# **13** Using the Do-file Editor—automating Stata

# The Do-file Editor in Stata(GUI)

Stata comes with an integrated text editor called the Do-file Editor, which can be used for many tasks. It gets its name from the term *do-file*, which is a file containing a list of commands for Stata to run (called a batch file or a script in other settings). See [U] **16 Do-files** for more information. Although the Do-file Editor has advanced features that can help in writing such files, it can also be used to build up a series of commands that can then be submitted to Stata all at once. This feature can be handy when writing a loop to process multiple variables in a similar fashion or when doing complex, repetitive tasks interactively.

To get the most from this chapter, you should work through it at your computer. Start by opening the Do-file Editor, either by clicking on the **Do-file Editor** button, if, or by typing doedit in the Command window and pressing *Enter*.

# The Do-file Editor toolbar

The Do-file Editor has 15 buttons. Many of the buttons share a similar purpose with their look-alikes in the main Stata toolbar.



If you ever forget what a button does, hover the mouse pointer over a button, and a tooltip will appear.

- New: Open a new do-file in a new tab in the Do-file Editor.
- **Open...**: Open a do-file from disk in a new tab in the Do-file Editor.
- **Save**: Save the current file to disk.
- **Print...**: Print the contents of the Do-file Editor.
- **Q** Find...: Open the *Find* dialog for finding text.
- **Cut**: Cut the selected text and put it in the Clipboard.
- **Copy**: Copy the selected text to the Clipboard.
- **Paste**: Paste the text from the Clipboard into the current document.
- **Undo**: Undo the last change.
- **Redo**: Undo the last undo.

**Toggle bookmark**: Turn on or off the bookmark on the current line. Bookmarks are a way to move quickly within the do-file. They are quite useful in long do-files or when debugging.

**Previous bookmark**: Go to the previous bookmark (if any).

**Next bookmark**: Go to the next bookmark (if any).

**Show file in Viewer**: Show the contents of the do-file in a Viewer window. This is worthwhile when editing files that contain SMCL tags, such as log files or help files.

**Execute (do)**: Run the commands in the do-file, showing all commands and their output. If text is highlighted, the button will run only the selected lines, showing all output. We will refer to this as the **Do** button.

#### Using the Do-file Editor

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Suppose that we would like to analyze fuel usage for 1978 automobiles in a manner similar to what we did in [GSU] **1 Introducing Stata—sample session**. We know that we will be issuing many commands to Stata during our analysis and that we want to be able to reproduce our work later without having to type each command again.

We can do this easily in Stata: simply save a text file containing the commands. When that is done, we can tell Stata to run the file and execute each command in sequence. Such a file is known as a Stata do-file; see [U] 16 Do-files.

To analyze fuel usage of 1978 automobiles, we would like to create a new variable containing gallons per mile. We would like to see how that variable changes in relation to vehicle weight for both domestic and imported cars. Performing a regression with our new variable would be a good first step.

To get started, click on the **Do-file Editor** button to open the Do-file Editor. After the Do-file Editor opens, type the commands below into the Do-file Editor. Purposely misspell the name of the foreign variable on the fifth line. (We are intentionally making some common mistakes and then pointing you to the solutions. This will save you time later.)

```
* an example do-file
sysuse auto
generate gp100m = 100/mpg
label var gp100m "Gallons per 100 miles"
regress gp100m weight foreing
```

Here is what your Do-file Editor should look like now:

Do-file Editor: Untitled1.do *			× c
File Edit View Language Project Tools			
$\square \square $			
<pre>1 * an example do-file 2 sysuse auto 3 generate gp100m = 100/mpg 4 label var gp100m "Gallons per 100 miles" 5 regress gp100m weight foreing</pre>			
Line: 5, Col: 35	11	٧S	

You will notice that the color of the text changes as you type. The different colors are examples of the Do-file Editor's syntax highlighting. The colors and text properties of the syntax elements can be changed by right-clicking in the Do-file Editor, selecting **Preferences...**, and clicking on the **Colors** tab in the resulting window. You can also define your own list of keywords for syntax highlighting.

Syntax highlighting extends beyond highlighting Stata commands. You can switch the syntax highlighting from Stata by going to the **Language** menu and choosing the language you would like. The **Language** menu includes a selection for Markdown because Stata can process Markdown to create dynamic documents. See [RPT] **dyndoc** for more information. This menu also contains selections for Python and Java because Stata has both Python integration and Java integration. See [P] **PyStata integration** and [P] **Java integration** for more information. Stata will default to the proper language based on the extension of the file you are editing, but if the file has not been saved yet, you will need to tell it what language to choose.

