

**putdocx** — Generate Office Open XML (.docx) file[Description](#)[Remarks and examples](#)[Also see](#)[Quick start](#)[Stored results](#)[Syntax](#)[Appendix](#)[Options](#)[References](#)

## Description

`putdocx` writes paragraphs, images, and tables to an Office Open XML file (.docx). It may also be used to format each object added. This allows you to automate exporting and formatting of, for example, Stata estimation results and also to generate various reports based on those results. The generated file is compatible with Microsoft Word 2007 and later. Below, we provide a summary of the commands to add and format the content of a .docx file.

`putdocx begin` creates the .docx file for export.

`putdocx paragraph` adds a new paragraph to the active document. The newly created paragraph becomes the active paragraph. All subsequent text or images will be appended to the active paragraph.

`putdocx text` (*exp*) adds content to the paragraph created by `putdocx paragraph`. *exp* may be a valid Stata expression (see [U] [13 Functions and expressions](#)) or a normal string.

`putdocx image filename` embeds in the document a portable network graphics (.png), JPEG (.jpg), enhanced metafile (.emf), or tagged image file format (.tif) file in the active paragraph. *filename* is the path to the image file. It may be either the full path or the relative path from the current working directory. Adding an image is not supported on console Stata for Mac.

`putdocx table tablename` creates a new table that can be identified by its assigned name, *tablename*, for future modifications. Tables may be created from several output types, including the data in memory, matrices, and estimation results; see [Output types for tables](#) for a complete list and a description of each type.

`putdocx pagebreak` adds a page break to the document, placing subsequent content on the next page of the document.

`putdocx sectionbreak` adds a new section to the active document that starts on the next page. It lets you vary the page size and the orientation of the pages within a single document and is most useful when you want to mix portrait and landscape layouts.

`putdocx describe` describes the current .docx file or a table within the current .docx file.

`putdocx save` closes and saves the .docx file.

`putdocx clear` closes the .docx file without saving the changes.

`putdocx append` appends the contents of the one or more .docx files to another .docx file.

### Quick start

Create a document in memory on which subsequent contents are added

```
putdocx begin
```

Declare a paragraph to be added to the document and center the paragraph

```
putdocx paragraph, halign(center)
```

Append the text “This is paragraph text” to the paragraph declared above and format the text as bold

```
putdocx text ("This is paragraph text"), bold
```

Add a table named `tbl1` with three rows and four columns to the document

```
putdocx table tbl1 = (3,4)
```

Set the content of the cell on the first row and second column of the above table as “Cell 2” and align the text to the right

```
putdocx table tbl1(1,2) = ("Cell 2"), halign(right)
```

Add a table named `tbl2` with variable names and estimated coefficients after `regress`

```
putdocx table tbl2 = etable
```

Add a PNG image saved as `myimg` to the document

```
putdocx paragraph  
putdocx image myimg.png
```

Save the document in memory to disk as `myfile.docx`

```
putdocx save myfile.docx
```

Append the contents of `filename2.docx` and `filename3.docx` to the end of the contents in `filename1.docx`

```
putdocx append filename1 filename2 filename3
```

As above, but save the appended contents in a file named `filename4.docx`

```
putdocx append filename1 filename2 filename3, saving(filename4)
```

## Syntax

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 ]
```

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 ]
```

Add content to cell

```
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 ]
```

Alter table layout

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

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

*Customize format of cells or table*

```
putdocx table tablename(i, j), cell_options  
putdocx table tablename(numlisti, .), cell_fmt_options  
putdocx table tablename(., numlistj), cell_fmt_options  
putdocx table tablename(numlisti, numlistj), cell_fmt_options  
putdocx table tablename(., .), cell_fmt_options
```

*Add page break to document*

```
putdocx pagebreak
```

*Add section break to document*

```
putdocx sectionbreak [ , pagesize(psize) landscape ]
```

