Copying and pasting in Stata(GUI)

One of the easiest ways to get data into Stata is often overlooked: you can copy data from most applications that understand the concept of a table and then paste the data into the Data Editor. This approach works for all spreadsheet applications, many database applications, some word-processing applications, and even some webpages. Just copy the full range of data, paste it into the Data Editor, and everything will probably work well. You can even copy a text file that has the pieces of data separated by commas and then paste it into the Data Editor.

Suppose that your friend has a small dataset about some very old cars.

```
WW Rabbit,4697,25,1930,3.78
Olds 98,8814,21,4060,2.41
Chev. Monza,3667,,2750,2.73
,4099,22,2930,3.58
Datsun 510,5079,24,2280,3.54
Buick Regal,5189,20,3280,2.93
Datsun 810,8129,,2750,3.55
```

You would like to put these data into Stata. Doing so is easier than you think:

- 1. Clear out your current dataset by typing clear.
- 2. Copy the above data.
- 3. Open the Data Editor in edit mode.
- 4. Select Edit > Paste special....
- 5. Stata sees that the column delimiters are commas and shows how the data would look.
- 6. Click on the **OK** button.

You can see that Stata has imported the data nicely.

Later in this chapter, we would like to bring these data into Stata without copying and pasting, so we would like to save them as a text file. Go back to the main Stata window, and click on the **Do-file Editor**

button, \mathbf{i} , to open a new Do-file Editor window. Paste the data in the Do-file Editor, then click on the **Save** button. Navigate to your working directory, and save the file as a few cars.csv. If you do not know what your working directory is, look in the status bar at the bottom of the main Stata window.

Be careful if you are copying data from a spreadsheet because spreadsheets can contain special formatting that ruins its rectangular form. Be sure that your spreadsheet does not contain blank rows, blank columns, repeated headers, or merged cells because these can cause trouble. As long as your spreadsheet looks like a table, you will be fine.

Commands for importing data

Copying and pasting is a great way to bring data into Stata, but if you need a clear audit trail for your data, you will need another way to bring data into Stata. The rest of this chapter will explain how to do this. You will also learn methods that lend themselves better to repetitive tasks and methods for importing data from a wide variety of sources.

Stata has various commands for importing data. The three main commands for reading non-Stata datasets in text are

- import delimited, which is made for reading text files created by spreadsheet or database programs or, more generally, for reading text files with clearly defined column delimiters such as commas, tabs, semicolons, or spaces;
- infile, which is made for reading simple data that are separated by spaces or rigidly formatted data aligned in columns; and
- infix, which is made for data aligned in columns but possibly split across rows.

Stata has other commands that can read other types of files and can even get data from external databases without the need for an interim file:

- The import excel command can read Microsoft Excel files directly, either as an .xls or as an .xlsx file.
- The import sas command can read native SAS files, so data can be transferred from SAS to Stata in this fashion.
- The import spss command can read IBM SPSS Statistics files.
- The import sasxport5 command can read version SAS V5 Transport files. The import sasxport8 command can read version SAS V8 Transport files.
- The odbc command can be used to pull data directly from any data sources for which you have ODBC (Open Database Connectivity) drivers.
- The jdbc command allows you to load data from a database, execute SQL statements on a database, and insert data into a database using JDBC (Java Database Connectivity) drivers.

Stata can import more formats; see [D] import for the full list.

Each command expects the file that it is reading to be in a specific format. This chapter will explain some of those formats and give some examples. For the full description, consult the *Data Management Reference Manual*.

The import delimited command

The import delimited command was developed to read in text files that were created by spreadsheet or database programs because these are common formats for sharing datasets on the internet. All spreadsheet programs and most database applications have an option to save the dataset as a text file with the columns delimited with either tab characters or commas. Some of these programs also save the column titles (variable names, in Stata) in the text file.

To read in such a file, you have only to type import delimited *filename*, where *filename* is the name of the text file. The import delimited command will figure out what the delimiter character is (tab or comma) and what type of data is in each column. As always, if *filename* contains spaces, put double quotes around the filename, and include the path if *filename* is not in the current working directory.

By default, the import delimited command understands files that use the tab or comma as the column delimiter automatically. If you have a file that uses another character as the delimiter, use import delimited's delimiters() option.