Also note that if you pause briefly as you type, the Do-file Editor will allow autocompletion of command names and words that are already in the do-file and autocompletion of variable names, macros, and stored results. Once the suggestions appear, more typing will narrow down the possibilities. You can navigate the suggestions using the up arrow and down arrow keys or keep typing to narrow them to a single word. Once you have the word you like, pressing *Enter* will place the word in your do-file. There are also preferences that allow you to dictate what you want the Do-file Editor to autocomplete and where it should be allowed to autocomplete.

Stata can highlight all occurrences of the current word under the cursor and separately highlight all occurrences of the current selection. The highlighting of word matches is case sensitive, while the highlighting of selection matches is case insensitive. Preference settings can also prevent words in comments or strings from being highlighted, as well as prevent the highlighting of functions, keywords, or macros. You can also disable the highlighting of matching words or selections entirely. To view these settings, simply right-click in the Do-file Editor, select **Preferences...**, and click on the **Highlighting** tab.

In the Do-file Editor, you can choose to display whitespace characters as dots for spaces and arrows for tabs by selecting **View > Show whitespace**. If you find it too visually distracting to always display whitespace characters, right-click in Do-file Editor and select **Preferences...** Under the **General** tab, the **Always show whitespace in a selection** option allows you to view them only when you select text.

Click on the **Do** button, **D**, to execute the commands. Stata executes the commands in sequence, and the results appear in the Results window:

```
. do /tmp/SD00001.000000
. * an example do-file
. sysuse auto
(1978 automobile data)
. generate gp100m = 100/mpg
. label var gp100m "Gallons per 100 miles"
. regress gp100m weight foreing
variable foreing not found
r(111);
.
end of do-file
```

The do "/tmp/..." command is how Stata executes the commands in the Do-file Editor. Stata saves the commands from a do-file with unsaved changes to a temporary file and issues the do command to execute them. Everything worked as planned until Stata saw the misspelled variable. The first three commands were executed, but an error was produced on the fourth. Stata does not know of a variable named foreing. We need to go back to the Do-file Editor and change the misspelled variable name to foreign in the last line:

Do-file Editor: Untitled1.do *	-	×
File Edit View Language Project Tools		
$\square \square \blacksquare \blacksquare \square \land \land \land \blacksquare \blacksquare \blacksquare \land \land \land \land \land \land \land \land \land $		
1 * an example do-file 2 sysuse auto 3 generate gp100m = 100/mpg 4 label var gp100m "Gallons per 100 miles" 5 regress gp100m weight foreign		
Line: 5, Col: 32	INS	

Click on the **Do** button again. Alas, Stata now fails on the first line—it will not overwrite the dataset in memory that we changed.

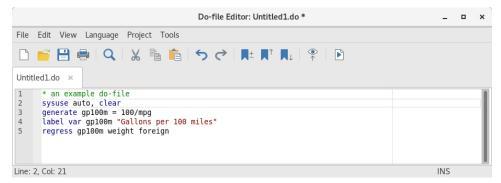
```
. do /tmp/SD00001.000000
. * an example do-file
. sysuse auto
no; dataset in memory has changed since last saved
r(4);
.
end of do-file
```

We now have a choice for what we should do:

- We can put a clear command in our do-file as the very first command. This automatically clears out Stata's memory before the do-file tries to load auto.dta. This is convenient but dangerous because it defeats Stata's protection against throwing away changes without warning.
- We can type a clear command in the Command window to manually clear the dataset and then process the do-file again. This process can be aggravating when building a complicated do-file.

Here is some advice: Automatically clear Stata's memory while debugging the do-file. Once the do-file is in its final form, decide the context in which it will be used. If it will be used in a highly automated environment (such as when certifying), the do-file should still automatically clear Stata's memory. If it will be used rarely, do not clear Stata's memory. This decision will save much heartache.

