Powerful Resources for **Intelligent** Data Analysis

Key Features

PLS_Toolbox 8.5
MATLAB® Computational Environment

Solo 8.5
Stand-Alone Environment

- **Unified Graphical Interface**
  Point-and-click Analysis, Graphical Data Editing, Advanced Visualization Tools

- **Data Exploration and Pattern Recognition**
  Principal Component Analysis (PCA), Parallel Factor Analysis (PARAFAC), PARAFAC2, Multi-Way PCA, Batch Maturity, Tucker Models, Correlation Spectroscopy

- **Linear and Non-Linear Regression**
  Partial Least Squares (PLS) Regression, Principal Component Regression (PCR), N-way PLS, Locally Weighted Regression (LWR), Artificial Neural Networks (ANN), Support Vector Machine (SVM) Regression

- **Classification**
  SIMCA, K-Nearest Neighbors, PLS Discriminant Analysis (PLS-DA), ANOVA Simultaneous Components Analysis (ASCA), SVM Classification, Cluster Analysis with Dendograms…

- **Curve Resolution Methods**
  Multivariate Curve Resolution (MCR), Purity, Component Detection Algorithm (CODA), CompareLCMS…

- **Advanced Customizable Order-Specific Preprocessing**
  Centering, Autoscaling, Normalization, Smoothing, Derivatizing, Pareto and Poisson Scaling, Multiplicative Scatter Correction (MSC), Extended MSC (EMSC), Generalized Least Squares Weighting (GLS), External Parameter Orthogonalization (EPO), + many more….

- **Model Refinement and Aggregation**
  Hierarchical Model Builder (HMB), Model Optimizer, Permutation and Robustness Testing

- **Instrument Standardization and Calibration Transfer**
  Model Centric Calibration Transfer (MCCT) with Direct Standardization, Piece-wise Direct Standardization (PDS), Double-window PDS, Spectral Subspace Transform (SST)….

- **Variable Selection**
  Genetic Algorithms, Interval-PLS, Purity-Based Analysis, Selectivity Ratio, VIP

- **Import Files from a Wide Variety of Sources**
  Excel, text, GRAMS, AIT, Horiba JY, Bruker OPUS and XRPD, Thermo Fisher OMNIC, Metrohm VisionAir, Physical Electronics, Perkin Elmer, ASD, Guided Wave, JCAMP, XML…

- **Peak Fitting, Distribution Fitting, Generation and Analysis Tools**

- **Missing Data Support**

- **Additional Features of PLS_Toolbox**
  Command Line Access to All Functions, Access to Source Code, Additional Tools for MSPC, Regression, etc.

Plus many more of the cutting edge tools you've come to expect from Eigenvector Research!

System Requirements

PLS_Toolbox: MATLAB® R2012a or higher on all platforms supported by MATLAB, including Windows, Mac OS X, Unix and Linux. PLS_Toolbox does not require any other MATLAB toolboxes.

Solo: Mac OS X 10.7 (Lion) or newer, or Linux, or Windows 8, Windows 7, VISTA, XP.
1.6 GB of disk space and a recommended minimum of 1 GB of RAM (more may be necessary for some data) required.

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