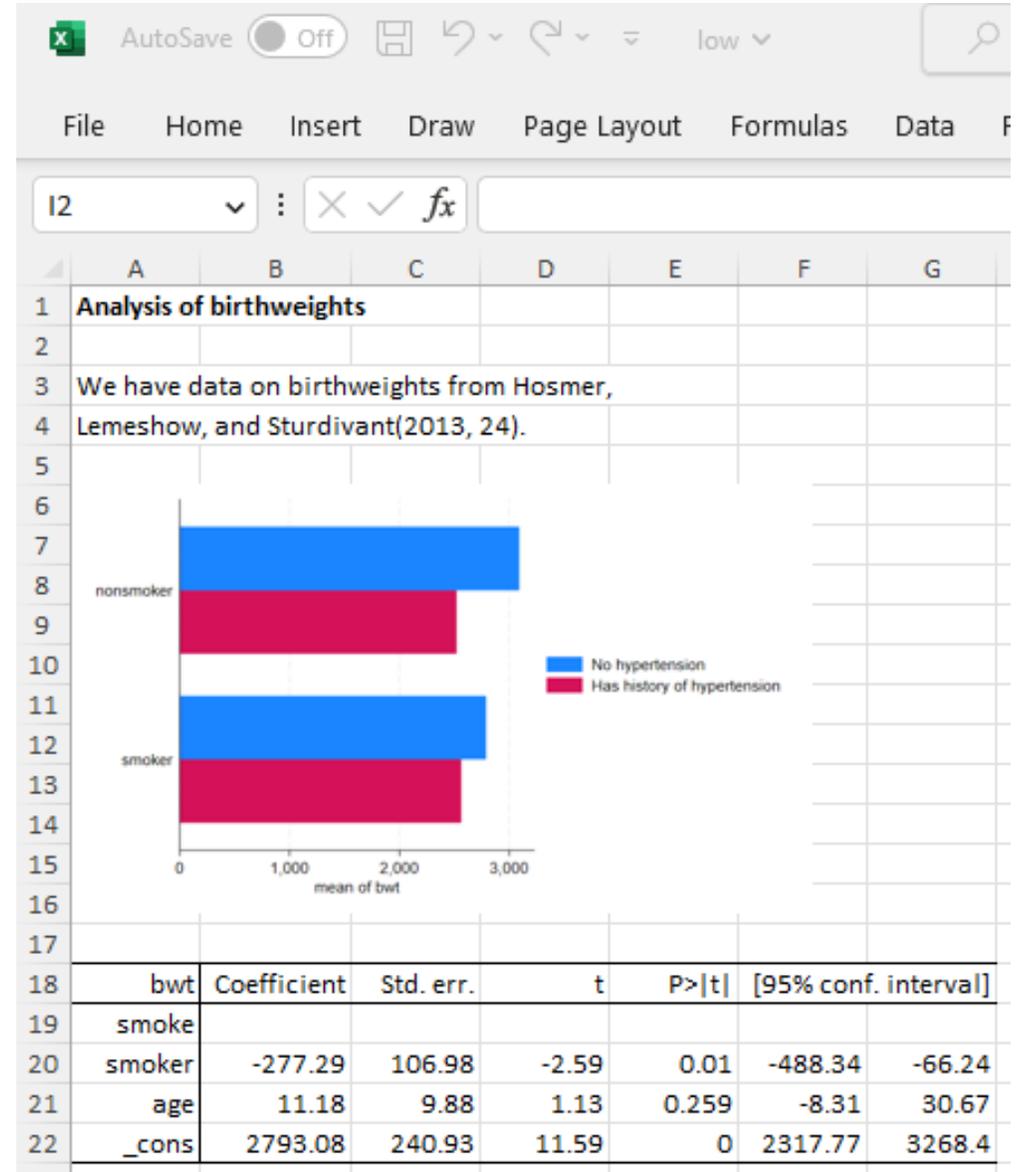
Run this do-file

```
use low, clear
putexcel set low.xlsx, replace
putexcel A1 = "Analysis of birthweights", bold
putexcel A3 = "We have data on birthweights from Hosmer, "
putexcel A4 = "Lemeshow, and Sturdivant(2013, 24). "
graph hbar bwt, over(ht) over(smoke) asyvars
graph export bweight.png, replace
putexcel A7 = image(bweight.png)
regress bwt i.smoke age, cformat(%9.2f)
putexcel A24 = etable
putexcel F24:G24, merge
putexcel save
```

Run this do-file

```
use low, clear
putexcel set low.xlsx, replace
putexcel A1 = "Analysis of birthweights", bold
putexcel A3 = "We have data on birthweights from Hosmer, "
putexcel A4 = "Lemeshow, and Sturdivant(2013, 24). "
graph hbar bwt, over(ht) over(smoke) asyvars
graph export bweight.png, replace
putexcel A6 = image(bweight.png)
regress bwt i.smoke age, cformat(%9.2f)
putexcel A18 = etable
putexcel F18:G18, merge
putexcel save
```

Obtain this Excel file



Overview

- Create reproducible reports with formatted results
 - Summary statistics, estimation results, and graphs
- Create reports in Word, Excel, and PDF format
 - **putdocx**, **putexcel**, and **docx2pdf**

Overview

- Create reproducible reports with formatted results
 - Summary statistics, estimation results, and graphs
- Create reports in Word, Excel, and PDF format
 - **putdocx**, **putexcel**, and **docx2pdf**
- Create a Word document with a header, footer, and page numbers
- Append multiple Word documents, and interact Stata's features with Word's features
- Create automated reports

Data on birthweights

Contains data from **low.dta**

obs: **189**
vars: **12**

Hosmer & Lemeshow data
15 Oct 2019 13:40

variable name	storage type	display format	value label	variable label
id	int	%8.0g		identification code
low	byte	%8.0g		birthweight<2500g
age	byte	%8.0g		age of mother
lwt	int	%8.0g		weight at last menstrual period
race	byte	%8.0g	race	race
smoke	byte	%9.0g	smoke	smoked during pregnancy
ptl	byte	%8.0g		premature labor history (count)
ht	byte	%27.0g	htlabel	has history of hypertension
ui	byte	%8.0g		presence, uterine irritability
ftv	byte	%8.0g		number of visits to physician during 1st trimester
bwt	int	%8.0g		birthweight (grams)
agegrp	float	%9.0g		

