

# Reproducible reporting- Creating customized reports in Word, Excel, and PDF

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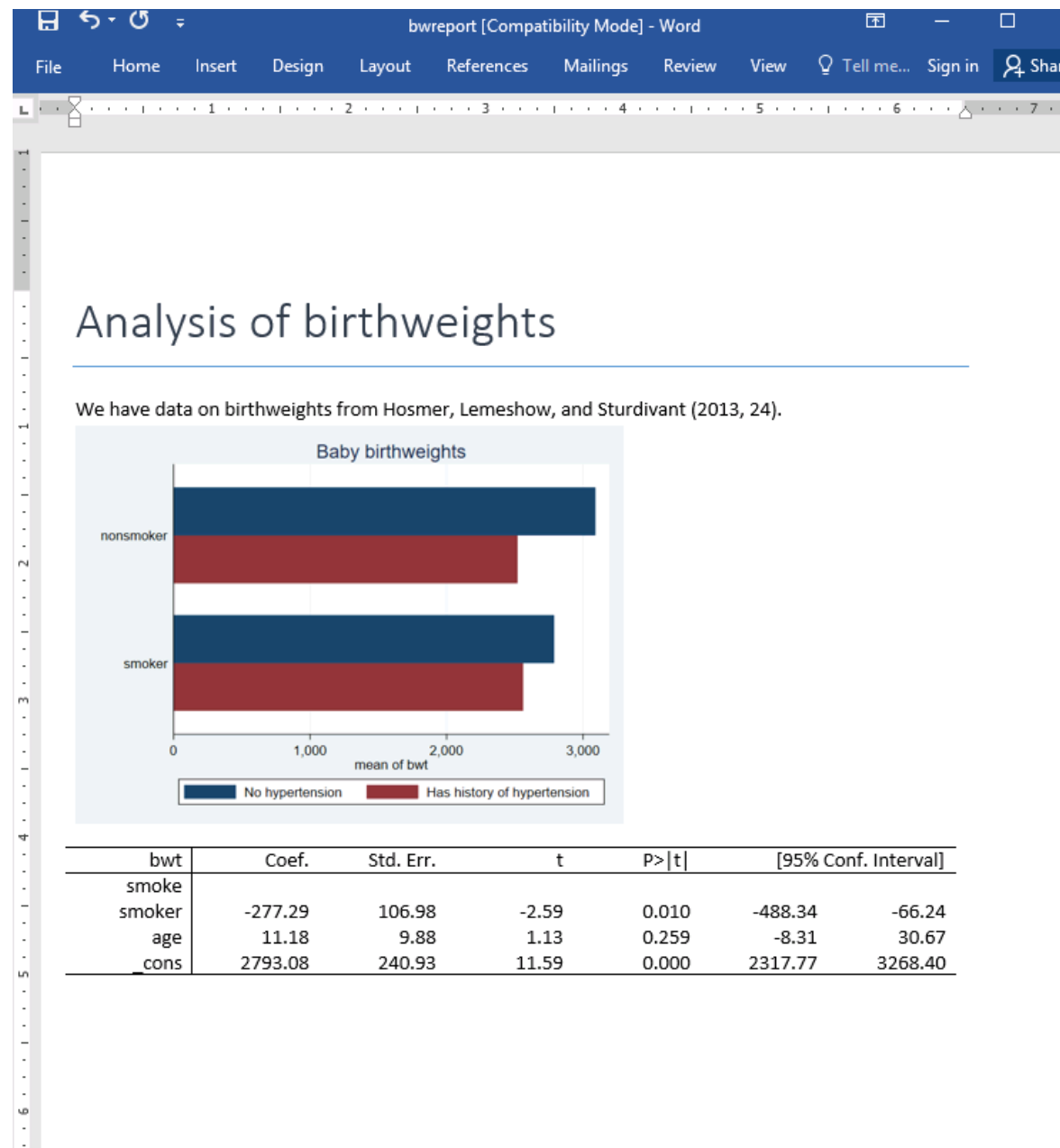
## Run this do-file

```
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



## 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 height(300)
putexcel A7 = image(bweight.png)
regress bwt i.smoke age, cformat(%9.2f)
putexcel A24 = etable
putexcel F24:G24, merge
putexcel save
```