*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 ])
```

*tablename* specifies the name of a new table. The name must be a valid name according to Stata's naming conventions; see [U] **11.3 Naming conventions**.

<i>paragraph_options</i>	Description
<code>style(<i>pstyle</i>)</code>	set paragraph text with specific style
<code>font(<i>fspec</i>)</code>	set font, font size, and font color
<code>halign(<i>hvalue</i>)</code>	set paragraph alignment
<code>valign(<i>vvalue</i>)</code>	set vertical alignment of characters on each line
<code>indent(<i>indenttype</i>, #[<i>unit</i>])</code>	set paragraph indentation
<code>spacing(<i>position</i>, #[<i>unit</i>])</code>	set spacing between lines of text
<code>shading(<i>sspec</i>)</code>	set background color, foreground color, and fill pattern

<i>text_options</i>	Description
<code>nformat(<i>%fmt</i>)</code>	specify numeric format for text
<code>font(<i>fspec</i>)</code>	set font, font size, and font color
<code>bold</code>	format text as bold
<code>italic</code>	format text as italic
<code>script(sub super)</code>	set subscript or superscript formatting of text
<code>strikeout</code>	strikeout text
<code>underline[ (<i>upattern</i>) ]</code>	underline text using specified pattern
<code>shading(<i>sspec</i>)</code>	set background color, foreground color, and fill pattern
<code>linebreak[ (#) ]</code>	add line breaks after text
<code>allcaps</code>	format text as all caps
<code>smallcaps</code>	format text as small caps

<i>image_options</i>	Description
<code>width#[<i>unit</i>]</code>	set image width
<code>height#[<i>unit</i>]</code>	set image height
<code>linebreak[ (#) ]</code>	add line breaks after image
<code>link</code>	insert link to image file

<i>table_options</i>	Description
<code>memtable</code>	keep table in memory rather than add it to document
<code>width#[<i>unit</i> %]</code>	set table width
<code>halign(<i>hvalue</i>)</code>	set table horizontal alignment
<code>indent#[<i>unit</i>]</code>	set table indentation
<code>layout(<i>layouttype</i>)</code>	adjust column width
<code>cellmargin(<i>cmarg</i>, #[<i>unit</i>])</code>	set margins for each table cell
<code>cellspacing#[<i>unit</i>]</code>	set spacing between adjacent cells and the edges of the table
<code>border(<i>bspec</i>)</code>	set pattern and color for border
<code>headerrow(#)</code>	set number of the top rows that constitute the table header
<code>title(<i>string</i>)</code>	add a title to the table
<code>note(<i>string</i>)</code>	add notes to the table

<i>cell_options</i>	Description
<code>append</code>	append objects to current content of cell
<code>rowspan(#)</code>	merge cells vertically
<code>colspan(#)</code>	merge cells horizontally
<code>span(#<sub>1</sub>, #<sub>2</sub>)</code>	merge cells both horizontally and vertically
<code>linebreak[(#)]</code>	add line breaks into the cell
<i>cell_fmt_options</i>	options that control the look of cell contents

<i>row_col_options</i>	Description
<code>nosplit</code>	prevent row from breaking across pages
<code>addrows(# [, before   after])</code>	add # rows in specified location
<code>addcols(# [, before   after])</code>	add # columns in specified location
<code>drop</code>	drop specified row or column
<i>cell_fmt_options</i>	options that control the look of cell contents

<i>cell_fmt_options</i>	Description
<code>halign(hvalue)</code>	set horizontal alignment
<code>valign(vvalue)</code>	set vertical alignment
<code>border(bspec)</code>	set pattern and color for border
<code>shading(sspec)</code>	set background color, foreground color, and fill pattern
<code>nformat(%fmt)</code>	specify numeric format for cell text
<code>font(fspect)</code>	set font, font size, and font color
<code>bold</code>	format text as bold
<code>italic</code>	format text as italic
<code>*script(sub   super)</code>	set subscript or superscript formatting of text
<code>strikeout</code>	strikeout text
<code>underline[(upattern)]</code>	underline text using specified pattern
<code>allcaps</code>	format text as all caps
<code>smallcaps</code>	format text as small caps

\*May only be specified when formatting a single cell.

*fspec* is

*fontname* [ , *size* [ , *color* ] ]

*fontname* may be any valid font installed on the user's computer. If *fontname* includes spaces, then it must be enclosed in double quotes.

*size* is a numeric value that represents font size measured in points. The default is 11.

*color* sets the text color.

*sspec* is

*bgcolor* [ , *fgcolor* [ , *fpattern* ] ]

*bgcolor* specifies the background color.

*fgcolor* specifies the foreground color. The default foreground color is black.

*fpattern* specifies the fill pattern. The most common fill patterns are `solid` for a solid color (determined by *fgcolor*), `pct25` for 25% gray scale, `pct50` for 50% gray scale, and `pct75` for 75% gray scale. A complete list of fill patterns is shown in the [Appendix](#).

*bspec* is

*bordername* [ , *bpattern* [ , *bcolor* ] ]

*bordername* specifies the location of the border.

*bpattern* is a keyword specifying the look of the border. The most common patterns are `single`, `dashed`, `dotted`, and `double`. The default is `single`. For a complete list of border patterns, see the [Appendix](#). To remove an existing border, specify `nil` as the *bpattern*.

*bcolor* specifies the border color.

*unit* may be `in` (inch), `pt` (point), `cm` (centimeter), or `twip` (twentieth of a point). An inch is equivalent to 72 points, 2.54 centimeters, or 1440 twips. The default is `in`.

*color*, *bgcolor*, *fgcolor*, and *bcolor* may be one of the colors listed in the table of colors in the [Appendix](#); a valid RGB value in the form `### ## #`, for example, 171 248 103; or a valid RRGGBB hex value in the form `#####`, for example, ABF867.

## Output types for tables

The following output types are supported when creating a new table using `putdocx table tablename`:

`(nrows, ncols)` creates an empty table with *nrows* rows and *ncols* columns. Microsoft Word allows a maximum of 63 columns in a table.

`data(varlist) [if] [in] [ , varnames obsno]` adds the current Stata dataset in memory as a table to the active document. *varlist* contains a list of the variable names from the current dataset in memory. `if` and `in` may be used to restrict the data to be added to the table.

`matrix(matname) [ , nformat(%fmt) rownames colnames]` adds a [matrix](#) called *matname* as a table to the active document. The elements of the matrix are formatted using *%fmt*. If `nformat()` is not specified, then `%12.0g` is used.

`mata(matname) [ , nformat(%fmt)]` adds a Mata [matrix](#) called *matname* as a table to the active document. The elements of the matrix are formatted using *%fmt*. If `nformat()` is not specified, then `%12.0g` is used.

`etable` [ $\#_1 \#_2 \dots \#_n$ ] adds an automatically generated table to the active document. The table may be derived from the coefficient table of the last estimation command, from the table of margins after the last `margins` command, or from the table of results from one or more models displayed by `estimates table`.

Note that if the estimation command outputs  $n > 1$  coefficient tables, the default is to add all tables and assign the corresponding table names `tablename1`, `tablename2`, ..., `tablenamen`. To specify which tables to add, supply the optional numlist to `etable`. For example, to add the first and third tables from the estimation output, specify `etable(1 3)`. A few estimation commands do not support the `etable` output type. See *Unsupported estimation commands* in the *Appendix* for a list of estimation commands that have displayed output that is not supported by `putdocx`.

`returnset` exports a group of Stata `return` values to a table in the active document. It is intended primarily for use by programmers and by those who want to do further processing of their exported results in the active document. `returnset` may be one of the following:

<i>returnset</i>	Description
<code>escalars</code>	All returned scalars
<code>rscalars</code>	All returned scalars
<code>emacros</code>	All returned macros
<code>rmacros</code>	All returned macros
<code>ematrices</code>	All returned matrices
<code>rmatrices</code>	All returned matrices
<code>e*</code>	All returned scalars, macros, and matrices
<code>r*</code>	All returned scalars, macros, and matrices

The following output types are supported when adding content to an existing table using `putdocx table tablename(i, j)`:

`(exp)` writes a valid Stata expression to a cell. See [U] **13 Functions and expressions**.

`image(filename)` adds a portable network graphics (.png), JPEG (.jpg), Windows metafile (.wmf), device-independent bitmap (.dib), enhanced metafile (.emf), or bitmap (.bmp) file to the table cell. If `filename` contains spaces, it must be enclosed in double quotes.

`table(mem_tablename)` adds a previously created table, identified by `mem_tablename`, to the table cell.

The following combinations of `tablename(numlisti, numlistj)` (see [U] **11.1.8 numlist** for valid specifications) can be used to format a cell or range of cells in an existing table:

`tablename(i, j)` specifies the cell on the *i*th row and *j*th column.

`tablename(i, .)` and `tablename(numlisti, .)` specify all cells on the *i*th row or on the rows identified by `numlisti`.

`tablename(., j)` and `tablename(., numlistj)` specify all cells in the *j*th column or in the columns identified by `numlistj`.

`tablename(., .)` specifies the whole table.



## Options

Options are presented under the following headings:

- Options for putdocx begin*
- Options for putdocx paragraph*
- Options for putdocx text*
- Options for putdocx image*
- Options for putdocx table*
  - table\_options*
  - cell\_options*
  - row\_col\_options*
  - cell\_fmt\_options*
  - image\_options*
- Options for putdocx sectionbreak*
- Options for putdocx save*
- Option for putdocx append*

### Options for putdocx begin

`pagesize(psize)` sets the page size of the document. *psize* may be `letter`, `legal`, `A3`, `A4`, or `B4JIS`. The default is `pagesize(letter)`.

`landscape` changes the document orientation from portrait to landscape.

`font(fontname [, size [, color ]])` sets the font, font size, and font color for the document. Note that the font size and font color may be specified individually without specifying *fontname*. Use `font("", size)` to specify font size only. Use `font("", "", color)` to specify font color only. For both cases, the default font will be used.

### Options for putdocx paragraph

`style(pstyle)` specifies that the text in the paragraph be formatted with style *pstyle*. Common values for *pstyle* are `Title`, `Subtitle`, and `Heading1`. See the complete list of paragraph styles in the [Appendix](#).

`font(fontname [, size [, color ]])` sets the font, font size, and font color for the text within the paragraph. Note that the font size and font color may be specified individually without specifying *fontname*. Use `font("", size)` to specify font size only. Use `font("", "", color)` to specify font color only. For both cases, the default font will be used.

Specifying `font()` with `putdocx paragraph` overrides font settings specified with `putdocx begin`.

`halign(hvalue)` sets the horizontal alignment of the text within the paragraph. *hvalue* may be `left`, `right`, `center`, `both`, or `distribute`. `distribute` and `both` justify text between the left and right margins equally, but `distribute` also changes the spacing between words and characters. The default is `halign(left)`.

`valign(vvalue)` sets the vertical alignment of the characters on each line when the paragraph contains characters of varying size. *vvalue* may be `auto`, `baseline`, `bottom`, `center`, or `top`. The default is `valign(baseline)`.

`indent(indenttype, #[unit])` specifies that the paragraph be indented by # *units*. *indenttype* may be `left`, `right`, `hanging`, or `para`. `left` and `right` indent # *units* from the left or the right, respectively. `hanging` uses hanging indentation and indents lines after the first line by # inches unless another *unit* is specified. `para` uses standard paragraph indentation and indents the first

line by # inches unless another *unit* is specified. This option may be specified multiple times in a single command to accommodate different indentation settings. If both `indent(hanging)` and `indent(para)` are specified, only `indent(hanging)` is used.

`spacing(position, #[unit])` sets the spacing between lines of text. *position* may be `before`, `after`, or `line`. `before` specifies the space before the first line of the current paragraph, `after` specifies the space after the last line of the current paragraph, and `line` specifies the space between lines within the current paragraph. This option may be specified multiple times in a single command to accommodate different spacing settings.

`shading(bgcolor [, fgcolor [, fpattern ]])` sets the background color, foreground color, and fill pattern for the paragraph.

## Options for putdocx text

`nformat(%fmt)` specifies the numeric format of the text when the content of the new text appended to the paragraph is a numeric value. This setting has no effect when the content is a string.

`font(fontname [, size [, color ]])` sets the font, font size, and font color for the new text within the active paragraph. Note that the font size and font color may be specified individually without specifying *fontname*. Use `font("", size)` to specify font size only. Use `font("", "", color)` to specify font color only. For both cases, the default font will be used.

