

putpdf intro — Introduction to generating PDF files

[Description](#) [Remarks and examples](#) [Also see](#)

Description

The `putpdf` suite of commands creates PDF documents that include text, formatted images, and tables of Stata estimation results and summary statistics. The following commands are used to create, format, add content to, and save PDF documents.

Create and save PDF files (see [\[RPT\] putpdf begin](#))

<code>putpdf begin</code>	Creates a PDF file for export
<code>putpdf describe</code>	Describes contents of the active PDF file
<code>putpdf save</code>	Saves and closes the PDF file
<code>putpdf clear</code>	Closes the PDF file without saving the changes

Insert page breaks in a PDF file (see [\[RPT\] putpdf pagebreak](#))

<code>putpdf pagebreak</code>	Adds a page break to the document
<code>putpdf sectionbreak</code>	Adds a new section to the document

Add paragraph with text and images (see [\[RPT\] putpdf paragraph](#))

<code>putpdf paragraph</code>	Adds a new paragraph to the active document
<code>putpdf text</code>	Adds text to the active paragraph
<code>putpdf image</code>	Appends an image to the active paragraph

Add tables to a PDF file (see [\[RPT\] putpdf table](#))

<code>putpdf table</code>	Creates a new table in the PDF file containing estimation results, summary statistics, or data in memory
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Add a table from a collection to a PDF file (see [\[RPT\] putpdf collect](#))

<code>putpdf collect</code>	Adds a customized table created by <code>collect</code> or <code>table</code> to the PDF file
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In this manual entry, we show you how to use the `putpdf` commands by walking you through an example that creates a simple report as a PDF file.

Remarks and examples

Remarks are presented under the following headings:

- [Introduction](#)*
- [Create a PDF file](#)*
- [Add a paragraph with text](#)*
- [Add an image to a paragraph](#)*
- [Add table of estimation results](#)*

Introduction

`putpdf` is a suite of commands used to write paragraphs, images, and tables to a PDF file. This allows you to create PDF files that include Stata results and graphs. With `putpdf`, you can also format the text, tables, and images in the document you create.

To get started with the `putpdf` commands, it is best to see them in action. Here we demonstrate how to create a PDF file, include text, add a graph, and incorporate an estimation table all from within Stata.

This example shows the basic tools you need to create your own document. However, this is only a starting point. You may want to create more extensive and more customized documents, and `putpdf` allows you to do that. We save the details of customizing text, tables, and images for the individual entries of the commands listed [above](#).

Create a PDF file

To demonstrate, we create a report on 1978 automobiles using `auto.dta`.

```
. use https://www.stata-press.com/data/r18/auto
(1978 automobile data)
```

Before we can add any content to the report, we first need to create an active `.pdf` document in memory. We do this with the `putpdf begin` command.

```
. putpdf begin
```

Because we did not include any options with `putpdf begin`, the document created uses the `letter` page size and the portrait orientation.

Add a paragraph with text

Now that the document is created, we can add other objects such as paragraphs, images, and tables to it. We begin by adding a title to our report using the Courier font with size 20 and centering it.

```
. putpdf paragraph, font("Courier",20) halign(center)
. putpdf text ("Report on 1978 automobiles")
```

We added strings to this paragraph, but text can include any valid Stata expression. Below, we add text with summary statistics for our data by referring directly to the results stored after `summarize`. We type `return list` and see that `r(N)`, `r(mean)`, and `r(max)` store the number of automobiles, the average MPG, and the maximum MPG among those automobiles.

```
. summarize mpg
```