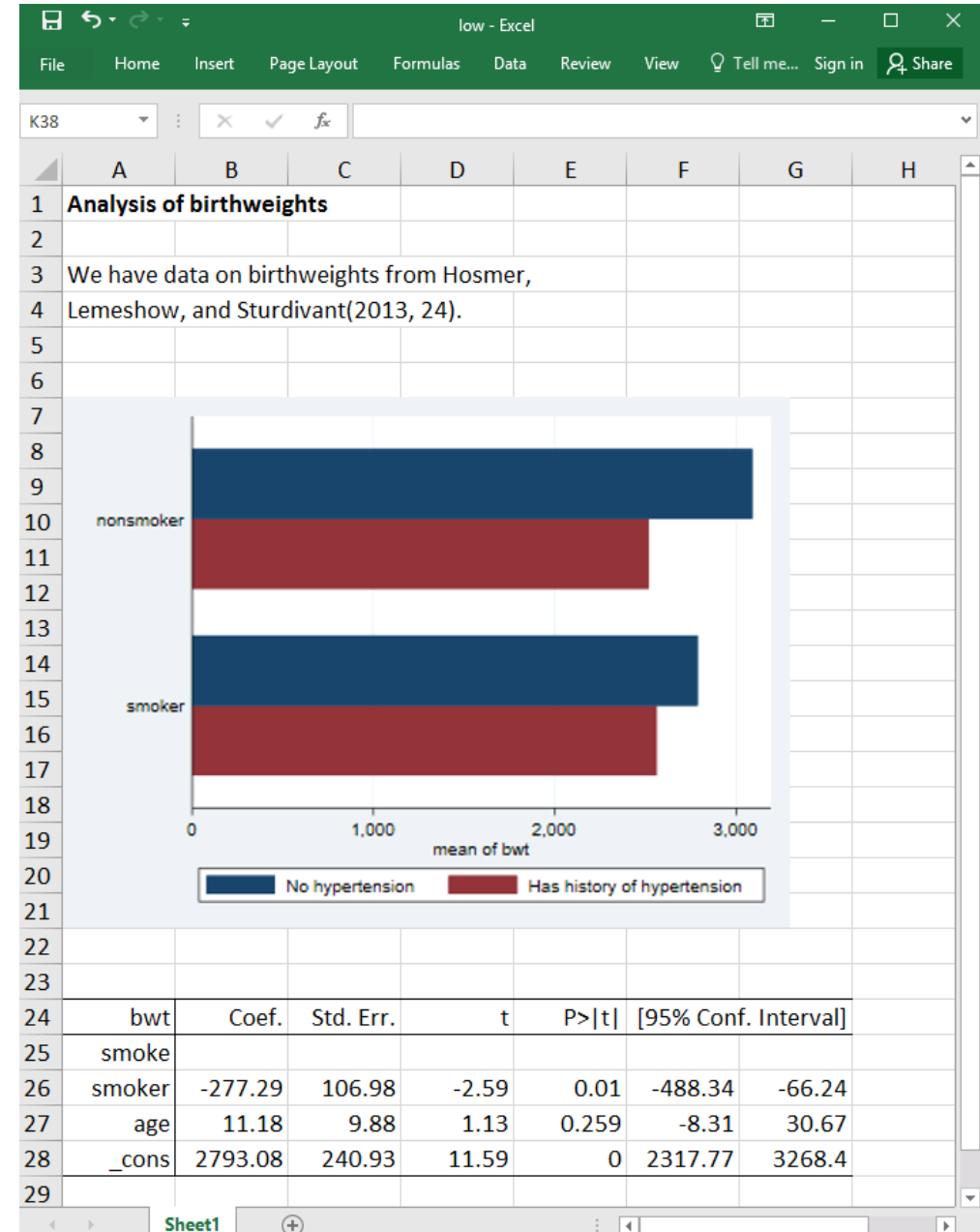
## Run this do-file

```

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 height(300)
putexcel A7 = image(bweight.png)
regress bwt i.smoke age, cformat(%9.2f)
putexcel A24 = etable
putexcel F24:G24, 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
<b>id</b>	int	%8.0g		<b>identification code</b>
<b>low</b>	byte	%8.0g		<b>birthweight&lt;2500g</b>
<b>age</b>	byte	%8.0g		<b>age of mother</b>
<b>lwt</b>	int	%8.0g		<b>weight at last menstrual period</b>
<b>race</b>	byte	%8.0g	race	<b>race</b>
<b>smoke</b>	byte	%9.0g	smoke	<b>smoked during pregnancy</b>
<b>ptl</b>	byte	%8.0g		<b>premature labor history (count)</b>
<b>ht</b>	byte	%27.0g	htlabel	<b>has history of hypertension</b>
<b>ui</b>	byte	%8.0g		<b>presence, uterine irritability</b>
<b>ftv</b>	byte	%8.0g		<b>number of visits to physician during 1st trimester</b>
<b>bwt</b>	int	%8.0g		<b>birthweight (grams)</b>
<b>agegrp</b>	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? */
```

