

Why can't I see my variables in some of the SPSS dialog boxes?

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SPSS (Statistical Package for the Social Sciences) is a software program used for statistical analysis. Sometimes, when using certain dialog boxes in SPSS, you may not be able to see the variables that you have previously entered. This is because the dialog boxes may have specific settings or criteria that restrict the visibility of certain variables. This can happen due to the complex nature of statistical analysis and the need to control and manipulate large amounts of data. Therefore, it is important to carefully review the settings and criteria of the dialog boxes to ensure that your variables are properly included in the analysis. If you are still unable to see your variables, it is recommended to seek assistance from a more experienced user or consult the SPSS help resources.

Why can't I see my variables in some of the SPSS dialog boxes? | SPSS FAQ

NOTE: This page was created using SPSS version 19.0.1.

There are a few reasons why you may not be able to see your variables in some of the SPSS dialog boxes. One possible reason is that your variable is a string variable and the dialog box will only accept numeric variables.

Another possibility is that your variable has a different measurement scale than the dialog box will accept. A third possibility is that your variable does not have the appropriate role. We will discuss each of these issues and

how to resolve them.

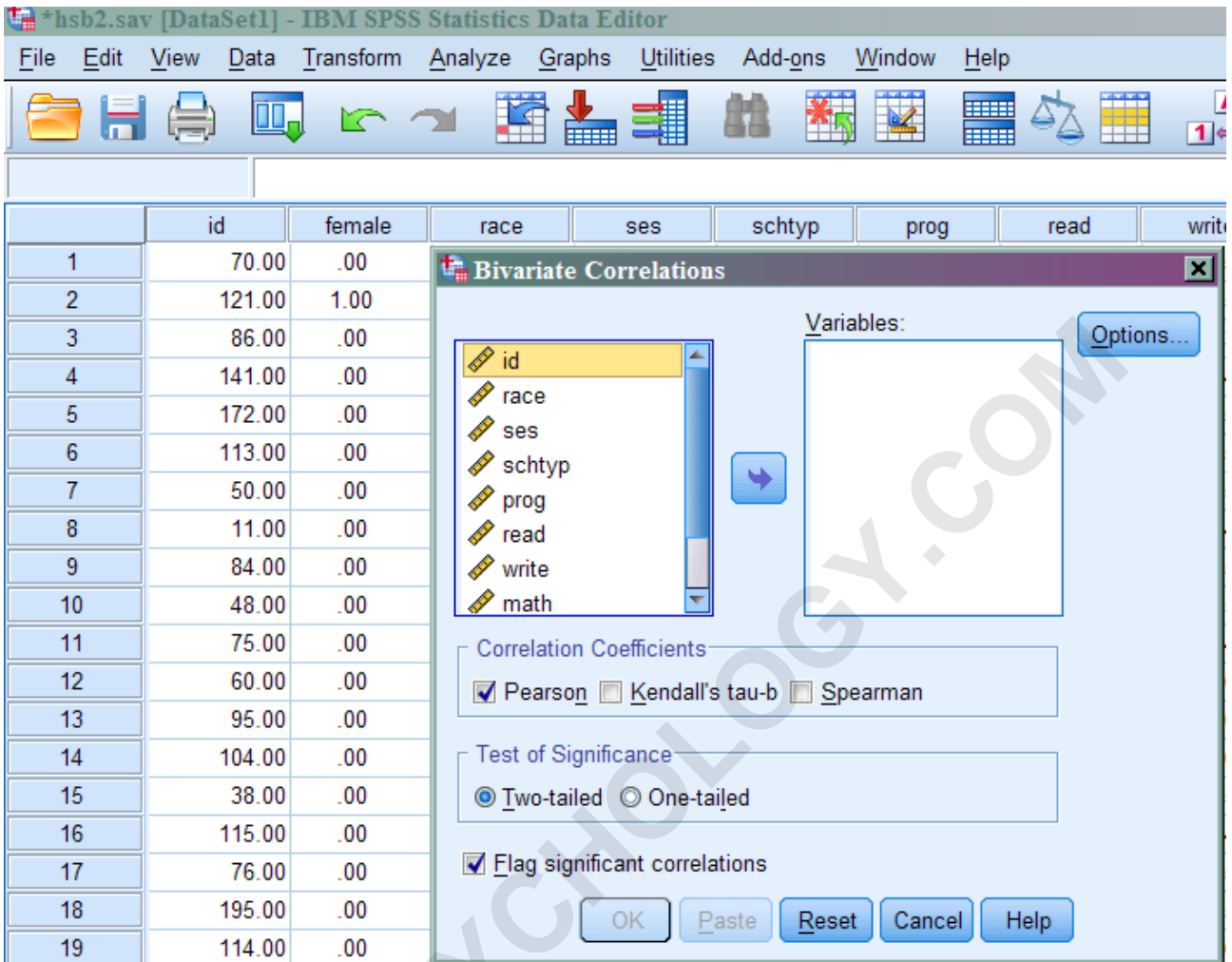
If you are using syntax, you need to know if the variable is numeric or string (and you may need to convert string variables to numeric format), but the measurement level and variable role settings do no matter. These assignments can be modified using syntax (as shown below).

