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Reports and other PDF documents

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Abstract. Stata users often need to combine text, tables, and figures. The author's command, lpdf, generates reports and other PDF documents. lpdf compiles text stored in global macros, tables stored as dataset tables or LATEX table input files, and figures stored as Stata graphs or PDF figure files. LATEX must be installed, but familiarity with LATEX is not necessary. lpdf performs every step through Stata and with Stata syntax. It generates documents in report or article style and portrait or landscape orientation. The default author name, document title, and date can be modified. Further format options include the font and margin sizes. For each table and figure, the width and layout can be adapted. Stata users with LATEX skills may benefit from additional possibilities. The lpdf adofile includes two other useful commands called latexize and latext. latexize processes the content of string variables to properly type special characters and symbols in LATEX input files. latext modifies text stored in global macros in the same way.

Keywords: pr0056, lpdf, PDF, reports, documents, combine

1 Introduction

lpdf combines text, tables, and figures, as well as titles and footnotes, to create entire documents. The text, tables, and figures must be created beforehand by separate commands. For example, figures can be created by histogram and scatter, and tables can be created by tabout (Watson 2011) and tdescribe (currently under review). Paragraphs, titles, and footnotes must be written in a do-file. Once these commands have done their work, lpdf will search for the different parts, compile them, and format the final document.

lpdf is a Stata command that produces LATEX-based PDF files (Lamport 1994); a user does not need to know the LATEX syntax or how to open LATEX. Originally, I wrote lpdf to rapidly generate publication-quality reports from within Stata, but it can also generate other PDF documents. Stata users with advanced LATEX skills can further benefit from lpdf because fine tuning mature LATEX input files might be faster and less taxing than typing all mandatory LATEX commands from the beginning.

lpdf only needs to know which names to look for. Names of paragraphs, names of tables, and names of figures are typed in the selected order into the *namelist* of the lpdf command line. If there is ambiguity—for instance, lpdf searches for a specific name and finds a dataset table and a global macro—lpdf informs the user. It is not necessary

to type names of titles and footnotes because lpdf automatically verifies whether tables and figures have titles and footnotes (more details after the next paragraph).

Text can be stored as global macros. Characters with a special meaning in LATEX, such as % (this is similar in LATEX input files to // in Stata do-files), are automatically processed to be properly typed in the PDF document. However, global macros called tex# (for example, global tex1) are not processed; therefore, Stata users with LATEX skills can make full use of the LATEX syntax from within Stata.

Tables can be stored as dataset tables (Newson 2012) or IATEX table input files. In dataset tables, each column is a string variable, and the varnames of all columns belonging to the same table share a common and exclusive prefix: the table name (for example, table1 includes the variables table1a, table1b, and table1c). Table titles must be stored as global macros named the same as the table prefix (for example, if the table is called table1, the title must be called global table1). Table footnotes must be stored likewise, using extensions from _1 upward (for example, global table1_1, global table1_2, etc.).

Figures can be stored as Stata graphs or PDF figure files. Like tables, figure titles must be stored as global macros called by the figure name (for example, global figure1). Figure footnotes must be entered likewise, using extensions from _1 upward (for example, global figure1_1, etc.).

Options allow changing the style and orientation, and modifying the title, names of the authors, and dates of the documents. Format options allow adapting the size of the font and the margins and the width and the layout of each figure and table. Further options allow replacing old files, keeping temporary files, and adding LATEX packages.

lpdf, like frmttable (Gallup 2012), can put premature table output into the right shape. Formatting tables is the unique purpose of frmttable but only an additional feature of lpdf. lpdf also combines building units of publication quality, such as tables generated by tabout. frmttable processes information stored as matrices, while lpdf orders and combines information stored as global macros, string variables, LaTeX input files, Stata graphs, and other PDF files. However, lpdf can also work in combination with frmttable: information stored as a matrix can be formatted and stored as a LaTeX input file with frmttable and then combined with text and figures with lpdf. Likewise, Results window output can be translated into a PDF by translator(Results2pdf) and then combined with other output by lpdf. However, the former examples will have much higher quality.

