



Origin 8 / OriginPro 8

Reasons to Upgrade/Version Comparison for Origin and OriginPro 8

	Version:				
	8	7.5	7	6.1	6
User Interface					
Tightly integrated workbook, graphics, and analysis tool workspace	✓				
Workbooks and matrices with multiple sheets and rich text cell formatting	✓				
Sparklines on column headers show small graph of data for quick inspection	✓				
Drag out range selection to automatically extend or duplicate data	✓				
Format themes for sheets in workbooks and matrices	✓				
Drag and drop sheets to remove or combine in workbooks	✓				
Workbook organizer for workbook/column properties and file metadata (similar matrix organizer)	✓				
Easier creation of folder structure within Project Explorer (default project has sub-folder, new folder button)	✓				
Multiple matrices (frames) can be stored in the same sheet, selected for viewing (e.g., R, G, B frames)	✓				
Insert URL links, images (EMF), graph links, entire graphs, or notes in worksheet cells	✓				
Themes to save settings (worksheets, graphs, analysis tools, import/export, menus)	✓				
Data information box for graph data reader and new cursor tool	✓				
New data point annotation tool	✓				
New Pack/Unpack tool with new OPX file format	✓				
Regional data selector/mask tool	✓				
Long name support for windows and worksheet columns	✓				
Click-and-drag worksheet and matrix row height	✓				
Lock icon on calculated columns to indicate Recalculate mode of Manual or Automatic	✓				
Consolidated and reorganized menus (Plot, Analysis, Statistics)	✓				
Flyout toolbar buttons to combine related toolbar buttons	✓				
Option to switch language localization	✓				
Quick Help	✓				
Plot Setup Dialog simplifies plotting data from multiple worksheets	✓	✓			
Apply button on data analysis tools	✓	✓	✓		
Click-and-drag to resize and rotate text and drawing objects	✓	✓	✓		
Click-and-drag worksheet and matrix column width	✓	✓	✓		
Drawing tools, including polyline, freehand, polygon, freeform	✓	✓	✓		
Graph Template Library	✓	✓	✓		
In-place text editing	✓	✓	✓		
Multiple selected object formatting	✓	✓	✓		
Object formatting (Style) toolbar (color, hatch pattern, border type, border width)	✓	✓	✓		
Text Format toolbar (font, size, bold, italics, underline, sub/superscript, Greek)	✓	✓	✓		
Batch process windows in active Project Explorer folder	✓	✓	✓	✓	
Batch print selected worksheets, graphs, and Layout windows	✓	✓	✓	✓	✓
Control-select nonadjacent origin worksheet columns	✓	✓	✓	✓	✓
Organize large projects with Project Explorer	✓	✓	✓	✓	✓



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Graph Customization

Add tables to graphs, parameter values may be linked to worksheets	✓				
Copy and paste table from worksheet (e.g., Results) into graphs as a table	✓				
Improved graphical manipulation of 2D waterfall and 3D graphs	✓				
Worksheet parameter row for annotating each curve in 2D Waterfall graphs	✓				
Use column labels for axis titles and legend	✓				
Specify datasets for boundaries in contour graphs	✓				
Plot same column multiple times (e.g., different ranges) in a single graph layer	✓				
Speed Mode dialog for controlling speed mode settings of graphs in the project	✓				
Improved custom color support	✓				
Improved Layer Management tool	✓				
Improved Merge Graph Windows tool	✓				
Apply a collection of graph properties using Themes	✓	✓			
Automatically create a single legend for all layers in graph	✓	✓			
Copy and paste the format of one graph element onto another graph element	✓	✓			
Customize the format increment lists and color palettes for grouped data	✓	✓			
Edit many data plot properties using the Style toolbar	✓	✓			
Legend displays individually edited data points	✓	✓			
Apply color palette to image view of matrix data	✓	✓	✓		
Manually specified tick marks and tick labels for entire axis	✓	✓	✓		
Color scale object supports label increments	✓	✓	✓	✓	
Offset plotting of duplicate points	✓	✓	✓	✓	
Print graph to multiple pages	✓	✓	✓	✓	
Expanded set of built-in symbols (approximately 100)	✓	✓	✓	✓	✓
Individual contour line and level control	✓	✓	✓	✓	✓
Use color variations or symbol size to represent another dimension	✓	✓	✓	✓	✓
User defined symbols using bitmaps	✓	✓	✓	✓	✓

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Graph Types

Contour plot from XYZ using Triangulation	✓				
Polar contour plot	✓				
Offset Y (Stacked Lines by Y Offset)	✓				
Scatter Matrix	✓				
Insert graph and offset axes templates	✓	✓			
Image graphs with profile lines; image histograms	✓	✓	✓		
Smith@ chart	✓	✓	✓		
3D pie chart	✓	✓	✓	✓	✓
Column scatter graphs	✓	✓	✓	✓	✓
XYXY vector (tail-to-head data)	✓	✓	✓	✓	✓
Basic 2D, 3D, Contour, and Statistics graphs	✓	✓	✓	✓	✓



