

ORIGIN[®] 2018

Graphing & Analysis

Key Features

Use the following tables to check what new features have been added to Origin, compared to your version.

PROJECT MANAGEMENT	2018	2017	2016	2015	9.*	8.*
Preview and Thumbnail of Origin graphs in Windows Explorer	✓					
Auto Save Files User Chooses Not to Save And Access Them From Origin Central	✓					
New project file structure (OPJU) with significant improvement in project size	✓					
Graph Preview, Comments Tooltip in Project Explorer	✓	✓	✓	✓		
Find String anywhere in Project	✓	✓	✓	✓		
Lock Worksheet	✓	✓	✓	✓	✓	
Project Explorer Support for Left/Right Split of Panels	✓	✓	✓	✓	✓	
Auto-Hide for Project Explorer and other Dockable Windows	✓	✓	✓	✓	✓	✓
Password Protection for Project/ Worksheet/Files, and Audit Log of Project Save with Optional Password Protection	✓	✓	✓	+	+	✓
Project Explorer Add Window Shortcut to Favorites Folder	✓	✓	✓	✓	✓	✓
Add Comment to Origin Window/Folder	✓	+	+	+	✓	✓
Project Explorer(PE) to Help Organize Origin Data	✓	+	+	+	✓	+
BATCH PROCESSING	2018	2017	2016	2015	9.*	8.*
Better Summary Book for Graph and Results Viewing	✓					
More Data Source Support Batch Processing	✓					
Smart Plotting with Cloneable Graph Templates	✓	✓	✓			
Clone Workbook/Worksheet during Import for Batch Processing	✓	✓	✓			
Word Template for Report Creation in Batch Process	✓	✓	✓			
Batch Plotting - Duplicate Graphs Using Data from Different Sheets	✓	+	+	+	✓	
Generate Gadget Output for All Data Plots in the Graph	✓	✓	✓	✓	✓	
Copy & Paste Formula and Labels between Columns	✓	✓	✓	✓	✓	
Copy & Paste Fitting Operation	✓	✓	✓	✓	✓	
Repeat Analysis on All Plots in Graph or All Columns in Worksheet	✓	✓	✓	✓	✓	✓
Batch Processing with Summary Report Using Analysis Templates™	✓	+	+	✓	✓	✓
Batch Peak Fitting of Multiple Datasets Using Peak Analyzer Theme	PRO	+	+	PRO	PRO	PRO

EASE OF USE	2018	2017	2016	2015	9.*	8.*
App Center for Easy APP Access and Maintenance	✓					
Automatic transfer of User Files	✓					
Origin Central Dialog which Helps User to Get Start from Origin	+	✓				
New Plot Menu with Large Icons	✓	✓				
Mouseover of Data Plot Shows Tooltip of Source Data	✓	✓				
Switch Layers in Axis Dialog	✓	✓				
Analysis Report, English Language Option in J or G Origin	✓	✓				
Better Color Control to Pick more Colors and Define Custom Colors	✓	+	✓			
Object Manager to Easily Turn On/Off Plots and Layers	✓	+	✓			
Apps Gallery for Managing Apps Installed from File Exchange	+	+	✓			
Improve Curve Fitting and Statistics Dialogs to be Tab-based for Easy Navigation	✓	✓	✓			
Collapsible Menus and Context Menus	✓	✓	✓	✓		
F(x) Column Label Row for Column Formula	✓	+	✓	+	✓	
Set Multiple Column Values	✓	✓	✓	✓	✓	
Copy, Paste and Apply Graph Format and Theme	✓	+	✓	+	✓	✓
Analysis Templates™ with Custom Report Sheets for Repeat Analysis	✓	✓	✓	✓	✓	✓
Consolidated Reports with Collapsible Tables	✓	✓	✓	✓	✓	✓
Save Analysis Dialog Settings as Theme for Future Use	✓	✓	✓	✓	✓	✓
Recalculation of Results on Data or Parameter Change	✓	✓	✓	✓	✓	✓

8.* is for Origin 8.6, Origin 8.5.1, Origin 8.5, Origin 8.1 and Origin 8.0 | 9.* is for Origin 9 and Origin 9.1 | + Feature improved in version