Specifying `font()` with `putdocx text` overrides all other font settings, including those specified with `putdocx begin` and `putdocx paragraph`.

`bold` specifies that the new text in the active paragraph be formatted as bold.

`italic` specifies that the new text in the active paragraph be formatted as italic.

`script(sub|super)` changes the script style of the new text. `script(sub)` makes the text a subscript. `script(super)` makes the text a superscript.

`strikeout` specifies that the new text in the active paragraph have a strikeout mark.

`underline[upattern]` specifies that the new text in the active paragraph be underlined and optionally specifies the format of the line. By default, a single underline is used. The optional *upattern* may be any of the patterns listed in the [Appendix](#). The most common patterns are `double`, `dash`, and `none`.

`shading(bgcolor [, fgcolor [, fpattern ]])` sets the background color, foreground color, and fill pattern for the active paragraph. Specifying `shading()` with `putdocx text` overrides shading specifications from `putdocx paragraph`.

`linebreak[#]` specifies that one or # line breaks be added after the new text.

`allcaps` specifies that all letters of the new text in the active paragraph be capitalized.

`smallcaps` specifies that the new text in the active paragraph be capitalized with larger capitals for uppercase letters.

## Options for putdocx image

`width#[unit]` sets the width of the image. If the width is larger than the body width of the document, then the body width is used. If `width()` is not specified, then the default size is used; the default is determined by the image information and the body width of the document.

`height#[unit]` sets the height of the image. If `height()` is not specified, then the height of the image is determined by the width and the aspect ratio of the image.

`linebreak[#]` specifies that one or # line breaks be added after the new image.

`link` specifies that a link to the image *filename* be inserted into the document. If the image is linked, then the referenced file must be present so that the document can display the image.

## Options for putdocx table

### table\_options

`memtable` specifies that the table be created and held in memory instead of being added to the active document. By default, the table is added to the document immediately after it is created. This option is useful if the table is intended to be added to a cell of another table or to be used multiple times later.

`width(#[unit | %])` sets the table width. # may be an absolute width or a percent of the default table width, which is determined by the page width of the document. For example, `width(50%)` sets the table width to 50% of the default table width. The default is `width(100%)`.

`halign(hvalue)` sets the horizontal alignment of the table within the page. *hvalue* may be `left`, `right`, or `center`. The default is `halign(left)`.

`indent(#[unit])` specifies the table indentation from the left margin of the current document.

`layout(layouttype)` adjusts the column width of the table. *layouttype* may be `fixed`, `autofitwindow`, or `autofitcontents`. `fixed` means the width is the same for all columns in the table. When `autofitwindow` is specified, the column width automatically resizes to fit the window. When `autofitcontents` is specified, the table width is determined by the overall table layout algorithm, which automatically resizes the column width to fit the contents. The default is `layout(autofitwindow)`.

`cellmargin(cmarg, #[unit])` sets the cell margins for table cells. *cmarg* may be `top`, `bottom`, `left`, or `right`. This option may be specified multiple times in a single command to accommodate different margin settings.

`cellspacing(#[unit])` sets the spacing between adjacent cells and the edges of the table.

`border(bordername [, bpattern [, bcolor]])` adds a single border in the location specified by *bordername*, which may be `start`, `end`, `top`, `bottom`, `insideH` (inside horizontal borders), `insideV` (inside vertical borders), or `all`. Optionally, you may change the pattern and color for the border by specifying *bpattern* and *bcolor*.

This option may be specified multiple times in a single command to accommodate different border settings. If multiple `border()` options are specified, they are applied in the order specified from left to right.

`headerrow(#)` sets the top # rows to be repeated as header rows at the top of each page on which the table is displayed. This setting has a visible effect only when the table crosses multiple pages.

`varnames` specifies that the variable names be included as the first row in the table when the table is created using the dataset in memory. By default, only the data values are added to the table.

`obsno` specifies that the observation numbers be included as the first column in the table when the table is created using the dataset in memory. By default, only the data values are added to the table.

`nformat(%fmt)` specifies the numeric format to be applied to the source values when creating the table from a Stata or Mata matrix. The default is `nformat(%12.0g)`.

`rownames` specifies that the row names of the Stata matrix be included as the first column in the table. By default, only the matrix values are added to the table.

`colnames` specifies that the column names of the Stata matrix be included as the first row in the table. By default, only the matrix values are added to the table.

`title(string)` inserts a row without borders above the current table. The added row spans all the columns of the table and contains *string* as text. The added row shifts all other table contents down by one row. You should account for this when referencing table cells in subsequent commands.

`note(string)` inserts a row without borders to the bottom of the table. The added row spans all the columns of the table. This option may be specified multiple times in a single command to add notes on new lines within the same cell. Note text is inserted in the order it was specified from left to right.

### cell\_options

`append` specifies that the new content for the cell be appended to the current content of the cell. If `append` is not specified, then the current content of the cell is replaced by the new content.

`rowspan(#)` sets the specified cell to span vertically *#* cells downward. If the span exceeds the total number of rows in the table, the span stops at the last row.

`colspan(#)` sets the specified cell to span horizontally *#* cells to the right. If the span exceeds the total number of columns in the table, the span stops at the last column.

`span(#1, #2)` sets the specified cell to span *#*<sub>1</sub> cells downward and span *#*<sub>2</sub> cells to the right.

`linebreak[ (#) ]` specifies that one or *#* line breaks be added after the text, the image, or the table within the cell.

### row\_col\_options

`nosplit` specifies that row *i* not split across pages. When a table row is displayed, a page break may fall within the contents of a cell on the row, causing the contents of that cell to be displayed across two pages. `nosplit` prevents this behavior. If the entire row cannot fit on the current page, the row will be moved to the start of the next page.

`addrows(# [ , before | after ])` adds *#* rows to the current table before or after row *i*. If *before* is specified, the rows are added before the specified row. By default, rows are added after the specified row.

`addcols(# [ , before | after ])` adds *#* columns to the current table to the right or the left of column *j*. If *before* is specified, the columns are added to the left of the specified column. By default, the columns are added after, or to the right of, the specified column.

`drop` deletes row *i* or column *j* from the table.

### cell\_fmt\_options

`halign(hvalue)` sets the horizontal alignment of the specified cell or of all cells in the specified row, column, or range. *hvalue* may be `left`, `right`, or `center`. The default is `halign(left)`.

`valign(vvalue)` sets the vertical alignment of the specified cell or of all cells in the specified row, column, or range. *vvalue* may be `top`, `bottom`, or `center`. The default is `valign(top)`.

`border(bordername [ , bpattern [ , bcolor ] ])` adds a single border to the specified cell or to all cells in the specified row, column, or range in the given location. *bordername* may be `start`, `end`, `top`, `bottom`, or `all`. Optionally, you may change the pattern and color for the border by specifying *bpattern* and *bcolor*.

This option may be specified multiple times in a single command to accommodate different border settings. If multiple `border()` options are specified, they are applied in the order specified from left to right.

`shading(bgcolor [ , fgcolor [ , fpattern ] ])` sets the background color, foreground color, and fill pattern for the specified cell or for all cells in the specified row, column, or range.

`nformat(%fmt)` applies the Stata numeric format *%fmt* to the text within the specified cell or within all cells in the specified row, column, or range. This setting only applies when the content of the cell is a numeric value.

`font(fontname [ , size [ , color ] ])` sets the font, font size, and font color for the current text within the specified cell or within all cells in the specified row, column, or range. Note that the font size and font color may be specified individually without specifying *fontname*. Use `font("", size)` to specify font size only. Use `font("", "", color)` to specify font color only. For both cases, the default font will be used.

`bold` applies bold formatting to the current text within the specified cell or within all cells in the specified row, column, or range.

`italic` applies italic formatting to the current text within the specified cell or within all cells in the specified row, column, or range.

`script(sub|super)` changes the script style of the current text. `script(sub)` makes the text a subscript. `script(super)` makes the text a superscript. `script()` may only be specified when formatting a single cell.

`strikeout` adds a strikeout mark to the current text within the specified cell or within all cells in the specified row, column, or range.

`underline` adds an underline to the current text within the specified cell or within all cells in the specified row, column, or range. By default, a single underline is used. `underline(upattern)` can be used to change the format of the line, where *upattern* may be any of the patterns listed in the [Appendix](#). The most common patterns are `double`, `dash`, and `none`.

`allcaps` uses capital letters for all letters of the current text within the specified cell or within all cells in the specified row, column, or range.

`smallcaps` uses capital letters for all letters of the current text within the specified cell or within all cells in the specified row, column, or range. Unlike `allcaps`, larger capitals are used for uppercase letters.

## image\_options

`width(# [unit])` sets the width of the image. If the width is larger than the width of the cell, then the width is used. If `width()` is not specified, then the default size is used; the default is determined by the image information and the width of the cell.

`height(# [unit])` sets the height of the image. If `height()` is not specified, then the height of the image is determined by the width and the aspect ratio of the image.

`linebreak[ (# )]` specifies that one or *#* line breaks be added after the new image.

`link` specifies that a link to the image *filename* be inserted into the document. If the image is linked, then the referenced file must be present so that the document can display the image.

## Options for putdocx sectionbreak

`pagesize(psize)` sets the page size of the section. *psize* may be `letter`, `legal`, `A3`, `A4`, or `B4JIS`. The default is `pagesize(letter)`.

`landscape` changes the section orientation from portrait to landscape.

## Options for putdocx save

`replace` specifies to overwrite *filename*, if it exists, by the contents of the document in memory.

`append` specifies to append the contents of the document in memory to the end of *filename*.

## Option for putdocx append

`saving(filename [ , replace ])` specifies to append the contents of the existing document *filename*<sub>2</sub> to the end of *filename*<sub>1</sub> and then write the result to the new document *filename*. If *filename* already exists, it can be overwritten by specifying `replace`. By default, *filename*<sub>1</sub> is replaced with the document created by appending content from *filename*<sub>2</sub>.

If more than two files are specified, the contents are appended in the order in which they are listed. For example, *filename*<sub>2</sub> is appended to *filename*<sub>1</sub>, *filename*<sub>3</sub> is appended to the result of the first append, and so forth.

## Remarks and examples

[stata.com](http://www.stata.com)

`putdocx` is a suite of commands used to write paragraphs, images, and tables to an Office Open XML file (.docx). This allows you to generate various reports and write papers based on those elements. `putdocx` generates files compatible with Microsoft Word 2007 and later. It is supported on Windows, macOS, and Linux.

Before we can write to a .docx file using `putdocx`, we need to create a .docx document in memory. We do this using the `putdocx begin` command.