String variables

Some dialog boxes show all of the variables in your data set, regardless of type of variable. For example, you will see both numeric and string variables in the list of variables from which to choose. Other dialog

boxes, including the dialog box for the correlate command, will display only numeric variables.

Notice that although you can see the variable female in the data set, it does not appear in the list of variables that can be used in the correlation.

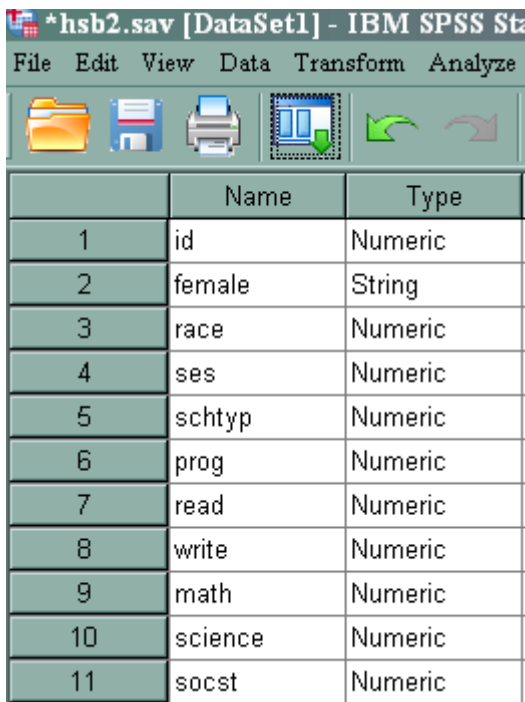


The screenshot shows the IBM SPSS Statistics Data Editor window with a dataset named 'hsb2.sav'. The dataset has 19 rows and 9 columns: id, female, race, ses, schtyp, prog, read, write, and math. The 'id' variable is selected in the 'Bivariate Correlations' dialog box. The dialog box is configured with the following options:

- Correlation Coefficients: Pearson, Kendall's tau-b, Spearman
- Test of Significance: Two-tailed, One-tailed
- Flag significant correlations:

The dialog box also includes buttons for OK, Paste, Reset, Cancel, and Help, and an Options... button.

If we look at the Variable View window, we can see that the variable female is a string variable, even though it has values of "0" and "1".



The screenshot shows the IBM SPSS Statistics interface with a variable list table. The table has three columns: 'Name' and 'Type'. The variables listed are: id (Numeric), female (String), race (Numeric), ses (Numeric), schtyp (Numeric), prog (Numeric), read (Numeric), write (Numeric), math (Numeric), science (Numeric), and socst (Numeric).