GRAPH TYPES	2018	2017	2016	2015	9.*	8.*
Bridge Chart (McKinsey-Style Waterfall)	✓					
Double Y Box Chart	✓					
Multi-Y Color Mapped Line Series	✓					
4D XYZ Surface with Custom Boundary	✓					
Trellis Plot with Flexible Customization Options: Wrap Panels, Overlap Panels, Add Gap Between Panels	✓	✓				
Line Series, Statistics Bars	✓	✓				
3D Stacked Bars, 100% 3D Stacked Bars with new Bar Shapes	✓	✓				
Interval Plot	✓	✓	✓			
Heat Map	✓	✓	✓	✓		
Column Scatter Plot With or Without Jitter	✓	✓	✓	✓		
Kernel Density Plot	✓	✓	✓	✓		
Grouped Column Plots, Grouped Box Chart	✓	+	+	+	✓	
Variable Column/Bar Width	✓	✓	✓	✓	✓	
100% Stacked Column/Bar Plots	+	✓	✓	✓	✓	
3D OpenGL Waterfall	✓	✓	+	✓	✓	
3D Ternary Surface	✓	✓	✓	✓	✓	
Piper/Trilinear Diagram	✓	✓	✓	✓	✓	
Marginal Histogram/Box Chart	✓	✓	✓	✓	✓	
3D Surface/Bar Plot From Worksheet XYZ Columns	+	✓	✓	✓	✓	
3D Bar Plot with Z Error Bars	✓	✓	✓	✓	✓	
3D Parametric Function Plot	✓	✓	✓	✓	✓	
Radar/Spider Chart	✓	✓	✓	✓	✓	✓
2D/3D Function Plot and 2D Parametric Function Plot	✓	✓	✓	✓	✓	✓
Multiple Intersecting Surfaces	✓	✓	✓	✓	✓	+
3D Vector Plot	✓	✓	✓	✓	✓	+
3D Bar Plot	✓	+	✓	✓	+	✓
Image/Contour Profile Plot	✓	✓	✓	+	✓	✓
Scatter Matrix	✓	✓	+	✓	✓	✓
Contour Plot	✓	+	+	+	+	✓
Basic 2D, 3D, and Statistics Graphs	✓	+	✓	✓	✓	✓

GRAPH CUSTOMIZATION	2018	2017	2016	2015	9.*	8.*
Create Custom Legend Entries	✓					
Statistics Reference Lines on Graph with Full Customization	✓					
Arrows at Axis Begin or End	✓					
Total Label on Stacked Column/Bar Chart	✓					
Column Gap control for Double-Y Column Plot	✓					
Lighting Effect for 3D Wall Plot	✓					
Leader Line for Pie Chart	✓					
Distribute Selected Layers/Graphic Objects Horizontally or Vertically	✓					
New Annotation Dialog with More Controls for Object Customization	✓	✓				
More Hatch Patterns, including Geology Patterns	✓	✓				
Drapline Direction Control in 2D/3D Graphs	✓	✓				
Support More Bar Shapes for 3D Bars	✓	✓				
Histograms: Label with Bin Counts, Percentage or Both	✓	✓				
Grouped Plots: Unbalanced Subgroups Can Display Grid Line Separators, Set Gaps by Dataset	✓	✓				
Support for all 2D objects in 3D graphs: Table, Image, Drawn Objects, Bubble Scale, OLE Object	✓	✓				
Axis Improvements: Multiple Reference Lines and Shading Between in 2D Graphs; More Rescale Options, Tick Labels Combine Column Labels, Leader Lines For Special Ticks, Wrap Tick Labels for 3D Plots	✓	✓				
New System Colors add Fresh Look to Graphs	✓	✓				
Skip Weekend and Holidays in Financial Plot	✓	✓	✓			
Text and Legend Improvements: Multi-line Spacing, Annotation Customization, Legend Text Color same as Legend Symbols	✓	+	✓			
Show Symbol in 3D XYY Waterfall, Walls and Ribbons	✓	✓	✓			
Position Label/Metadata Anywhere on Data Plot	✓	✓	✓			
Align Layers at Specified Value, Share Common Scale among Layers	✓	✓	✓			
New Tab-based Axis Dialog with Multi-axis Selection and Easy Navigation	+	✓	✓	✓		
Wrap Axis Tick Labels, Customize Individual Special Ticks, Custom Axis Scale Formula for 3D OpenGL Axis	✓	+	✓	✓		
Boundary Customization in Contour Plot	✓	✓	✓	✓		