Analysis on birthweights

```
use low, clear
```

```
/* 1. How many observations in our dataset ? */
```

```
summarize bwt
```

Analysis on birthweights

```
use low, clear
```

```
/* 1. How many observations in our dataset ? */
```

```
summarize bwt
```

```
local total = r(N)
```

```
. summarize bwt
```

Variable	Obs	Mean	Std. dev.	Min	Max
bwt	189	2944.286	729.016	709	4990

```
. return list
```

```
scalars:
```

```
      r(N) = 189  
r(sum_w) = 189  
r(mean) = 2944.285714285714  
r(Var) = 531464.3541033434  
r(sd) = 729.0160177275554  
r(min) = 709  
r(max) = 4990  
r(sum) = 556470
```

Analysis on birthweights

```
use low, clear
```

```
/* 1. How many observations in our dataset ? */
```

```
summarize bwt
```

```
local total = r(N)
```

```
/* 2. How many mothers in this dataset smoked during pregnancy? */
```

```
count if smoke==1
```

```
. count if smoke==1  
74
```

```
. return list
```

```
scalars:
```

```
r(N) = 74
```

Analysis on birthweights

```
use low, clear
```

```
/* 1. How many observations in our dataset ? */
```

```
summarize bwt
```

```
local total = r(N)
```

```
/* 2. How many mothers in this dataset smoked during pregnancy? */
```

```
count if smoke==1
```

```
/* 3. How many didn't? */
```

```
display `total'-r(N)
```

```
. summarize bwt
```

Variable	Obs	Mean	Std. dev.	Min	Max
bwt	189	2944.286	729.016	709	4990

```
. local total = r(N)
```

```
. count if smoke==1
```

```
74
```

```
. display `total'-r(N)
```

```
115
```

Analysis on birthweights

```
use low, clear
```

```
/* 1. How many observations in our dataset ? */
```

```
summarize bwt
```

```
local total = r(N)
```

```
/* 2. How many mothers in this dataset smoked during pregnancy? */
```

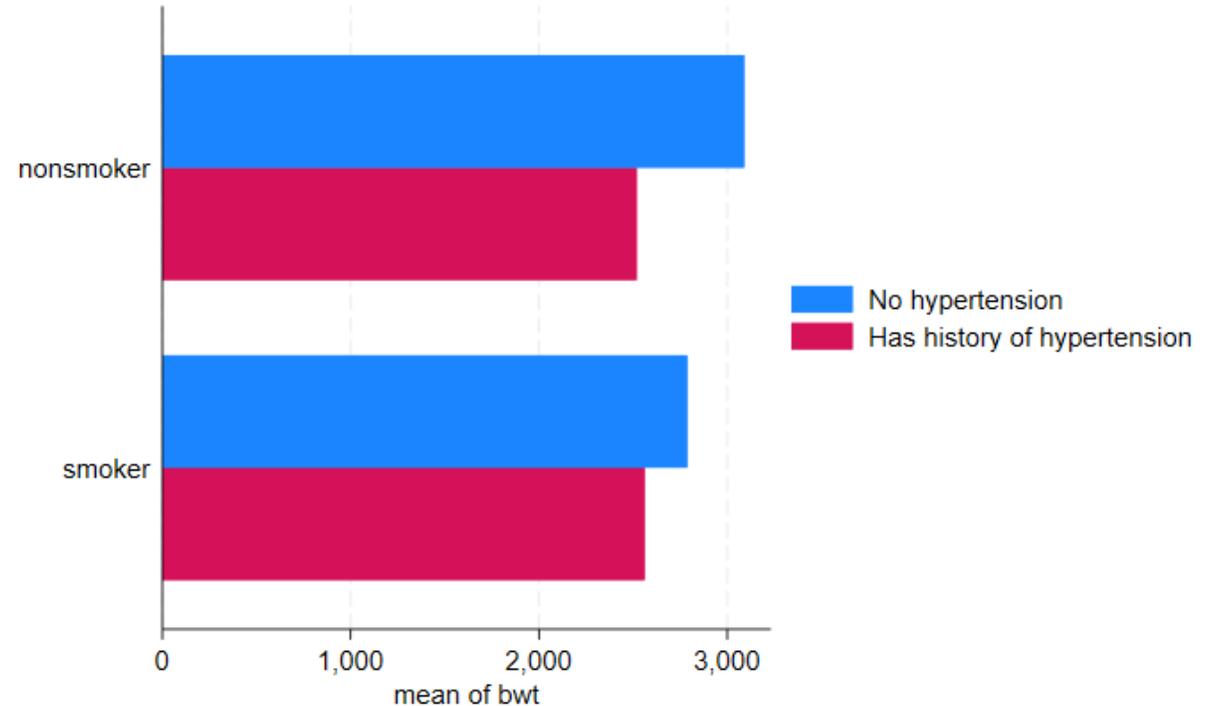
```
count if smoke==1
```

```
/* 3. How many didn't? */
```

```
display `total'-r(N)
```

```
/* 4. How does birthweight vary across mothers' smoking habits while pregnant, and their history of hypertension ? */
```

```
graph hbar bwt, over(ht) over(smoke) asyvars
```



Analysis on birthweights

```
use low, clear
```

```
/* 1. How many observations in our dataset ? */
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```
summarize bwt
```

```
local total = r(N)
```

```
/* 2. How many mothers in this dataset smoked during pregnancy? */
```

```
count if smoke==1
```

```
/* 3. How many didn't? */
```

```
display `total'-r(N)
```

```
/* 4. How does birthweight vary across mothers' smoking habits while pregnant, and their history of hypertension ? */
```

```
graph hbar bwt, over(ht) over(smoke) asyvars
```

```
/* 5. Model birthweight as a function of smoking and maternal age */
```

```
regress bwt i.smoke age, cformat(%9.2f)
```

```
. use low, clear  
(Hosmer & Lemeshow data)
```

```
. summarize bwt
```

Variable	Obs	Mean	Std. dev.	Min	Max
bwt	189	2944.286	729.016	709	4990

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. local total = r(N)
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74
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```
. display `total'-r(N)  
115
```

