中国科学技术大学
University of Science and Technology of China

ORIGINPRO®
Graphing & Analysis

Scientific Graphing and Data Analysis Using Origin

Xuejuan Zhang

目录

Contents

Brief Introduction

Introduction

- A powerful data analysis and publication-quality graphing software, developed by OriginLab Corp.
- Key Features: (1) Easy-to-use graphical interface. (2) Using built-in or user-defined "**Templates**", one can easily customize and automate data import, analysis, graphing and reporting tasks. (3) Batch plotting and analysis operations are also supported.
- Latest Version: Origin(Pro) 2021
- Official Website： http://www.originlab.com/

Origin and OriginPro

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Curve Fitting

Curve Fitting		Origin	OriginPro
Linear and Polynomial Fitting	Linear Regression	✓	✓
	Linear Fit with X Error		✓
	Confidence Ellipse for Linear Fit	✓	✓
	Polynomial Regression	✓	✓
	Multiple Linear Regression	✓	✓
	Partial Leverage Plots in Multiple Regression	✓	✓
	Residual Analysis	✓	✓

Peak Analysis

Peak Analysis		Origin	OriginPro
Peak Analysis	Batch Peak Analysis	✓	✓
	Baseline Detection	✓	✓
	Baseline Subtraction	✓	✓
	Peak Finding	✓	✓
	Peak Integration	✓	✓
	Peak Fitting		✓
	Fit Baseline with Peaks		✓
	Fit Individual Peaks with Different Fitting Functions		✓

https://www.originlab.com/Origin

For undergraduate and graduate students
(Post-docs or other academic staff not eligible)

Licensing Option*:
Node-locked (fixed-seat, computer-specific)
*Must be on a student-owned computer, not a University-owned computer

Learning Edition

Free

- License Term : 6-month
- Window Limit* : 12
- Eligible for latest version within license term
- Valid **University email** required during registration

Request Learning Edition

中国科学技术大学 University of Science and Technology of China 正版软件

■产品列表

Windows | Office | **ORIGIN** | MATLAB | 高斯 | Mathematica | 福昕PDF | NOD32

产品名称	工具或使用说明
· OriginPro 2020	使用说明 培训材料
· OriginPro 2019	使用说明 培训材料
· OriginPro 2018b	使用说明 培训材料
· OriginPro 2018	使用说明 培训材料
· OriginPro 2017	使用说明 培训材料
· OriginPro 2018	使用说明 培训材料

· origin软件授权及相关问题请联系吴老师（63603498）
· 修改界面语言请在使用Help菜单里面的Change Language...选项
· 如有我校老师教学中需要Origin公司协助准备教程等，可以联系李会民老师（63600316,hmli@ustc.edu.cn）

Homepage of USTC- Information Portal- Legitimate Software

■工具和文档

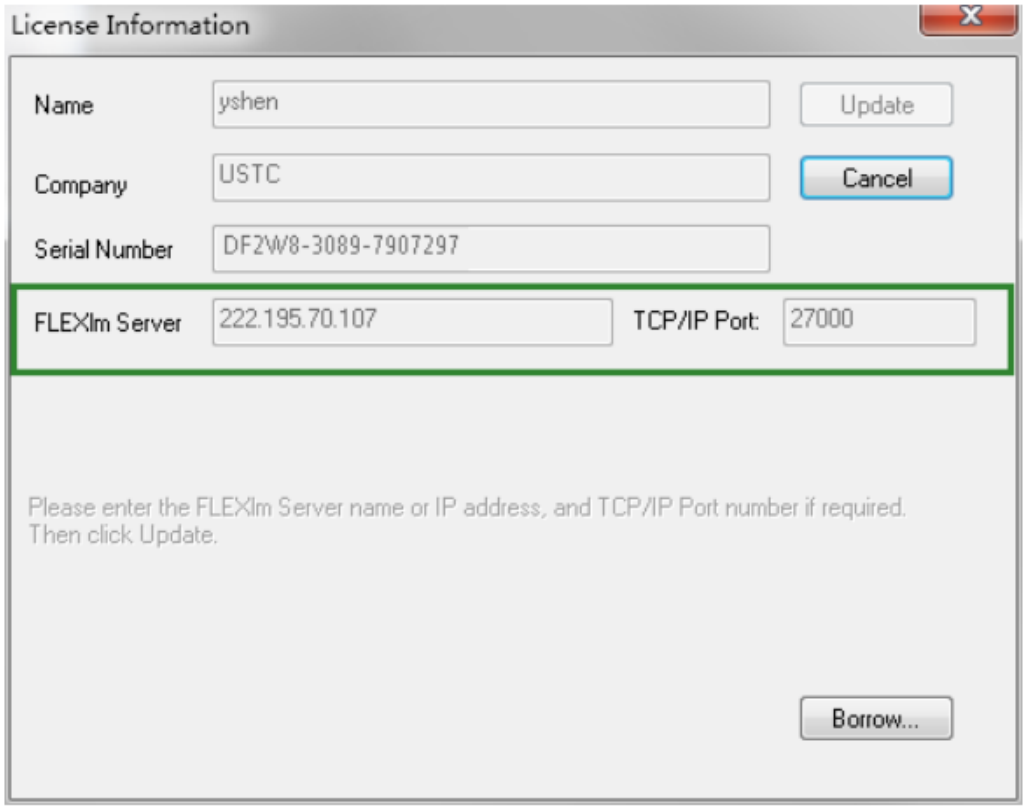
· 自动更新服务
· 软件安装说明
· Kms激活说明
· 应对windows和office 非标准安装不能认证处理脚本
· ISO to USB --U盘制作工具
· Rufus --U盘制作工具
· UltraISO使用方法

Instructions

■OriginPro 使用说明

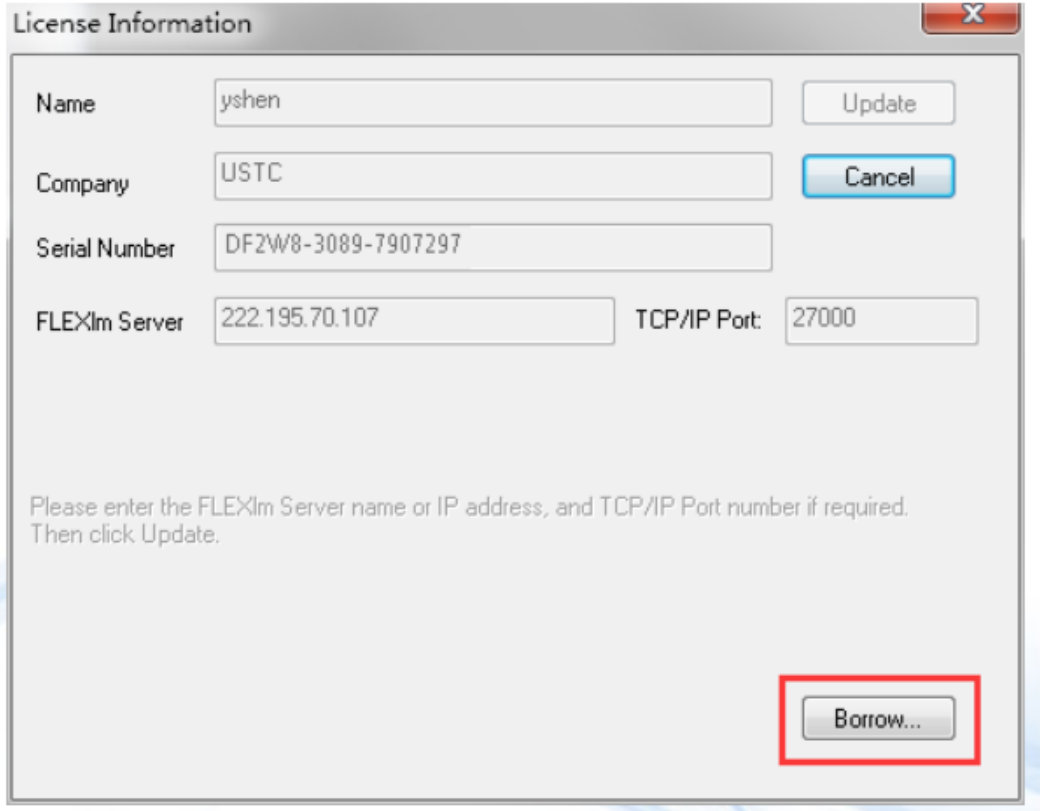
校内在线使用：如果能够直接连接到校园网，可以直接从激活服务器得到授权使用。

1. 使用序列号(Serial number: DF2W8-3089-7907297)安装OriginPro；
2. 打开菜单中的HelpèActive License...，将激活服务器ip：222.195.70.107和端口27000填入FLEXlm Server和TCP/IP Port中，点击Update，连接成功后即可使用。