```
. putdocx begin
```

By default, the document created uses the `letter` pagesize, and its layout is set to `portrait`. Those properties may be overwritten by specifying corresponding document options. Some other properties may also be customized; see [Options for putdocx begin](#) in [Options](#).

Once the document is created, other objects such as paragraphs and tables may be added to it. After we are done editing the document, we can save it to disk.

```
. putdocx save example.docx
```

Note that either the `replace` or the `append` option is required if `example.docx` already exists in the saving directory. If `replace` is specified, then all the contents in `example.docx` will be overwritten. If `append` is specified, then all the contents of the active document in memory will be appended to the end of `example.docx`. To close the document in memory and erase all elements in it without saving your work, use `putdocx clear`. `putdocx save` automatically clears the working copy of the document from memory.

Remaining remarks are presented under the following headings:

- Add a paragraph*
  - Add text to paragraph*
  - Add an image to paragraph*
- Add a table*
  - Export data*
  - Export estimation results*
- Advanced uses*

## Add a paragraph

Before you can add text or an image to the paragraph, you must first begin a new paragraph by using `putdocx paragraph`. You can control the formatting for the whole paragraph, such as font properties and alignment, with options for `putdocx paragraph`. See [Options for `putdocx paragraph`](#) for paragraph formatting options. The current paragraph remains active until you add a new paragraph, a table, a section break, or a page break.

## Add text to paragraph

Once the new paragraph is created, you add text to it by using `putdocx text`. The new text is appended to any text or image that has already been added to the paragraph. This text can also be formatted individually. See [Options for `putdocx text`](#) for text formatting options.

### ▷ Example 1: Add a paragraph and format the text

Suppose we want to write a description of `auto.dta` to `example.docx`. Our description includes the number of automobiles and the maximum miles per gallon (MPG) among all the automobiles. We can create a paragraph containing that information by using `putdocx paragraph`.

To start, we use the `summarize` command to get descriptive statistics for the `mpg` variable.