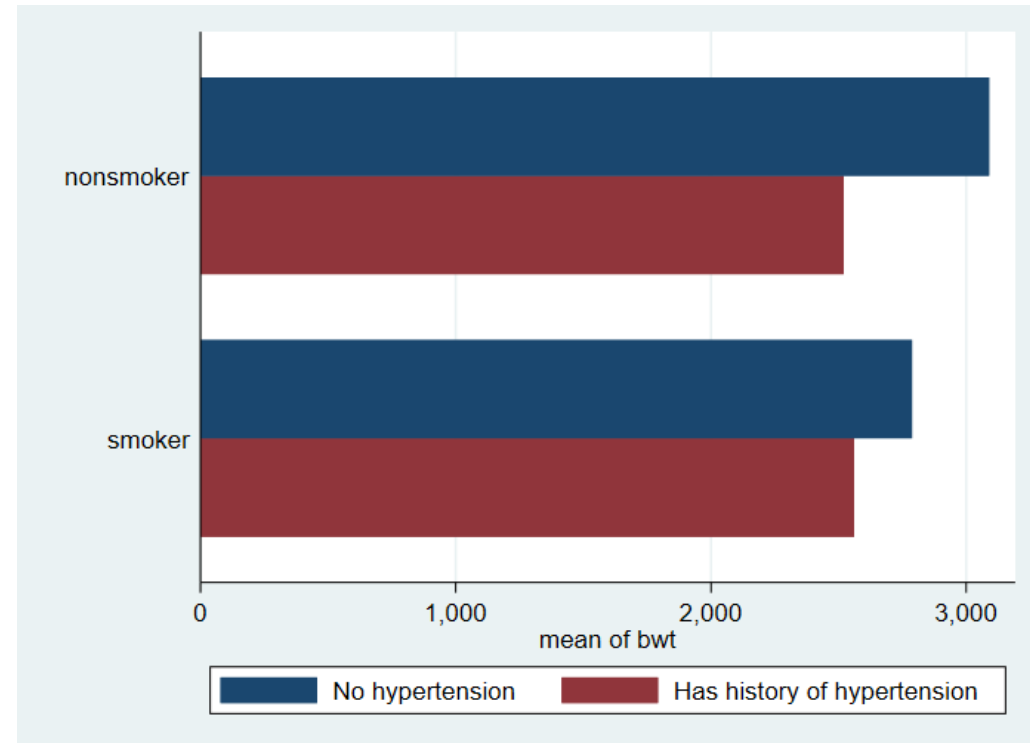
```
count if smoke==1
```

```
/* 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 ? */
```

```
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

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

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

```
. 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	Coef.	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
```

```
putdocx collect
```

```
your_estimation_command
```

```
putdocx table mytable = etable
```

# 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
```

```
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)
```

```
/* 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
```

```
. 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	Coef.	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 reproducible Word document

`version 17`

`putdocx clear`

# Create a document in memory

version 17  
putdocx clear

**use low, clear**

**putdocx begin**

# Embed text and results in a Word document

```
version 17
putdocx clear
use low, clear
putdocx begin

summarize bwt
local total = r(N)
putdocx textblock begin
We have the recorded weight for  $\llbracket \text{total} \rrbracket$  babies with an
average birthweight of  $\llbracket 5.2f \text{ r(mean)} \rrbracket$  grams.
putdocx textblock end
```



# Embed text and results in a Word document

```
version 17
putdocx clear
use low, clear
putdocx begin
```

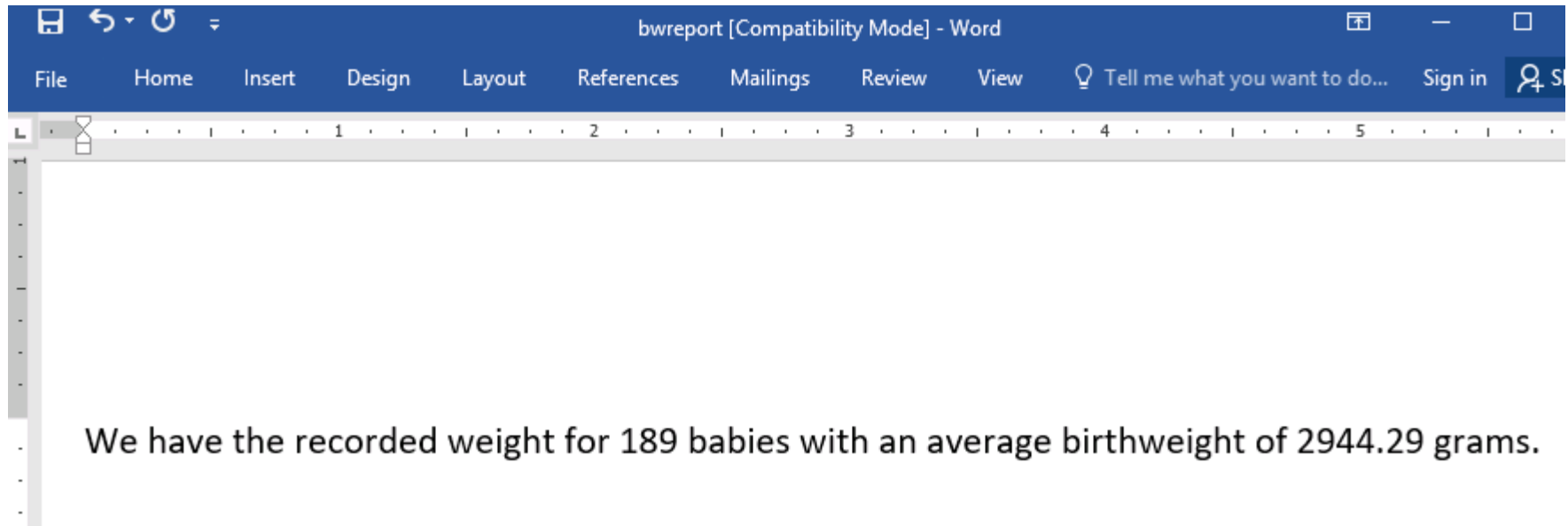
```
summarize bwt
```