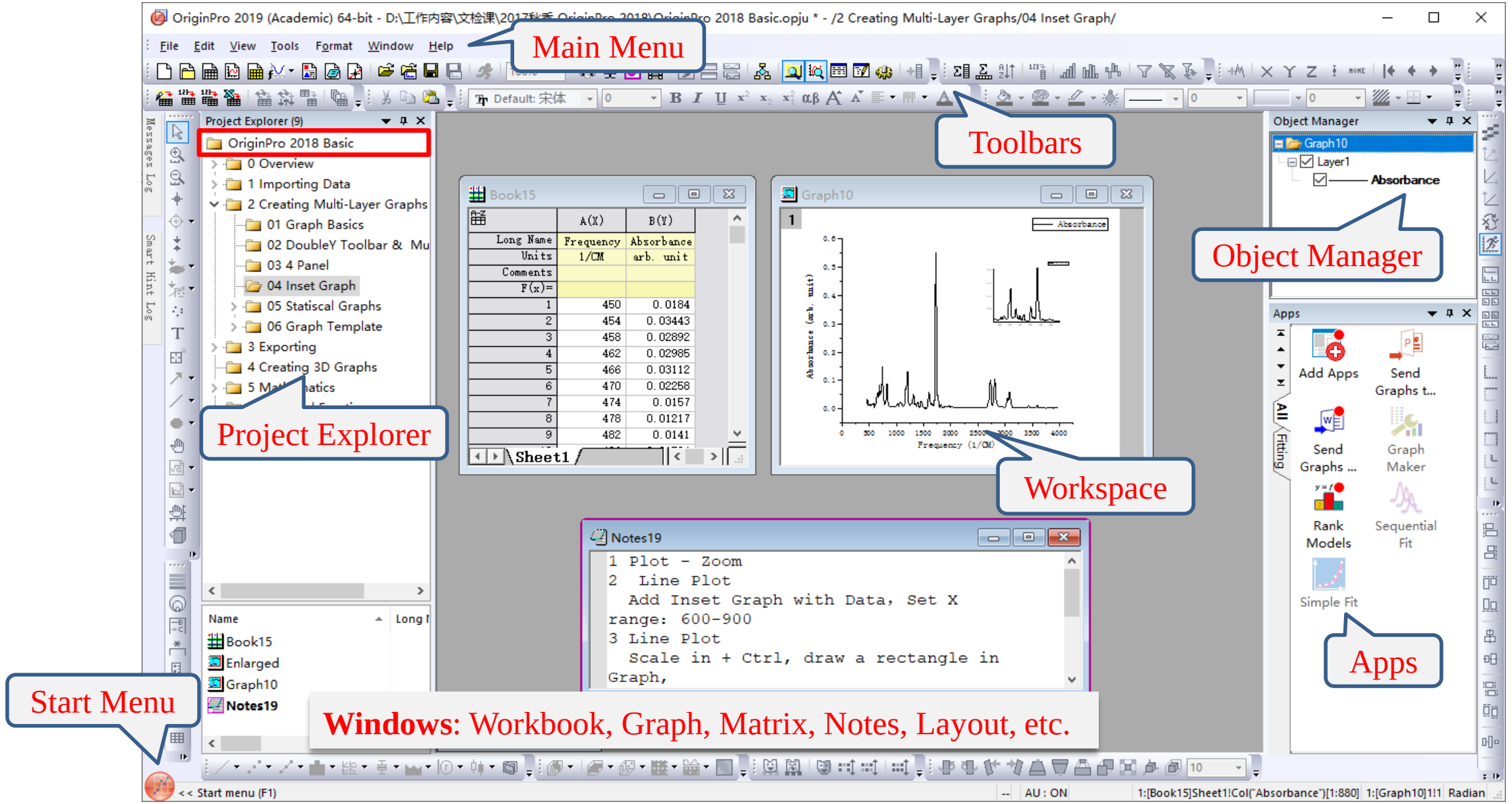


离线暂借授权：如果需要离线使用（例如在校外使用）一段时间，需要提前在能够连接到校园网时从激活服务器借出授权以供离线时使用。

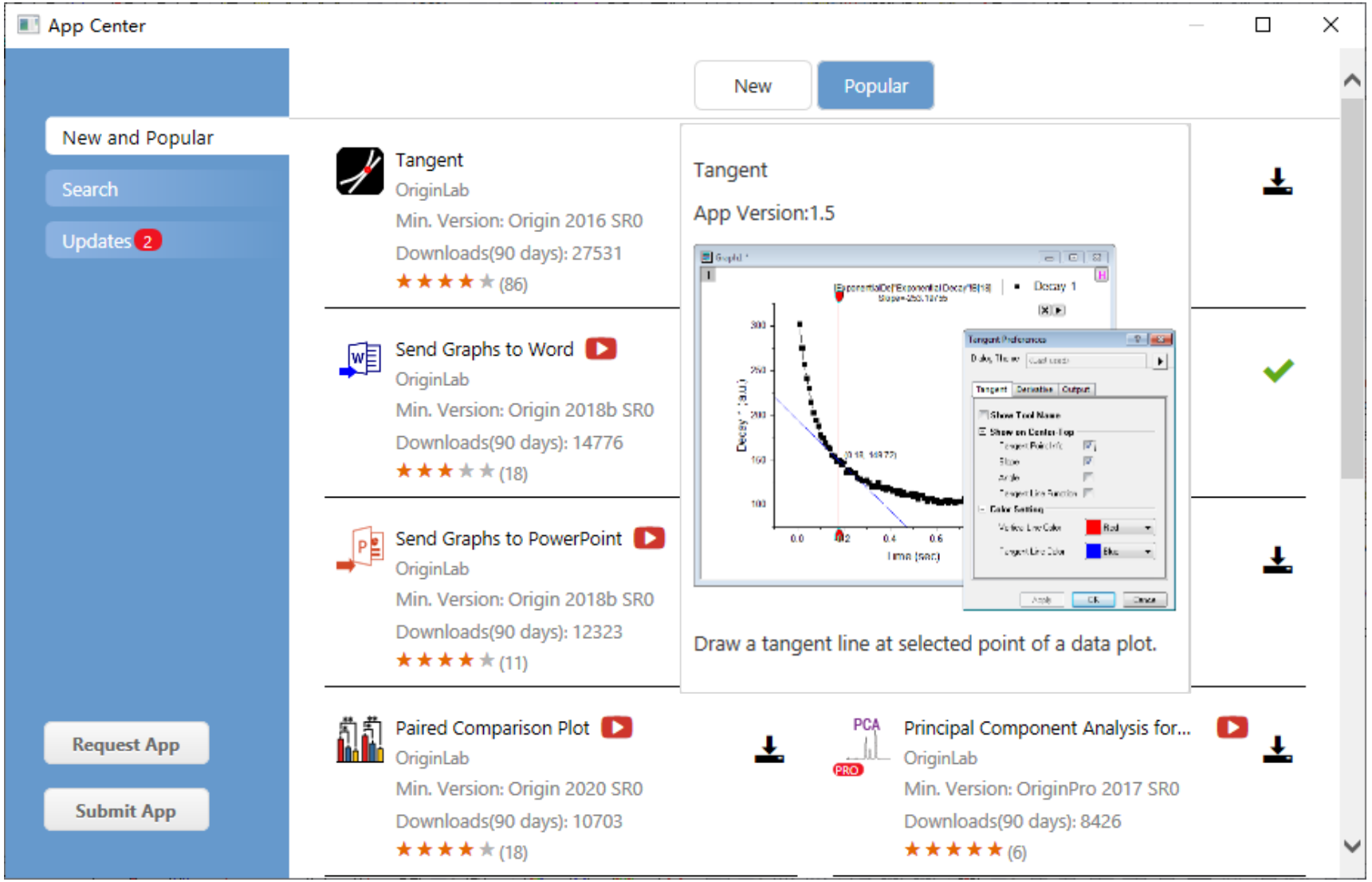
打开菜单中的HelpèActive License...，点击Borrow...，在出现的License Borrowing菜单中，设定获取授权的时间（最大89天），点击Request Now，即可获得申请时间的离线使用授权。