```
. use http://www.stata-press.com/data/r15/auto
(1978 Automobile Data)
. summarize mpg
```

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

After that, we can use the results from `summarize` in the text that we write. To see a list of available returned results, we type `return list`. See [\[P\] return](#) for more about stored results from Stata commands.

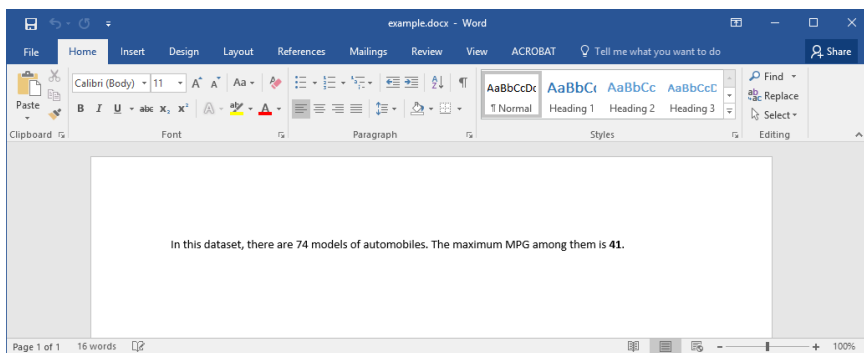
```
. return list
scalars:
      r(sum) = 1576
      r(max) = 41
      r(min) = 12
      r(sd) = 5.785503209735141
      r(Var) = 33.47204738985561
      r(mean) = 21.2972972972973
      r(sum_w) = 74
      r(N) = 74
```

The returned results `r(N)` and `r(max)` store the number of automobiles and the maximum MPG among those automobiles, respectively.

Now, we specify the command to create our document. We then add a new paragraph to the active document and append text to it. The content of each `putdocx text` command may be a valid Stata expression (see [U] [13 Functions and expressions](#)) or a normal string. `putdocx text` can be used to break long sentences into pieces, and each piece in the paragraph can be customized to have a different style. Here, `r(max)` is formatted as bold.

```
. putdocx begin
. putdocx paragraph
. putdocx text ("In this dataset, there are 'r(N)'" )
. putdocx text (" models of automobiles. The maximum MPG among them is ")
. putdocx text (r(max)), bold
. putdocx text (".")
```

This adds text to the document that looks like this:



## Add an image to paragraph

You can add any existing `.png`, `.jpg`, `.emf`, and `.tif` image files to a `.docx` file with `putdocx image`. For example, you could include a company logo. You can also add graphs from Stata output. Because Stata graphs use the `.gph` extension, you must use `graph export` to convert the Stata graph to one of the supported image formats; see [\[G-2\] graph export](#).

By default, images are embedded in the file. If the image is embedded, it becomes a part of the document and has no further relationship with the original image on the disk. You can instead link the image by specifying the `link` option. Using linked images means that if the image file on the disk is updated, then the linked image in the document will reflect the change.

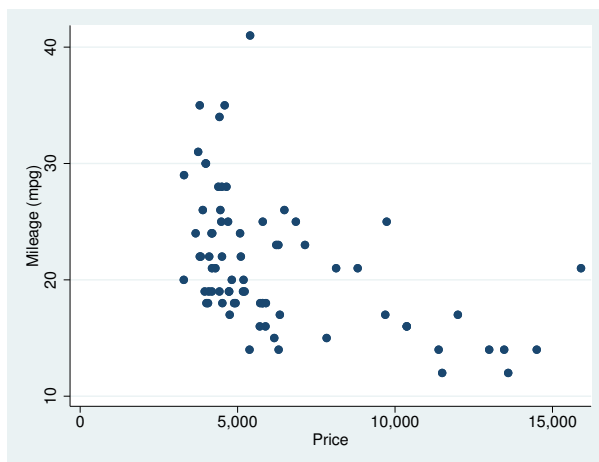
If you are adding the image after text and you want the paragraph that contains the image to have the same format as the active paragraph, you can insert the image with no additional step. However, if you want to change the formatting or if there is no active paragraph, you must create one using `putdocx paragraph`. Note that you do not need to declare a new paragraph to insert an image into the cell of a table.



## ► Example 2: Export a Stata graph

We may want to add a scatterplot showing how mileage (mpg) correlates with price (price) of cars. We can use the `scatter` command and then `graph export` to create a `.png` file.

```
. scatter mpg price
```



```
. graph export auto.png
(file auto.png written in PNG format)
```

Next, we use `putdocx image` to add the `.png` file to the document. Because our active paragraph is left-aligned and we want our image to be centered, we declare a new paragraph and specify the `halign()` option.

```
. putdocx paragraph, halign(center)
. putdocx image auto.png
```

◀

## Add a table

`putdocx table` is used to add a table to the document. A valid table name is required to declare a table. The table name is used later as a reference to customize the table and the cells.

## Export data

Exporting the data in memory is useful when you want to make a table in the `.docx` file using content from your dataset. The `if` or `in` qualifier may be applied to export only those observations that meet the specified condition or are in the specified range (or both, if both `if` and `in` are specified).

## ► Example 3: Export table of summary statistics

Suppose we want to export summary statistics, such as the number of automobiles, the maximum and minimum MPG, and the average MPG, that have been calculated separately for foreign and domestic automobiles. To start, we use the `statsby` command to collect the above statistics for each group. Because `statsby` creates a new dataset that overwrites the dataset in memory, we need to preserve the dataset and then restore it after we have finished exporting the data.

```

. preserve
. statsby Total=r(N) Average=r(mean) Max=r(max) Min=r(min), by(foreign):
> summarize mpg
(running summarize on estimation sample)
      command: summarize mpg
      Total:   r(N)
      Average: r(mean)
      Max:     r(max)
      Min:     r(min)
      by:     foreign

Statsby groups
-----|-----|-----|-----|-----|-----|-----
      1      2      3      4      5
..

```

Because we want the variable names to serve as column titles, we rename `foreign` to `Origin`. Then, we export the data in memory as a table by specifying in `data()` the variable names `Origin`, `Total`, `Average`, `Max`, and `Min`. In this case, we use the table name `tbl1`. The order of the variable names in the list determines the column order in the table.

```

. rename foreign Origin
. putdocx table tbl1 = data("Origin Total Average Max Min"), varnames
> border(start, nil) border(insideV, nil) border(end, nil)

```

By default, the exported table includes single borders around all cells. We use the `border()` option to remove all vertical borders from the table. We can apply additional formatting to individual cells or ranges of cells; see [example 4](#).

◀

## ▶ Example 4: Format a table

The cells in the table that we created in [example 3](#) can be further customized. For example, we can reset the contents, set the text alignment, modify the borders, and so forth. Here, we set the text of the cells on the second through the fifth columns to be right-aligned instead of the default left alignment.

To format all the cells in a column, we specify the row index as “.” and the column indexes as  $2/5$  in the  $(numlist_i, numlist_j)$  specification for a table.

```

. putdocx table tbl1(., 2/5), halign(right)

```

Our formatted `tbl1` looks like this:

The screenshot shows a Microsoft Word document titled 'example.docx - Word'. The ribbon includes File, Home, Insert, Design, Layout, References, Mailings, Review, View, ACROBAT, Design, Layout, Tell me, and Share. The table in the document is as follows:

Origin	Total	Average	Max	Min
Domestic	52	19.82692	34	12
Foreign	22	24.77273	41	14

The status bar at the bottom indicates 'Page 1 of 1' and '15 words'.

Afterward, we restore the dataset.

```
. restore
```

4

## Export estimation results

One of the primary uses of `putdocx table` is to export estimation results. Suppose we fit a linear regression model of `mpg` as a function of the car's gear ratio (`gear_ratio`), turning radius (`turn`), and whether the car is of foreign origin (`foreign`) using `regress`.

```
. regress mpg gear_ratio turn foreign, noheader
```

mpg	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
gear_ratio	4.855506	1.522481	3.19	0.002	1.819013	7.891999
turn	-.8364698	.1440204	-5.81	0.000	-1.123709	-.5492302
foreign	-3.503218	1.433526	-2.44	0.017	-6.362296	-.6441404
_cons	40.865	8.692731	4.70	0.000	23.52789	58.2021

We want to add these regression results to the document. For most estimation commands, we can use the `etable` output type to add the elements of the displayed coefficient table with a single command.