2 The lpdf command

2.1 Syntax

```
lpdf namelist using filename [, article landscape title(string)
  authors(string) date(string) font(#) side(#) top(#) bottom(#) replace
  texkeep texreplace figkeep figreplace packages(string)]
```

The width of tables and figures can be resized by adding _mm# at the end of their name in the namelist (for example, pdf table1_mm150 using ...). # corresponds to the new table or figure width in millimeters and can neither be below 20 nor be above the page width. In tables entered as LATEX input files, the width must be defined within the file.

2.2 Options

- article generates PDF documents in article style. The default generates PDF documents in report style.
- landscape generates PDF documents in landscape orientation. The default generates PDF documents in portrait orientation.
- title(string) replaces the title. The title defaults to the filename.
- authors(string) replaces the author name. The author name defaults to the current computer user ID (c(username) in Stata).
- date(string) replaces the date. The date in the title page defaults to the last date lpdf was run.
- font(#) sets the font size to 10, 11, or 12. The default is font(11).
- side(#) adds or removes centimeters to the left and right margins. The default is side(2). The width of tables and figures defaults to the text width.
- top(#) adds or removes centimeters to the top margin. Margin values may range from -2 to the middle of the page -2. Values are rounded to 1 millimeter.
- bottom(#) adds or removes centimeters to the bottom margin. Margin values may range from -2 to the middle of the page -2. Values are rounded to 1 millimeter.
- replace allows the overwriting of existing PDF documents. A new LATEX input file and new PDF figure files can only be kept if old files are absent or can be overwritten. However, if old files can be overwritten, new files are not automatically kept.
- texkeep keeps the temporary LaTeX input file. This allows Stata users with LaTeX skills to further modify the document and speeds up the process if lpdf is rerun. The default generates the main PDF document. This process includes writing a temporary LaTeX input file. In addition, a separate temporary PDF figure file is generated from each Stata graph included in the main PDF document. Given that the original idea of lpdf is to perform each step automatically from within Stata, temporary files are erased at the end of the process. If the folder in which the main PDF document is being generated contains an equally named LaTeX input file, the already existing version of the LaTeX input file is used to generate the main PDF document rather than accidentally overwriting it. The same applies to Stata graphs that are already present as PDF versions.

texreplace allows the overwriting of a IATEX input file, which is in the same folder and has the same name as the main PDF document generated.

figkeep keeps all temporary PDF figure files. This allows submitting figures as separate files, which is often required. It also speeds up the process if lpdf is rerun. Specifying figkeep without figreplace (or texkeep without texreplace) will not change anything for those files that have already been kept.

figreplace allows the overwriting of any PDF files that are in the same folder and have the same name as the Stata graphs to be included in the main PDF document. Specifying figreplace without figkeep (or texreplace without texkeep) may erase files after overwriting and using them.

packages (string) adds packages to those that are used by lpdf. By default, these are {tabularx}, {array}, {graphicx}, [latin1] {inputenc}, and {calc}. In addition, packages() includes any LATEX command in the preamble. Nonpackage commands must be written out, whereas packages can be written as [options] {package} without needing to specify \usepackage.

2.3 Requirements

The lpdf package contains the latexize and latext commands, which are necessary to run lpdf. These commands might also be useful in other situations. latexize converts special characters of string variables, such as #, \$, or %, in a way that they are properly printed by LATEX. latext does the same but for text stored in global macros instead of string variables.

External Stata commands required to run lpdf are the texdoc command (Jann 2009), the listtab command (Newson 2009), and the sjlatex package from the Stata Journal. LaTeX for Windows can be downloaded from http://www.miktex.org. LaTeX for Mac operating system can be downloaded from http://www.tug.org/mactex. lpdf requires Stata 11.2 or later.

