

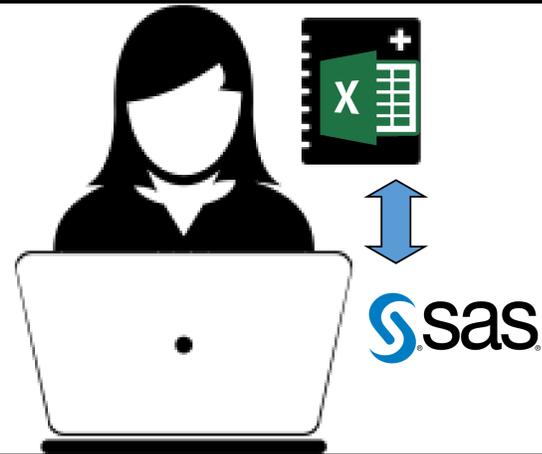
Use Excel in SAS for Free!

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There are multiple situations where clients could store data into an Excel file and it is our task to import that Excel information.

Also, it could happen that clients do not use SAS at all, so it is needed to export data in a more friendly way, such as Excel, for them to review. CSV is not a recommended option, since it is dependent on regional configurations.

But with Base SAS, those things can not be performed, right?



FROM EXCEL TO SAS

This task can be performed by Base SAS following these three steps:

- 1) Create a .VBS file that automatically save each XLS tab into an independents CSV file.
- 2) Through CMD statement .VBS file can be executed.
- 3) When we have each tab in a different CSV file, we can do a normal PROC IMPORT with SAS.

This task can be requested very often, so it is useful to have it all in a single macro call.

All done in one macro **%Import_XLS()**

FROM SAS TO EXCEL

This task can be performed by Base SAS following these four steps:

- 1) Export SAS table into a CSV file with normal procedures, like DATA _NULL_ or PROC EXPORT.
- 2) Create a .VBS macro code that can import CSV files into XLS files.
- 3) Create an empty .XLSM file (Excel macro enabled) and introduce the VBS macro created.
- 4) Call the Excel macro to import the desired CSV file.

All done in one macro **%CSVToXL()**

	A	B	C	D	E	F	G
1	Species	SepalLength	SepalWidth	PetalLength	PetalWidth		
2	Setosa	51	35	14	2		
3	Setosa	49	30	14	2		
4	Setosa	47	32	13	2		
5	Setosa	46	31	15	2		
6	Setosa	50	36	14	2		
7	Setosa	54	39	17	4		
8	Setosa	46	34	14	3		
9	Setosa	50	34	15	2		
10	Setosa	44	29	14	2		
11	Setosa	49	31	15	1		
12	Setosa	54	37	15	2		
13	Setosa	48	34	16	2		
14	Setosa	48	30	14	1		
15	Setosa	43	30	11	1		
16	Setosa	58	40	12	2		
17	Setosa	57	44	15	4		
18	Setosa	54	39	13	4		

CREATE YOUR OWN FEATURES

Excel macro language allows to perform any task done by a normal user in Excel. That means that you can use the same process to automatize a figure creation or a fancy formatting for an output Excel file.

With the macro **%MacroToExcel()** you can save a macro to .XLSX file.

For example, we had created a process to export and formatting multiple SAS datasets, **%MappingToXLS()** obtaining the screenshot on the left.

CONCLUSION

All Microsoft set of programs use Visual basic into the background, so this process can be used inside an Access database to extract data or even in a Word to generate outputs with enough knowledge of Visual basic and SAS.

Note: All macros can be provided by request to both authors. Contact details on the top.