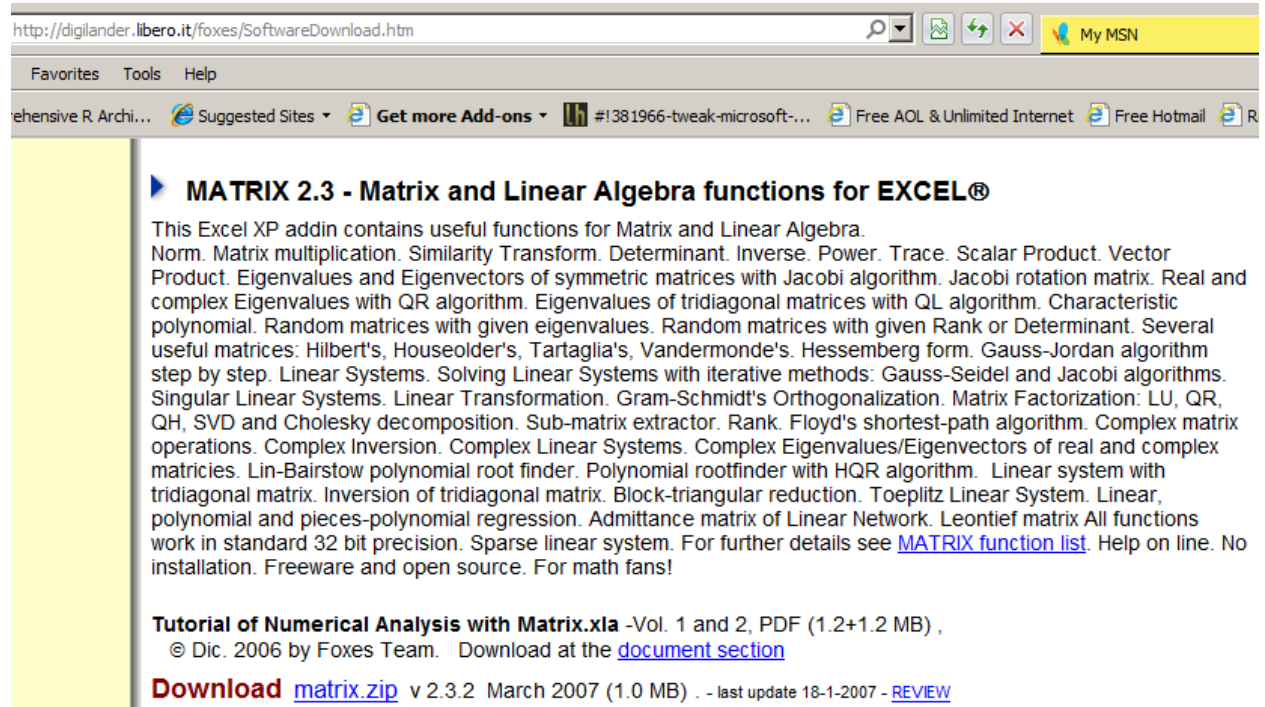


Instruction for Adding In the Matrix 2.3 Functions from

<http://digilander.libero.it/foxes/SoftwareDownload.htm>

1. Download the matrix.zip file for Matrix 2.3 from the above link. Note where in your file structure the file is saved. The remaining instructions assume you have saved it in your Download Files Folder.



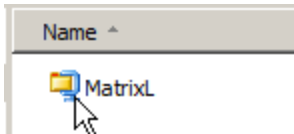
MATRIX 2.3 - Matrix and Linear Algebra functions for EXCEL®

This Excel XP addin contains useful functions for Matrix and Linear Algebra. Norm. Matrix multiplication. Similarity Transform. Determinant. Inverse. Power. Trace. Scalar Product. Vector Product. Eigenvalues and Eigenvectors of symmetric matrices with Jacobi algorithm. Jacobi rotation matrix. Real and complex Eigenvalues with QR algorithm. Eigenvalues of tridiagonal matrices with QL algorithm. Characteristic polynomial. Random matrices with given eigenvalues. Random matrices with given Rank or Determinant. Several useful matrices: Hilbert's, Householder's, Tartaglia's, Vandermonde's. Hessemberg form. Gauss-Jordan algorithm step by step. Linear Systems. Solving Linear Systems with iterative methods: Gauss-Seidel and Jacobi algorithms. Singular Linear Systems. Linear Transformation. Gram-Schmidt's Orthogonalization. Matrix Factorization: LU, QR, QH, SVD and Cholesky decomposition. Sub-matrix extractor. Rank. Floyd's shortest-path algorithm. Complex matrix operations. Complex Inversion. Complex Linear Systems. Complex Eigenvalues/Eigenvectors of real and complex matrices. Lin-Bairstow polynomial root finder. Polynomial rootfinder with HQR algorithm. Linear system with tridiagonal matrix. Inversion of tridiagonal matrix. Block-triangular reduction. Toeplitz Linear System. Linear, polynomial and pieces-polynomial regression. Admittance matrix of Linear Network. Leontief matrix All functions work in standard 32 bit precision. Sparse linear system. For further details see [MATRIX function list](#). Help on line. No installation. Freeware and open source. For math fans!