2.4 Syntax of latexize and latext

latexize varlist [if] [in]
latext namelist [if] [in]

3 Main example

This example shows how to generate an interim recruitment report. Steps 1 to 5 must be performed with commands different from lpdf. lpdf performs the final step, which is ordering and combining the separate building units to an entire document and formatting it to one of publication quality.

Step 1—Store the text of the document in global macros

Syntax:

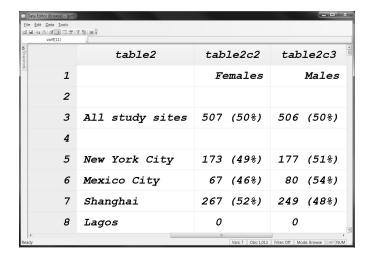
- . global t1 "This interim recruitment report includes the period from the 1st > January 2012 to the 31st March 2012. During this period, 1,013 participants
- > have been recruited. Lagos is not yet recruiting."
- . global t2 " "

Note that the global macro t2 will add a vertical space. If more vertical spaces were needed, t2 could be included several times in the namelist of lpdf (please see the last step).

3.2 Step 2—Prepare the tables of the document in the dataset

The following tables have been prepared as string variables in the Stata dataset in Newson (2012):

	table1	table1c2	table1c3	table1c4
1		Up to 40 years	40 to 60 years	Over 60 year
2				
3	All study sites (N = 1013)	238 (23%)	590 (58%)	185 (18%
4				
5	New York City (N = 350)	74 (21%)	199 (57%)	77 (22%
6	Mexico City (N = 147)	45 (31%)	81 (55%)	21 (14%
7	Shanghai (N = 516)	119 (23%)	310 (60%)	87 (17%
8	Lagos $(N = 0)$	0	0	0



Note that both tables are stored in the same dataset. However, lpdf will distinguish between table1 and table2 because the *varnames* of table1 all have a prefix of table1, whereas the variables of table2 all have a prefix of table2.

The tables used in this example were generated with tdescribe, a command that is currently under review.

3.3 Step 3—Store the titles and footnotes of the tables in global macros

Syntax:

- . global table1 "Participants by study site and age group"
- . global table1_1 "The denominator is the total per study site."
- . global table 1.2 "There are no participants with missing age." $\,$
- . global table2 "Participants by study site and gender"
- . global table2_1 "\$table1_2"
- . global table2_2 "There are no participants with missing gender."

Note that these macros are named with the table name plus the extension _#, where # stands for a positive integer. This allows lpdf to recognize the content as the titles and footnotes of the tables.

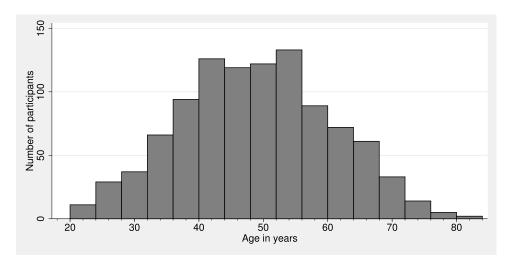
3.4 Step 4—Save the figure of the document

Syntax:

. graph save figure1.gph

The histogram used in this example was generated with histogram, a basic Stata command.

Note that the figure must be saved in the same folder in which the PDF document is generated.



3.5 Step 5—Store the titles and footnotes of the figure in global macros

Syntax:

- . global figure1 "Number of participants by age in years"
- . global figure1_1 "\$table1_3"

Note that these macros are named with the figure name plus the extension _#. This allows lpdf to recognize the content as the title and footnote of the figure.

3.6 Last step—Generate the document

Syntax:

```
. lpdf t1 t2 table1 table2.mm120 figure1 using example,
> title(Querim Study - 1st quarter recruitment report)
> authors(Dr. R. Student) date(April 5, 2012) side(0.3)
```

Note that table2 is entered with an _mm120 extension to reduce its width to 120 millimeters.