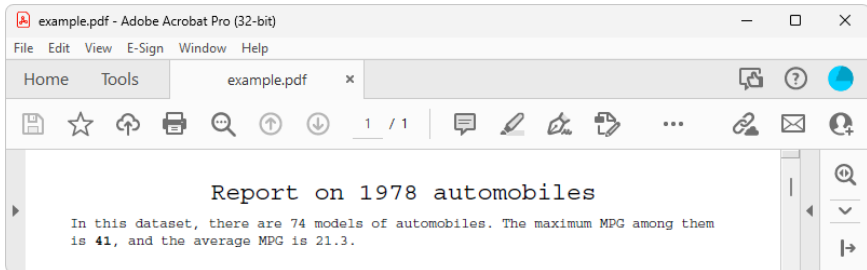
Variable	Obs	Mean	Std. dev.	Min	Max
mpg	74	21.2973	5.785503	12	41

```
. return list
scalars:
      r(N) = 74
r(sum_w) = 74
r(mean) = 21.2972972972973
r(Var) = 33.47204738985561
r(sd) = 5.785503209735141
r(min) = 12
r(max) = 41
r(sum) = 1576
```

We add a new paragraph and then refer to these scalars directly as we add text.

```
. putpdf paragraph, font("Courier")
. putpdf text ("In this dataset, there are 'r(N)')")
. putpdf text (" models of automobiles. The maximum MPG among them is ")
. putpdf text (r(max)), bold
. putpdf text (" , and the average MPG is ")
. putpdf text (r(mean)), nformat("%4.1f")
. putpdf text ("."), linebreak(2)
```

We formatted `r(max)` as bold and `r(mean)` with one decimal place. We also inserted two line breaks at the end of our text to create some space between this content and the next element we export. If we were to save our document now, it would contain the following:



Add an image to a paragraph

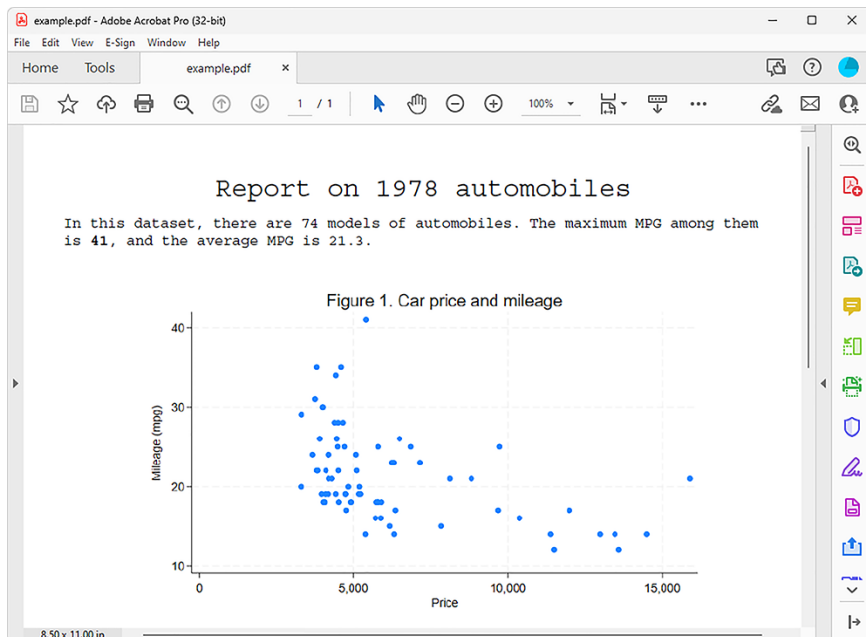
Next we add a scatterplot to our document, showing how mileage (`mpg`) correlates with the price (`price`) of cars. We use `scatter` to create our scatterplot, specifying a title for the graph. We must convert the graph to one of the supported image formats, `.png` or `.jpg`. We save it as a `.png` file with `graph export`.

```
. scatter mpg price, title("Figure 1. Car price and mileage")
. graph export auto.png
file auto.png saved as PNG format
```

Now we use `putpdf image` to append it to the active paragraph. To center the image, we specify the alignment of the paragraph. We resize the image by setting the width at 6 inches and add a line break after the image.

```
. putpdf paragraph, halign(center)
. putpdf image auto.png, linebreak width(6)
```

If we were to save the document now, it would contain the following:



Add table of estimation results

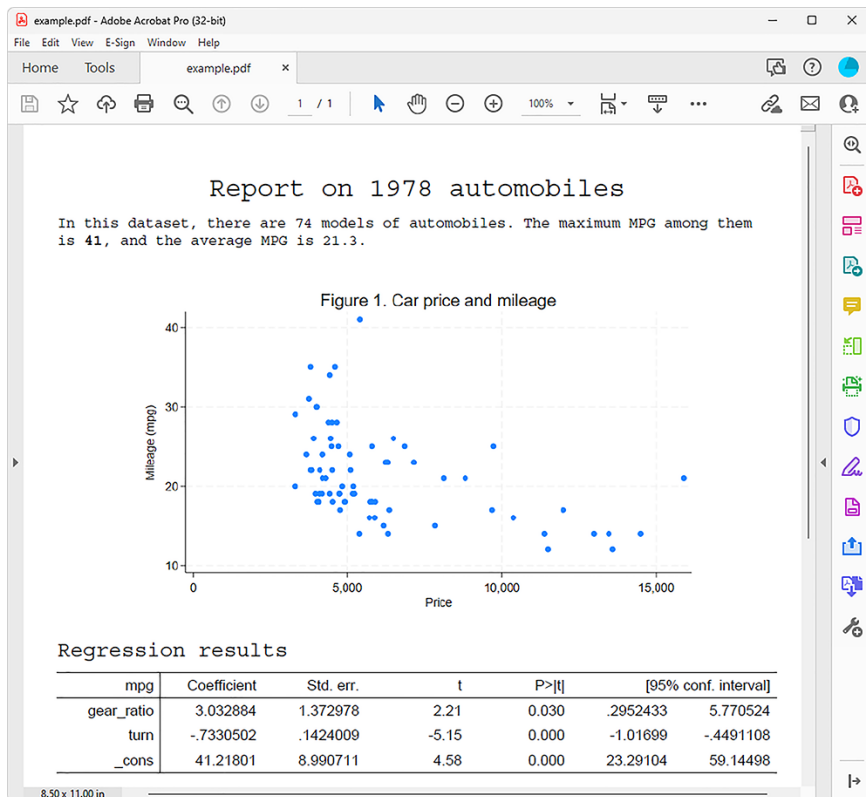
Next we will add a table with regression results after modeling fuel efficiency as a function of the car's gear ratio (`gear_ratio`) and turn radius (`turn`). We export a table named `tbl1` with all the statistics shown in the regression output below. This is done effortlessly by specifying the `etable` output type with `putpdf table`.

```
. putpdf paragraph, font("Courier",16)
. putpdf text ("Regression results")
. regress mpg gear_ratio turn, noheader
```

mpg	Coefficient	Std. err.	t	P> t	[95% conf. interval]
gear_ratio	3.032884	1.372978	2.21	0.030	.2952433 5.770524
turn	-.7330502	.1424009	-5.15	0.000	-1.01699 - .4491108
_cons	41.21801	8.990711	4.58	0.000	23.29104 59.14498

```
. putpdf table tbl1 = etable
. putpdf save example.pdf
successfully created "C:/mypath/example.pdf"
```

After saving our document, `example.pdf` appears as follows:



We will consider this our final report. However, you will likely want to create PDF files with more content and perhaps more customization. See [RPT] [putpdf begin](#) for information on formatting the document as a whole, including specifying page size, page layout, and font. See [RPT] [putpdf paragraph](#) for information on adding text to a document; modifying the style, font, alignment, and other formatting of a paragraph; and customizing the size and location of an image. See [RPT] [putpdf table](#) for information on creating tables from stored results, matrices, data, and even images and for information on customizing these tables. See [RPT] [putpdf collect](#) for information on adding customized tables created with the `collect` suite of commands to a document. Finally, see [RPT] [putpdf pagebreak](#) for information on adding page breaks and section breaks to your document.

Also see

[RPT] [putpdf begin](#) — Create a PDF file

[RPT] [putpdf collect](#) — Add a table from a collection to a PDF file

[RPT] [putpdf pagebreak](#) — Add breaks to a PDF file

[RPT] [putpdf paragraph](#) — Add text or images to a PDF file

[RPT] [putpdf table](#) — Add tables to a PDF file

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