Earlier in this chapter, you saved a file called a few cars.csv in Copying and pasting in Stata(GUI) in [GSU] 8 Importing data. These data correspond to the make, price, MPG, weight, and gear ratio of a few very old cars. The variable names are not in the file (so import delimited will assign its own names), and the fields are separated by commas. Clear out any existing data, then use import delimited to read the data in this file. Because there are spaces in the filename, it must be enclosed in double quotes.

```
. clear
. import delimited "a few cars.csv"
(encoding automatically selected: ISO-8859-9)
(5 vars, 7 obs)
```

You can look at the data in the Data Editor, and it will look just like the earlier result from copying and pasting. We will now list the data so that we can see them in the manual. The separator(0) option suppresses the horizontal separator line that is drawn after every fifth observation by default.

```
list, separator(0)
                v 1
                       v2
                             v3
                                     v4
                                             v5
        VW Rabbit
                     4697
                             25
                                   1930
                                          3.78
1.
2.
          01ds 98
                     8814
                                   4060
                                          2.41
                             21
З.
     Chev. Monza
                     3667
                                   2750
                                          2.73
4.
                     4099
                             22
                                   2930
                                          3.58
5.
      Datsun 510
                     5079
                             24
                                   2280
                                          3.54
6.
     Buick Regal
                     5189
                             20
                                   3280
                                          2.93
       Datsun 810
                     8129
                                   2750
                                          3.55
7.
                              .
```

If you want to specify better variable names, you can include the desired names in the command. When you specify variable names, you must also use the using keyword before the filename.

```
. import delimited make price mpg weight gear_ratio using "a few cars.csv"
(encoding automatically selected: ISO-8859-9)
(5 vars, 7 obs)
. list, separator(0)
              make
                      price
                                     weight
                                               gear_r'o
                               mpg
 1.
         VW Rabbit
                       4697
                                25
                                        1930
                                                    3.78
 2.
           01ds 98
                       8814
                                21
                                        4060
                                                    2.41
 3.
       Chev. Monza
                       3667
                                        2750
                                                    2.73
                                 .
 4.
                       4099
                                22
                                        2930
                                                    3.58
 5.
        Datsun 510
                       5079
                                24
                                        2280
                                                    3.54
 6.
       Buick Regal
                       5189
                                20
                                        3280
                                                    2.93
        Datsun 810
 7.
                       8129
                                 .
                                        2750
                                                    3.55
```

As a side note about displaying data, Stata listed gear_ratio as gear_r~o in the output from list. gear_r~o is a unique abbreviation for the variable gear_ratio. Stata displays the abbreviated variable name when variable names are longer than eight characters.

	make	price	mpg	weight	gear_ratio
,	/W Rabbit	4697	25	1930	3.78
	01ds 98	8814	21	4060	2.41
Ch	ev. Monza	3667		2750	2.73
		4099	22	2930	3.58
D	atsun 510	5079	24	2280	3.54
Bu	ick Regal	5189	20	3280	2.93
D	atsun 810	8129		2750	3.55

To prevent Stata from abbreviating gear_ratio, you could specify the abbreviate(10) option:

For more information on the ~ abbreviation and on list, see [GSU] 10 Listing data and basic command syntax.

We will use this dataset again in the next chapter, so we would like to save it. Type save afewcars, and press *Enter* in the Command window to save the dataset.

For this simple example, you could have copied the contents of the file and pasted it into the Data Editor by using **Paste special...** and choosing comma as the delimiter.

For text files that have no nice delimiters or for which observations could be spread out across many lines, Stata has two more commands: infile and infix. See [D] **import** for more information about how to read in such files.

Importing files from other software

Stata has some more specialized methods for reading data that were created by other applications and stored in their proprietary formats.

The import excel command is made for reading files created by Microsoft Excel. See [D] import excel for full details.

The import spss command is made for reading files created by IBM SPSS Statistics. See [D] import spss for full details.

The import sas command is made for reading files created by SAS. See [D] import sas for full details.

The import sasxport5 and import sasxport8 commands can read SAS V5 and SAS V8 Transport files. See [D] import sasxport5 and [D] import sasxport8 for full details.

If you have software that supports ODBC, you can read data by using the odbc command without the need to create interim files. See [D] **odbc** for full details. The FAQ for setting up ODBC is also helpful; read it at https://www.stata.com/support/faqs/data-management/configuring-odbc/.

The jdbc command allows you to connect to, load data from, insert data into, and execute queries on a database using JDBC. See [D] **jdbc** for full details.

Here is a brief summary of the choices:

- If you have a Microsoft Excel .xls or .xlsx file, use import excel.
- If you have an IBM SPSS Statistics .sav file, use import spss.
- If you have a SAS .sas7bdat file created on a Windows machine, use import sas.
- If you have a file exported from a spreadsheet or database application to a tab-delimited or CSV file, use import delimited.
- If you have a fixed-format file, either use infile with a dictionary or use infix.
- If you have a database accessible with ODBC, use odbc.
- If you have a database accessible with JDBC, use jdbc.
- If you have a SAS V5 Transport file, use import sasxport5.
- If you have a SAS V8 Transport file, use import sasxport8.
- If you have economic data from the Federal Reserve Data, use import fred.
- If you have a dBASE file, use import dbase.
- If you have a table, you could try copying it and pasting it into the Data Editor.
- Finally, you can purchase a third-party transfer program that will convert the other software's data file format to Stata's data file format.

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