We will add a clear option to the sysuse command to automatically clear the dataset in Stata's memory before the do-file runs:



The do-file now runs well, as clicking on the **Do** button shows:

```
do /tmp/SD00001.000000
. * an example do-file
. sysuse auto, clear
(1978 automobile data)
. generate gp100m = 100/mpg
. label var gp100m "Gallons per 100 miles"
. regress gp100m weight foreign
                      SS
                                         MS
                                                         Number of obs =
      Source
                               df
                                                                               74
                                                         F( 2,
                                                                    71) =
                                                                           113.97
       Model
                91.1761694
                                2
                                   45.5880847
                                                         Prob > F
                                                                        =
                                                                           0.0000
                                   .400001287
    Residual
                28.4000913
                                                         R-squared
                                                                           0.7625
                               71
                                                                        =
                                                          Adj R-squared =
                                                                           0.7558
                119.576261
                                   1.63803097
       Total
                               73
                                                         Root MSE
                                                                           .63246
       p100m
               Coefficient Std. err.
                                             t
                                                  P>|t|
                                                             [95% conf. interval]
      weight
                  .0016254
                             .0001183
                                          13.74
                                                  0.000
                                                             .0013896
                                                                          .0018612
     foreign
                  .6220535
                             .1997381
                                          3.11
                                                  0.003
                                                             .2237871
                                                                          1.02032
                             .4019932
                -.0734839
                                          -0.18
                                                  0.855
                                                            -.8750354
                                                                         .7280677
       _cons
end of do-file
```

You might want to select **File > Save as...** to save this do-file from the Do-file Editor. Later, you could select **File > Open** to open it and then add more commands as you move forward with your analysis. By saving the commands of your analysis in a do-file as you go, you do not have to worry about retyping them with each new Stata session. Think hard about removing the clear option from the first command.

After you have saved your do-file, you can execute the commands it contains by typing do *filename*, where the *filename* is the name of your do-file.

#### The File menu

The File menu of the Do-file Editor includes standard features found in most text editors. You may choose any of these menu items: create a New > Do-file, Open an existing file, Save the current file, save the current file under a new name with Save as..., or Print... the current file. There are also buttons on the Do-file Editor's toolbar that correspond to these features. After you select New > Do-file, the Do-file Editor will create an empty document within a new tab in the current Do-file Editor window. If you would like to create a new Do-file Editor window, select New > Window.

You can create new documents in the Do-file Editor from Stata templates and from user-defined templates using the **New > Document from template** menu. Selecting an item from the templates menu will open an editor and set the contents of the editor to the contents of the template. You can define your own templates by first creating the document\_templates directory in your PERSONAL directory (see [P] sysdir) and then by saving template files into that directory. A template file must be a plain text file and can be do-files, ado-files, Python files, or any other text files you like. Stata will scan the files in that directory and add each filename that contains a file extension to the templates menu.

Finally, you can create a **New > Project...** to keep track of collections of files used in a project. These can be do-files, data files, graph files, or any other files you like. For more information on the Project Manager, see [P] **Project Manager**.

# The Edit menu

The Edit menu of the Do-file Editor includes the standard Undo, Redo, Cut, Copy, Paste, Delete, and Find capabilities. There are also buttons on the Do-file Editor's toolbar for easy access to these capabilities. There are several other Edit menu features that you might find useful:

- You can select **Insert file...** to insert the contents of another file at the current cursor position in the Do-file Editor.
- You can select the current line with Select line.
- You can delete the current line with **Delete line**.
- Find > Go to line... will allow you to jump to a specific line number. The line numbers are displayed at the left and the lower-left of the Do-file Editor window.
- Advanced leads to a submenu with some programmer's friends:
  - Shift right indents the selection by one tab.
  - Shift left unindents the selection by one tab.
  - Shift line up moves the current line up one line.
  - Shift line down moves the current line down one line.
  - Re-indent indents the selection according to its nesting within blocks and programs.
  - Fold selection turns the selected code into a foldable code block by indenting it and surrounding it with curly braces.
  - Toggle comment toggles //-style comments at the start of the selected lines.

- Add block comment puts a /\* before and a \*/ after the selected region, commenting it out.
- Remove block comment undoes the above.
- Make selection uppercase converts the selection to all capital letters.
- Make selection lowercase converts the selection to all lowercase letters.
- Complete word attempts to complete the current word based on words that are already in the do-file. If there are multiple possibilities, all will be shown. You can either pick the completion you would like or keep typing to narrow the choices.
- Convert to UTF-8... converts the current file to UTF-8 encoding.
- Convert line endings to macOS/Unix format (\n) converts the line endings for the current file to macOS/Unix format.
- Convert line endings to Windows format (\r\n) converts the line endings for the current file to Windows format.
- Convert tabs to spaces replaces any tab characters with spaces, leaving the spacing as it currently appears.
- **Convert leading spaces to tabs** converts any spaces at the start of lines to tab characters. The number of spaces per tab is determined by a preference setting.
- Convert all spaces to tabs converts spaces to tab characters wherever possible. The number
  of spaces per tab is determined by a preference setting.
- Convert Unicode spaces and curly quotes to ASCII converts spaces and curly quotes in Unicode to ASCII encoding.

