

Content of folder **MATLAB\Example\PLS scenario**

This directory gives examples of performing PLS regression methods in the SAISIR environment.

It shows :

- How to carry out PLS1 (only one y-variable)
- How to carry out PLS2 (several y-variables)

and gives example of typical graphics related to PLS

You must have a MATLAB license and have installed the SAISIR package (see MATLAB\installation directory.)

For starting the script,

- Run MATLAB
- Let MATLAB\Example\PLS scenario be the current folder.
- Type `plsdemo` followed by [carriage return]

You must also look at the script itself using the MATLAB editor, and activate the script step-by-step.

It is useful in parallel to consult the **SAISIR** tutorials in MATLAB\documentation

The script performs PLS1 and PLS2 regression procedures, and shows how to split the data in calibration and validation sets.

For each function, you can consult the help using for example the command 'help basic_pls' to see the help on 'basic_pls'

The application of PLS for discrimination is in the folder
MATLAB\Example\Discrimination scenario

Note: The file CHEM1.CSV and spectra.csv used as example here has been obtained by

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The file contains experimental data from apricot fruit. Look at the PCA scenario folder for more information