```
. graph hbar bwt, over(ht) over(smoke) asyvars
```

```
. regress bwt i.smoke age, cformat(%9.2f)
```

Source	SS	df	MS	Number of obs	=	189
Model	4255739.01	2	2127869.51	F(2, 186)	=	4.14
Residual	95659559.6	186	514298.707	Prob > F	=	0.0175
				R-squared	=	0.0426
				Adj R-squared	=	0.0323
Total	99915298.6	188	531464.354	Root MSE	=	717.15

bwt	Coefficient	Std. err.	t	P> t	[95% conf. interval]
smoke smoker	-277.29	106.98	-2.59	0.010	-488.34 -66.24
age	11.18	9.88	1.13	0.259	-8.31 30.67
_cons	2793.08	240.93	11.59	0.000	2317.77 3268.40

Creating a Word document in Stata

```
putdocx begin
```

Creating a Word document in Stata

```
putdocx begin
```

```
putdocx paragraph
```

```
putdocx text (" Hello my webinar friends.")
```

```
putdocx text (" How are you doing today? ")
```

Creating a Word document in Stata

```
putdocx begin
```

```
putdocx textblock begin
```

```
Hello my webinar friends. How are you  
doing today?
```

```
putdocx textblock end
```

Creating a Word document in Stata

```
putdocx begin
```

```
putdocx textblock begin
```

```
Hello my webinar friends. How are you  
doing today?
```

```
putdocx textblock end
```

```
putdocx image emoji.png
```

Creating a Word document in Stata

```
putdocx begin
```

```
putdocx textblock begin
```

```
Hello my webinar friends. How are you  
doing today?
```

```
putdocx textblock end
```

```
putdocx image emoji.png
```

```
dtable ...
```

```
putdocx collect
```

```
table ...
```

```
putdocx collect
```

Creating a Word document in Stata

```
putdocx begin
```

```
putdocx textblock begin
```

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```

```
putdocx textblock end
```

```
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```

```
dtable ...
```

```
putdocx collect
```

```
table ...
```

```
putdocx collect
```

```
your_estimation_command
```

```
putdocx table mytable = etable
```

Creating a Word document in Stata

```
putdocx begin
```

```
putdocx textblock begin
```

```
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```

```
putdocx textblock end
```

```
putdocx image emoji.png
```

```
dtable ...
```

```
putdocx collect
```

```
table ...
```

```
putdocx collect
```

```
your_estimation_command
```

```
putdocx table mytable = etable
```

```
putdocx save myfile
```

Analysis on birthweights

```
use low, clear
```

```
/* 1. How many observations in our dataset ? */
```

```
summarize bwt
```

```
local total = r(N)
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```
/* 2. How many mothers in this dataset smoked during pregnancy? */
```

```
count if smoke==1
```

```
/* 3. How many didn't? */
```

```
display `total'-r(N)
```

```
/* 4. How does birthweight vary across mothers' smoking habits while pregnant, and their history of hypertension ? */
```

```
graph hbar bwt, over(ht) over(smoke) asyvars
```

```
/* 5. Model birthweight as a function of smoking and maternal age */
```

```
regress bwt i.smoke age, cformat(%9.2f)
```

```
. use low, clear  
(Hosmer & Lemeshow data)
```

```
. summarize bwt
```

Variable	Obs	Mean	Std. dev.	Min	Max
bwt	189	2944.286	729.016	709	4990

```
. local total = r(N)
```

```
. count if smoke==1  
74
```

```
. display `total'-r(N)  
115
```

```
. graph hbar bwt, over(ht) over(smoke) asyvars
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Source	SS	df	MS	Number of obs	=	189
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age	11.18	9.88	1.13	0.259	-8.31 30.67
_cons	2793.08	240.93	11.59	0.000	2317.77 3268.40

Creating a reproducible Word document

```
version 18
```

```
putdocx clear
```

Create a document in memory

version 18

putdocx clear

use low, clear

putdocx begin

Embed text and results in a Word document

```
version 18
```

```
putdocx clear
```

```
use low, clear
```

```
putdocx begin
```

```
summarize bwt
```

```
local total = r(N)
```

```
putdocx textblock begin
```

```
We have the recorded weight for <<dd_docx_display: `total'>> babies with an  
average birthweight of <<dd_docx_display: %7.2f r(mean)>> grams.
```

```
putdocx textblock end
```

Embed text and results in a Word document

```
version 18
```

```
putdocx clear
```

```
use low, clear
```

```
putdocx begin
```

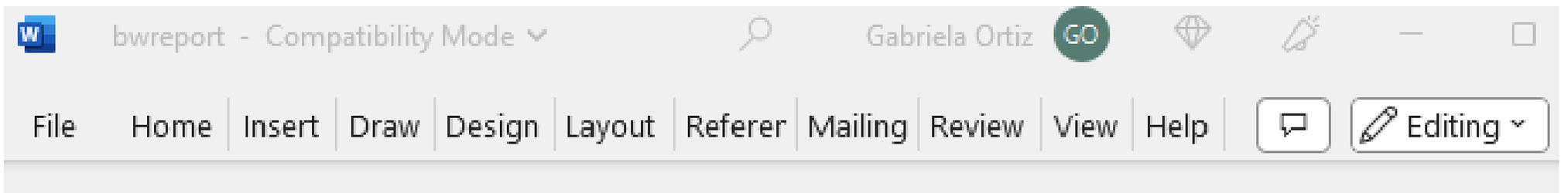
```
summarize bwt
```

```
local total = r(N)
```

```
putdocx textblock begin
```

```
We have the recorded weight for <<dd_docx_display: `total'>> babies with an  
average birthweight of <<dd_docx_display: %7.2f r(mean)>> grams.
```

```
putdocx textblock end
```



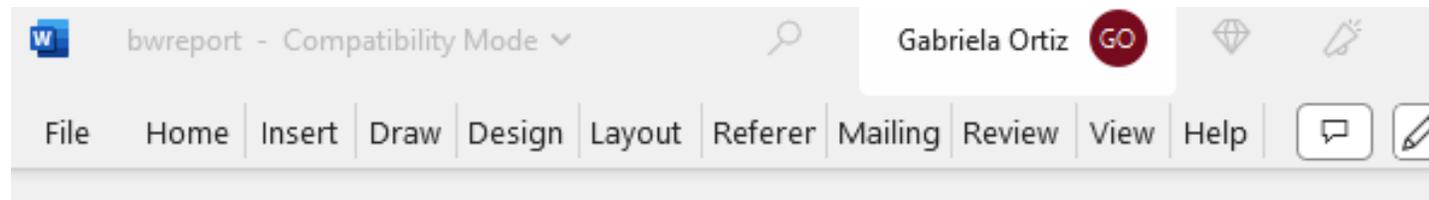
We have the recorded weight for 189 babies with an average birthweight of 2944.29 grams.