Interface and Windows



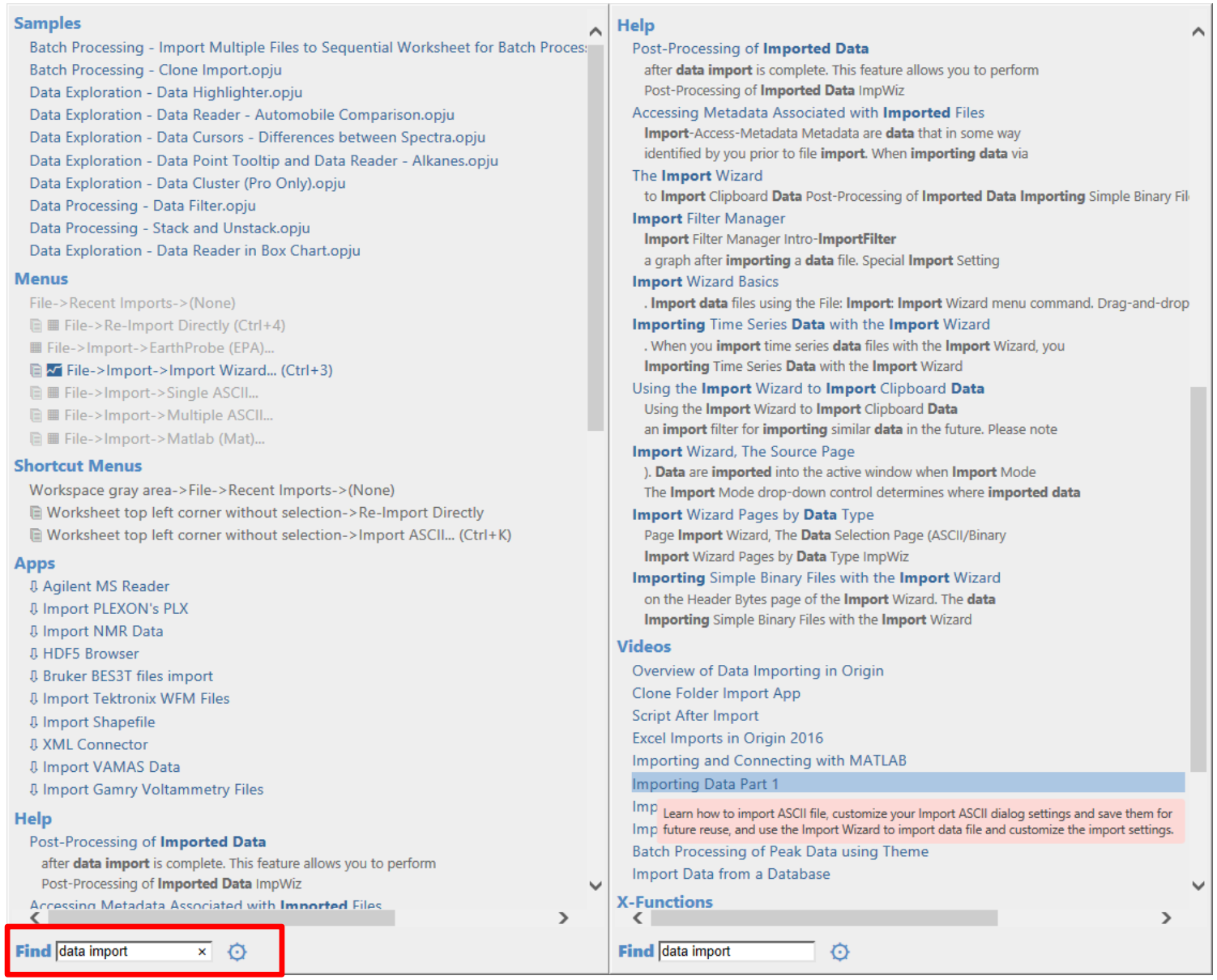
App Center


App Center
New
Popular
New and Popular
Search
Updates 2
Request App
Submit App
Tangent
OriginLab
Min. Version: Origin 2016 SR0
Downloads(90 days): 27531
(86)
Send Graphs to Word
OriginLab
Min. Version: Origin 2018b SR0
Downloads(90 days): 14776
(18)
Send Graphs to PowerPoint
OriginLab
Min. Version: Origin 2018b SR0
Downloads(90 days): 12323
(11)
Paired Comparison Plot
OriginLab
Min. Version: Origin 2020 SR0
Downloads(90 days): 10703
(18)
Tangent
App Version:1.5
Draw a tangent line at selected point of a data plot.
Principal Component Analysis for...
OriginLab
Min. Version: OriginPro 2017 SR0
Downloads(90 days): 8426
(6)

Start Menu (F1)

Start Menu (F1)

- Search for relevant Menu entries, Apps, FAQs, Videos, and else by Keywords
- Click the red Origin icon or press F1 to open it.



Learning Center

Quick access to examples & resources

- Graph Samples & Analysis Samples
- Learning Resources (tutorials, videos, blog, etc.)
- Transfer User Files

Menu: Help-Learning Center or press F11

Scientific Graphing

Scientific Graphing:

Graphic Requirements for Academic Journals

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Type of Images

Bitmap image

The information of the image is stored in a grid of pixels.

Photographs, optical microscopy, and SEM, TEM, and AFM images.

File formats: TIFF, PNG, JPG, BMP, et al.

Example of bitmap image at original size and enlarged 300%

Vector graphics image

The information of the image is stored as a set of geometrical primitives, including points, lines, curves, and polygons.

Plots, graphs, chemical structures and reaction schemes, diagrams, and schematics.

File formats: EPS, PDF, PS, WMF, et al.

Example of vector graphics image at original size and enlarged 300%

Graphic Requirements

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ADVANCED MATERIALS

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  - Data for Production
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Graphic Requirements

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《ADVANCED MATERIALS》

- **Acceptable Formats**： TIFF, EPS, DOCX, PDF, WMF, XLSX, PPTX, JPG, PNG, et al.
- **File Type**：

  Bitmap images（e.g. photographs, electron microscope images）should be submitted as **TIFF** or **PNG** files.

  Vector graphics images（e.g. plots, line diagrams） should either be embedded into a Microsoft **Word** document or saved as a **PDF**, **PS**, or **EPS** file. If it can only be saved as a bitmap file, then it will need to be an extremely high-resolution (at least 1200 dpi) TIFF file.
- **Image Size**：

  Bitmap images: one-column images (300 dpi x 3.35 in), two-column images (300 dpi x 7.01 in).

  Vector graphics images saved as bitmap images: one-column images (1200 dpi x 3.35 in), two-column images (1200 dpi x 7.01 in).
- **Other Settings**： line width, plot symbol size, font size, etc.

Scientific Graphing:

