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## Description

Dynamic tags are instructions used by Stata's dynamic documents commands, [dyndoc](#) and [dyntext](#), to perform a certain action, such as run a block of Stata code, insert the result of a Stata expression in text, export a Stata graph to an image file, or include a link to the image file.

## Remarks

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## Descriptions of dynamic tags

Here is a list of available dynamic tags and a short description for each. The tag may be abbreviated; the minimum abbreviation is indicated by the underlined letters.

Dynamic tag	Description
« <u>dd_version</u> »	specify the minimum version required to convert the dynamic document
« <u>dd_do</u> »	execute a block of Stata code and optionally include its output
«/ <u>dd_do</u> »	end « <u>dd_do</u> »
« <u>dd_display</u> »	include output of Stata expression as shown by Stata's display command
« <u>dd_docx_display</u> »	include output of Stata expression in a .docx file as shown by Stata's display command and format text within a block
« <u>dd_graph</u> »	export a Stata graph and include a link to the file
« <u>dd_ignore</u> »	disable processing of dynamic tags except « <u>dd_remove</u> »
«/ <u>dd_ignore</u> »	end « <u>dd_ignore</u> »
« <u>dd_include</u> »	include the contents of a text file
« <u>dd_remove</u> »	remove the following text until «/ <u>dd_remove</u> » is specified
«/ <u>dd_remove</u> »	end « <u>dd_remove</u> »
« <u>dd_if</u> »	process text based on condition
« <u>dd_else</u> »	process text based on condition
« <u>dd_endif</u> »	end « <u>dd_if</u> » block
« <u>dd_skip_if</u> »	skip text based on condition
« <u>dd_skip_else</u> »	skip text based on condition
« <u>dd_skip_end</u> »	end « <u>dd_skip_if</u> » block

«dd\_docx\_display» is only for use with putdocx textblock commands in a do-file.

Some tags must start at the beginning of a line, and the text in the same line after the tag is simply ignored. Other tags can be written in the middle of a line. The following table lists the required position in text for all tags.

Dynamic tag	Description
«dd_version»	beginning of a line, recommended at the start of a file
«dd_do»	beginning of a line
«/dd_do»	beginning of a line
«dd_display»	within a line
«dd_docx_display»	within a line
«dd_graph»	within a line
«dd_ignore»	beginning of a line
«/dd_ignore»	beginning of a line
«dd_include»	beginning of a line
«dd_remove»	within a line
«/dd_remove»	within a line
«dd_if»	beginning of a line
«dd_else»	beginning of a line
«dd_endif»	beginning of a line
«dd_skip_if»	beginning of a line
«dd_skip_else»	beginning of a line
«dd_skip_end»	beginning of a line

Tags can have attributes. Attributes are modifiers of a tag’s behavior. Attributes can be repeated, and the last one will take effect. For example, if you specify «dd\_do: *commands nocommands*», the commands will not be displayed because the attribute *nocommands* supersedes the previously specified attribute *commands*. This is useful when you experiment with the behavior of attributes for the best output. Some attributes have values; for example, *graphname()* requires the name of the graph to be exported. If a tag has only one attribute and that attribute requires a value, then the attribute name is omitted and only the value is required; for example, the *dd\_version* tag is used as «dd\_version: *an integer number*».

## Version control

```
<<dd_version: version_number>>
```

The «dd\_version» tag specifies the minimum version required to convert the source file. The version number is independent of Stata’s *version* command. The tag must be at the beginning of a new line. We recommend that the tag be placed at the beginning of the *srcfile*.

The current version, and the default, is 2, and it is introduced as of the release of Stata 16. The current version number is also stored in *c(dyndoc\_version)*.

## Execute and include output from a block of Stata code

```
<<dd_do: attribute>>
block of Stata code ...
<</dd_do>>
```

The «dd\_do» tag runs the block of Stata code, replacing the lines between «dd\_do» and «/dd\_do» with Stata output. Both the start tag, «dd\_do», and the end tag, «/dd\_do», must be at the beginning of new lines.