The margin is enlarged by 0.3 centimeters on both sides of the document.

3.7 Result

The Results window output of lpdf is

The PDF document is displayed on the next two pages.

Querim Study - 1st Quarter Recruitment Report

Dr. R. Student

April 5, 2012

This interim recruitment report includes the period from the 1st January 2012 to the 31st March 2012. During this period, 1,013 participants have been recruited. Lagos is not yet recruiting.

Table 1: Participants by study site and age group

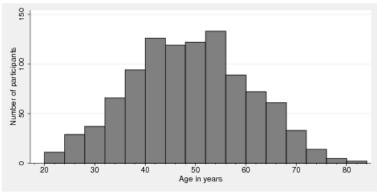
	Up to 40 years	40 to 60 years	Over 60 years
All study sites	238 (23%)	590 (58%)	185 (18%)
New York City	74 (21%)	199 (57%)	77 (22%)
Mexico City	45 (31%)	81 (55%)	21 (14%)
Shanghai	119 (23%)	310 (60%)	87 (17%)
Lagos	0	0	0

The denominator is the total per study site. There are no participants with missing age.

Table 2: Participants by study site and gender

	Females	Males
All study sites	507 (50%)	506 (50%)
New York City	173 (49%)	177 (51%)
Mexico City Shanghai	67 (46%) 267 (52%)	80 (54%) 249 (48%)
Lagos	0	0

Figure 1: Number of participants by age in years



There are no participants with missing age.

The denominator is the total per study site.

There are no participants with missing gender.

4 Additional possibilities requiring LATEX knowledge

The primary idea of lpdf is to allow Stata users to generate PDF documents without having to learn LATEX. For this reason, global macros included in the document are processed with the latext command, thereby ensuring that the users do not have to bother about characters that initiate or end LATEX commands or that have other particular functions in LATEX. The inconvenience is that global macros processed with the latext command can only store plain text.

The secondary idea is to combine the virtues of texdoc (Jann 2009) and listtab (Newson 2009) to more rapidly generate PDF documents while still allowing refinement. For this reason, global macros called tex# (for example, global tex1) are not processed with latext. Although a command working without knowledge of LATEX but offering additional possibilities with LATEX might help users become familiar with LATEX, it is beyond the scope of this article to provide a full list of possibilities available in the latter case. The following examples may help Stata users not yet familiar with LATEX:

- To start a new page, type global tex1 "\clearpage".
- To start displaying text in bold, type global tex2 "\begin{bfseries}".
- To end displaying text in bold, type global tex3 "\end{bfseries}".
- To start and end displaying text in italics, type global tex4 "\begin{itshape}" and global tex5 "\end{itshape}".
- To start and end displaying larger text, type global tex6 "\begin{large}" and global tex7 "\end{large}".

Note that the global macros tex1 to tex7 can be included multiple times in the *namelist* of lpdf, thereby ensuring that any command must be defined only once.

5 Formatting dataset tables without LaTeX syntax

All formatting in the following examples is performed on the tables of the main example (section 3). Once the different building units have been generated (steps 1 to 5 of the main example), one of the following formatting examples can be run before performing the final step (final step of the main example). The result is the same document as in the main example, but with differently formatted tables. For the sake of space, I show only the tables in the following examples.

5.1 Example 1—Removing the frame from table1

Purpose and explanation:

If the last column of a table is equal to "" or "_", the frame of the table is removed.

Syntax: generate table1x = ""

	Up to 40 years	40 to 60 years	Over 60 years
All study sites	238 (23%)	590 (58%)	185 (18%)
New York City	74 (21%)	199 (57%)	77 (22%)
Mexico City	45 (31%)	81 (55%)	21 (14%)
Shanghai	119 (23%)	310 (60%)	87 (17%)
Lagos	0	0	0

5.2 Example 2—Example 1 with addition of a horizontal line under the third row of table1

Purpose and explanation:

If the last column is equal to "" or "_", a horizontal line is added below each row with "_".