```
. putdocx table reg = etable
```

But we need not stop there. In [example 5](#), we select a subset of the results and format them.

### ► Example 5: Export selected estimation results

Suppose we want to export only the point estimates and confidence intervals from the table above; we can also use `putdocx table` to remove the components that we do not want.

First, we create a new table, `tbl2`, that contains the estimation results from `regress`. We specify the `width` option to ensure that the table occupies the full page width of the document. Next, we want to remove the third through the fifth columns. To drop the fifth column, we specify `tbl2(.,5)` followed by the `drop` option. We work from right to left, dropping column five before four, because in this manner, the column numbers to the left of the newly dropped column do not change. Equivalently, we could have dropped the third column three times, because each time we drop it, the previous fourth column becomes the third.

Once we have only the desired statistics, we customize the header row by erasing the text “mpg” from the first column. We then format our table by removing the border on the right side of the first column. To do this, we specify `nil` as the border pattern for the right border. And finally, we format all estimates, in what will now be columns two through four, to have three decimal places by specifying the column indexes as a range.

```
. putdocx table tbl2 = etable, width(100%)
. putdocx table tbl2(.,5), drop //drop p-value column
. putdocx table tbl2(.,4), drop //drop t column
. putdocx table tbl2(.,3), drop //drop SE column
. putdocx table tbl2(1,1) = ("") // erase the content of first cell "mpg"
. putdocx table tbl2(.,1), border(right, nil)
. putdocx table tbl2(.,2/4), nformat(%9.3f)
```

Our final table appears in the document as follows:

The screenshot shows a Microsoft Word document titled 'example.docx - Word'. The ribbon includes File, Home, Insert, Design, Layout, References, Mailings, Review, View, ACROBAT, Design, Layout, Tell me, and Share. The table is centered on the page and has the following data:

	Coef.	[95% Conf. Interval]	
<code>gear_ratio</code>	4.856	1.819	7.892
<code>turn</code>	-0.836	-1.124	-0.549
<code>foreign</code>	-3.503	-6.362	-0.644
<code>_cons</code>	40.865	23.528	58.202

The status bar at the bottom indicates 'Page 1 of 1' and '20 words'.

We can now type

```
. putdocx save example.docx
```

to save the document that we created as `example.docx`.

In this example, because we wanted to use the same number of decimals for all estimates in our table and because we are using the `etable` output type, we could have preemptively set the format with our `regress` command. The modified version of the command is

```
. regress mpg gear_ratio turn foreign, noheader cformat(%9.3f)
```

This avoids the need to issue a separate formatting command.

The `etable` output type also works after `estimates table`, and you may find it easier to build a table of selected estimates prospectively. See [example 3](#) in [\[R\] estimates table](#) for an illustration.

## Advanced uses

The [previous](#) example demonstrated the use of the `etable` output type for exporting an estimation table to a `.docx` file. While this method is efficient for extracting large portions of the estimation results, exporting results to highly customized tables with complicated layouts can at times be done more easily from a matrix of stored results. See [\[U\] 14 Matrix expressions](#) for help with matrix notation.

A small set of estimation commands do not support the `etable` output type; however, matrices of stored results can be exported when using these commands. For a list of estimation commands that do not support the `etable` output type, see [Unsupported estimation commands](#).

Finally, it may be difficult for us to figure out the dimension of the table and the content of each cell. In this situation, we can consider building the table in pieces and combining them.

In this section, we begin a new document and add some more advanced tables to it.

```
. putdocx begin
```

Afterward, we can append these tables to the first set of examples by using

```
. putdocx save example.docx, append
```

## ► Example 6: Export selected estimation results from a matrix

To illustrate the basic use of matrix manipulation of stored results to create an estimation table, we re-create the simple estimation table from [example 5](#). The displayed results returned by `regress` are stored in the matrix `r(table)`, which can be viewed by typing `matrix list`.

```
. matrix list r(table)
r(table)[9,4]
      gear_ratio      turn      foreign      _cons
b    4.8555057    -.83646975    -3.5032183    40.864996
se    1.5224812     .14402036     1.4335262     8.6927313
t     3.1892057    -5.8079965    -2.4437769     4.7010537
pvalue .0021348     1.704e-07     .01705791     .00001258
ll    1.8190127    -1.1237093    -6.3622962    23.527891
ul    7.8919987    -.5492302    -.64414044    58.202102
df           70           70           70           70
crit   1.9944371    1.9944371    1.9944371    1.9944371
eform           0           0           0           0
```

First, we create the matrix `rtable` as the transpose of `r(table)` because we want to see the variable names in rows. The point estimates and confidence intervals in the regression table can be extracted from the matrix `rtable`. We can extract columns 1, 5, and 6 from `rtable`, combine them, and assign them to another new matrix, `r_table`.

```
. matrix rtable = r(table)'
. matrix r_table = rtable[1...,1], rtable[1...,5..6]
```

Then, we export `r_table` to the document as a table with the name `tbl3`.

```
. putdocx table tbl3 = matrix(r_table), nformat(%9.3f) rownames colnames
> border(start, nil) border(insideH, nil) border(insideV, nil) border(end, nil)
```

In this table, all values imported from the matrix have been formatted as `%9.3f`. In addition, the row and column names of the matrix `r_table` are included as the first column and first row of the table. We keep only the top and bottom borders of the table by specifying `nil` for the leading edge border (`start`), trailing edge border (`end`), inside horizontal edges border (`insideH`), and inside vertical edges border (`insideV`).

The column names from the matrix may not be exactly what we want; we can modify them by customizing the corresponding cells. We can reset the contents and the horizontal alignment of the cells on the first row to give the columns new titles.

```
. putdocx table tbl3(1,2) = ("Coef."), halign(right)
. putdocx table tbl3(1,3) = ("[95% Conf. Interval]"), halign(right) colspan(2)
```

Afterward, we add back the bottom border of the first row and right-align the cells on the rest of the rows by specifying the row range as two through five.

```
. putdocx table tbl3(1,.), border(bottom)
. putdocx table tbl3(2/5,.), halign(right)
```

Our final table will be identical to that shown in [example 5](#).

### ▷ Example 7: Create a table from components

We can also build tables in pieces and then combine them. For illustrative purposes, we again use the table created in [example 5](#) and [example 6](#). The table can be considered to comprise two parts, the header and the body. We first create a table for each part. Notice that both tables will be created with the `memtable` option, which declares that they be created in memory rather than added to the document. This is required so we can add the tables as components to the final table.

The header part contains the column titles and is specified as a  $1 \times 2$  table with borders removed and contents aligned to the right.

```
. putdocx table tbl41 = (1,2), memtable border(all, nil)
. putdocx table tbl41(1,1) = ("Coef."), halign(right)
. putdocx table tbl41(1,2) = ("[95% Conf. Interval]"), halign(right)
```

The body part contains the content that we want displayed. It is created as another table by using the same Stata matrix from [example 6](#), `r_table`. Again, we remove all borders when we create the table. To align all contents to the right in a single command, we specify “.” as the row and column indexes when we edit the table formatting.

```
. putdocx table tbl42 = matrix(r_table), memtable border(all, nil)
> nformat(%9.3f) rownames
. putdocx table tbl42(.,.), halign(right)
```

Finally, we create a  $2 \times 1$  table named `tbl4`, in which the first cell contains `tbl41` and the second cell contains `tbl42`. In addition, we remove its leading edge border and trailing edge border.