Embed text and results in a Word document

```
version 18
putdocx clear
use low, clear
putdocx begin
summarize bwt
local total = r(N)
putdocx textblock begin
We have the recorded weight for <<dd_docx_display: `total'>> babies with an
average birthweight of <<dd_docx_display: %5.2f r(mean)>> grams.
putdocx textblock end
count if smoke==1
putdocx textblock append
There are <<dd_docx_display: r(N)>> mothers who smoked during pregnancy
and <<dd_docx_display: `total'-r(N)>> who did not.
putdocx textblock end
```

Embed text and results in a Word document

```
version 18
putdocx clear
use low, clear
putdocx begin
summarize bwt
local total = r(N)
putdocx textblock begin
We have the recorded weight for <<dd_docx_display: `total'>> babies with an
average birthweight of <<dd_docx_display: %5.2f r(mean)>> grams.
putdocx textblock end
count if smoke==1
putdocx textblock append
There are <<dd_docx_display: r(N)>> mothers who smoked during pregnancy and <<dd_docx_display: `total'-r(N)>>
who did not.
```



We have the recorded weight for 189 babies with an average birthweight of 2944.29 grams. There are 74 mothers who smoked during pregnancy and 115 who did not.

Embed a Stata graph in a Word document

```
version 18
putdocx clear
use low, clear
putdocx begin
summarize bwt
local total = r(N)
putdocx textblock begin
We have the recorded weight for <<dd_docx_display: `total'>> babies with an
average birthweight of <<dd_docx_display: %5.2f r(mean)>> grams.
putdocx textblock end
count if smoke==1
putdocx textblock append
There are <<dd_docx_display: r(N)>> mothers who smoked during pregnancy,
and <<dd_docx_display: `total'-r(N)>> who did not.
putdocx textblock end
```

```
graph hbar bwt, over(ht) over(smoke) asyvars
```

```
graph export bweight.png
```

```
putdocx image bweight.png
```

Embed a Stata graph in a Word document

```
version 18
putdocx clear

use low, clear

putdocx begin

summarize bwt

local total = r(N)

putdocx textblock begin

We have the recorded weight for <<dd_docx_display: `total'>> babies with an
average birthweight of <<dd_docx_display: %5.2f r(mean)>> grams.

putdocx textblock end

count if smoke==1

putdocx textblock append

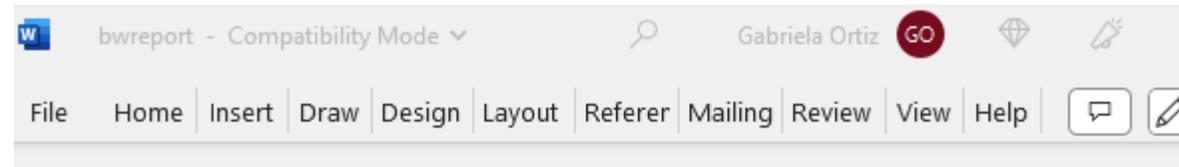
There are <<dd_docx_display: r(N)>> mothers who smoked during pregnancy,
and <<dd_docx_display: `total'-r(N)>> who did not.

putdocx textblock end
```

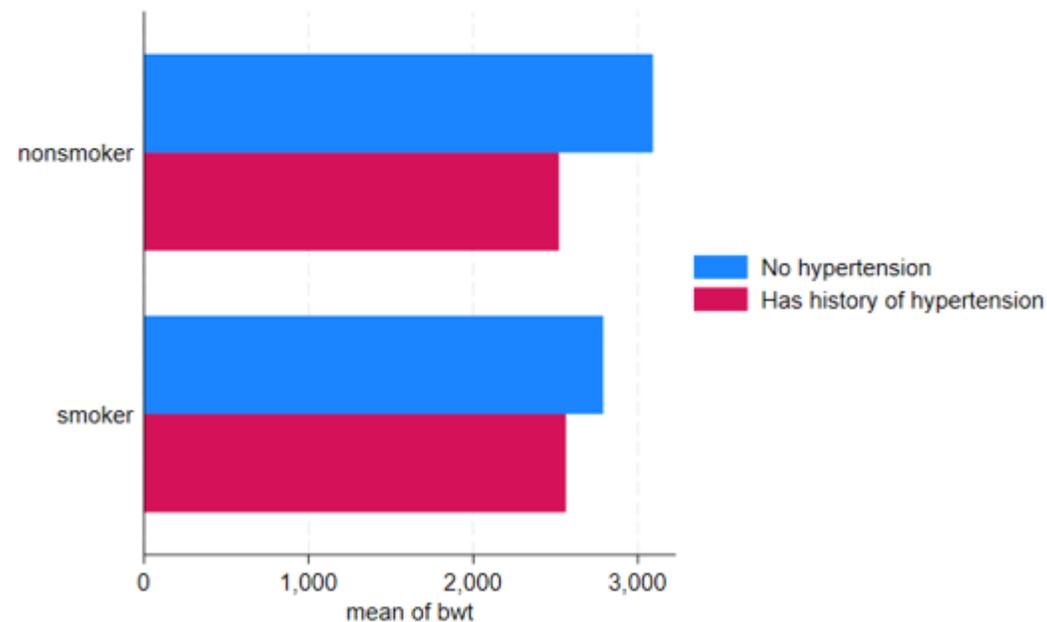
```
graph hbar bwt, over(ht) over(smoke) asyvars
```

```
graph export bweight.png
```

```
putdocx image bweight.png
```



We have the recorded weight for 189 babies with an average birthweight of 2944.29 grams. There are 74 mothers who smoked during pregnancy and 115 who did not.