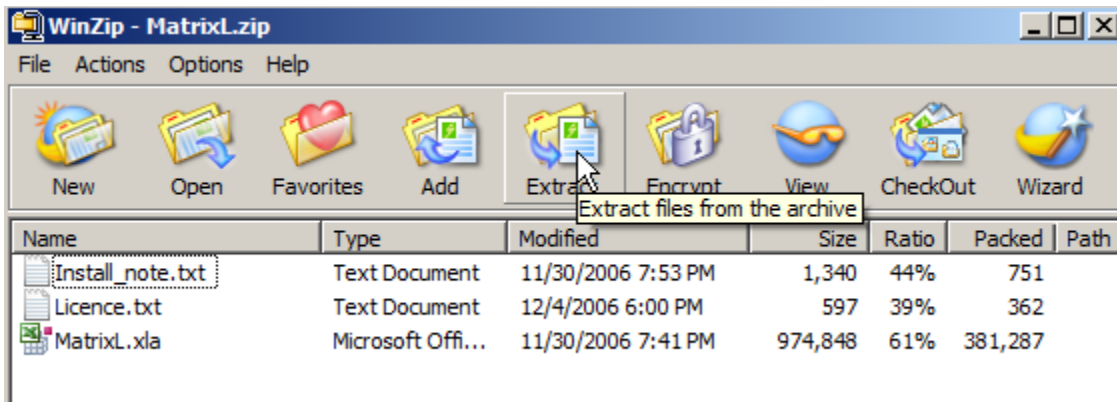
Tutorial of Numerical Analysis with Matrix.xla -Vol. 1 and 2, PDF (1.2+1.2 MB) ,
© Dic. 2006 by Foxes Team. Download at the [document section](#)

Download [matrix.zip](#) v 2.3.2 March 2007 (1.0 MB) . - last update 18-1-2007 - [REVIEW](#)

