



# ORIGIN<sup>®</sup> 8.5

Data Analysis and Graphing Software

## Reasons to Upgrade<sup>\*\*</sup>

### Productivity

Version: 8.5 8.1 8.0

	8.5	8.1	8.0
Batch Processing with Batch Processing with Summary Report Using Analysis Templates™	✓	✓	
Batch Peak Fitting of Multiple Datasets Using Peak Analyzer Theme	Pro	Pro	
Favorites Folder in Project Explorer	✓	✓	
Slide Show of Graphs at any Folder Level	✓	✓	
Recalculation of Results on Data or Parameter Change	✓	✓	✓
Analysis Templates™ with Custom Report Sheets for Repeat Analysis	✓	✓	✓
Re-Import Data Files Using Saved Settings, to Update Worksheet or Matrix Data	✓	✓	✓
Import Wizard Filter for Repeat Import of Similar Data	✓	✓	✓
Batch Print Selected Worksheets, Graphs, and Layout Windows	✓	✓	✓

### User Interface

	8.5	8.1	8.0
Split Worksheet using Vertical and Horizontal Dividers*	✓		
Redesigned Layer Contents Dialog*	✓		
Improved Context Menu for Column Label Rows*	✓		
Zoom and Pan on Graphs, Worksheets, Matrices, and Layouts	✓		
Embed and Edit MS-Word, Excel and Equation Objects Inside Origin Graphs and Layouts	✓		
Customizable Data Information Display Window	✓		
Thumbnail and Metadata Support for Matrices	✓		
Password Protection at Project Level, and Audit Log on Saving Project	✓	✓	
Menu Customization - Add New Menu Items or Remove Existing Ones	✓	✓	
Workbooks and Matrices with Multiple Sheets and Rich Text Cell Formatting	✓	✓	✓
Embed Graphs, Images, and Notes in Worksheet Cells	✓	✓	✓
Sampling Interval Support in Y Column for Evenly Spaced X Values	✓	✓	✓
Drag and Drop Sheets to Remove from or Add to Workbooks	✓	✓	✓
Regional Data Selector/Mask Tool	✓	✓	✓
Drawing Tools, Including Poly Line, Freehand, Polygon, Free-Form	✓	✓	✓
Plot Setup Dialog Simplifies Plotting Data from Multiple Worksheets	✓	✓	✓

### Graph Types

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Line, Fill Area, and Arc (Polar Graphs) Plot Types for Error Bars*	✓		
Mean Line for Box Chart*	✓		
3D Vector	✓		
3D Error Bars	✓		
Contour or 3D Plot from Worksheet Data (Virtual Matrix)	✓		
Probability Plot Including Weibull Distribution/Q-Q Plot	✓	✓	
Windrose Plot - Raw and Binned Data	✓	✓	
GUI to Configure Multiple Y-Axes Plot	✓	✓	
Centered-Axis Scatter Plot	✓	✓	
Contour Plot from XYZ Using Triangulation	✓	✓	✓
Stacked Lines Plot Using Y Offset	✓	✓	✓
Image Graphs with Profile Lines, and Image Histograms	✓	✓	✓
Column Scatter Graphs, 2D/3D Pie Chart, Smith <sup>®</sup> Chart	✓	✓	✓
XXYY Vector (Tail-to-Head Data)	✓	✓	✓
Basic 2D, 3D, Contour, and Statistics Graphs	✓	✓	✓

### Graph Customization

	8.5	8.1	8.0
More Built-in Color Palettes*	✓		
Set Axis Tick Location using Another Dataset*	✓		
Transparency and Gradient Fill Control for Graph Objects	✓		
Enhanced Label Customization	✓		
Multiple Intersecting Surfaces in 3D Graphs	✓		
Ternary Contour Plot with Flexible Scale	✓		
Apply Color Map to a Matrix Using Z-Values from Another Matrix	✓		
Nonlinear Z-Axis and Y- and Z-Value Color Map Support for Waterfall Plots	✓		
Double-Log Reciprocal Axis Scale, $\ln(-\ln(1-x))$ , for Weibull Probability Plot	✓	✓	
Custom Boundary for Contour Plots	✓	✓	✓
Copy and Paste the Format of One Graph Element onto Another	✓	✓	✓