Embed a table of estimation results

```
version 18

putdocx clear

use low, clear

putdocx begin

summarize bwt

local total = r(N)

putdocx textblock begin

We have the recorded weight for <<dd_docx_display: `total'>> babies with an
average birthweight of <<dd_docx_display: %5.2f r(mean)>> grams.

putdocx textblock end

count if smoke==1

putdocx textblock append

  There are <<dd_docx_display: r(N)>> mothers who smoked during pregnancy,
  and <<dd_docx_display: `total'-r(N)>> who did not.

putdocx textblock end

graph hbar bwt, over(ht) over(smoke) asyvars

graph export bweight.png

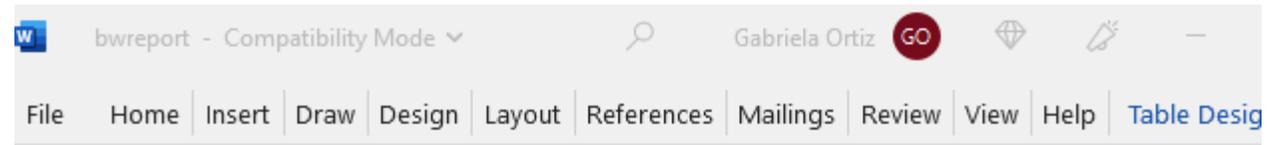
putdocx image bweight.png

regress bwt i.smoke age, cformat(%9.2f)

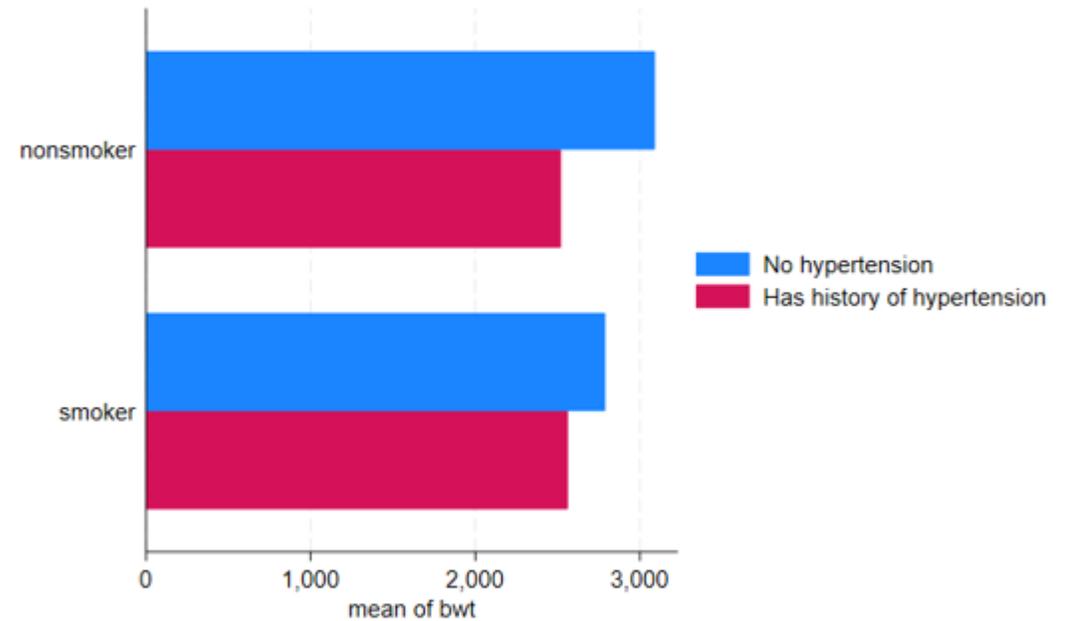
putdocx table bweight = etable
```

Embed a table of estimation results

```
version 18
putdocx clear
use low, clear
putdocx begin
summarize bwt
local total = r(N)
putdocx textblock begin
We have the recorded weight for <<dd_docx_display: `total'>> babies with an
average birthweight of <<dd_docx_display: %5.2f r(mean)>> grams.
putdocx textblock end
count if smoke==1
putdocx textblock append
  There are <<dd_docx_display: r(N)>> mothers who smoked during pregnancy,
  and <<dd_docx_display: `total'-r(N)>> who did not.
putdocx textblock end
graph hbar bwt, over(ht) over(smoke) asyvars
graph export bweight.png
putdocx image bweight.png
regress bwt i.smoke age, cformat(%9.2f)
putdocx table bweight = etable
```



We have the recorded weight for 189 babies with an average birthweight of 2944.29 grams. There are 74 mothers who smoked during pregnancy and 115 who did not.



bwt	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
smoke						
smoker	-277.29	106.98	-2.59	0.010	-488.34	-66.24
age	11.18	9.88	1.13	0.259	-8.31	30.67
_cons	2793.08	240.93	11.59	0.000	2317.77	3268.40

Add comments on the output

```
version 18

putdocx clear

use low, clear

putdocx begin

summarize bwt

local total = r(N)

putdocx textblock begin

We have the recorded weight for <<dd_docx_display: `total'>> babies with an

average birthweight of <<dd_docx_display: %5.2f r(mean)>> grams.

putdocx textblock end

count if smoke==1

putdocx textblock append

There are <<dd_docx_display: r(N)>> mothers who smoked during pregnancy,

and <<dd_docx_display: `total'-r(N)>> who did not.

putdocx textblock end

graph hbar bwt, over(ht) over(smoke) asyvars

graph export bweight.png

putdocx image bweight.png

regress bwt i.smoke age, cformat(%9.2f)

putdocx table bweight = etable
```

putdocx textblock begin

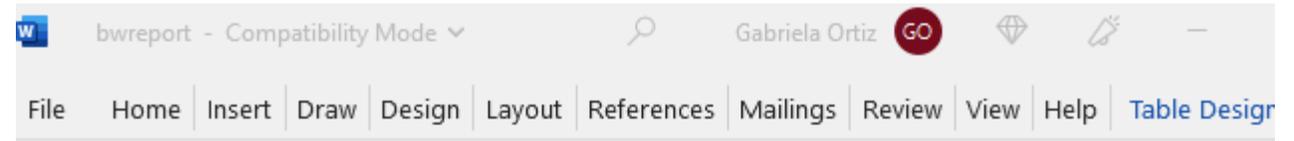
We find that on average, infants whose mothers smoked tend to weigh less.