Basic Graphing - Data Importing

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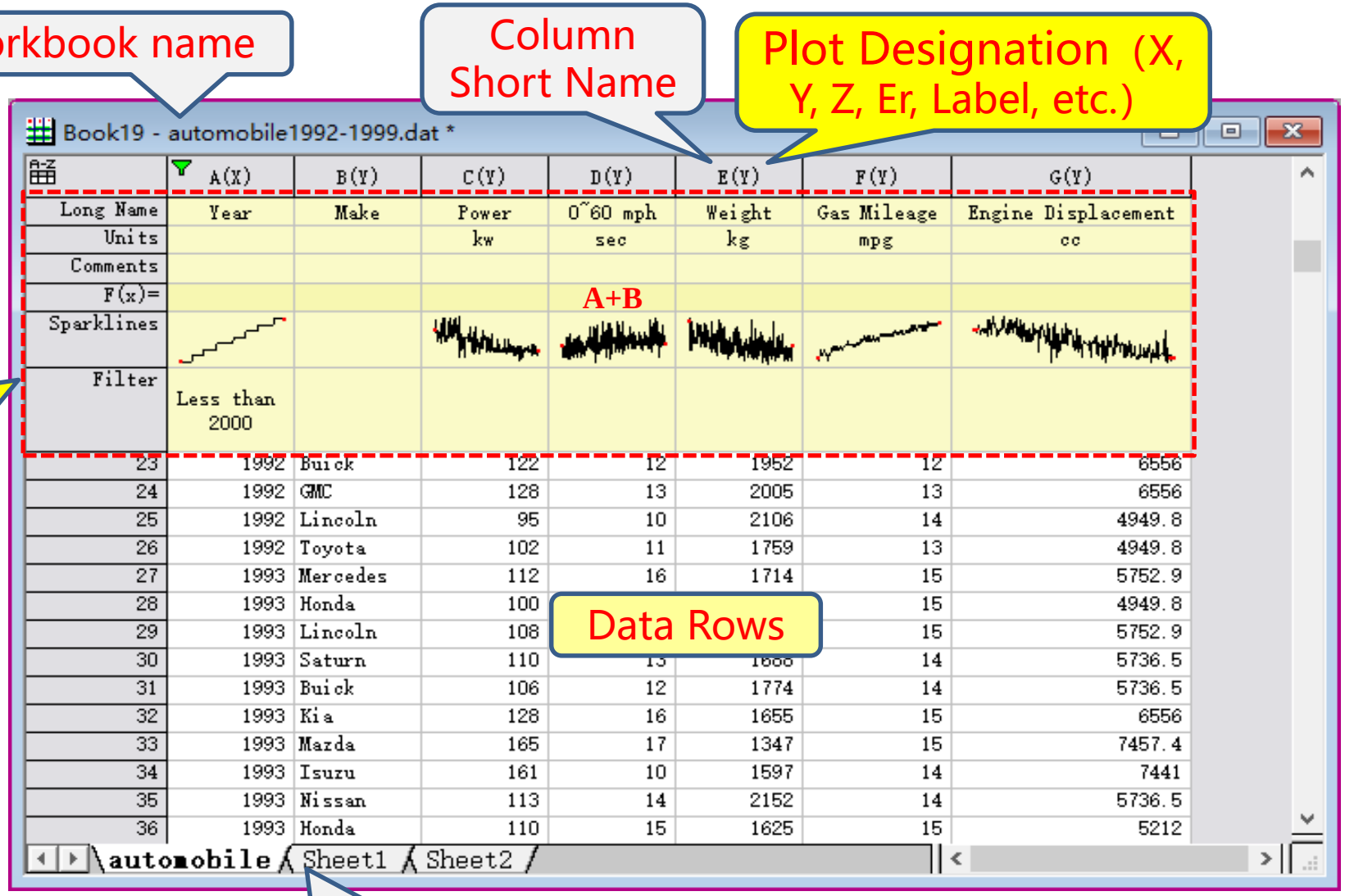
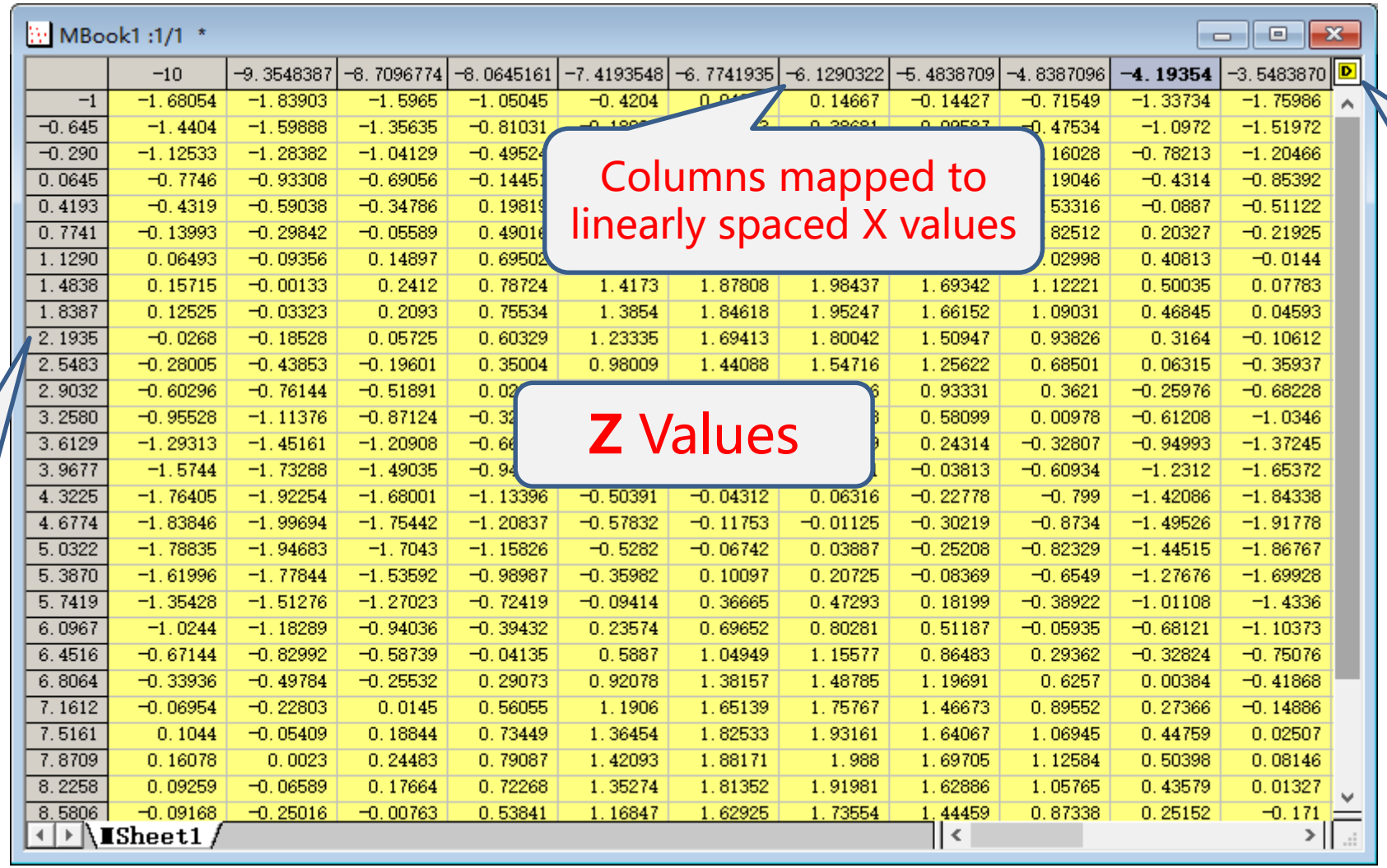
Workbook



	A(X)	B(Y)	C(Y)	D(Y)	E(Y)	F(Y)	G(Y)
Long Name	Year	Make	Power	0~60 mph	Weight	Gas Mileage	Engine Displacement
Units			kw	sec	kg	mpg	cc
Comments							
F(x)=				A+B			
Sparklines							
Filter	Less than 2000						
23	1992	Buick	122	12	1952	12	6556
24	1992	GMC	128	13	2005	13	6556
25	1992	Lincoln	95	10	2106	14	4949.8
26	1992	Toyota	102	11	1759	13	4949.8
27	1993	Mercedes	112	16	1714	15	5752.9
28	1993	Honda	100			15	4949.8
29	1993	Lincoln	108			15	5752.9
30	1993	Saturn	110			14	5736.5
31	1993	Buick	106	12	1774	14	5736.5
32	1993	Kia	128	16	1655	15	6556
33	1993	Mazda	165	17	1347	15	7457.4
34	1993	Isuzu	161	10	1597	14	7441
35	1993	Nissan	113	14	2152	14	5736.5
36	1993	Honda	110	15	1625	15	5212