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Data Handling

Improved Worksheet Data Extraction	✓				
Improved Set Column Values dialog with range variable and script support	✓				
Custom date and time formatting saved with workbook	✓				
Split color image into RGB channels	✓				
Intensity/Color Adjustment for Images	✓				
Spatial Image Filter (Blur, Noise, Sharpen, Edge Detect)	✓				
Image Rotate, Flip, Sear, Auto Trim	✓				
Reorganized Analysis menu	✓				
Image processing	Pro				
Categorical data support (nominal and ordinal)	✓	✓	✓		
Image view of data in matrix window	✓	✓	✓		
Random and regular XYZ to matrix conversion	✓	✓	✓		
2D binning of worksheet data	✓	✓	✓	✓	
Transpose worksheet, or upon clipboard paste	✓	✓	✓	✓	✓

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Data Analysis

Analysis Templates™ based on Origin workbooks (OGWs) or Origin Projects (OPJs)	✓				
Consolidated reports with recalculation and change parameters support	✓				
Improved Global Fitting in nonlinear fitting tool	✓				
Standardized analysis tools (based on X-Functions) with all settings in tree structure	✓				
Fitting function organizer	✓				
Analysis markers to indicate range used for analysis	✓				
Improved residuals analysis with additional residuals plots	Pro				
Command-level access to data analysis routines	✓				
Basic image processing	✓				
Improved Find X / Find Y tool for linear, polynomial, and nonlinear fitting	✓	✓	✓		
New Find Z tool for nonlinear surface/matrix fitting	Pro				
Surface Fitting and 3D Interpolation	Pro				
Enhanced image analysis (Image Math, Mode Conversion, Color to RGB)	Pro				
Expanded statistics (Parametric/Nonparametric Hypothesis Tests, Survival Analysis)	Pro				
Repeated measures One-Way and Two-Way ANOVA	Pro				
Advanced signal processing (2D FFT, Wavelet, STFT)	Pro				
Automatically update worksheet calculations	✓	✓			
Automatic NLSF parameter initialization	✓	✓	✓		
Automatic fitting comparison using F-test	Pro	✓	✓		
NLSF and Origin C integration (interface and functionality)	✓	✓	✓		
Normality Test (Shapiro-Wilk)	✓	✓	✓		
One-Way and Two-Way ANOVA; One Sample and Two Sample t-Test	✓	✓	✓		
Survival Analysis (Kaplan-Meier, Cox Proportional Hazards)	Pro	✓	✓		
Low-Pass, High-Pass, Band-Pass, Band-Block, and Noise Threshold Filters	✓	✓	✓	✓	✓
Negative peak finding and fitting	✓	✓	✓	✓	✓

Programming

Easy creation of custom programs with automatic GUI (X-Functions)	✓				
Execute X-Functions from LabTalk commands, menus	✓				
Command window with auto-complete for scripting	✓				
History Log displays previously issued commands	✓				
Full NAG® Mark VII library	✓				
Automation server support	✓	✓			
Create custom dialogs for your routines using Origin C	✓	✓			
Origin project (*.OPJ) files accept any type of file attachment	✓	✓			
User-defined Origin C classes	✓	✓			
Built-in elements of NAG numerical library	✓	✓	✓		
C compiler with ANSI C language and Origin object support	✓	✓	✓		
Code Builder interface for color-coded editing and debugging	✓	✓	✓		
File packing/unpacking utility with drag-and-drop installation	✓	✓	✓	✓	
Run tools and wizards created with OriginPro and MS VC++	✓	✓	✓	✓	

Origin 8 System Requirements:

- Microsoft® Windows® NT 4.0 or later
Windows 2000 or
Windows XP or later
Windows Vista® (32 and 64 bit)
- 1 GHz or higher Pentium-compatible processor
- 512 Megabytes (MB) of RAM (1024 MB recommended)
- 350 MB of free hard disk space
- CD-ROM drive
- To use HTML Help, Internet Explorer 4.01 or later required

FLEX/m System Requirements:

Origin and OriginPro support installing a FLEX/m server on the following operating systems:

- Microsoft® Windows NT, 2000, 2003, or XP
- Sun® SPARC Solaris™ version 2.5 or higher
- Red Hat® 6.x glibc version 2.1.x
- Red Hat® 7.x glibc version 2.2.x
- Red Hat® 8.x original installation glibc version 2.2.x, but the Red Hat Check for Updates will update it to glibc version 2.3.x
- Red Hat® 9.x glibc version 2.3.x



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