	Name	Type
1	id	Numeric
2	female	String
3	race	Numeric
4	ses	Numeric
5	schtyp	Numeric
6	prog	Numeric
7	read	Numeric
8	write	Numeric
9	math	Numeric
10	science	Numeric
11	socst	Numeric

There are several ways to convert string variables to numeric form. For example, you could use the `autorecode` command, the `recode` command, or the `numeric` function with the `compute` command. Below, we will use the `autorecode` command to convert the string variable `female` into the numeric variable `female_num`.

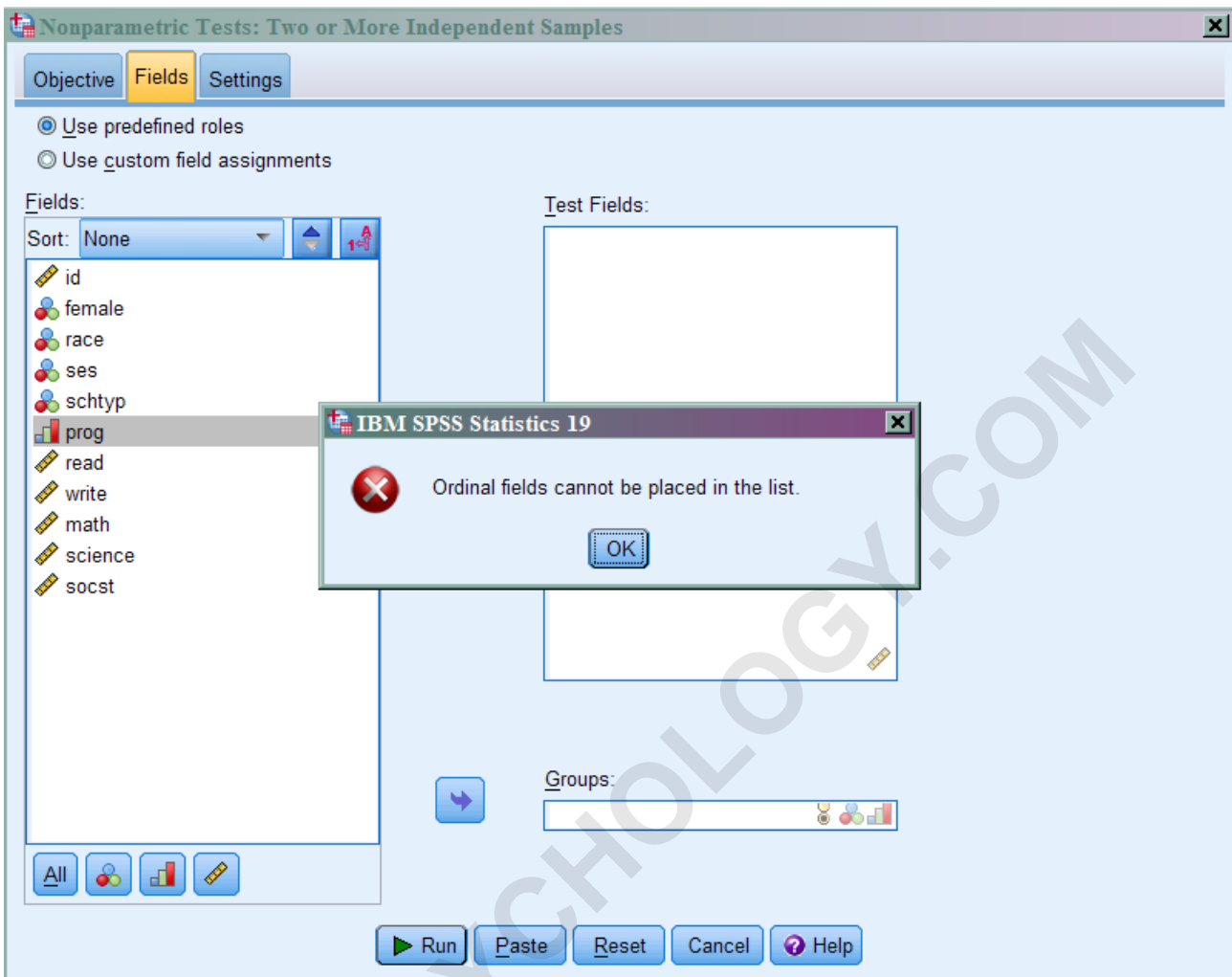
`autorecode female / into female_num.`
`exe.`