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GRAPH CUSTOMIZATION (CON'T)	2018	2017	2016	2015	9.*	8.*
More Customization of Color Scale in Contour Plot	✓	✓	+	✓		
Linear and Nested Bubble Scale for Bubble Plot	✓	✓	✓	✓		
Drag Legend to Multiple Columns, Hide Legend of Hidden Plots, Reverse Order of Legend	✓	✓	✓	✓		
Custom Percentile and Jitter Points in Box Chart	✓	✓	✓	✓		
Plot: User Defined Menu to Access Customized Templates	✓	✓	✓	✓	✓	
Smart Labels - Auto Position of Data Labels	✓	✓	✓	✓	✓	
User Defined Axis Scale Type	✓	✓	✓	✓	✓	
Multiple Axis Breaks with No Gap	✓	✓	✓	✓	✓	
Multiple Special Tick Labels	✓	✓	✓	✓	✓	
Isometric - Link Axis Length to Scale by X/Y Ratio	✓	✓	+	✓	✓	
More Legend Types: Box Chart Components, Point by Point, Categorical Values	✓	✓	+	+	✓	
Customized Color/Shape/Interior Increment List for Plot	✓	+	+	✓	✓	
3D Surface Improvements: Lighting Effect, Mesh, Flatten, Shift	+	✓	✓	✓	✓	
Zoom and Pan inside Graph Layer	✓	✓	✓	✓	+	
Customizable Data Info. Window to Read Coordinates and More	✓	✓	✓	✓	✓	✓
Transparency and Gradient Fill Control in Graphs	✓	✓	✓	✓	✓	✓
Embed and Edit Microsoft Word, Excel and Equation Objects Inside Graphs and Layouts	✓	✓	✓	✓	✓	✓
Non-Linear Z-Axis, and Y- and Z-Value Colormap Support for Waterfall Plots	✓	✓	✓	✓	+	✓
Move, Rotate, Skew and Resize 3D Graphs	✓	✓	✓	✓	✓	✓
Axis Tick Locations Controls	+	+	✓	✓	+	✓
Box Chart with Box/Whisker/Outliers Controls	✓	+	+	+	+	✓
Fill Area Under/Between Line Plots	✓	✓	+	+	+	✓
Polar Plot with Azimuth and Radial Axis Controls	+	+	✓	✓	+	✓

DATA MANAGEMENT	2018	2017	2016	2015	9.*	8.*
Cell Formula Support for for Data and Label Row Cells	✓					
Simpler Spreadsheet Cell Notation for Column Formulas	✓	✓				
Ability to Include LaTeX in Text Labels/ Legends, and in Worksheet Header Rows etc.	✓	✓				
Embed Layout Window in Worksheet	✓	✓				
Select or Hide Columns in Worksheet by Column Label	✓	✓	✓			
Append Worksheet tby Matched Column	✓	✓	✓			
Search & Insert Function and Show Function Syntax Hint in Set Column Values Dialog Box	✓	✓	✓	✓		
Customize Categorical Data Order and Apply it to other Columns	✓	✓	✓	✓		
Append Worksheet Row-wise or Column-wise	✓	✓	✓	✓		
Generate Patterned Data	✓	✓	✓	✓	✓	
Sort Column by Values in Column Label Rows, Reduce Columns	✓	✓	✓	✓	✓	
Lock Filter Condition in those Columns Linked to Source Columns	✓	✓	✓	✓	✓	
ExcelLike Data Filtering	✓	+	✓	✓	✓	
Floating Graphs/Layout in Worksheet	✓	✓	✓	✓	✓	
Split a Worksheet into Multiple Worksheets by Number of Columns/Rows, or by Column Label	✓	✓	✓	✓	✓	✓
XYZ Gridding in Linear or Logarithmic Scale	✓	✓	✓	✓	✓	✓
Reduce XY Data by Group, Reduce Data to Evenly Spaced X	✓	✓	✓	✓	PRO	PRO
Reduce Each Column in Worksheet by Combining Duplicate Rows	✓	✓	✓	+	✓	✓
Pivot Table	✓	✓	✓	+	+	✓
Stack Columns and Unstack Columns	✓	✓	✓	✓	+	✓
Reduce Duplicate X Data, Reduce Data by Skipping Every N Points	✓	✓	✓	✓	✓	✓
Worksheet Query (Extract Values from Worksheet)	✓	✓	✓	✓	✓	✓
MISCELLANEOUS	2018	2017	2016	2015	9.*	8.*
Unicode(UTF-8) Support	✓					
Connection to OriginLab website using secure connection (https)	✓					
Zoom and Pan on Graphs, Worksheets, Matrices and Layouts	✓	✓	✓	✓	✓	+
Native 64-Bit and 32-Bit Applications	✓	✓	✓	✓	✓	✓