2. Double Click on MatrixL file to extract files.



3. Extracted files will look like this:



WinZip - MatrixL.zip

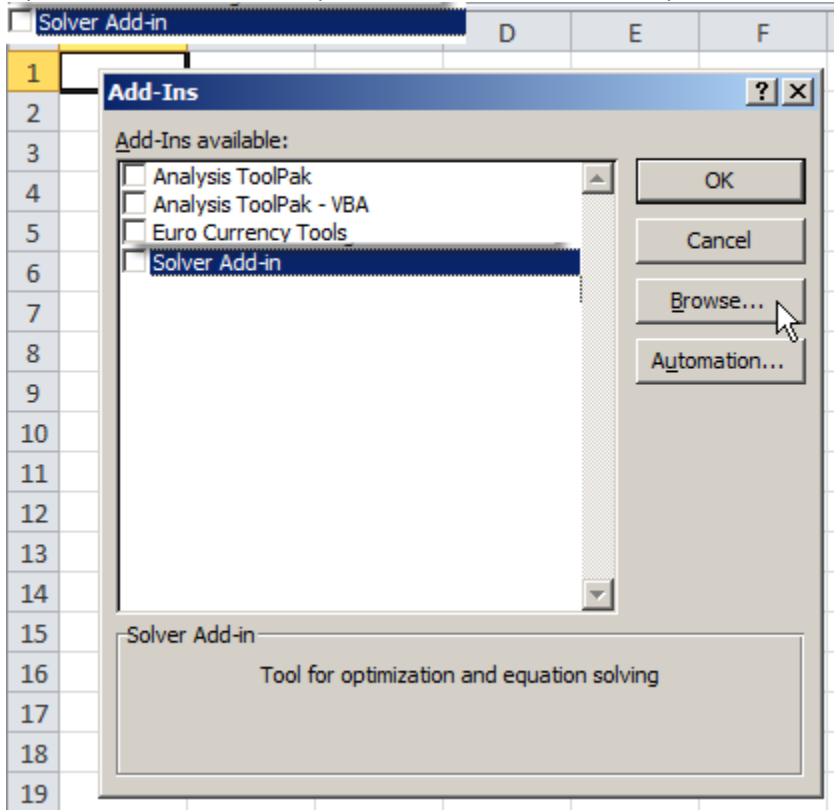
File Actions Options Help

New Open Favorites Add Extract Encrypt View CheckOut Wizard

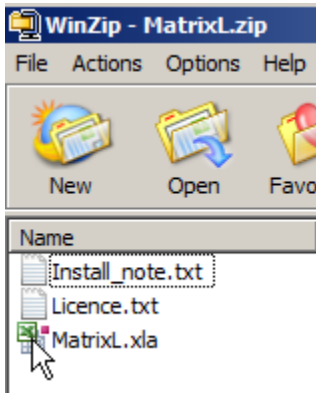
Extract files from the archive

Name	Type	Modified	Size	Ratio	Packed	Path
Install_note.txt	Text Document	11/30/2006 7:53 PM	1,340	44%	751	
Licence.txt	Text Document	12/4/2006 6:00 PM	597	39%	362	
MatrixL.xla	Microsoft Off...	11/30/2006 7:41 PM	974,848	61%	381,287	

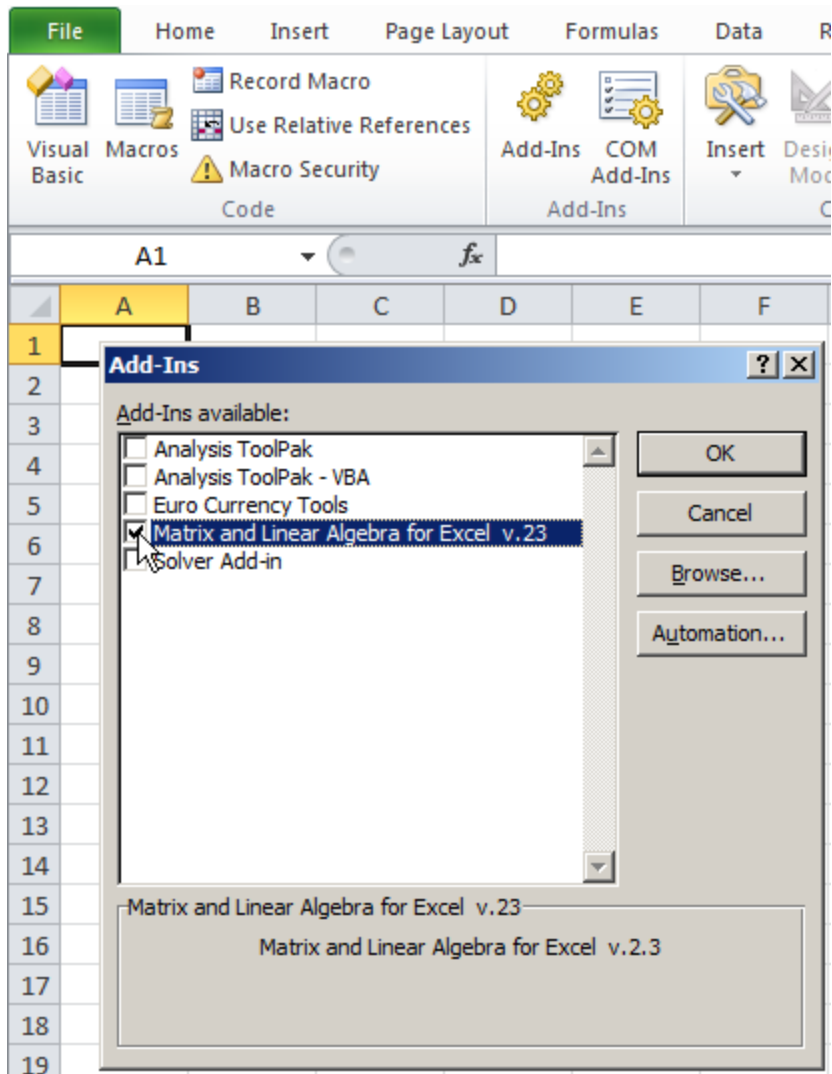
4. Open Excel. Select developer Tab (if not visible, see help menu) and select Add-Ins.



5. Browse to the download folder (or wherever you saved the extracted MatrixL zip file) and select the MatrixL.xla file



6. The Add-Ins dialog box will now contain an option titled Matrix: check it and close the Add-In dialog box by selecting "OK".



A Matrix Logo will appear on your Excel worksheet to indicate that the matrix functions have been added to your function list. The functions are available under the “Formulas” tab: see Matrix category.