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\*Available Only in Origin 8.5.1. \*\*For a complete list of new features, please visit our website. \*\*\*Available with the Developer Kit



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### Import and Export

Version: 8.5 8.1 8.0

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Import TDMS 2009, MZXML and Prism Files*	✓		
SQL Editor for Database Import*	✓		
Import Data in EDF and BDF Formats	✓		
Import Multiple Images into the Same Matrix Sheet	✓		
Export All Graphs in Project Explorer to PowerPoint <sup>®</sup>	✓		
Export Worksheet as a Multi-page PDF Document	✓	✓	
Import Data in Unicode ASCII and HDF5 formats	✓	✓	
Import Excel, Binary 2D Array, and Multi-Line CSV	✓	✓	
New Import Options: pCLAMP 2.0, NI DAAdem/TDM, ETAS MDF, JCAMP-DX, NetCDF, & More	✓	✓	
ASCII and Binary Import Wizard provides Visual Feedback During Import	✓	✓	✓
Drag and Drop Data Files from Windows Explorer into Origin	✓	✓	✓
Graph Export Formats: AI, CGM, EPS, TIFF, PDF, JPEG, EMF, PSD, & More	✓	✓	✓

### Data Handling

	8.5	8.1	8.0
New Find and Replace Tool	✓	✓	
Unstack Worksheet Columns Using Grouping Variables	✓	✓	
Remove Duplicate Data in Column	✓	✓	
Reduce Data Size by Every N Points or X Increment	Pro	Pro	
Data Fill: Drag Fill Handle to Auto Fill Data, Duplicate or Extend Values	✓	✓	
Categorical Data Support (Nominal and Ordinal)	✓	✓	✓

### Application Connectivity

	8.5	8.1	8.0
Automation Server Support	✓	✓	✓
Mathematica Link	✓	✓	✓
Matlab Console with GUI Support to Transfer Data between Origin and Matlab	✓	✓	✓
LabVIEW Connectivity: Send Data to Origin Using LabVIEW <sup>™</sup> VIs for Origin	✓	✓	✓



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### Data Analysis

Version: 8.5 8.1 8.0

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New Gadgets: Digitizer*, Quick Peaks*, Cluster*, Statistics, Differentiation, Interpolation	✓		
Surface Fitting with Multiple Peaks*	Pro		
Improved Multiple Peak Fit Tool*	✓		
New Fitting Function Builder	✓		
Enhanced Image Profile Tool	✓		
2D FFT Filter	Pro		
Gadgets for Graphical Data Analysis: Quick Fit, Stats, Integration, Rise-Time, FFT	✓	✓	
Linear Fit with Support for X Error	Pro	Pro	
New Functions for Set Column Values Including Date/Time and String Function	✓	✓	
Surface Fitting and 3D Interpolation	Pro	Pro	Pro
Repeated Measures One-Way and Two-Way ANOVA	Pro	Pro	Pro
Signal Processing: FFT, 5 FFT Filters, 2D FFT, Wavelet, STFT	✓	✓	✓
Peak Analyzer - Create Baseline, Find or Integrate Multiple Peaks	✓	✓	✓
Peak Analyzer - Find and Fit Multiple Peaks	Pro	Pro	Pro

### Programming

	8.5	8.1	8.0
Define LabTalk Function in Before Formula Script*	✓		
LabTalk: Support for User-Defined Multi-Parameter Functions	✓	✓	
Labtalk: Support for Event-Triggered Script File Attachment to Project	✓	✓	
Execute LabTalk Script, Including X-Functions and Origin C from Console Command-Line	✓	✓	
Command Window with Support for History and Auto-Complete	✓	✓	✓
Origin C: Create User-Defined Classes and Custom Dialogs for Your Routines	✓	✓	✓
Origin C: Access to Full NAG <sup>®</sup> Mark VII Library	✓	✓	✓
C Compiler with ANSI C Language and Origin Object Support	✓	✓	✓
File Packing/Unpacking Utility with Drag-and-Drop Installation	✓	✓	✓
Run Tools and Wizards Created with MS VC++	✓***	✓***	Pro

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