<i>attribute</i>	Description
<code>quietly</code>	suppress all output
<code>nocommands</code>	suppress printing of command
<code>nooutput</code>	suppress command output
<code>noprompt</code>	suppress the dot prompt

## Include strings and values of scalar expressions in text

```
<<dd_display: display_directive>>
```

The `<<dd_display>>` tag executes Stata's `display` command and then replaces the tag with its output. The tag cannot contain a line break or `»`. Use `> >` (with a space in between) instead if you need to include `»` in the *display\_directive*.

The `<<dd_display>>` tag can be used multiple times inside a line of text. For example, say that we want to display the circumference of a circle of radius 1 up to the two digits after the decimal. Instead of computing the number and then copying and pasting the result into the text, we can write

```
2*1*<<dd_display:%4.2f c(pi)>> = <<dd_display:%4.2f 2*1*c(pi)>>
```

which produces

```
2*1*3.14 = 6.28
```

## Include values of scalar expressions and formatted text in a .docx file

```
<<dd_docx_display text_options: display_directive>>
```

This tag includes expressions and formatted text within a block of text in a `.docx` file. It can only be used with text enclosed in `putdocx textblock` commands, as follows:

```
putdocx textblock begin
... text <<dd_docx_display directive>> text ...
putdocx textblock end
```

The `<<dd_docx_display>>` tag executes Stata's `display` command and then replaces the tag with its output. The output is formatted according to the *text\_options* available with `putdocx text`. The tag cannot contain a line break or `»`. If you need to include `»` in the *display\_directive*, use the symbols with a space in between (`> >`).

The `<<dd_docx_display>>` tag can be used multiple times inside a line of text. For example, say that we want to display the circumference of a circle with radius 1 up to the two digits after the decimal. Instead of computing the number and then copying and pasting the result into a block of text, we can write

```
putdocx textblock begin
2*1*<<dd_docx_display bold:%4.2f c(pi)>> = <<dd_docx_display bold:%4.2f 2*1*c(pi)>>
putdocx textblock end
```

which formats the value of  $\pi$  and the product in bold and produces the following in the `.docx` file being created.

```
2*1*3.14 = 6.28
```

For another example demonstrating the use of this dynamic tag, see [Working with blocks of text](#) in [RPT] [putdocx paragraph](#).

## Export and include a Stata graph

```
<<dd_graph: attribute>>
```

The «dd\_graph» tag exports a Stata graph and then includes a link to the exported image file in the target file.

<i>attribute</i>	Description
<u>saving</u> ( <i>filename</i> )	export graph to <i>filename</i>
<u>replace</u>	replace the file if it already exists
<u>graphname</u> ( <i>name</i> )	name of graph to be exported
<u>svg</u>	export graph as SVG
<u>png</u>	export graph as PNG
<u>pdf</u>	export graph as PDF
<u>eps</u>	export graph as EPS
<u>ps</u>	export graph as PS
<u>html</u>	output an HTML link
<u>markdown</u>	output a Markdown link; default is html
<u>pathonly</u>	output the path of the file; default is html
<u>alt</u> ( <i>text</i> )	alternative text for the graph to be read by voice software; ignored if pathonly in effect
<u>height</u> (#)	height in pixels of the graph in HTML; ignored if markdown or pathonly in effect
<u>width</u> (#)	width in pixels of the graph in HTML; ignored if markdown or pathonly in effect
<u>relative</u>	use file path relative to the <i>targetfile</i> path specified in <a href="#">dyndoc</a> or <a href="#">dyntext</a> ; this is the default
<u>absolute</u>	use absolute path in the link; default is relative
<u>basepath</u> ( <i>path</i> )	use <i>path</i> as base directory where graph files will be exported; default is the current working directory if it is not specified
<u>nourlencode</u>	do not encode the path to a percent-encoded URL; ignored if html or markdown in effect

If graphname(*name*) is not specified, the topmost graph is used. You can use the default name “Graph” to export the graph without the name.

For paths specified in the saving() or basepath() attributes, a single backslash (\) is interpreted as an escape character rather than as the directory separator character. When working on Windows, we recommend using a forward slash (/) as the directory separator character (for example, C:/mypath/myfile); otherwise, you must use a double backslash (for example, C:\\mypath\\myfile).

If saving(*filename*) is not specified, a filename will be constructed based on the graph name.