putdocx textblock end

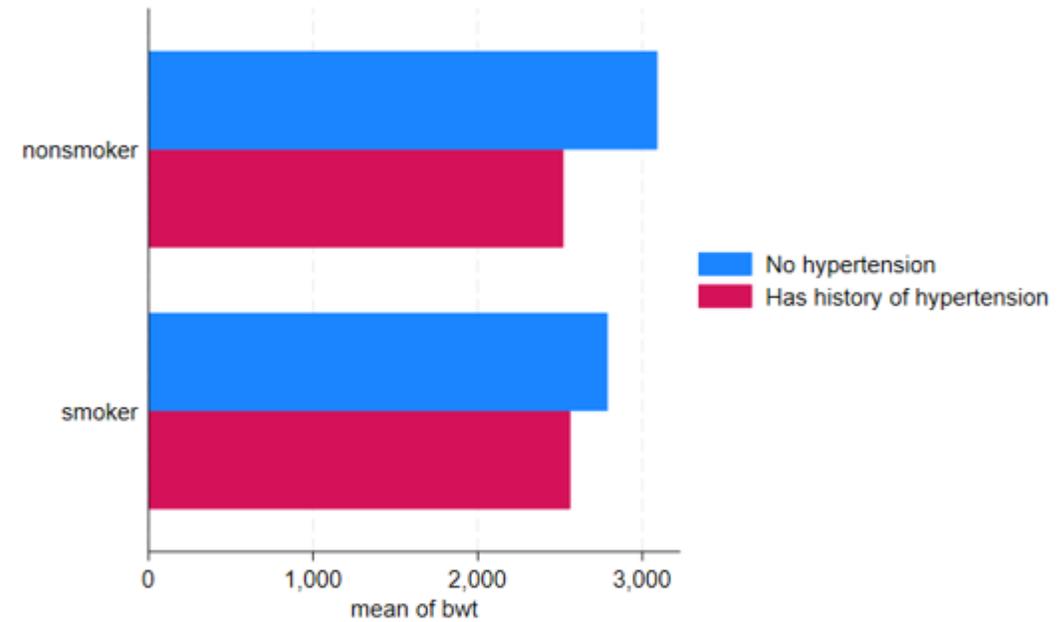
putdocx save bwreport, replace

Create a report in Word

```
version 18
putdocx clear
use low, clear
putdocx begin
summarize bwt
local total = r(N)
putdocx textblock begin
We have the recorded weight for <<dd_docx_display: `total'>> babies with an
average birthweight of <<dd_docx_display: %7.2f r(mean)>> grams.
putdocx textblock end
count if smoke==1
putdocx textblock append
There are <<dd_docx_display: r(N)>> mothers who smoked during pregnancy,
and <<dd_docx_display: `total'-r(N)>> who did not.
putdocx textblock end
graph hbar bwt, over(ht) over(smoke) asyvars
graph export bweight.png
putdocx image bweight.png
regress bwt i.smoke age, cformat(%9.2f)
putdocx table bweight = etable
putdocx textblock begin
We find that on average, infants whose mothers smoked tend to weigh less.
putdocx textblock end
putdocx save bwreport, replace
```



We have the recorded weight for 189 babies with an average birthweight of 2944.29 grams. There are 74 mothers who smoked during pregnancy and 115 who did not.



bwt	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
smoke						
smoker	-277.29	106.98	-2.59	0.010	-488.34	-66.24
age	11.18	9.88	1.13	0.259	-8.31	30.67
_cons	2793.08	240.93	11.59	0.000	2317.77	3268.40

We find that on average, infants whose mothers smoked tend to weigh less.

Create a report in Excel

Create a report in Excel

```
putexcel set myfile
```

Create a report in Excel

```
putexcel set myfile
```

```
putexcel A2 = "Hello webinar friends."
```

```
putexcel A3 = `r(mean)'
```

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putexcel A5 = image(emoji.png)
```

```
putexcel A7 = formula(Excel_formula)
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```

```
dtable ...
```

```
putexcel A9 = collect
```

```
table ...
```

```
putexcel A15 = collect
```

```
your_estimation_command
```

```
putexcel A20 = etable
```

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```

```
table ...
```

```
Putexcel A15 = collect
```

```
your_estimation_command
```

```
putexcel A20 = etable
```

```
putexcel save
```

Set an Excel workbook for export

```
use low3, clear
```

```
putexcel set low.xlsx, replace
```

Write expressions to an Excel workbook

```
use low, clear
```

```
putexcel set low.xlsx, replace
```

```
putexcel A1 = "Analysis of birthweights", bold
```

```
putexcel A1:C1, border(bottom, thick) merge hcenter
```

```
putexcel A3 = "We have data on birthweights from Hosmer, "
```

```
putexcel A4 = "Lemeshow, and Sturdivant(2013, 24). "
```

Write expressions to an Excel workbook

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putexcel A1:C1, border(bottom, thick) merge hcenter
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```

```
putexcel A4 = "Lemeshow, and Sturdivant(2013, 24). "
```

	A	B	C
1	Analysis of birthweights		
2			
3	We have data on birthweights from Hosmer,		
4	Lemeshow, and Sturdivant(2013, 24).		
5			

Export a table of descriptive statistics to an Excel workbook

```
use low, clear  
putexcel set low.xlsx, replace  
putexcel A1 = "Analysis of birthweights", bold  
putexcel A1:E1, border(bottom, thick) merge hcenter  
putexcel A3 = "We have data on birthweights from Hosmer, "  
putexcel A4 = "Lemeshow, and Sturdivant(2013, 24). "
```

```
dtable age lwt i.ht i.smoke, by(low)
```