Matrix Book



	-10	-9.3548387	-8.7096774	-8.0645161	-7.4193548	-6.7741935	-6.1290322	-5.4838709	-4.8387096	-4.19354	-3.5483870
-1	-1.68054	-1.83903	-1.5965	-1.05045	-0.4204		0.14667	-0.14427	-0.71549	-1.33734	-1.75986
-0.645	-1.4404	-1.59888	-1.35635	-0.81031					-0.47534	-1.0972	-1.51972
-0.290	-1.12533	-1.28382	-1.04129	-0.4952					16028	-0.78213	-1.20466
0.0645	-0.7746	-0.93308	-0.69056	-0.1445					19046	-0.4314	-0.85392
0.4193	-0.4319	-0.59038	-0.34786	0.1981					53316	-0.0887	-0.51122
0.7741	-0.13993	-0.29842	-0.05589	0.4901					82512	0.20327	-0.21925
1.1290	0.06493	-0.09356	0.14897	0.6950					02998	0.40813	-0.0144
1.4838	0.15715	-0.00133	0.2412	0.78724	1.4173	1.87808	1.98437	1.69342	1.12221	0.50035	0.07783
1.8387	0.12525	-0.03323	0.2093	0.75534	1.3854	1.84618	1.95247	1.66152	1.09031	0.46845	0.04593
2.1935	-0.0268	-0.18528	0.05725	0.60329	1.23335	1.69413	1.80042	1.50947	0.93826	0.3164	-0.10612
2.5483	-0.28005	-0.43853	-0.19601	0.35004	0.98009	1.44088	1.54716	1.25622	0.68501	0.06315	-0.35937
2.9032	-0.60296	-0.76144	-0.51891	0.02				0.93331	0.3621	-0.25976	-0.68228
3.2580	-0.95528	-1.11376	-0.87124	-0.3				0.58099	0.00978	-0.61208	-1.0346
3.6129	-1.29313	-1.45161	-1.20908	-0.6				0.24314	-0.32807	-0.94993	-1.37245
3.9677	-1.5744	-1.73288	-1.49035	-0.9				-0.03813	-0.60934	-1.2312	-1.65372
4.3225	-1.76405	-1.92254	-1.68001	-1.13396	-0.50391	-0.04312	0.06316	-0.22778	-0.799	-1.42086	-1.84338
4.6774	-1.83846	-1.99694	-1.75442	-1.20837	-0.57832	-0.11753	-0.01125	-0.30219	-0.8734	-1.49526	-1.91778
5.0322	-1.78835	-1.94683	-1.7043	-1.15826	-0.5282	-0.06742	0.03887	-0.25208	-0.82329	-1.44515	-1.86767
5.3870	-1.61996	-1.77844	-1.53592	-0.98987	-0.35982	0.10097	0.20725	-0.08369	-0.6549	-1.27676	-1.69928
5.7419	-1.35428	-1.51276	-1.27023	-0.72419	-0.09414	0.36665	0.47293	0.18199	-0.38922	-1.01108	-1.4336
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6.4516	-0.67144	-0.82992	-0.58739	-0.04135	0.5887	1.04949	1.15577	0.86483	0.29362	-0.32824	-0.75076
6.8064	-0.33936	-0.49784	-0.25532	0.29073	0.92078	1.38157	1.48785	1.19691	0.6257	0.00384	-0.41868
7.1612	-0.06954	-0.22803	0.0145	0.56055	1.1906	1.65139	1.75767	1.46673	0.89552	0.27366	-0.14886
7.5161	0.1044	-0.05409	0.18844	0.73449	1.36454	1.82533	1.93161	1.64067	1.06945	0.44759	0.02507
7.8709	0.16078	0.0023	0.24483	0.79087	1.42093	1.88171	1.988	1.69705	1.12584	0.50398	0.08146
8.2258	0.09259	-0.06589	0.17664	0.72268	1.35274	1.81352	1.91981	1.62886	1.05765	0.43579	0.01327
8.5806	-0.09168	-0.25016	-0.00763	0.53841	1.16847	1.62925	1.73554	1.44459	0.87338	0.25152	-0.171

Types of Data Files

① **ASCII Files**： ASCII files are generic format files that can be read or produced by most applications. There are three common ASCII data formats: .DAT, .CSV, and .TXT. Delimiters such as Spaces, tabs, or commas are used to control the separation between cell entries in a file.

② Binary Files： A binary file is a file stored in binary format. Unlike text files, a binary file is computer-readable but not human-readable.

③ Database Files： Origin supports importing data from many popular databases using ADO or ODBC.

④ Third-Party Files： Origin can import data from a wide variety of third-party file formats, such as NetCDF, pClamp, NI TDM, and so on.

Importing ASCII files

① Copy & Paste data.

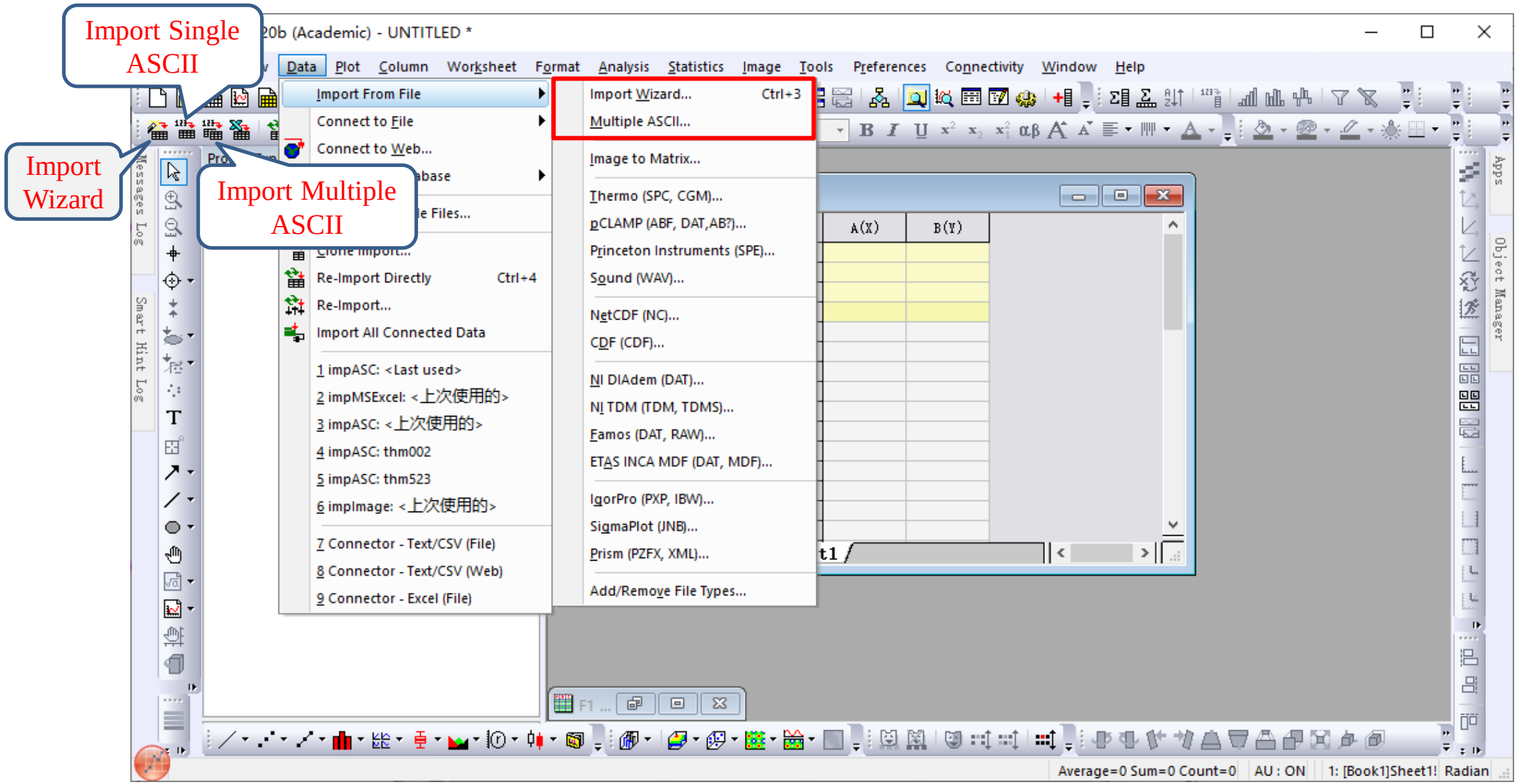
② Importing data by drag-and-drop.

③ Importing data using “**Import from File**” menu.

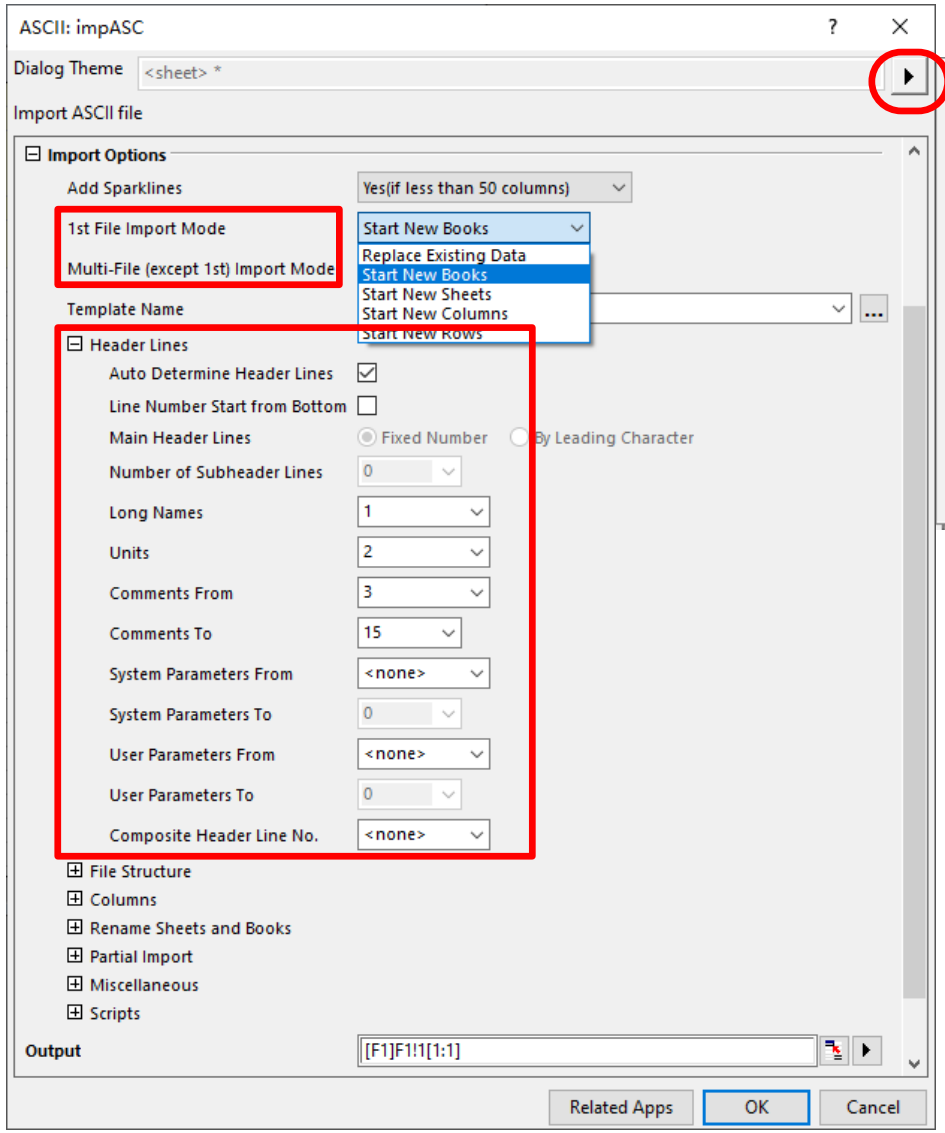
Import Single/ Multiple ASCII (Applicable for importing of ASCII files with more complex file structure, especially for the header lines. Customized settings can be saved as a **Dialog Theme** file for future use.)