If none of .svg, .png, or .pdf is specified, the saving(*filename*) is checked first; if the name specified in saving(*filename*) has the extension of .svg, .png, or .pdf, then the graph will be exported in the format corresponding to the extension. For example, the dynamic tag

```
<<dd_graph:saving(gr1.png) graphname(gr1)>>
```

produces

```

```

Otherwise, the type `.svg` will be used as in

```
<<dd_graph:saving(gr1.pgg) graphname(gr1)>>
```

which produces

```

```

If `markdown` is specified, a Markdown link will be produced. For example, the dynamic tag

```
<<dd_graph:saving(gr1.svg) graphname(gr1) markdown>>
```

produces

```
![] (gr1.svg)
```

You may use `pathonly` if you want an HTML link with more attributes than `html` or `markdown` can provide or if you want to use the path in a different target file type such as  $\LaTeX$ .

By default, the path is outputted as a percent-encoded URL. For example, the dynamic tag

```
<<dd_graph:saving("gr 1.svg") graphname(gr1) pathonly>>
```

produces

```
gr%201.svg
```

You may use `nourlencode` to disable the encoding process as in

```
"<<dd_graph:saving("gr 1.svg") graphname(gr1) pathonly nourlencode>>"
```

which produces

```
"gr 1.svg"
```

The `<<dd_graph>` tag can be used inside a line of text.

## Include a text file

```
<<dd_include: filename>>
```

The `<<dd_include>` tag replaces the tag with the contents of the specified text file. The text file is included as is. The tag must be at the beginning of a new line. The *filename* itself may contain Stata macros, but not the file contents.

## Disable dynamic text processing

```
«dd_ignore» and «/dd_ignore»
```

The `«dd_ignore»` tag causes `dyntext` and `dyndoc` to ignore the dynamic tag processing, starting from the next line until the line right before a `«/dd_ignore»` tag. Both the beginning and ending tags must be at the beginning of a line. The only tag it does not affect is the `«dd_remove»` tag.

## Process contents based on condition

```
<<dd_if: Stata expression>>
lines of text ...
<<dd_endif>>
```

or

```
<<dd_if: Stata expression>>
lines of text ...
<<dd_else>>
lines of text ...
<<dd_endif>>
```

«dd\_if: *Stata expression*» evaluates the *Stata expression*; if it evaluates to true (anything but 0 or "0"), the lines before the next «dd\_endif» are processed. If there is a «dd\_else», the lines before «dd\_else» are processed, and the lines between «dd\_else» and «dd\_endif» are skipped.

If the Stata expression evaluates to false (0 or "0"), the lines before the next «dd\_endif» are skipped. If there is a «dd\_else», the lines before «dd\_else» are skipped, and the lines between «dd\_else» and «dd\_endif» are processed.

## Skip contents based on condition

```
<<dd_skip_if: Stata expression>>
lines of text ...
<<dd_skip_end>>
```

or

```
<<dd_skip_if: Stata expression>>
lines of text ...
<<dd_skip_else>>
lines of text ...
<<dd_skip_end>>
```

«dd\_skip\_if: *Stata expression*» evaluates the *Stata expression*; if it evaluates to true (anything but 0), the lines before the next «dd\_skip\_end» are skipped. If there is a «dd\_skip\_else», the lines before «dd\_skip\_else» are skipped, and the lines between «dd\_skip\_else» and «dd\_skip\_end» are processed as usual.

If the Stata expression evaluates to false (0), the lines before the next «dd\_skip\_end» are not skipped. If there is a «dd\_skip\_else», the lines before «dd\_skip\_else» are not skipped, and the lines between «dd\_skip\_else» and «dd\_skip\_end» are skipped.

## Remove contents

```
... <<dd_remove>>text to remove ...
lines of text to remove ...
text to remove ... </dd_remove>> ...
```

The «dd\_remove» and «/dd\_remove» tags remove all the contents between the two tags from the resulting target file. The tags can be used inside a line of text.

«dd\_remove» is a postprocessing tag, which means it is processed after all other tags.

## Also see

[RPT] **dyndoc** — Convert dynamic Markdown document to HTML or Word (.docx) document

[RPT] **dyntext** — Process Stata dynamic tags in text file

[RPT] **markdown** — Convert Markdown document to HTML file or Word (.docx) document

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