The Do-file Editor will highlight the brackets enclosing the current cursor position as you move through the document. Matching and balancing of parentheses (), braces {}, and brackets [] are also available from the Edit menu. When you select Edit > Find > Match bracket, the Do-file Editor looks at the character immediately to the left and right of the cursor. If either is one of the characters that the editor can match, the editor will find the matching character and place the cursor immediately in front of it. If there is no match, the cursor will not move.

When you select **Edit > Find > Balance brackets**, the Do-file Editor looks to the left and right of the current cursor position or selection and creates a selection that includes the narrowest level of matching characters. If you select **Balance brackets** again, the editor will expand the selection to include the next level of matching characters. If there is no match, the cursor will not move. Balancing brackets is useful for working with complicated expressions or blocks of code defined by loops or if commands. See [P] **foreach**, [P] **forvalues**, [P] **while**, and [P] **if** for more information.

**Balance brackets** is easier to explain with an example. Type (now (is the) time) in the Do-file Editor. Place the cursor between the words is and the. Select Edit > Find > Balance brackets. The Do-file Editor will select (is the). If you select Balance brackets again, the Do-file Editor will select (now (is the) time).

Text in Stata strings can include Unicode characters and is encoded as UTF-8 (see [U] 12.4.2 Handling Unicode strings). However, you may have do-files, ado-files, or other text files that you used with Stata 13 or earlier, and those files contain characters other than plain ASCII such as accented characters, Chinese, Japanese, or Korean (CJK) characters, Cyrillic characters, and the like. If you open a file that is not encoded in UTF-8, Stata prompts you to specify the encoding for the file so that it can convert the file to UTF-8. If you cancel the conversion or choose the wrong encoding, you can try the conversion again later using Convert to UTF-8. The conversion to UTF-8 can be undone by using Edit > Undo and is not permanent until you save the do-file. For Stata datasets with characters not encoded in UTF-8 or for bulk conversion of multiple Stata files, you should use the unicode translate command.

Editing tip: You can click on the left margin near a line number to select the entire line and the endof-line characters. Doing so makes it easy to delete lines or cut lines and paste them elsewhere. You can click and drag within the line-number column to select a range of complete lines.

# The View menu

The View menu of the Do-File Editor allows you to zoom in and out or display special characters such as tabs and line endings.

Selecting View > Code folding > Toggle will either fold or unfold the foldable code block where the cursor is. Selecting View > Code folding > Fold all will fold all foldable code blocks, and selecting View > Code folding > Unfold all will unfold all foldable blocks.

You can navigate between permanent bookmarks, programs, and Java and Python code blocks in the Navigator by selecting **View > Show Navigator**.

# The Tools menu

You have already learned about the **Do** button. Selecting **Tools > Execute (do)** is equivalent to clicking on the **Execute (do)** button.

Selecting **Tools > Execute (do) nostop** allows the do-file to continue executing even if an error occurs. Normally, Stata stops executing the do-file when it detects an error.

Selecting **Tools > Execute (do) from top** will send all the commands from the first line to the current line to the Command window. This method is a quick way to run a part of a do-file.

Selecting **Tools > Execute (do) to bottom** will send all the commands from the current line through the end of the contents of the Do-file Editor to the Command window. This method is a quick way to run a part of a do-file.

Selecting **Tools > Execute (do) line** will send all the commands from the current line to the Command window. The cursor will then automatically advance to the next executable line, bypassing empty lines and comments. This method is an easy way to run a do-file line by line.

Selecting Tools > Execute quietly (run) is equivalent to Tools > Execute (do) but the commands will be executed quietly; that is, no output will be displayed in the Command window.

Selecting **Tools > Execute (include)** is similar to clicking on the **Execute (do)** button with one major difference: local macros defined in the current session can be expanded in the commands being executed.

**Do** is equivalent to Stata's do command, whereas **Execute (include)** is equivalent to Stata's include command. See [U] **16 Do-files** for a complete discussion.

You can also preview files in the Viewer by selecting **Tools** > **Show file in Viewer** or by clicking on the **Show file in Viewer** button, P. This feature is useful when working with files that use Stata's SMCL tags, such as when writing help files or editing log files.

