

**save** — Save Stata dataset

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## Description

`save` stores the dataset currently in memory on disk under the name *filename*. If *filename* is not specified, the name under which the data were last known to Stata (`c(filename)`) is used. If *filename* is specified without an extension, `.dta` is used. If your *filename* contains embedded spaces, remember to enclose it in double quotes.

Stata 15 and Stata 14 have the same dataset format so long as the dataset has 32,767 variables or less. Stata/MP 15 supports more than 32,767 variables and thus has a slightly different dataset format when there are that many variables. If you are using Stata 15 and want to save a file so that it may be read by someone using Stata 14, simply use the `save` command; Stata 14 will be able to read it so long as it does not have more than 32,767 variables. Stata 14 supports at most 32,767 variables.

`saveold` saves the dataset currently in memory on disk under the name *filename* in previous `.dta` formats, namely, those for Stata 13, 12, or 11. If you are using Stata 15 and want to save a file so that it may be read by someone using an older version of Stata, use the `saveold` command.

## Quick start

Save data in memory to `mydata.dta` in the current directory

```
save mydata
```

As above, but overwrite `mydata.dta` if it exists

```
save mydata, replace
```

Also save value labels that have not been applied to variables

```
save mydata, replace orphans
```

Save data in Stata 13 format

```
saveold mydata
```

## Menu

File > Save as...

## Syntax

Save data in memory to file

```
save [filename] [, save_options]
```

Save data in memory to file in Stata 13, 12, or 11 format

```
saveold filename [, saveold_options]
```

<i>save_options</i>	Description
<b>no</b> label	omit value labels from the saved dataset
<b>re</b> place	overwrite existing dataset
<b>all</b>	save <b>e(sample)</b> with the dataset; programmer's option
<b>or</b> phans	save all value labels
<b>em</b> ptyok	save dataset even if zero observations and zero variables

<i>saveold_options</i>	Description
<b>ver</b> sion( <i>#</i> )	specify version $11 \leq \# \leq 14$ ; default is <b>version(13)</b> , meaning Stata 13 format
<b>no</b> label	omit value labels from the saved dataset
<b>re</b> place	overwrite existing dataset
<b>all</b>	save <b>e(sample)</b> with the dataset; programmer's option

## Options for save

**no**label omits value labels from the saved dataset. The associations between variables and value-label names, however, are saved along with the dataset label and the variable labels.

**re**place permits **save** to overwrite an existing dataset.

**all** is for use by programmers. If specified, **e(sample)** will be saved with the dataset. You could run a regression; **save mydata, all; drop \_all; use mydata; and predict yhat if e(sample).**

**or**phans saves all value labels, including those not attached to any variable.

**em**ptyok is a programmer's option. It specifies that the dataset be saved, even if it contains zero observations and zero variables. If **emptyok** is not specified and the dataset is empty, **save** responds with the message "no variables defined".

## Options for saveold

**ver**sion(*#*) specifies which previous **.dta** file format is to be used. *#* may be 14, 13, 12 or 11. The default is **version(13)**, meaning Stata 13 format. To save datasets in the modern, Stata 15 format, use the **save** command, not **saveold**. Stata 15 and Stata 14 share the same format, so you do not have to use **saveold** to save a Stata 14 dataset; simply use **save**.

**no**label omits value labels from the saved dataset. The associations between variables and value-label names, however, are saved along with the dataset label and the variable labels.

**re**place permits **saveold** to overwrite an existing dataset.

`all` is for use by programmers. If specified, `e(sample)` will be saved with the dataset. You could run a regression; `save mydata, all; drop _all; use mydata; and predict yhat if e(sample).`

## Remarks and examples

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

Stata keeps the data on which you are currently working in your computer's memory. You put the data there in the first place; see [U] 21 **Entering and importing data**. Thereafter, you can save the dataset on disk so that you can use it easily in the future. Stata stores your data on disk in a compressed format that only Stata understands. This does not mean, however, that you are locked into using only Stata. Any time you wish, you can export the data to a format other software packages understand; see [D] **export**.

Stata goes to a lot of trouble to keep you from accidentally losing your data. When you attempt to leave Stata by typing `exit`, Stata checks that your data have been safely stored on disk. If not, Stata refuses to let you leave. (You can tell Stata that you want to leave anyway by typing `exit, clear`.) Similarly, when you save your data in a disk file, Stata ensures that the disk file does not already exist. If it does exist, Stata refuses to save it. You can use the `replace` option to tell Stata that it is okay to overwrite an existing file.