IMPORTING	2018	2017	2016	2015	9.*	8.*
Set Origin as Default Program to Open Data Files	✓					
New Toolbar Buttons for Reimport and Clone Import	✓					
Import Specified Column/Rows only in Excel and CSV	✓					
New Excel Import Dialog without Using COM Support	✓	✓				
More 3rd-Party Import Formats: ISF, SAS, BRUKER OPU	✓	✓	✓			
Script after Import and Column Plot Designation for More Import Routines	✓	✓	✓			
Import SPSS Data Files	✓	✓	✓	✓		
Importing OPJ	✓	✓	✓	✓	✓	
Import Mat File Structure	✓	✓	+	✓	✓	
Specify Channel When Import MDF, NITDM, DIADem, Prism, pClamp, Matlab Data	✓	✓	✓	✓	✓	
File Import Menu Customization Dialogue	✓	✓	✓	✓	✓	✓
Import TDMS 2009, MZXML and Prism Files	✓	✓	✓	✓	✓	✓
SQL Editor for Database Import	✓	✓	✓	✓	✓	✓
Import Excel, Multi-Line CSV and Binary 2D Array	+	+	+	+	+	✓
3rd Party Formats Support for pCLAMP 2.0, NI DIADem/TDM, ETAS MDFJCAMP-DX, NetCDF, HDF5 etc.	✓	+	+	✓	+	✓
Graphically Construct SQL Queries	✓	✓	✓	✓	✓	✓
ASCII and Binary Import Wizard Provides Visual Feedback during Import	✓	✓	✓	✓	+	✓
Import Images (PNG, GIF, TIF, TGA, PCX, PSD, WMF ect (Convert to Raster))	✓	✓	✓	✓	✓	✓
Drag-and-Drop Data File from Windows Explorer into Origin	✓	✓	✓	✓	✓	✓
Import Wizard Filter for Repeat Import of Similar Data	✓	✓	✓	✓	✓	✓

EXPORTING & PRESENTATION	2018	2017	2016	2015	9.*	8.*
Copy / Export User-defined Area of Graph Page	✓					
Export Graphs to Auto-Created Windows Explorer Folders that Parallel your Project File's Folder Structure	✓	✓				
Send Graph to PowerPoint Improvements: Specify Graph List and Order, Specify Slide Layout and Style	✓	✓	✓			
Creating Movies from Origin Windows using GUI Tool or Script	✓	✓	✓	✓	✓	
Graph Export Supports Transparency for PDF and EPS Format	✓	✓	✓	✓	✓	✓
Export All Graphs to PowerPoint	✓	✓	+	✓	+	✓
Export ASCII Data to Existing File by Appending or Replacing	✓	✓	✓	✓	✓	✓
Slide Show Graphs and Layouts	✓	✓	✓	✓	✓	✓
Export Worksheet as Image, WAV, NI TDM/TDMS File or Multi-Page PDF Document	✓	✓	✓	✓	✓	✓
Graph Export Formats Include: CGM, EPS, TIFF, PDF, JPEG, EMF, PSD, etc.	✓	+	✓	✓	✓	✓
Export Image to Raster File Format	✓	✓	✓	✓	✓	✓
GADGETS	2018	2017	2016	2015	9.*	8.*
Profile Gadget	✓	✓	✓	✓		
Surface Integration Gadget	PRO	PRO	PRO	PRO	PRO	
Global Vertical Cursor Gadget Across Graphs	✓	✓	✓	✓	✓	✓
Intersect Gadget	✓	✓	✓	✓	✓	✓
Cluster Gadget	+	PRO	+	PRO	PRO	PRO
Differentiate Gadget	✓	✓	✓	✓	✓	✓
Interpolate Gadget	✓	✓	✓	✓	✓	✓
Quick Peaks Gadget	✓	✓	✓	+	✓	+
Digitizer	✓	✓	✓	✓	+	+
Quick Fit Gadget	✓	✓	✓	✓	✓	✓
Rise Time Gadget	PRO	PRO	PRO	PRO	PRO	PRO
Integrate Gadget	✓	✓	✓	✓	✓	✓
FFT Gadget	✓	✓	✓	✓	✓	✓
Statistics Gadget	✓	+	✓	✓	✓	✓