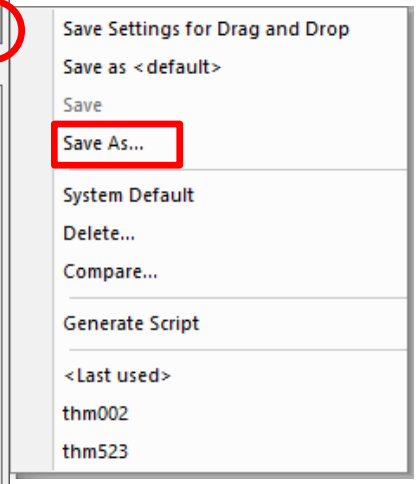
Import Wizard (Applicable for importing of ASCII files with more complex file structure. Customized settings can be saved to a **Filter** file for re-use.)

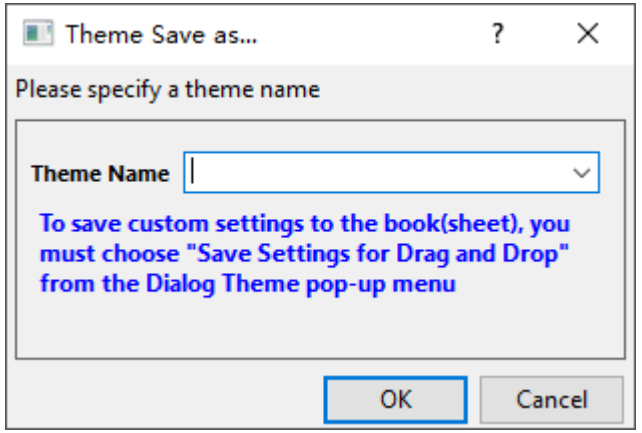
Importing ASCII files



Import Single/ Multiple ASCII







Main Header Lines	Some files -- particularly those generated by lab instrumentation -- will have header information in the beginning of the file that typically identifies the instrument, the operator, the date, the sample number, etc. These are the main header lines. You can specify how to determine the number of main header lines with this control.(**Note:** This control is available only when Auto Determine Header Lines checkbox is cleared.) • Fixed Number Select this radio box, and then enter the number of the main header lines in the following **Input Number** text box. • By Leading Character Select this radio box to enter the leading characters to detect the header lines which started with the characters you entered in the following **Input Leading Character** text box. This control is available since Origin 2018b.
Number of Subheader Lines	This control is available only when **Auto Determine Subheader Lines** checkbox are cleared. You can use this list to specify the number of subheader lines of your file.

Import Wizard

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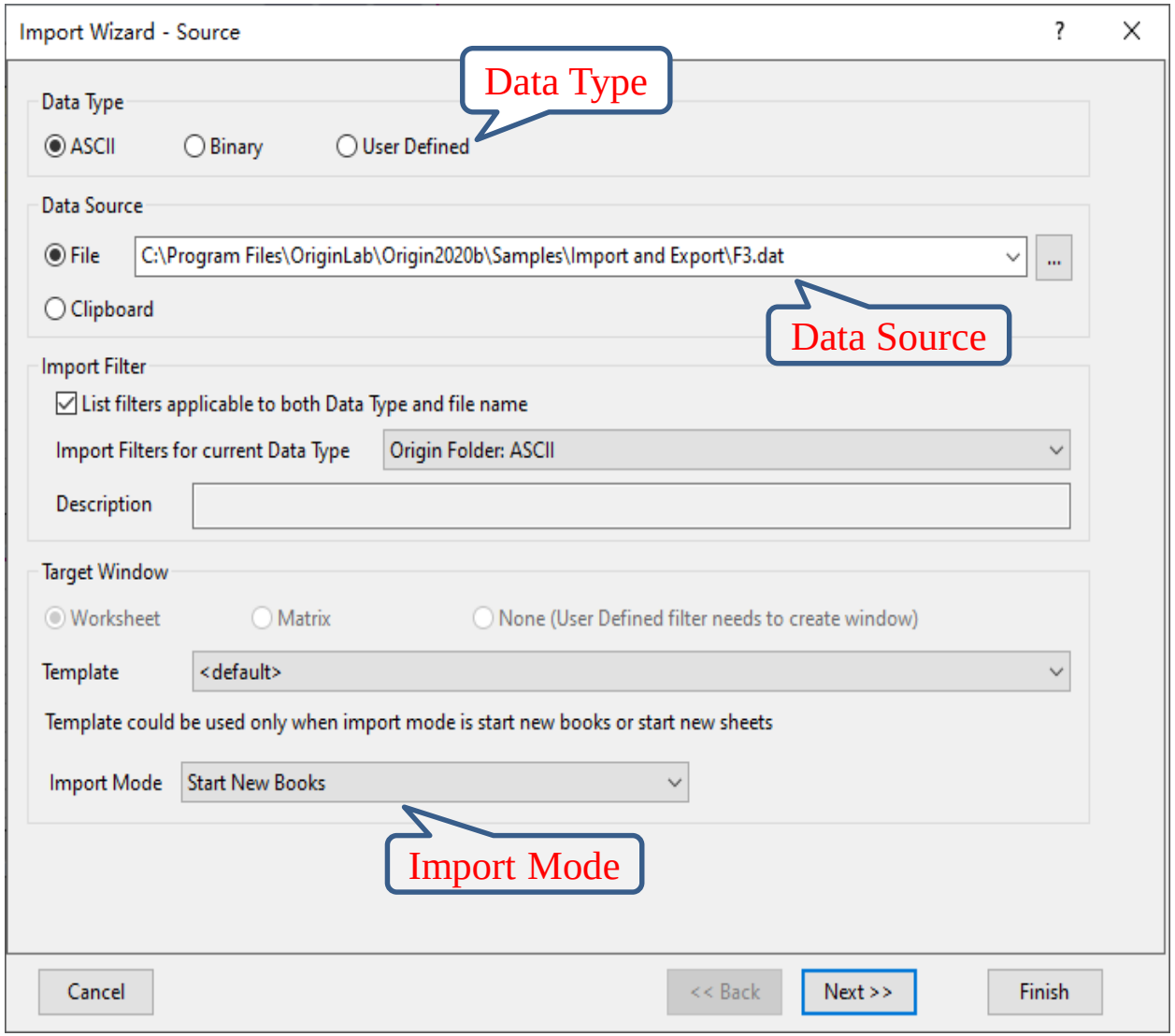