```
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
```



# Embed text and results in a Word document

```
version 17
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

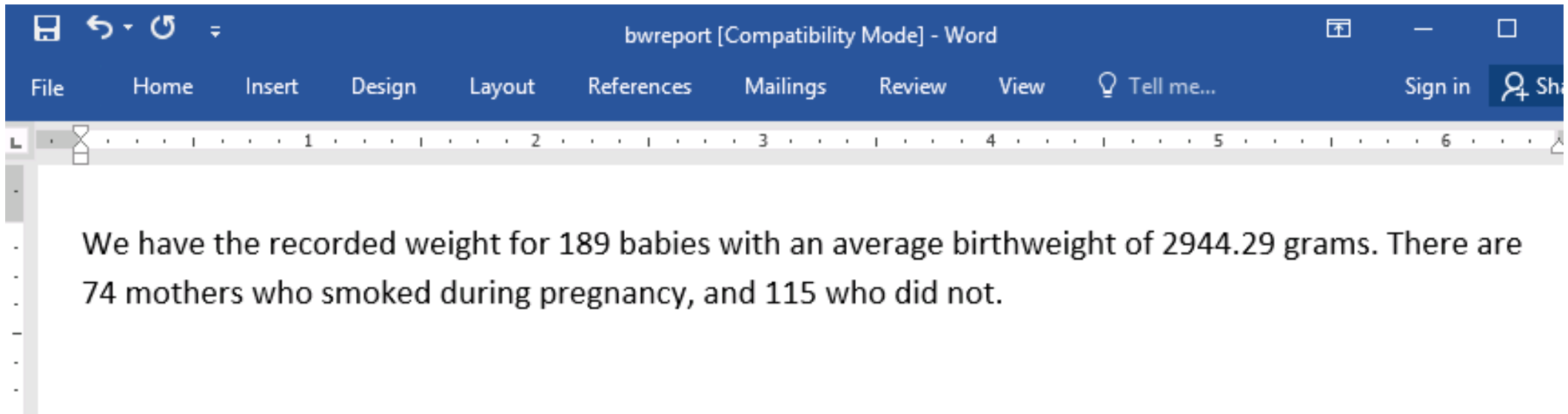
```
version 17
putdocx clear
use low, clear
putdocx begin
summarize bwt
local total = r(N)
putdocx textblock begin
We have the recorded weight for <<dd_docx_display: `total'>> babies with an
average birthweight of <<dd_docx_display: %5.2f r(mean)>> grams.
putdocx textblock end
```

```
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 a Stata graph in a Word document

```
version 17
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
```

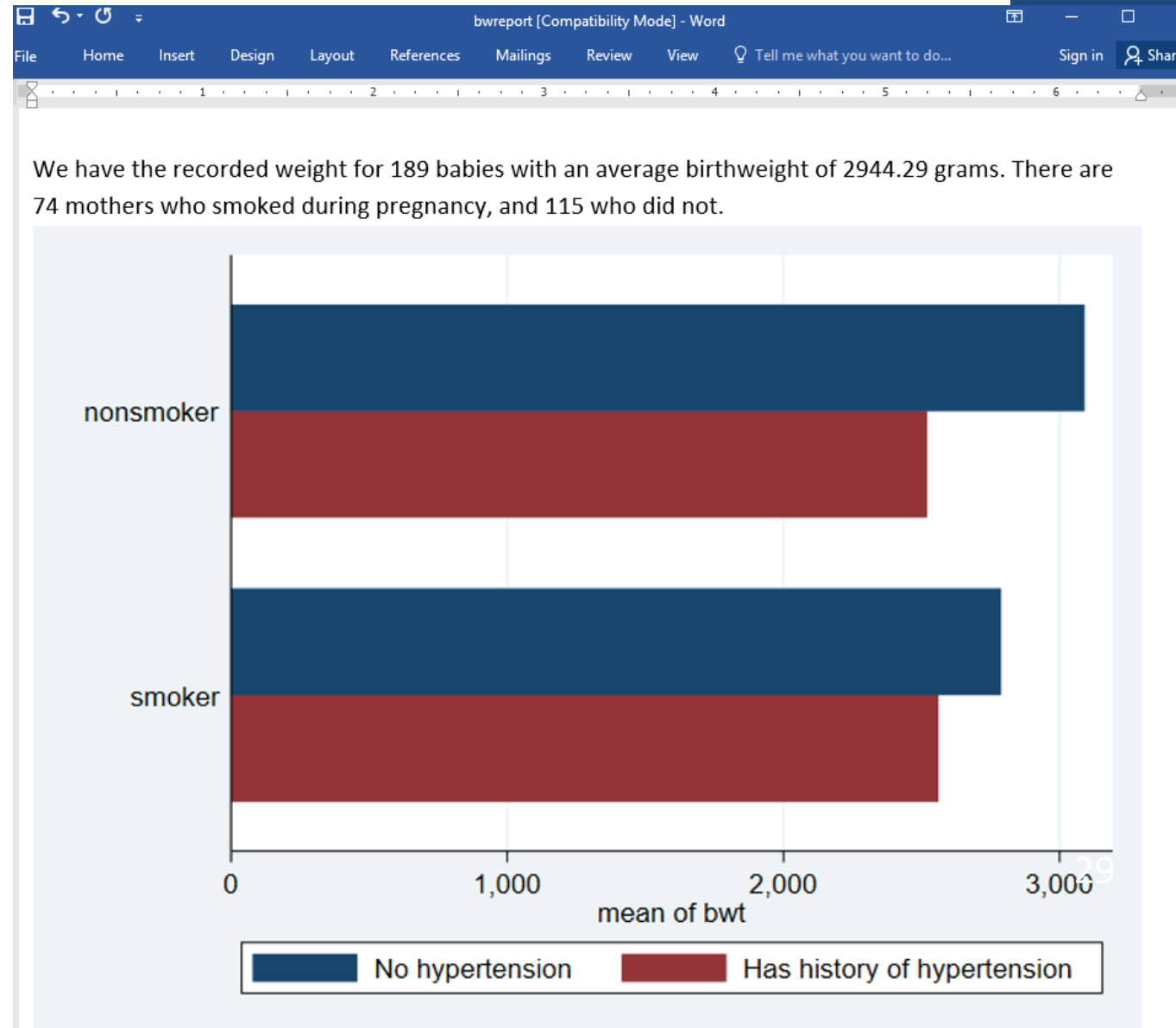
# Embed a Stata graph in a Word document