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MATHEMATICS	2018	2017	2016	2015	9.*	8.*
Show Polygon Area of Selected Contour Line in Data Display	✓	✓	✓	✓		
Akima Spline in Interpolation	✓	✓	✓	✓	✓	
2D Interpolation and Extrapolation	✓	✓	✓	✓	✓	
Compute Polygon Area	✓	✓	✓	✓	✓	✓
Compute Surface Area and Matrix Area	PRO	PRO	PRO	PRO	PRO	PRO
2D Volume Integration	PRO	PRO	PRO	PRO	PRO	PRO
3D Interpolation	✓	✓	✓	PRO	PRO	PRO
Trace Interpolation on XY Data	PRO	PRO	PRO	PRO	PRO	PRO
1D Interpolation and Extrapolation	✓	✓	✓	+	+	✓
Interpolation and Extrapolation of Y From X	✓	✓	✓	+	+	✓
Trace Interpolation on XYZ Data	✓	✓	✓	✓	✓	✓
Normalization Across Multiple Columns or Curves	✓	✓	✓	✓	✓	✓
Set Column or Matrix Values by Using Mathematics Operations	✓	+	+	+	+	+
CURVE FITTING	2018	2017	2016	2015	9.*	8.*
Nonlinear Curve Fit Dialog Supports Switching Between Parameter Sets to Compare fit Results	✓	✓				
More Parameter Initialization Options - Vars or Metadata from Menu, or Custom Code - When Defining Fitting Functions	✓	✓				
More Built-in Fitting Functions Such as Photosynthesis Irradiance (PI) Curve, 3D Curves etc.	✓	✓				
Provide Deming Method in Fit Linear with X Error	PRO	PRO	PRO			
Customize Parameter Table in Graph for LR/PR/NLFit and Peak Fitting	✓	✓	✓			
Zoom on Preview tab of Nonlinear Curve Fit	✓	✓	✓	✓		
Improved Fitting Results: Add Normal Probability Plot of Residuals, Put Residual Plots in a Single Graph	✓	✓	✓	✓		
Fit and Rank All Functions in a Category	PRO	PRO	PRO	PRO	PRO	
Orthogonal Regression for Implicit/Explicit Functions	PRO	PRO	PRO	PRO	+	
Calculate Standard Error for Derived Parameter	✓	✓	✓	✓	✓	✓
Linear Fit with Support for X Error	PRO	PRO	PRO	PRO	+	PRO
Surface Fit with Multiple Peaks	PRO	PRO	PRO	PRO	PRO	PRO
New Fitting Function Builder for Fitting Function Creation	✓	✓	✓	✓	✓	✓
Graphical Residual Analysis for Fitting	✓	✓	✓	✓	✓	✓
Find-X/Find-Y Tool for Linear, Polynomial, and Nonlinear Fit	✓	✓	✓	✓	✓	✓
New Find-Z Tool for Nonlinear Surface/Matrix Fit	PRO	PRO	PRO	PRO	PRO	PRO
Fitting Comparison	PRO	PRO	PRO	PRO	PRO	PRO

PEAK ANALYSIS	2018	2017	2016	2015	9.*	8.*
Auto Bound Setting for Positive-Only and Negative-Only Peaks	✓					
Sequentially Initialize Parameter Values in Batch Peak Analysis	✓	✓				
Multiple Peak Fit Tool	✓	✓	✓	✓	✓	✓
Batch Peak Fitting	+	+	PRO	PRO	PRO	PRO
Peak Analyzer: Peak Fitting	PRO	PRO	PRO	PRO	PRO	PRO
Peak Analyzer: Fit Baseline with Peaks	PRO	PRO	PRO	PRO	PRO	PRO
Peak Analyzer: Peak Integration	✓	✓	+	+	✓	+
Peak Analyzer: Peak Finding	✓	✓	+	+	✓	+
Peak Analyzer: Baseline Detection	✓	✓	+	+	✓	+
Peak Analyzer: Baseline Subtraction	✓	✓	+	+	✓	+
SIGNAL PROCESSING	2018	2017	2016	2015	9.*	8.*
Support Binomial Filter for Smoothing	✓	✓	✓			
LOWESS and LOESS Smoothing	✓	✓	✓	✓	✓	
IIR Filter Design	PRO	PRO	PRO	PRO	PRO	
2D FFT Filter	PRO	PRO	PRO	PRO	PRO	PRO
Signal Envelope	PRO	PRO	PRO	PRO	PRO	PRO
Coherence	PRO	PRO	PRO	PRO	PRO	PRO
Signal Decimation to Reduce/Resample Data	PRO	PRO	PRO	PRO	PRO	PRO
1D FFT, Inverse FFT and 1D FFT Filter	✓	✓	✓	✓	✓	✓
2D FFT and 2D Inverse FFT	PRO	PRO	PRO	PRO	PRO	PRO
Short-Time Fourier Transform (STFT)	PRO	PRO	PRO	PRO	PRO	PRO
Wavelet Analysis	PRO	PRO	PRO	PRO	PRO	PRO
Hilbert Transform	PRO	PRO	PRO	PRO	PRO	PRO
2D Correlation	PRO	PRO	PRO	PRO	PRO	PRO