Please see our Introduction to SPSS Syntax seminar (section 7) for a more thorough discussion of these commands and examples. Once the variable has been made into a numeric variable, it will appear in the dialog box.

Measurement level

On the right side of the Variable View window, you will see a column titled Measure. There are three possible settings for numeric variables: nominal, ordinal and scale. String variables can be either nominal or ordinal.

The dialog boxes for automatic linear modeling, nptests (non-parametric tests) and genlinmixed use measurement level to determine which variables can be used in the various dialog boxes.



In the dialog box above, the yellow bars at an angle are scales and indicate that variable is a scale variable. The three vertical bars indicate that the variable is an ordinal variable, and the three circles indicate that the variable is a nominal variable.

From the SPSS help file system:

Note: For ordinal string variables, the alphabetic order of string values is assumed to reflect the true order of the categories.

For example, for a string variable with the values of low, medium, high, the order of the categories is interpreted as high,

low, medium, which is not the correct order. In general, it is more reliable to use numeric codes to represent ordinal data.

When reading data into SPSS, the following conditions are used to determine the measurement level.

Copied from the SPSS help file located at http://127.0.0.1:4235/help/index.jsp?topic=/com.ibm.sps.s.statistics.help/overvw_auto_0.htm

Condition	Measurement Level
All values of a variable are missing	Nominal
Format is dollar or custom-currency	Continuous
Format is date or time (excluding Month and Wkday)	Continuous
Variable contains at least one non-integer value	Continuous

Variable contains at least one negative value	Continuous
Variable contains no valid values less than 10,000	Continuous
Variable has N or more valid, unique values*	Continuous
Variable has no valid values less than 10	Continuous
Variable has less than N valid, unique values*	Nominal

*** N is a user-specified cut-off value. The default is 24.**

You can change the measurement level of a variable in the Variable View window. Alternatively, the variable level command can be used to change the measurement level of variables.

variable level id race schtyp (nominal)

/ses (ordinal)

/female prog read write math science socst (scale).

Also, the cutoff value (how many unique values a variable must have to be given a level of scale) can be changed in the Options dialog box (Edit ->

Options -> Data tab).

Variable role

The variable role command was added to SPSS in version 18. This

setting can be seen in the variable View window on the far right. It is

used by the dialogs of some commands to pre-select variables for analysis.

You can modify a variable's role either by changing it in the Variable View

window or via syntax with the "variable role" command.