```
. putdocx table tbl4 = (2,1), border(start, nil) border(end, nil)
. putdocx table tbl4(1,1) = table(tbl41)
. putdocx table tbl4(2,1) = table(tbl42)
```

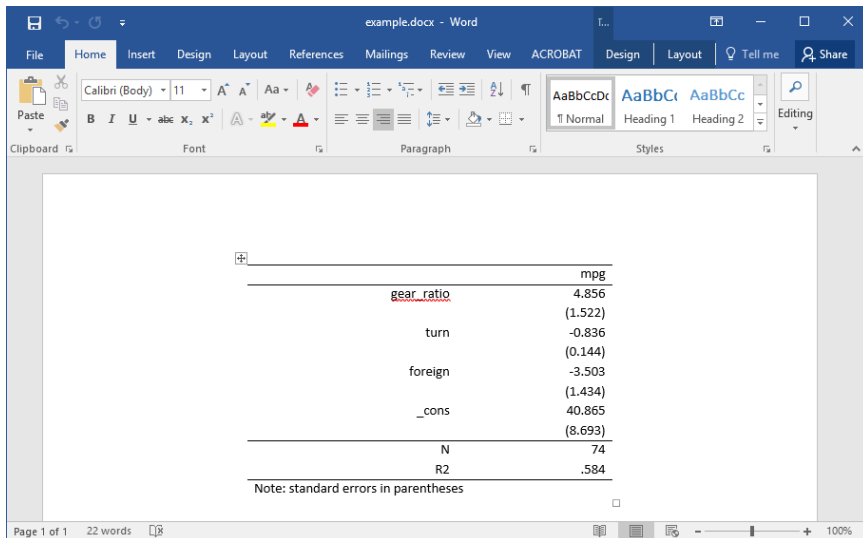
This is a simplified example of how to create a table using nested tables. Again, the results will look like those shown for [example 5](#).



### ▷ Example 8: Create a table dynamically

In the previous example, we added a table in two steps. The first step was to create a table in the document. The second step was to fill in the contents for each cell. In this process, the dimensions of the table were predetermined. Another way to add a table is to create it dynamically: start with a simple table, and then add rows or columns to it gradually.

Returning to the regression results from [example 5](#), suppose we want to add an estimation table to the document containing the point estimates, their standard errors, the total number of observations, and the coefficient of determination. The estimation table looks like the following:



We can start our table on a new page by typing

```
. putdocx pagebreak
```

To create our table of estimation results, we begin by creating a  $1 \times 2$  table with no borders and fill the single row with the dependent variable name, `mpg`. We also set the table width to be 4 inches and put the table in the center of the document. We add a note stating that standard errors are in parentheses.

```
. putdocx table tbl5 = (1,2), border(all, nil) width(4) halign(center)
> note("Note: standard errors in parentheses")
. putdocx table tbl5(1,1)="mpg", halign(right) colspan(2) border(top)
> border(bottom)
```

Notice that each regressor in the model takes up 2 rows and 2 columns in the table, which means 4 cells. The cell in the first row and first column contains the variable name. The cell in the first row and second column contains the point estimate. The cell in the second row and second column contains the standard errors. Based on this logic, we add two rows for each regressor at the end of the table every time, and we fill in the content and format for each cell one by one.

```
. local row 1
. local vari 1
. foreach x in gear_ratio turn foreign _cons {
2.     putdocx table tbl5('row',.), addrows(2)
3.
.     local b: display %9.3f rtable['vari',1]
4.     local se: display %9.3f rtable['vari',2]
5.     local ++vari
6.
.     local ++row
7.     putdocx table tbl5('row',1) = ("x"), halign(right)
8.     putdocx table tbl5('row',2) = ("b"), halign(right)
9.     local ++row
10.    local se = strtrim("`se'")
11.    putdocx table tbl5('row',2) = ("('se)'), halign(right)
12. }
```

Afterward, we add two more rows to the end of the table for the number of observations and the coefficient of determination.

```
. putdocx table tbl5('row',.), addrows(2)
```

We then add each statistic to the table.

```
. local ++row
. putdocx table tbl5('row',1) = ("N"), border(top) halign(right)
. putdocx table tbl5('row',2) = (e(N)), border(top) halign(right)
. local ++row
. local r2: display %9.3f e(r2)
. putdocx table tbl5('row',1) = ("R2"), halign(right) border(bottom)
. putdocx table tbl5('row',2) = ('r2'), halign(right) border(bottom)
```

We add a bottom border to the last row to separate the note from the rest of the table.



## ► Example 9: Nesting images in a table

We might want to add various images to the document and align them side by side, row by row, or both. To be more clear, we use an example to illustrate this purpose. In this example, we use another dataset—the Second National Health and Nutrition Examination Survey (NHANES II) (McDowell et al. 1981).

First, we fit a three-way full factorial model of systolic blood pressure on age group, sex, and body mass index (BMI). Then, we estimate the predictive margins for each combination of `agegrp` and `sex` at levels of BMI from 10 through 40 at intervals of 10 and graph the results.

```
. use http://www.stata-press.com/data/r15/nhanes2, clear
. regress bpsystol agegrp##sex##c.bmi
  (output omitted)
. forvalues v=10(10)40 {
  2.     margins agegrp, over(sex) at(bmi='v')
  3.     marginsplot
  4.     graph export bmi'v'.png
  5. }
  (output omitted)
```

Now, we want to add those four plots into the document, requiring that the margins plots for `bmi=10` and `bmi=20` lay side by side on top of the other two side-by-side margins plots for `bmi=30` and `bmi=40`. It is also required that each plot have a subtitle indicating the level of BMI and that the final figure have a title. This complicated layout can be accomplished using `putdocx table`.

We start with a  $2 \times 2$  table and remove all of its borders, placing the table on a new page. We caption our table by using the `note()` option. In each cell, we add a plot and then append center-aligned text to it.