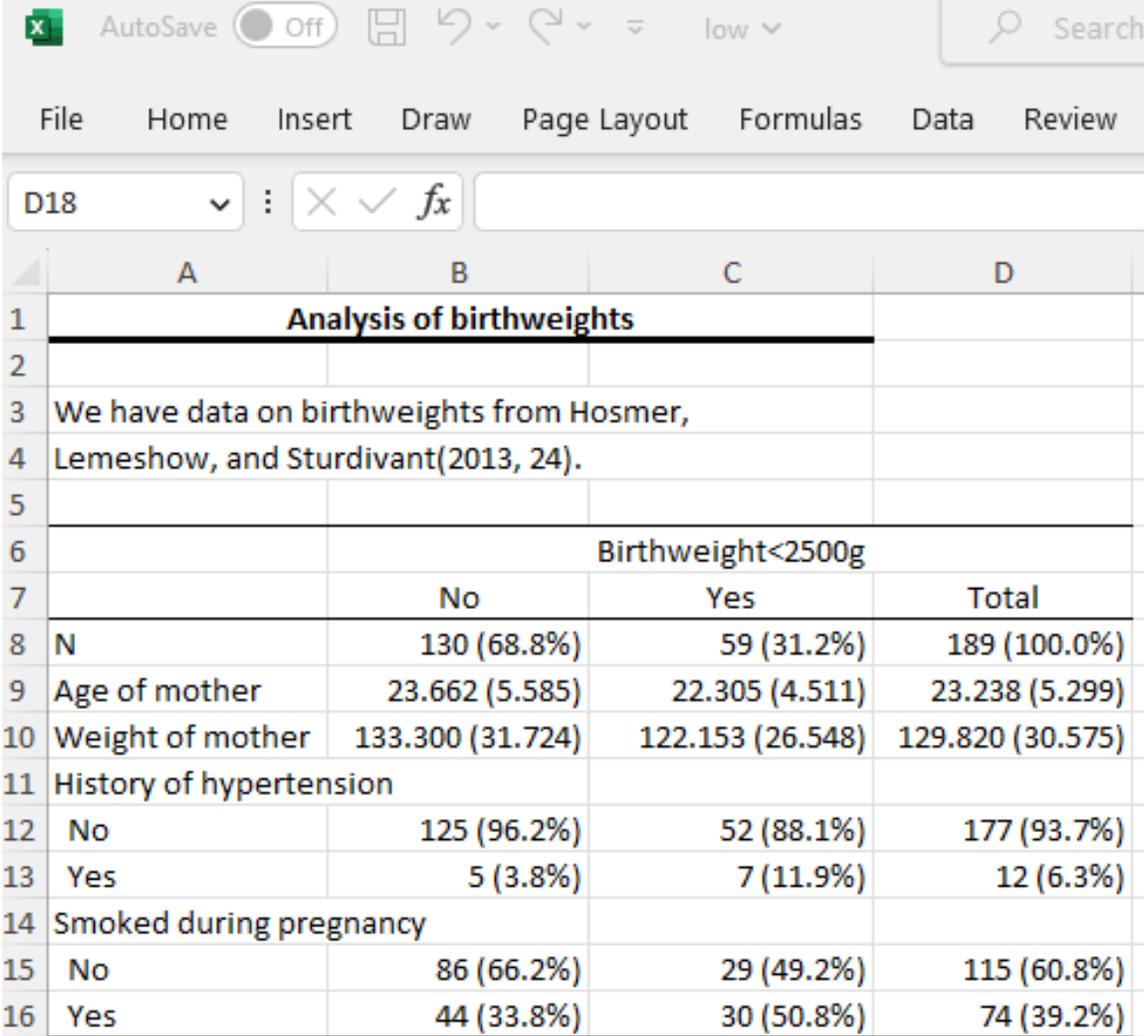
```
putexcel A6 = collect
```

Export a table of descriptive statistics to an Excel workbook

```
use low2, clear
putexcel set low.xlsx, replace
putexcel A1 = "Analysis of birthweights", bold
putexcel A1:C1, border(bottom, thick) merge hcenter
putexcel A3 = "We have data on birthweights from Hosmer, "
putexcel A4 = "Lemeshow, and Sturdivant(2013, 24). "
```

```
dtable age lwt i.ht i.smoke, by(low)
```