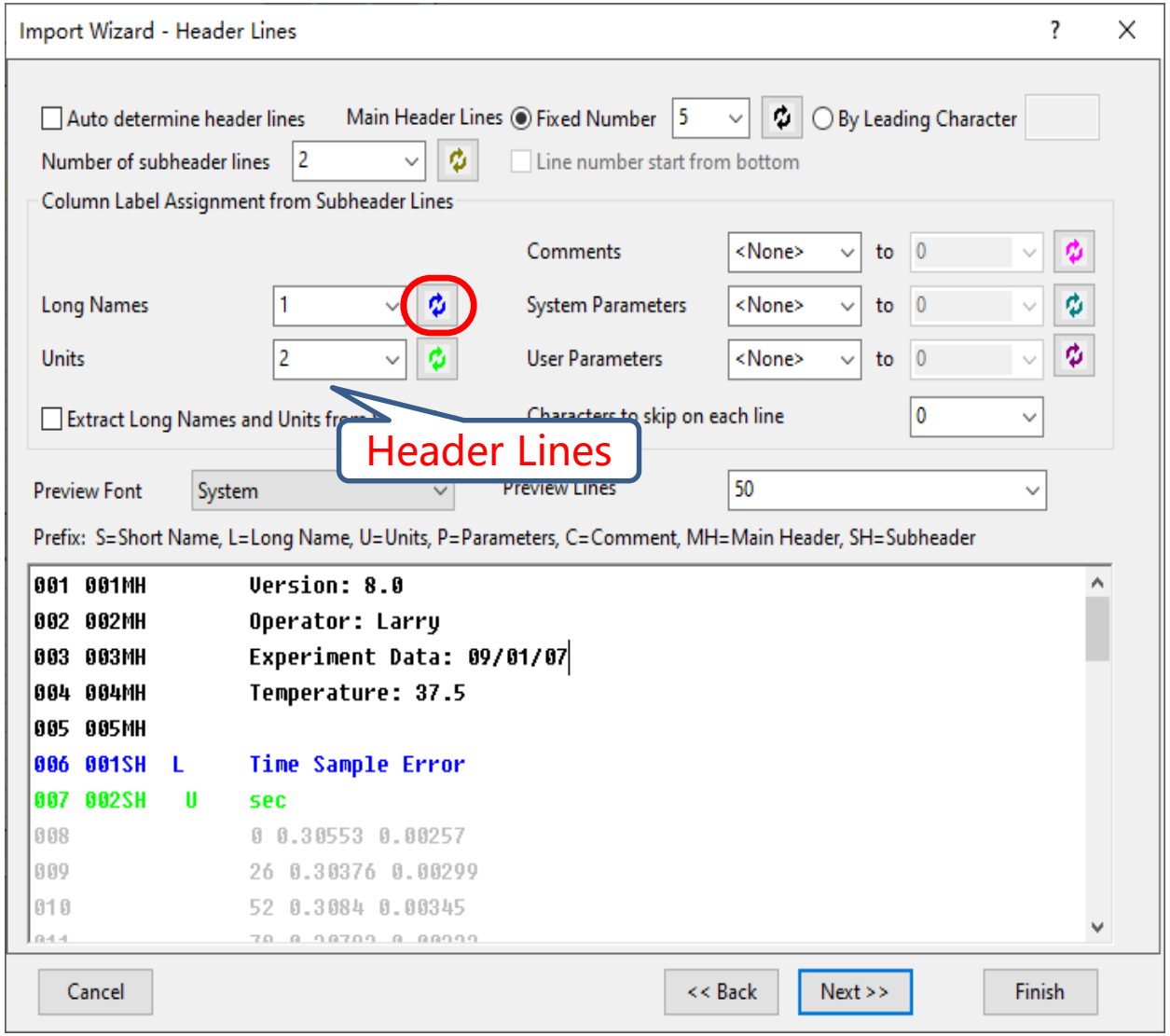

Import Wizard

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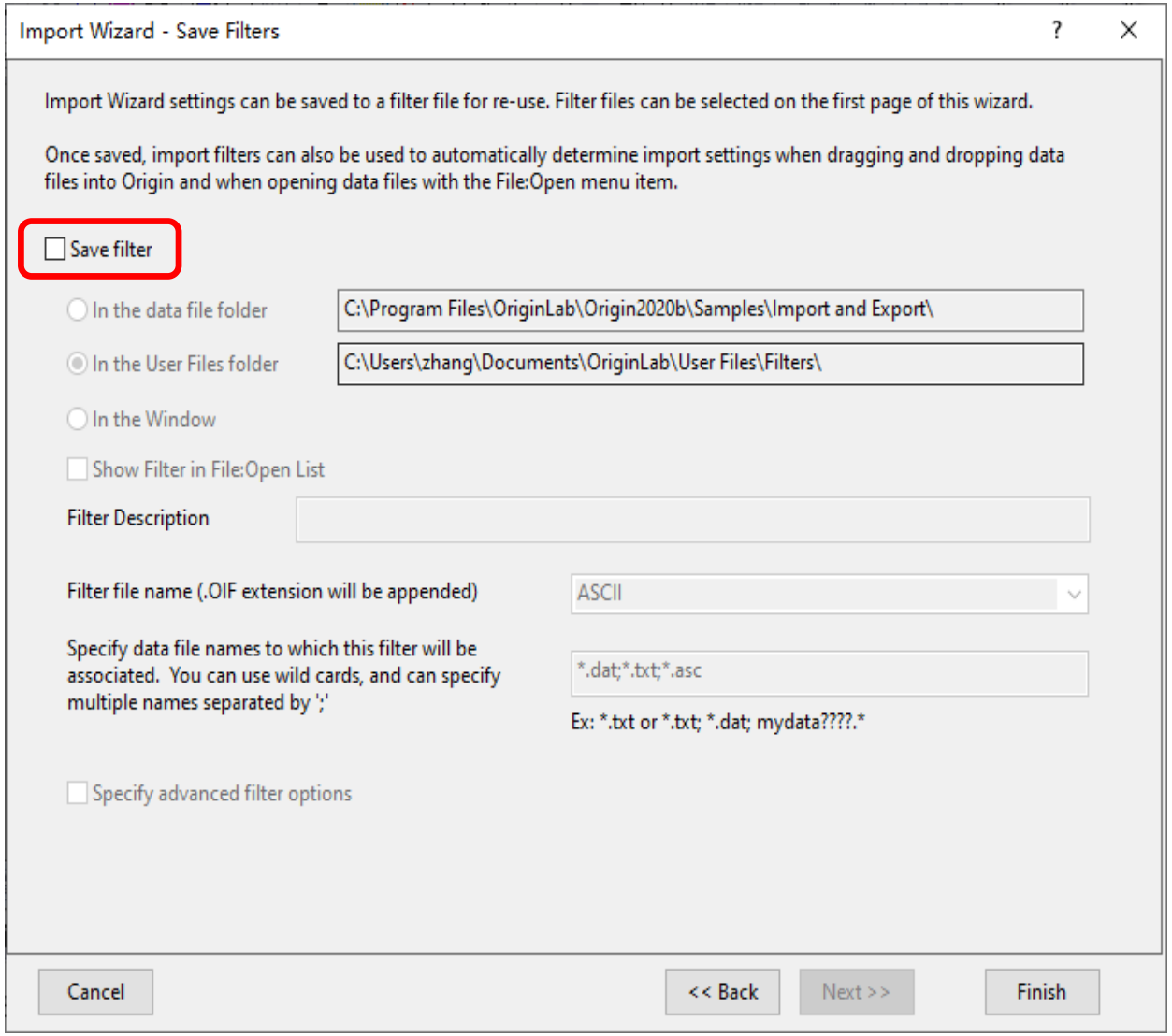
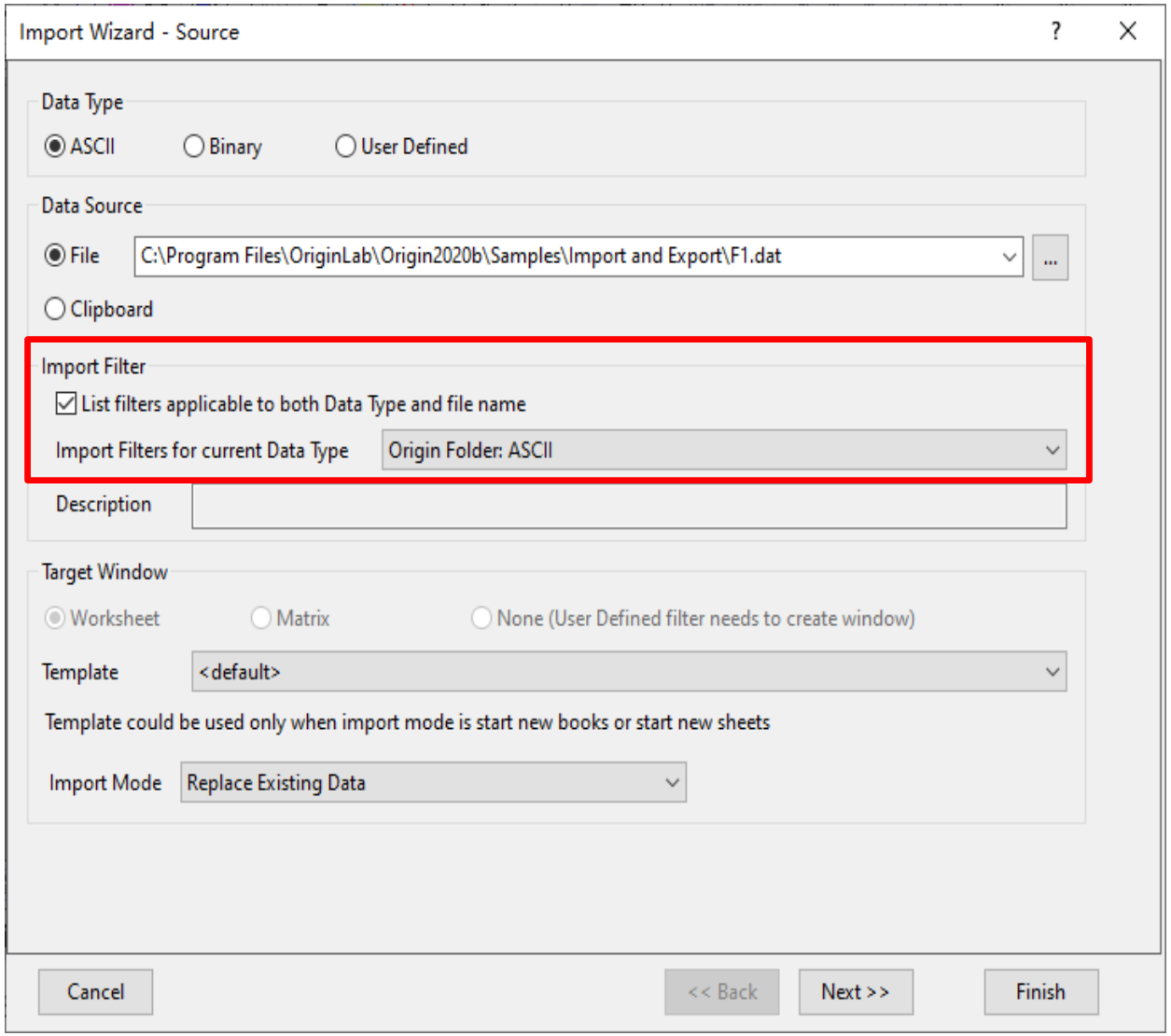