### ▶ Example 1

We have entered data into Stata for the first time. We have the following data:

```
. describe
```

```
Contains data
```

```
  obs:          39
  vars:           5
  size:         780
```

variable name	storage type	display format	value label	variable label
<code>acc_rate</code>	float	%9.0g		Accident rate
<code>spdlimit</code>	float	%9.0g		Speed limit
<code>acc_pts</code>	float	%9.0g		Access points per mile
<code>rate</code>	float	%9.0g	<code>rcat</code>	Accident rate per million vehicle miles
<code>spdcat</code>	float	%9.0g	<code>scat</code>	Speed limit category

```
Sorted by:
```

```
Note: Dataset has changed since last saved.
```

We have a dataset containing 39 observations on five variables, and, evidently, we have gone to a lot of trouble to prepare this dataset. We have used the `label data` command to label the data Minnesota Highway Data, the `label variable` command to label all the variables, and the `label define` and `label values` commands to attach value labels to the last two variables. (See [U] 12.6.3 **Value labels** for information about doing this.)

At the end of the `describe`, Stata notes that the “dataset has changed since last saved”. This is Stata's way of gently reminding us that these data need to be saved. Let's save our data:

```
. save hiway
file hiway.dta saved
```

We type `save hiway`, and Stata stores the data in a file named `hiway.dta`. (Stata automatically added the `.dta` suffix.) Now when we `describe` our data, we no longer get the warning that our dataset has not been saved; instead, we are told the name of the file in which the data are saved:

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```
. describe
Contains data from hiway.dta
  obs:          39                Minnesota Highway Data, 1973
  vars:         5                18 Jan 2017 11:42
  size:        780
```

variable name	storage type	display format	value label	variable label
acc_rate	float	%9.0g		Accident rate
spdlimit	float	%9.0g		Speed limit
acc_pts	float	%9.0g		Access points per mile
rate	float	%9.0g	rcat	Accident rate per million vehicle miles
spdcat	float	%9.0g	scat	Speed limit category

Sorted by:

Just to prove to you that the data have really been saved, let's eliminate the copy of the data in memory by typing `drop _all`:

```
. drop _all
. describe
Contains data
  obs:          0
  vars:         0
  size:         0
Sorted by:
```

We now have no data in memory. Because we saved our dataset, we can retrieve it by typing `use hiway`:

```
. use hiway
(Minnesota Highway Data, 1973)
. describe
Contains data from hiway.dta
  obs:          39                Minnesota Highway Data, 1973
  vars:         5                18 Jan 2017 11:42
  size:        780
```

variable name	storage type	display format	value label	variable label
acc_rate	float	%9.0g		Accident rate
spdlimit	float	%9.0g		Speed limit
acc_pts	float	%9.0g		Access points per mile
rate	float	%9.0g	rcat	Accident rate per million vehicle miles
spdcat	float	%9.0g	scat	Speed limit category

Sorted by:

## ▶ Example 2

Continuing with our previous example, we have saved our data in the file `hiway.dta`. We continue to work with our data and discover an error; we made a mistake when we typed one of the values for the `spdlimit` variable:

```
. list in 1/3
```

	acc_rate	spdlimit	acc_pts	rate	spdcat
1.	1.61	50	2.2	Below 4	Above 60
2.	1.81	60	6.8	Below 4	55 to 60
3.	1.84	55	14	Below 4	55 to 60

In the first observation, the `spdlimit` variable is 50, whereas the `spdcat` variable indicates that the speed limit is more than 60 miles per hour. We check our original copy of the data and discover that the `spdlimit` variable ought to be 70. We can fix it with the `replace` command:

```
. replace spdlimit=70 in 1
(1 real change made)
```

If we were to describe our data now, Stata would warn us that our data have changed since they were last saved:

```
. describe
```

```
Contains data from hiway.dta
```

```
obs:          39                      Minnesota Highway Data, 1973
vars:         5                       18 Jan 2017 11:42
size:        780
```

variable name	storage type	display format	value label	variable label
acc_rate	float	%9.0g		Accident rate
spdlimit	float	%9.0g		Speed limit
acc_pts	float	%9.0g		Access points per mile
rate	float	%9.0g	rcat	Accident rate per million vehicle miles
spdcat	float	%9.0g	scat	Speed limit category

```
Sorted by:
```

```
Note: Dataset has changed since last saved.
```

We take our cue and attempt to save the data again:

```
. save hiway
file hiway.dta already exists
r(602);
```

Stata refuses to honor our request, telling us instead that “file `hiway.dta` already exists”. Stata will not let us accidentally overwrite an existing dataset. To `replace` the data, we must do so explicitly by typing `save hiway, replace`. If we want to save the file under the same name as it was last known to Stata, we can omit the filename:

```
. save, replace
file hiway.dta saved
```

Now our data are saved.

## Also see

[D] **compress** — Compress data in memory

[D] **export** — Overview of exporting data from Stata

[D] **import** — Overview of importing data into Stata

[D] **use** — Load Stata dataset

[P] **file formats .dta** — Description of .dta file format

[U] **11.6 Filenaming conventions**