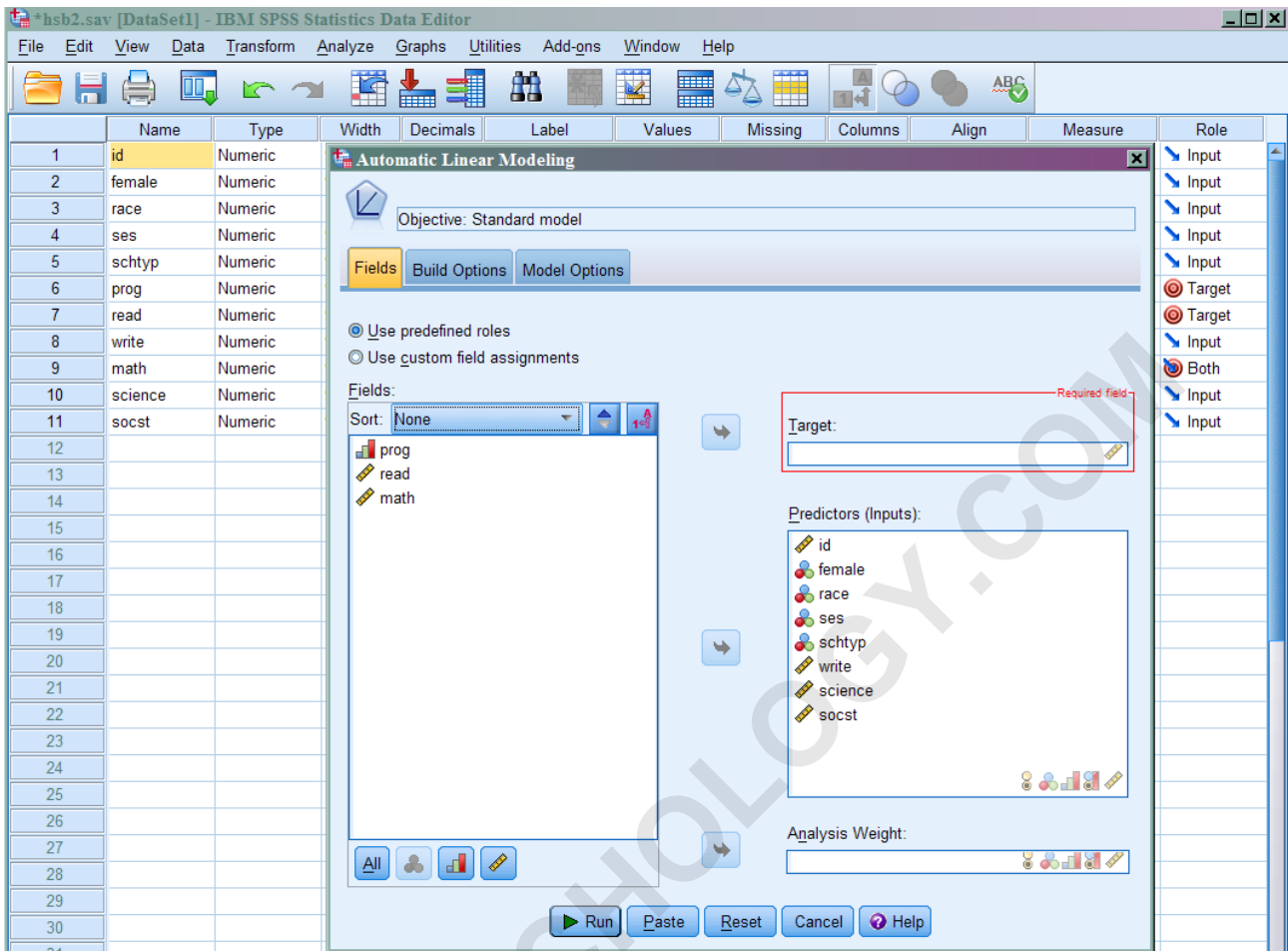
A variable's role

has no effect when running commands via syntax; it only matters when using the

point-and-click interface of some of the newer commands in SPSS.

Some of the commands whose point-and-click interface uses the variable role

are genlinmixed and automatic linear modeling.



Here is a brief summary of roles. This information is taken from the **Command Syntax Reference Guide** entry for variable role. By default, all variables are assigned the input role.

Input	predictor/independent variable
Target	output/outcome/dependent variable
Both	both input and output (both DV and IV)
None	no role assignment
Partition	the variable will be used to partition the data into separate samples for training, testing, and validation

Split	This is used with IBM SPSS Modeler. This is not a variable that will be used in to "split the file" in SPSS Statistics
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The variable role command can be used to change the role of variables.

variable role

/target write read

/input math science ses schtyp

/both socst.

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