# Saving interactive commands from Stata as a do-file

While working interactively with Stata, you might decide that you would like to rerun the last several commands that you typed interactively. From the History window, you can send highlighted commands or even the entire contents to the Do-file Editor. You can also save commands as a do-file and open that file in the Do-file Editor. You can copy a command from a dialog (rather than submit it) and paste it into the Do-file Editor. See [GSU] 6 Using the Data Editor for details. Also see [R] log for information on the cmdlog command, which allows you to log all commands that you type in Stata to a do-file.

#### Navigating your do-file

When you work with long files, bookmarks allow you to easily navigate through your do-file. By placing a bookmark before important sections in your do-file, you can return to those sections more easily later. The Do-file Editor supports two different types of bookmarks: permanent and temporary. Permanent bookmarks are saved with a do-file and reappear when the do-file is opened in the Do-file Editor. Temporary bookmarks are lost when a do-file is closed. Bookmarks are displayed as icons in the bookmark margin next to the line number in the Do-file Editor. Permanent bookmarks are indicated with a vertical bookmark icon, while temporary bookmarks are indicated with a horizontal bookmark icon.

To add or remove a permanent bookmark, use **Edit > Toggle bookmark**, or click in the bookmark margin next to the line number. You can also add a permanent bookmark by manually typing a line beginning with a special comment, //#. All other text on the rest of the line is treated as the title of the bookmark. You cannot have ado-code on the same line as the bookmark comment, or the bookmark comment will be ignored. You can also add a bookmark with the special comment **\*\*#**. However, the bookmark comment //# may be preferable to use because it's also valid for both Mata and Java. Permanent bookmarks cannot be added within multiline comments or multiline commands, nor can they be added using the **Toggle bookmark** menu item when there's a selection.

To add or remove a temporary bookmark, use **Edit > Toggle temporary bookmark**, or click in the bookmark margin while pressing the *Alt* key. Temporary bookmarks can also be removed by simply deleting the line containing the bookmark. Temporary bookmarks can be added to any line that doesn't already contain a permanent bookmark.

You can move between bookmarks using the **Next bookmark** and **Previous bookmark** menu items in the **Edit** menu. You can also move between permanent bookmarks in the Navigator by selecting **View** > **Show Navigator**.

Do-file Editor: Untitled1.do	)* X
File Edit View Language Project Tools	
🗅 📑 💾 🖶 I 🔍 I 🐰 🖺 🛍 I 🗲 🔿 I 📭	
Untitled1.do ×	Navigator
	□ Bookmark #1
1 📕 **# Bookmark #1	D Bookmark #2
2 sysuse auto, clear	
3 generate gp100m = 100/mpg	
4 label var gp100m "Gallons per 100 miles"	🗇 program define trial2
6 **# Bookmark #2	
7 webuse lbw, clear	
8 logistic low lwt age ui	
9	
10 program define trial1	
11	
12	
13 end	
15 program define trial2	
17	
18 end	
19	
Line: 19, Col: 1	INS

The Navigator of the Do-file Editor allows you to move between permanent bookmarks, as well as programs and Java and Python code blocks that you have defined in your do-file. When you double-click on a program or a permanent bookmark from the Navigator, you will jump directly to the position of that program or bookmark in your do-file.

You can also right-click on a permanent bookmark from the Navigator and choose to indent or delete the bookmark. You can hide the Navigator by toggling off **View > Show Navigator**.

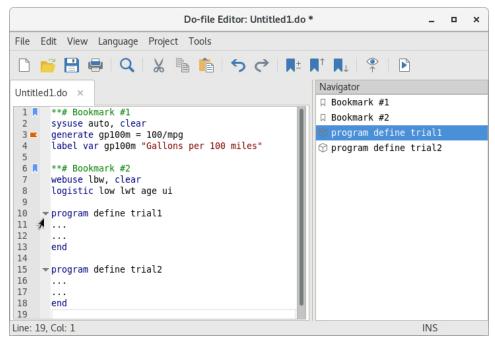
	Do-file Editor: Untitled1.do	*	_ 0	×
File E	dit View Language Project Tools			
	🍯 💾 🖶 🔍 🖌 🐁 💼 🕇 🕤 🔿 🗮 🃭 I			
Untitle	d1.do ×	Navigator		
onnuc		🛛 Bookmark #1		
1	**# Bookmark #1	🛛 Bookmark #2		
2	sysuse auto, clear generate gp100m = 100/mpg	⊕ program define	Go to line	
4	label var gp100m "Gallons per 100 miles"	♥ program define	Indent	
5				
6 📕	**# Bookmark #2		Delete	
7	webuse lbw, clear			
8 9	logistic low lwt age ui			
10	program define trial1			
11				
12				
13	end			
14	arearan define trial2			
15 16	program define trial2			
17				
18	end			
19				
Line: 19	), Col: 1		INS	

You can increase the level of indentation for a permanent bookmark's label in the Navigator by adding # to the bookmark comment. For example, bookmark comment //## Bookmark 2 will be indented one level more than bookmark comment //# Bookmark 1.