```
version 17
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 table of estimation results

```
version 17
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)
```

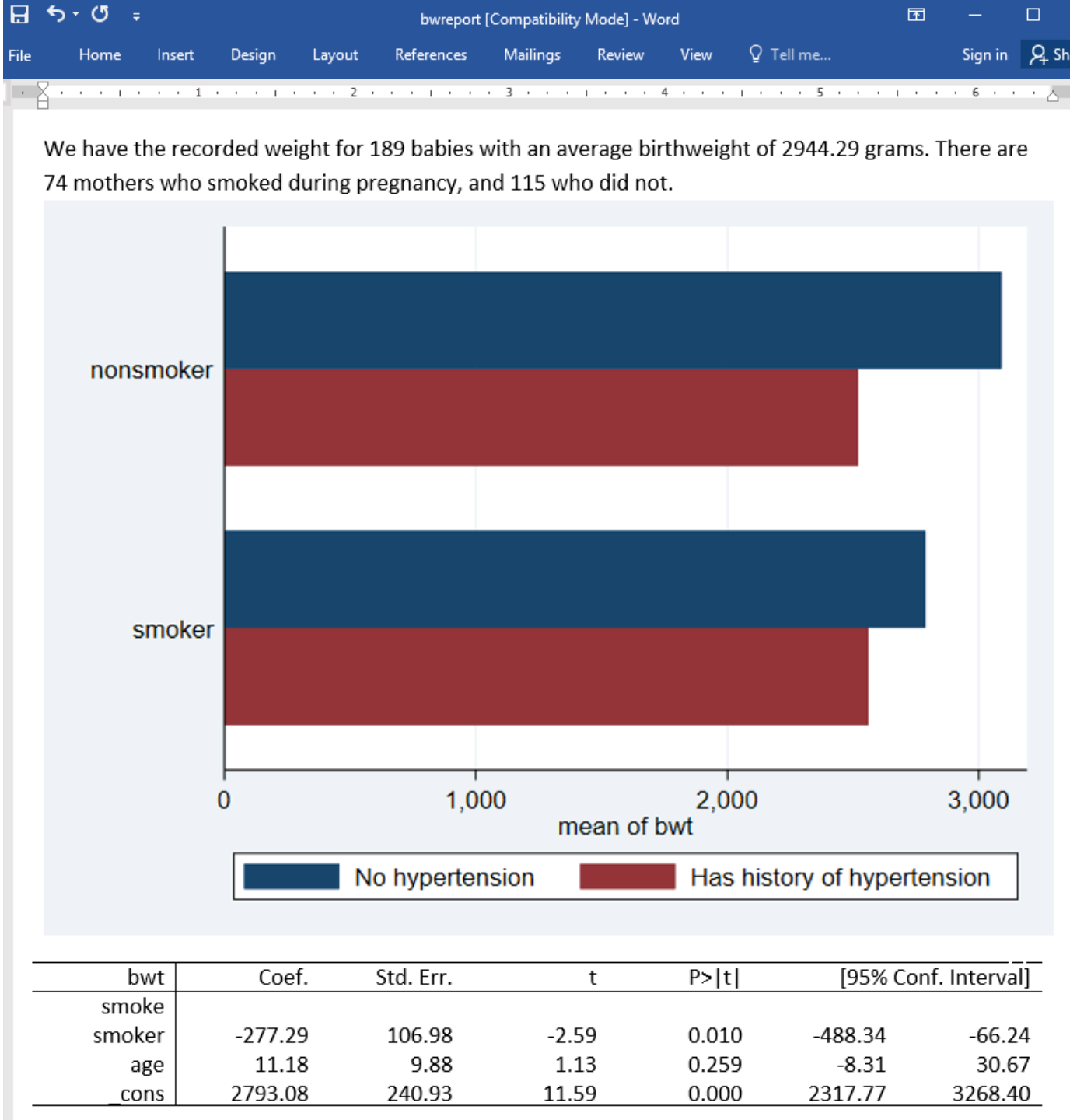
```
putdocx table bweight = etable
```

# Embed a table of estimation results

```
version 17
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**



# Add comments on the output

```
version 17
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**

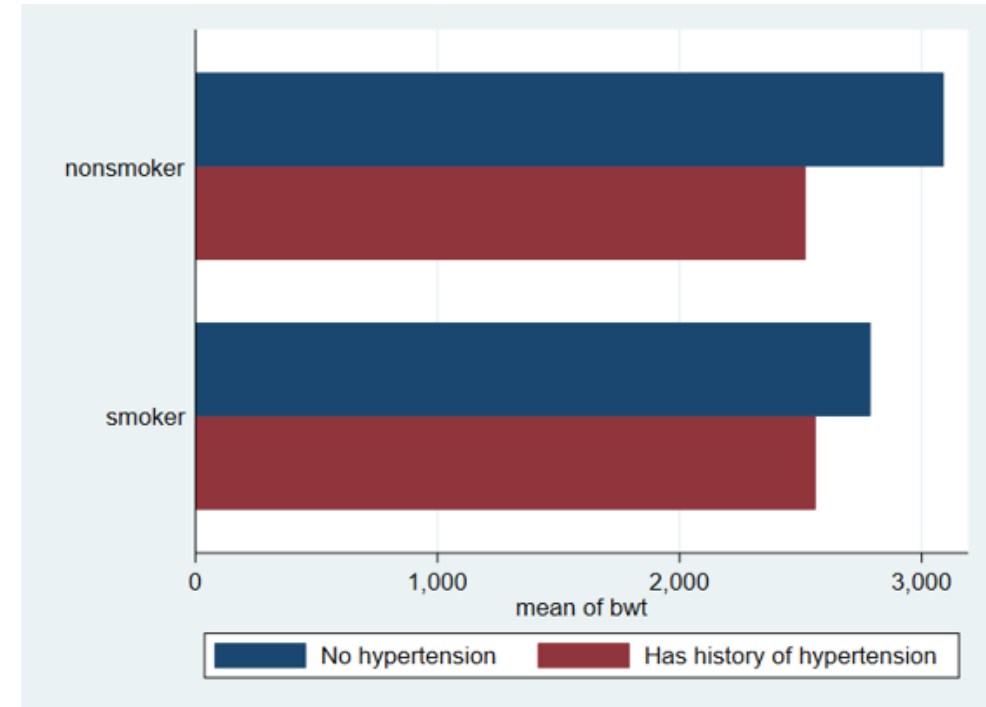
**putdocx save bwreport, replace**



# Create a report in Word

```
version 17
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
```

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.



<u>bwt</u>	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)`
```

# Create a report in Excel

```
putexcel set myfile
```

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

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

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

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

# Create a report in Excel

```
putexcel set myfile
```

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

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

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

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

```
putexcel A8 = collect
```

```
your_estimation_command
```

```
putexcel A12 = etable
```

# Create a report in Excel

```
putexcel set myfile
```

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

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

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

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

```
putexcel A8 = collect
```

```
your_estimation_command
```

```
putexcel A12 = etable
```

```
putexcel save
```

# Set an Excel workbook for export

```
use low2, 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

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). "
```

File Home Insert Draw Page Layout				
A1		:	✕ ✓ $f_x$	Analysis of birth
	A	B	C	
1	Analysis of birthweights			
2				
3	We have data on birthweights from Hosmer,			
4	Lemeshow, and Sturdivant(2013, 24).			
5				

# Write expressions 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). "
```

```
putexcel A6 = "Low birthweights by maternal age"
```