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STATISTICS	2018	2017	2016	2015	9.*	8.*
Support Grouping for Statistics on Rows	✓					
Support Means Plot in Two-Way ANOVA	✓	✓				
3-way ANOVA	PRO	PRO	PRO			
Partial Correlation	PRO	PRO	PRO			
Cross Tabulation	PRO	PRO	PRO			
Distribution Fit	PRO	PRO	PRO	PRO		
t-Tests on Rows	PRO	PRO	PRO	PRO		
Partial Least Squares Regression	PRO	PRO	PRO	PRO	PRO	
One/Two-Proportion Testing	PRO	PRO	PRO	PRO	PRO	
More Power & Sample Size Tests (One/Two-Proportion, One/Two Variance)	PRO	PRO	PRO	PRO	PRO	
Grubbs Test and Q-test to Detect Outliers	✓	✓	✓	✓	+	
Multivariate Analysis: Cluster	PRO	PRO	PRO	+	PRO	PRO
Multivariate Analysis: Principal Component	PRO	PRO	PRO	+	PRO	PRO
Multivariate Analysis: Discriminant Analysis	PRO	PRO	PRO	+	PRO	PRO
ROC Curve	PRO	PRO	PRO	PRO	PRO	+
Survival Analysis: Kaplan-Meier, Cox Proportional Hazard, Log-Rank, etc.	PRO	PRO	PRO	PRO	+	PRO
Nonparametric Tests: Mann-Whitney Test, etc.	PRO	PRO	PRO	PRO	PRO	+
Power and Sample Size	+	PRO	PRO	PRO	+	PRO
One- and Two-Way Repeated Measures ANOVA	PRO	PRO	+	+	PRO	PRO
Hypothesis Testing	✓	+	+	+	+	✓
Correlation Coefficient	PRO	PRO	PRO	+	PRO	PRO
Normality Test	✓	✓	✓	✓	✓	+
Basic Descriptive Statistics, 1D and 2D Frequency Count, Discrete Frequencies, One/Two-Way ANOVA	✓	✓	+	+	✓	✓

CONNECTIVITY WITH OTHER APPLICATIONS	2018	2017	2016	2015	9.*	8.*
Communicate with Individual Mathematica V8 or Later	✓	✓				
R Console and support for Rserve to exchange data between Origin and R	✓	✓	✓			
MATLAB Console with GUI Support to Transfer Data Between Origin and MATLAB	✓	✓	✓	✓	✓	✓
LabVIEW Connectivity	✓	✓	✓	✓	✓	✓
Automation Server Support	✓	✓	✓	✓	✓	✓
PROGRAMMING	2018	2017	2016	2015	9.*	8.*
Unicode (UTF-8 Encoded) Text Strings Support in LabTalk and OriginC	✓					
Support for HTML Dialog with JavaScript	✓	✓				
Origin C Access to Full NAG Mark 25 Library	✓	✓				
Integrate Python as a Scripting Language in Origin	✓	✓	✓	✓		
Ability to Encrypt OC code	✓	✓	✓	✓		
Code Builder has New Editor Based on Scintilla Code, which Supports Code Folding, etc.	✓	✓	✓	✓	✓	
Origin C Access to Full NAG Mark 9 Library	✓	✓	✓	✓	✓	✓
Generate LabTalk Script Command from Current Dialog Box Settings	✓	✓	✓	✓	✓	✓
X-Function: Easy Creation of Custom Tools with Automatic GUI by X-Function	✓	✓	✓	✓	✓	✓
X-Function: Execute X-Function from LabTalk Script and Menu	✓	✓	✓	✓	✓	✓
Command Window: Auto-Complete Support for Scripting	✓	✓	✓	✓	✓	✓

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