Syntax: generate table1x = "_" in 3

	Up to 40 years	40 to 60 years	Over 60 years
All study sites	238 (23%)	590 (58%)	185 (18%)
New York City	74 (21%)	199 (57%)	77 (22%)
Mexico City	45 (31%)	81 (55%)	21 (14%)
Shanghai	119 (23%)	310~(60%)	87 (17%)
Lagos	0	0	0

5.3 Example 3—Example 2 with addition of a vertical line after the first column of table1

Purpose and explanation:

If the last row is equal to "" or " \mid ", a horizontal line is added after each column with " \mid ".

Syntax: generate table1x = "_" in 3
 replace table1 = "|" in 9

	Up to 40 years	40 to 60 years	Over 60 years
All study sites	238 (23%)	590 (58%)	185 (18%)
New York City	74 (21%)	199 (57%)	77 (22%)
Mexico City	45 (31%)	81 (55%)	$21 \ (14\%)$
Shanghai	119 (23%)	310~(60%)	87 (17%)
Lagos	0	0	0

5.4 Example 4—Example 3 without removing the frame

Purpose and explanation:

A "+" in the cell crossing the last column and the last row reinserts the lines at the top and the left of the table.

A "|" in this cell would only reinsert the line at the left of the table (not shown).

A "-" in this cell would only reinsert the line at the top of the table (not shown).

Syntax: generate table1x = "_" if _n==3 | _n==8
 replace table1 = "|" in 9
 replace table1c4 = "|" in 9
 replace table1x = "+" in 9

	Up to 40 years	40 to 60 years	Over 60 years
All study sites	238 (23%)	590 (58%)	185 (18%)
New York City	74 (21%)	199 (57%)	77 (22%)
Mexico City	45 (31%)	81 (55%)	21 (14%)
Shanghai	119 (23%)	310 (60%)	87 (17%)
Lagos	0	0	0

5.5 Example 5—Displaying table1 in a roman font

Purpose and explanation:

If the column widths are not consistent, no typewriter font is used for summary measures, because proper alignment of digits is no longer assumed.

```
Syntax: foreach a of varlist table1* {
    replace 'a' = trim(itrim('a')) if trim(itrim('a'))!=""
}
```

	Up to 40 years	40 to 60 years	Over 60 years
All study sites	238 (23%)	590 (58%)	185 (18%)
New York City	74 (21%)	199 (57%)	77 (22%)
Mexico City	45 (31%)	81 (55%)	21 (14%)
Shanghai	119 (23%)	310 (60%)	87 (17%)
Lagos	0	0	0

5.6 Example 6—Centering the first column of table1

Purpose and explanation:

If the first dataset column is equal to "", the first displayed column is treated as a summary measure column instead of a heading column.

	Up to 40 years	40 to 60 years	Over 60 years
All study sites	238~(23%)	590 (58%)	185 (18%)
New York City	74 (21%)	199 (57%)	77 (22%)
Mexico City	45 (31%)	81 (55%)	21 (14%)
Shanghai Lagos	119 (23%)	310 (60%) 0	$87\ (17\%) \ 0$

5.7 Example 7—Resizing the width of the footnote of table2

Purpose and explanation:

If the name of a global macro is equal to a table name followed by an underscore and the content of this macro is a number, this number is interpreted by lpdf as the size of the footnote of the table in millimeters.

Syntax: $global table2_{-} = 4$

	Females	Males
All study sites	507 (50%)	506 (50%)
New York City Mexico City Shanghai	173 (49%) 67 (46%) 267 (52%)	177 (51%) 80 (54%) 249 (48%)
Lagos	0	0

The denominator is the total per study site. There are no participants with missing gender.

The footnote, now forty millimeters wide, appears to the right of the table.

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