To delete all permanent and temporary bookmarks, use **Edit > Delete all bookmarks...** This will remove all permanent bookmark lines, as well as remove all permanent and temporary bookmark icons from the bookmark margin.

# Code folding

Code folding lets you hide parts of the document, allowing you to focus on the sections that matter most. You can collapse and expand foldable code blocks, such as programs, Java and Python code blocks, if statements, and loops. To do this, simply hover your cursor in the code-folding ribbon to the right of the line numbers, and click on the arrow.



The code-folding markers are hidden for expanded code blocks unless you hover over the code-folding ribbon. If you prefer to always display the marker, right-click in the Do-file Editor, select **Preferences...**, and check **Always show marker for expanded code fold** in the **General** tab.

Selecting View > Code folding > Fold all allows you to collapse all foldable code blocks in your do-file at once. You can then unfold them one by one to focus on the important sections, or select View > Code folding > Unfold all to expand everything. Additionally, you can select specific lines of code and convert them into a foldable block by selecting Edit > Advanced > Fold selection. This helps clean up your code and improves its readability. Furthermore, a preference setting in the Do-file Editor automatically folds all foldable blocks of code when the do-file is opened.

# **Projects**

For advanced users managing many files as part of a project, Stata has a Project Manager that uses the Do-file Editor. For more information on the Project Manager, see [P] **Project Manager**.

#### Auto backup

The Do-file Editor now creates a backup file whenever it opens a document or creates a new one. When an existing document is opened, Stata creates a backup file of a document that is saved to disk in the same directory using the existing document's filename prefixed with  $\sim$  and with the extension .stswp. When you edit a new and unsaved document, it saves the backup file to the temp directory. When a document is closed, the backup file is deleted. However, if Stata does not exit cleanly because of a power outage or a computer crash, the backup file is left behind.

By default, Stata periodically backs up the document every 60 seconds if an edit has been made or after an addition or a deletion of 200 characters or more. The time interval can be changed in the Do-file Editor's advanced settings, and the backup feature can also be turned off.

When you attempt to open a document in the Do-file Editor, it first checks for the existence of a backup file. If a backup file is found, the Do-file Editor prompts you that a backup file exists and asks if you want to recover the backup file, open the original document, or cancel. We will discuss the options in reverse order. Choosing to cancel will cancel opening the document and leave the backup file on disk. If you choose to open the original document, the original document is opened in the Do-file Editor, and the backup file is deleted from disk. If you choose to recover the backup file, the backup file is opened as a new and unsaved document in the Do-file Editor with its default filename set to the original filename and the string **Recovered** appended to the filename. The backup file is deleted from disk. You can keep the recovered document by saving it to disk either as a new file or by overwriting the original document, or you can disregard the changes by closing the document without saving it.

# Adding user-defined keywords for syntax highlighting

You can create a text file containing keywords that Stata will use for syntax highlighting. The text file must be named **stata-userkeywords.txt** and contain a list of keywords that can be separated by any combination of spaces or tabs and can be placed on separate lines. Keywords must follow Stata's rules for valid command names. Comments are not supported. Any keywords that are invalid command names are ignored. There are no limits on the number of keywords you can define. However, you must be mindful of the fact that Stata has to search across all keywords when syntax-highlighting a document, so a very large dictionary of keywords can affect performance in the Do-file Editor. Stata maintains a dictionary of unique keywords, so repeated instances of a keyword are ignored.

Stata searches for both a global keywords file and a local keywords file; if both files exist, then their dictionaries of keywords are merged. The global keywords file must be saved in the Stata directory. This allows the global keywords file to be shared with multiple users without requiring each user to have a copy. You can also create your own local keywords file, which must be saved to your home directory.

Stata reads the keywords files when it launches. Changes to the keywords files while Stata is running require Stata to be restarted to take effect.

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