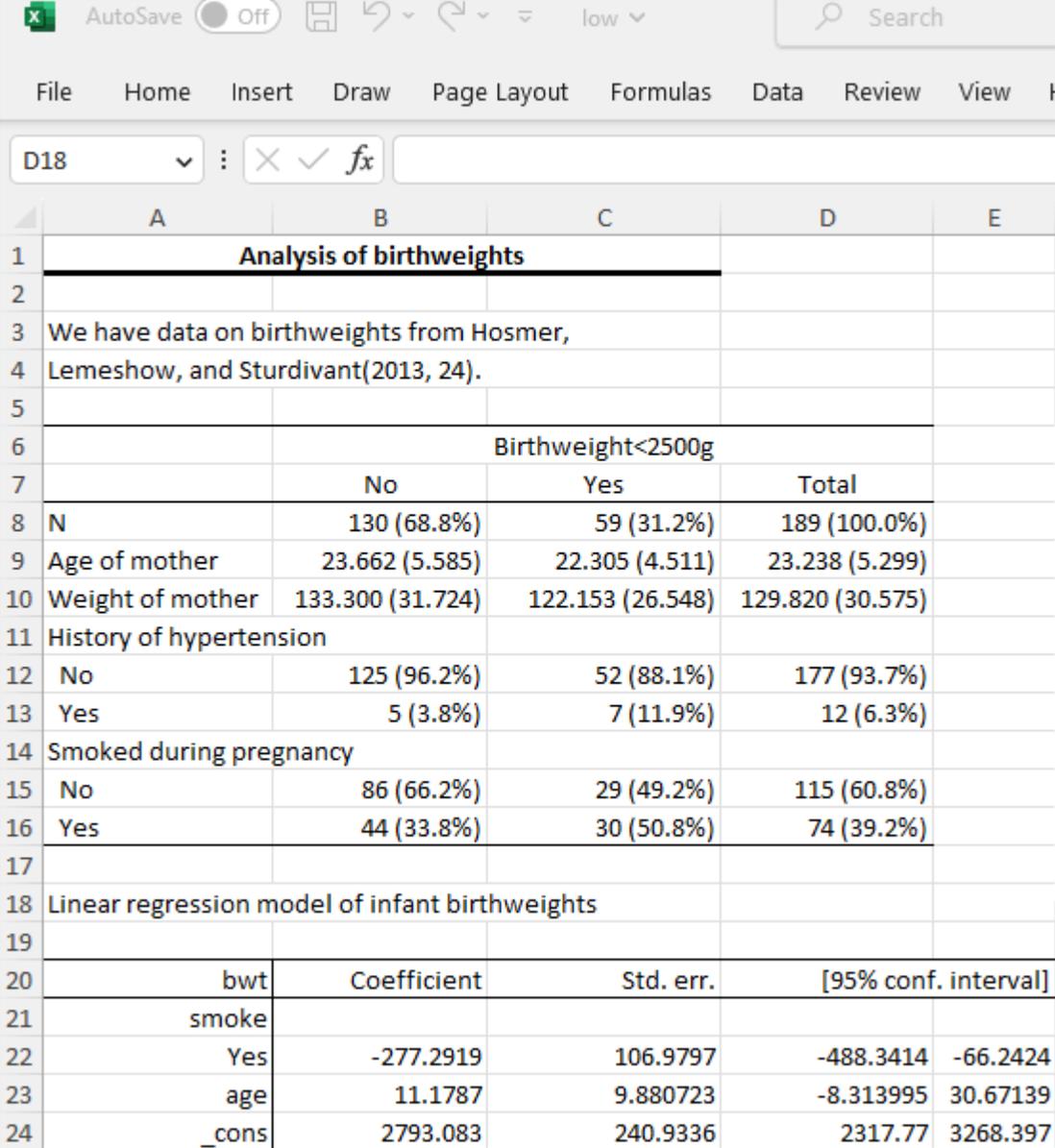
```
putexcel A6 = collect
```



	A	B	C	D
1	Analysis of birthweights			
2				
3	We have data on birthweights from Hosmer,			
4	Lemeshow, and Sturdivant(2013, 24).			
5				
6		Birthweight<2500g		
7		No	Yes	Total
8	N	130 (68.8%)	59 (31.2%)	189 (100.0%)
9	Age of mother	23.662 (5.585)	22.305 (4.511)	23.238 (5.299)
10	Weight of mother	133.300 (31.724)	122.153 (26.548)	129.820 (30.575)
11	History of hypertension			
12	No	125 (96.2%)	52 (88.1%)	177 (93.7%)
13	Yes	5 (3.8%)	7 (11.9%)	12 (6.3%)
14	Smoked during pregnancy			
15	No	86 (66.2%)	29 (49.2%)	115 (60.8%)
16	Yes	44 (33.8%)	30 (50.8%)	74 (39.2%)

Export a table of estimation results

```
use low2, clear
putexcel set low.xlsx, replace
putexcel A1 = "Analysis of birthweights", bold
putexcel A1:C1, border(bottom, thick) merge hcenter
putexcel A3 = "We have data on birthweights from Hosmer, "
putexcel A4 = "Lemeshow, and Sturdivant(2013, 24). "
dtable age lwt i.ht i.smoke, by(low)
putexcel A6 = collect
putexcel A18 = "Linear regression model of infant birthweights"
putexcel A18:C18, merge
regress bwt i.smoke age, nopvalues
putexcel A20 = etable
putexcel D20:E20, merge
```



	A	B	C	D	E
1	Analysis of birthweights				
2					
3	We have data on birthweights from Hosmer,				
4	Lemeshow, and Sturdivant(2013, 24).				
5					
6	Birthweight<2500g				
7		No	Yes	Total	
8	N	130 (68.8%)	59 (31.2%)	189 (100.0%)	
9	Age of mother	23.662 (5.585)	22.305 (4.511)	23.238 (5.299)	
10	Weight of mother	133.300 (31.724)	122.153 (26.548)	129.820 (30.575)	
11	History of hypertension				
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15	No	86 (66.2%)	29 (49.2%)	115 (60.8%)	
16	Yes	44 (33.8%)	30 (50.8%)	74 (39.2%)	
17					
18	Linear regression model of infant birthweights				
19					
20	bwt	Coefficient	Std. err.	[95% conf. interval]	
21	smoke				
22	Yes	-277.2919	106.9797	-488.3414	-66.2424
23	age	11.1787	9.880723	-8.313995	30.67139
24	_cons	2793.083	240.9336	2317.77	3268.397

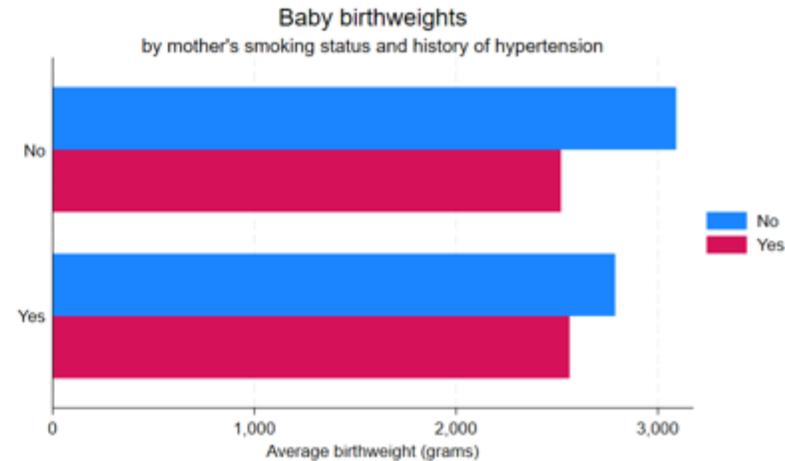
Export a Stata graph to Excel

```
use low2, clear
putexcel set low.xlsx, replace
putexcel A1 = "Analysis of birthweights", bold
putexcel A1:C1, border(bottom, thick) merge hcenter
putexcel A3 = "We have data on birthweights from Hosmer, "
putexcel A4 = "Lemeshow, and Sturdivant(2013, 24). "
    dtable age lwt i.ht i.smoke, by(low)
    putexcel A6 = collect
putexcel A18 = "Linear regression model of infant birthweights"
putexcel A18:C18, merge
regress bwt i.smoke age, nopvalues
putexcel A20 = etable
putexcel D20:E20, merge
```

```
graph hbar bwt, over(ht) over(smoke) asyvars ///
    title(Baby birthweights) ytitle(Average birthweight (grams)) ///
    subtitle(by mother's smoking status and history of hypertension)
graph export bweight.png, replace height(500)
putexcel E6 = image(bweight.png)
putexcel save
```

Create a report in Excel

	A	B	C	D	E	F	G	H	I	J	K	L
1	Analysis of birthweights											
2												
3	We have data on birthweights from Hosmer,											
4	Lemeshow, and Sturdivant(2013, 24).											
5												
6		Birthweight<2500g										
7		No	Yes	Total								
8	N	130 (68.8%)	59 (31.2%)	189 (100.0%)								
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21	smoke											
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23	age	11.1787	9.880723	-8.313995 30.67139								
24	_cons	2793.083	240.9336	2317.77 3268.397								



Today we learned how to

- Embed Stata results and graphs in Excel, Word, and PDF
- Customize Word documents with footers, page numbers, and headings
- Add hyperlinks in Word documents
- Append multiple files
- Generalize do-files for automated reporting

There is more you can do

- Set the page size and page margins
- Organize Word documents into sections, each with their own page layout
- Create tables in Word documents from matrices and the dataset in memory
- Nest tables and images within tables
- Learn more about reporting in the [Stata Reporting Reference Manual](#)
- [Create documents with Markdown-formatted text and Stata output](#)
- Get an overview of Stata's [reproducible and automated reporting](#) features

Thank you!