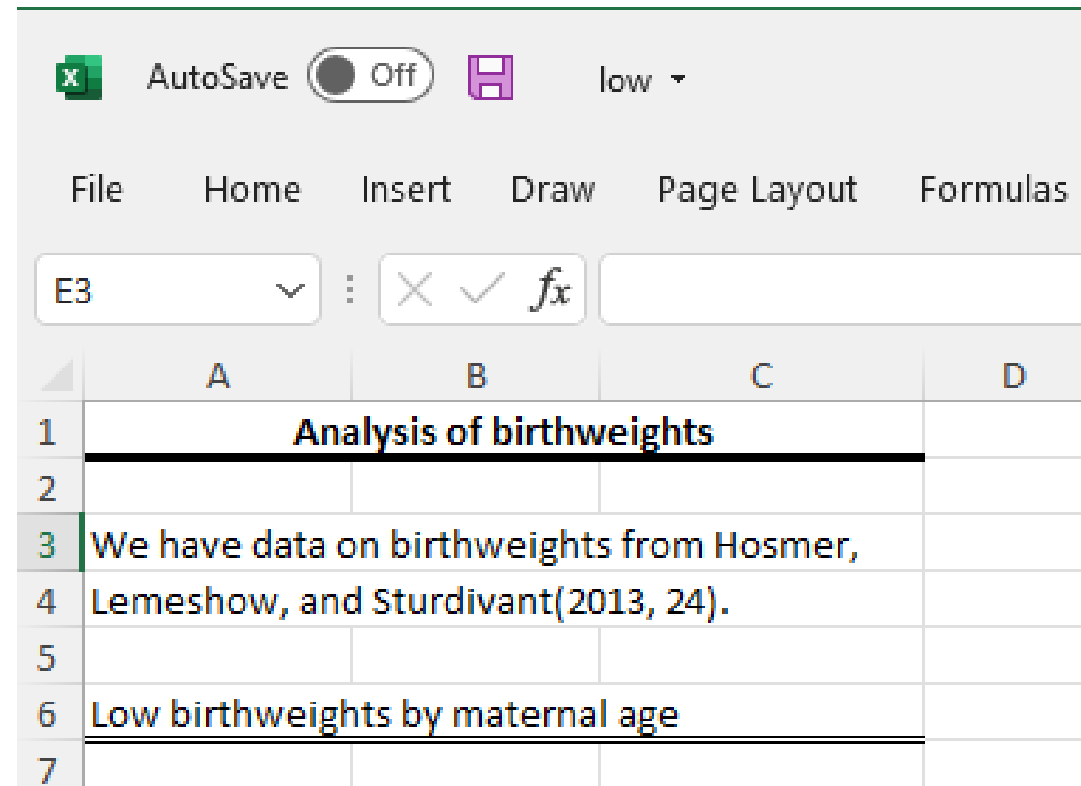
```
putexcel A6:C6, merge border(bottom,double)
```

# Write expressions 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). "
```

```
putexcel A6 = "Low birthweights by maternal age"
```

```
putexcel A6:C6, merge border(bottom,double)
```



	A	B	C	D
1	<b>Analysis of birthweights</b>			
2				
3	We have data on birthweights from Hosmer,			
4	Lemeshow, and Sturdivant(2013, 24).			
5				
6	<b>Low birthweights by maternal age</b>			
7				

# Obtain percentages within each level of a factor variable

```
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). "
putexcel A6 = "Low birthweights by maternal age"
putexcel A6:C6, merge border(bottom, double)
```

```
. table (agegrp) (), stat(fvpercent low)
```

	Birthweight < 2500 g	
	No	Yes
Age group		
Teens	70.59	29.41
20s	63.96	36.04
30s	84.62	15.38
40s	100.00	0.00
Total	68.78	31.22

# Customizing our table

```
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). "
putexcel A6 = "Low birthweights by maternal age"
putexcel A6:C6, merge border(bottom,double)
```

```
table (agegrp) (), stat(fvpercent low)
```

```
collect style cell border_block[corner row-header], border(right, pattern(nil))
```

```
collect style cell border_block[corner column-header], border(top, pattern(nil))
```

# Customizing and exporting our table

```
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). "
putexcel A6 = "Summary statistics: Birth weights by age group"
putexcel A6:E6, merge border(bottom, double)
tabulate agegrp low, matcell(freq)
```

```
table (agegrp) (), stat(fvpercent low)
collect style cell border_block[corner row-header], ///
    border(right, pattern(nil))
collect style cell border_block[corner column-header], ///
    border(top, pattern(nil))
putexcel A8 = collect
```

File Home Insert Draw Page Layout Formulas				
A1		:	✕ ✓ <i>fx</i>	Analysis of birthweights
	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	Low birthweights by maternal age			
7				
8		Birthweight < 2500 g		
9		No	Yes	
10	Age group			
11	Teens	70.59	29.41	
12	20s	63.96	36.04	
13	30s	84.62	15.38	
14	40s	100.00	0.00	
15	Total	68.78	31.22	

# 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). "
putexcel A6 = "Low birthweights by maternal age"
putexcel A6:C6, merge border(bottom,double)
table (agegrp) (), stat(fvpercent low)
collect style cell border_block[corner row-header], border(right,
collect style cell border_block[corner column-header], border(top,
putexcel A8 = collect

putexcel A18 = "Linear regression model of infant birthweights"
putexcel A18:C18, merge

collect create regression
collect: regress bwt i.smoke age
collect style use myreg, replace

putexcel A19 = collect
```

