

Programming with MATLAB

Saving files

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Save in a mat file

To save a *.mat file, you can simply use the command save

save filename variable

% this will save the *variable* under the

specified *filename*

If your filename contains spaces then you need to use brackets/quotes: save('filename', 'variable')

You can also save all variables of your workspace in a single variable:

save *filename*

% this will save ALL *variables* under the

specified *filename*

Convenient when you want to store all outputs of an ongoing analysis

The file will be saved in your current directory!

Save in a text file

You can also save text files

writetable(variable, filename)

% save the table *variable* under the given *filename*

You can specify options when saving the text file

writetable(variable, 'filename.txt', 'Delimiter', '\t')

% this will separate the entries along a row with a tab than with a space

Do have a look at the *help* function to see the details *help writetable help writematrix help save*

Save in a spreadsheet file

You can save a variable as a spreadsheet file

writetable(variable, 'filename.xls')

Specify details

writetable(variable, 'filename.xls', 'Sheet', 2, ... 'Range', 'B1:N4)

% this will save the *variable* in the named file, but in Sheet 2 and in the area between the cells B1 and N4

Play around to practice with the possibilities!

Save in a spreadsheet file

You can write more (new) data in an existing file writetable(variable, 'filename.xls', 'WriteMode', 'append')

% this will save the *variable* in the named file, and if the file exists, then the data will be appended just below of the existing ones

The end

Check the help function for more tricks

Use a data file that I have sent you (or one you find on the web) and save a submatrix of it under different formats

Try out various ways to make it fail