```

. putdox pagebreak
. putdox table tbl6 = (2,2), border(all,nil)
> note(Figure 1: Predictive margins of agegrp) halign(center)
. putdox table tbl6(1,1)=image(bmi10.png)
. putdox table tbl6(1,1)="(a) bmi=10", append halign(center)
. putdox table tbl6(1,2)=image(bmi20.png)
. putdox table tbl6(1,2)="(b) bmi=20", append halign(center)
. putdox table tbl6(2,1)=image(bmi30.png)
. putdox table tbl6(2,1)="(c) bmi=30", append halign(center)
. putdox table tbl6(2,2)=image(bmi40.png)
. putdox table tbl6(2,2)="(d) bmi=40", append halign(center)

```

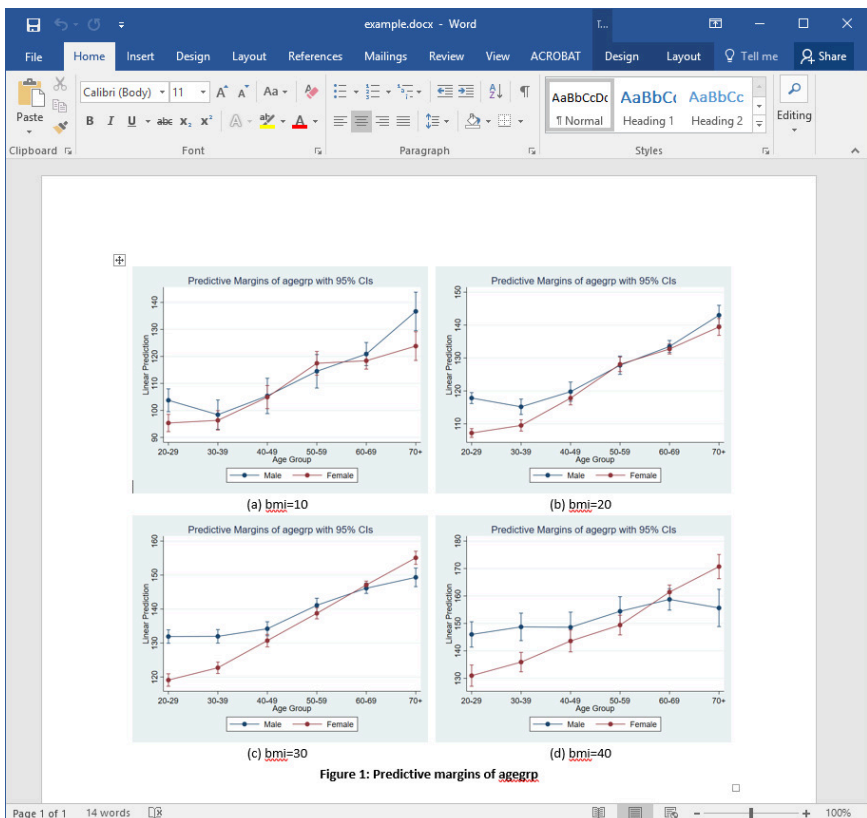
We formatted our table and the cell contents as we added content to the document. However, we would also like to format the caption. The `note()` option adds an additional row at the end of the table that spans all the columns of the table. We can format the text of the note by specifying the last row (in this case 3) and either `.` or `1` as the column index. Here, we center-align and bold the text of the caption. Because note text is always placed within a single merged cell, it does not matter how short or long the text is when you identify the cell location.

```

. putdox table tbl6(3,.) , halign(center) bold

```

This creates a table that looks like the following:



## Stored results

`putdocx describe tablename` stores the following in `r()`:

Scalars

<code>r(nrows)</code>	number of rows in the table
<code>r(ncols)</code>	number of columns in the table

## Appendix

### Paragraph styles

*pstyle*

---

Title	Heading5
Subtitle	Heading6
Heading1	Heading7
Heading2	Heading8
Heading3	Heading9
Heading4	

---

### Colors

*color*

---

aliceblue	deeppink
antiquewhite	deepskyblue
aqua	dimgray
aquamarine	dodgerblue
azure	firebrick
beige	floralwhite
bisque	forestgreen
black	fuchsia
blanchedalmond	gainsboro
blue	ghostwhite
blueviolet	gold
brown	goldenrod
burlywood	gray
cadetblue	green
chartreuse	greenyellow
chocolate	honeydew
coral	hotpink
cornflowerblue	indianred
cornsilk	indigo
crimson	ivory
cyan	khaki
darkblue	lavender
darkcyan	lavenderblush
darkgoldenrod	lawngreen
darkgray	lemonchiffon

*color*, continued

darkgreen	lightblue
darkkhaki	lightcoral
darkmagenta	lightcyan
darkolivegreen	lightgoldenrodyellow
darkorange	lightgray
darkorchid	lightgreen
darkred	lightpink
darksalmon	lightsalmon
darkseagreen	lightseagreen
darkslateblue	lightskyblue
darkslategray	lightslategray
darkturquoise	lightsteelblue
darkviolet	lightyellow
lime	peru
limegreen	pink
linen	plum
magenta	powderblue
maroon	purple
mediumaquamarine	red
mediumblue	rosybrown
mediumorchid	royalblue
mediumpurple	saddlebrown
mediumseagreen	salmon
mediumslateblue	sandybrown
mediumspringgreen	seagreen
mediumturquoise	seashell
mediumvioletred	sienna
midnightblue	silver
mintcream	skyblue
mistyrose	slateblue
moccasin	snow
navajowhite	springgreen
navy	steelblue
oldlace	tan
olive	teal
olivedrab	thistle
orange	tomato
orangered	turquoise
orchid	violet
palegoldenrod	wheat
palegreen	white
paleturquoise	whitesmoke
palevioletred	yellow
papayawhip	yellowgreen
peachpuff	

---

## Shading patterns

*fpattern*

---

nil	pct20
clear	pct25
solid	pct30
horzStripe	pct35
vertStripe	pct37
reverseDiagStripe	pct40
diagStripe	pct45
horzCross	pct50
diagCross	pct55
thinHorzStripe	pct60
thinVertStripe	pct62
thinReverseDiagStripe	pct65
thinDiagStripe	pct70
thinHorzCross	pct75
thinDiagCross	pct80
pct5	pct85
pct10	pct87
pct12	pct90
pct15	pct95

---

## Underline patterns

*upattern*

---

none	dashLong
single	dashLongHeavy
words	dotDash
double	dashDotHeavy
thick	dotDotDash
dotted	dashDotDotHeavy
dottedHeavy	wave
dash	wavyHeavy
dashedHeavy	wavyDouble

---

## Border patterns

*bpattern*

---

<code>nil</code>	<code>thickThinMediumGap</code>
<code>single</code>	<code>thinThickThinMediumGap</code>
<code>thick</code>	<code>thinThickLargeGap</code>
<code>double</code>	<code>thickThinLargeGap</code>
<code>dotted</code>	<code>thinThickThinLargeGap</code>
<code>dashed</code>	<code>wave</code>
<code>dotDash</code>	<code>doubleWave</code>
<code>dotDotDash</code>	<code>dashSmallGap</code>
<code>triple</code>	<code>dashDotStroked</code>
<code>thinThickSmallGap</code>	<code>threeDEmboss</code>
<code>thickThinSmallGap</code>	<code>threeDEngrave</code>
<code>thinThickThinSmallGap</code>	<code>outset</code>
<code>thinThickMediumGap</code>	<code>inset</code>

---

## Unsupported estimation commands

Command name	Available stored results documented in
<code>bayesmh</code>	[BAYES] <a href="#">bayesmh</a>
<code>bayes</code>	[BAYES] <a href="#">bayes</a>
<code>boxcox</code>	[R] <a href="#">boxcox</a>
<code>exlogistic</code>	[R] <a href="#">exlogistic</a>
<code>expoisson</code>	[R] <a href="#">expoisson</a>
<code>menl</code>	[ME] <a href="#">menl</a>
<code>rocfit</code>	[R] <a href="#">rocfit</a>
<code>varbasic</code>	[TS] <a href="#">varbasic</a>
<code>xthtaylor</code>	[XT] <a href="#">xthtaylor</a>
<code>xtpcse</code>	[XT] <a href="#">xtpcse</a>

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## References

- Jann, B. 2016. [Creating LaTeX documents from within Stata using texdoc](#). *Stata Journal* 16: 245–263.
- McDowell, A., A. Engel, J. T. Massey, and K. Maurer. 1981. Plan and operation of the Second National Health and Nutrition Examination Survey, 1976–1980. *Vital and Health Statistics* 1(15): 1–144.

## Also see

- [P] [putexcel](#) — Export results to an Excel file
- [P] [putpdf](#) — Create a PDF file
- [M-5] [\\_docx\\*\(\)](#) — Generate Office Open XML (.docx) file
- [M-5] [Pdf\\*\(\)](#) — Create a PDF file
- [M-5] [xl\(\)](#) — Excel file I/O class