	A	B	C	D
1	<b>Analysis of birthweights</b>			
2				
3	We have data on birthweights from Hosmer,			
4	Lemeshow, and Sturdivant(2013, 24).			
5				
6	Low birthweights by maternal age			
7				
8		Birthweight < 2500 g		
9		No	Yes	
10	Age group			
11	Teens	70.59	29.41	
12	20s	63.96	36.04	
13	30s	84.62	15.38	
14	40s	100.00	0.00	
15	Total	68.78	31.22	
16				
17				
18	Linear regression model of infant birthweights			
19		Coefficient	95% CI	
20	Smoker	-277.29	[-488.34 , -66.24]	
21	Age of mother	11.18	[-8.31 , 30.67]	
22	Intercept	2793.08	[2317.77 , 3268.40]	
23				

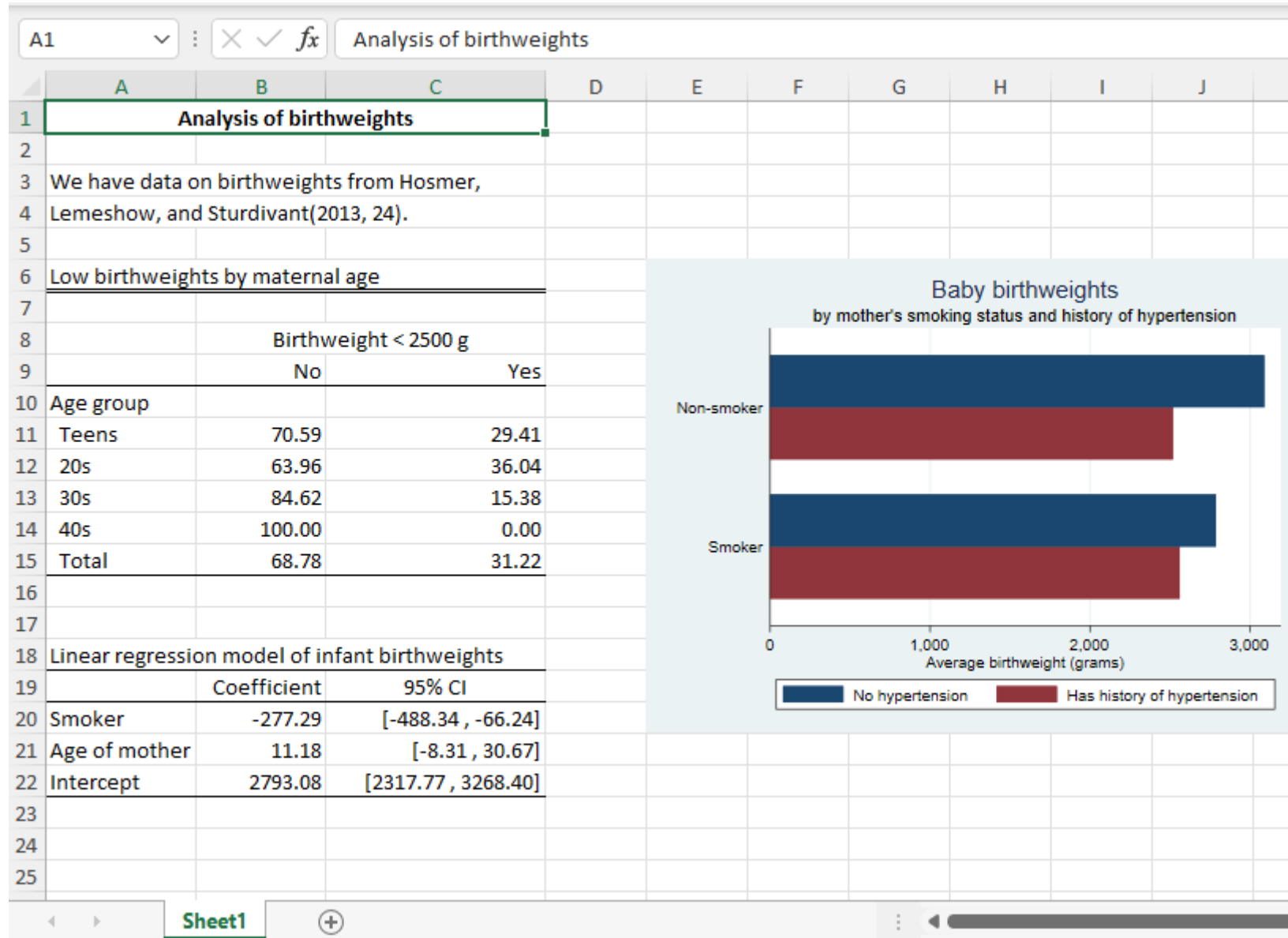


# Export a Stata graph to Excel

```
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). "
putexcel A6 = "Low birthweights by maternal age"
putexcel A6:C6, merge border(bottom,double)
table (agegrp) (), stat(fvpercent low)
collect style cell border_block[corner row-header], border(right, pattern(nil))
collect style cell border_block[corner column-header], border(top, pattern(nil))
putexcel A8 = collect
putexcel A18 = "Linear regression model of infant birthweights"
putexcel A18:C18, merge
collect create regression
collect: regress bwt i.smoke age
collect style use myreg, replace
putexcel A19 = collect
```

```
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(300)
putexcel E6 = image(bweight.png)
putexcel save
```

# Create a report in Excel



# 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!