Data Connectors

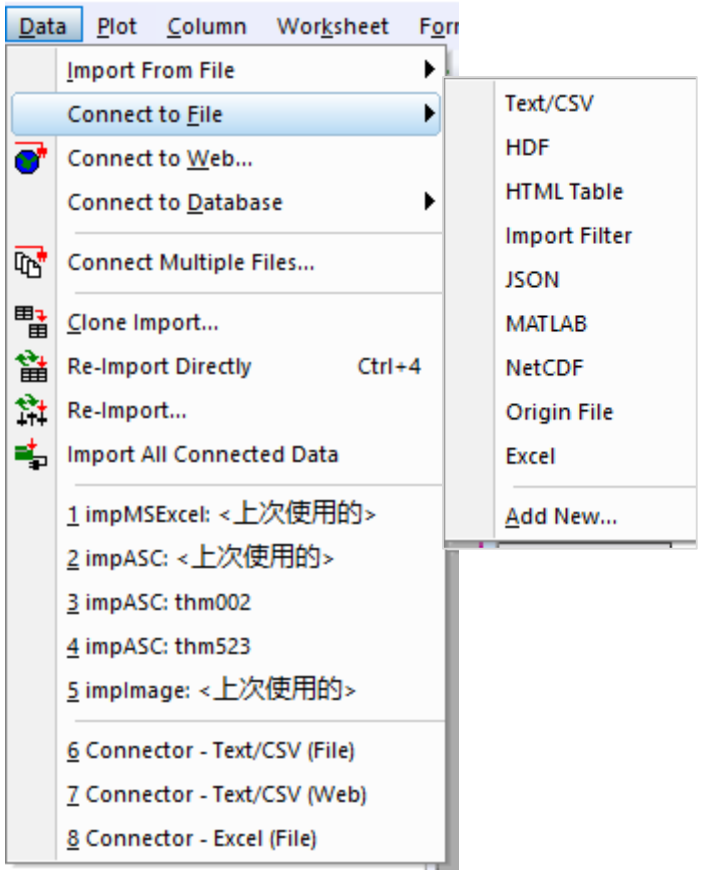
① Connect to File

Text/CSV, Excel, MATLAB, etc.

② Connect to Web

It builds connection between Origin worksheet and data file from an online path.

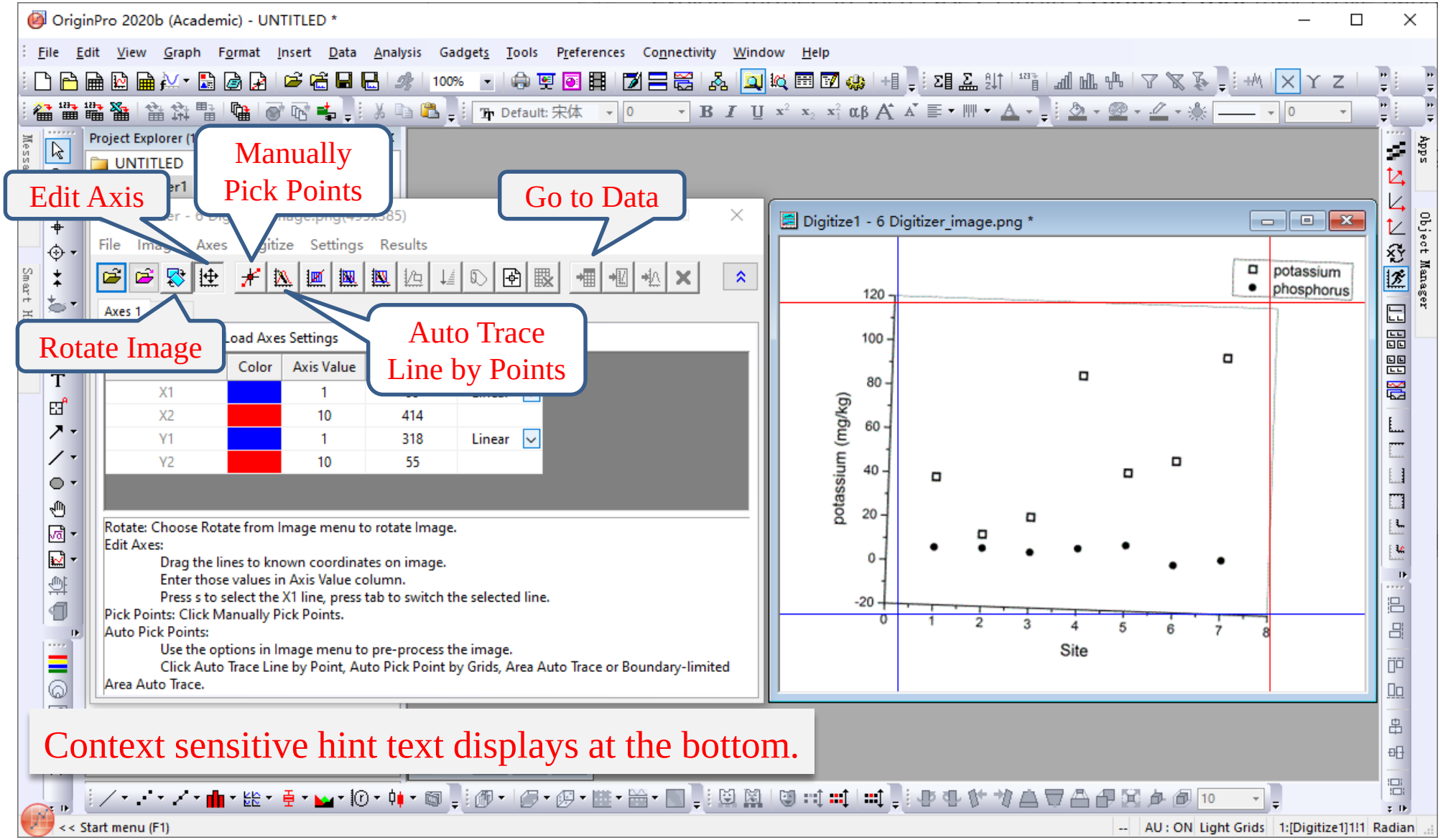
③ Connect to Database



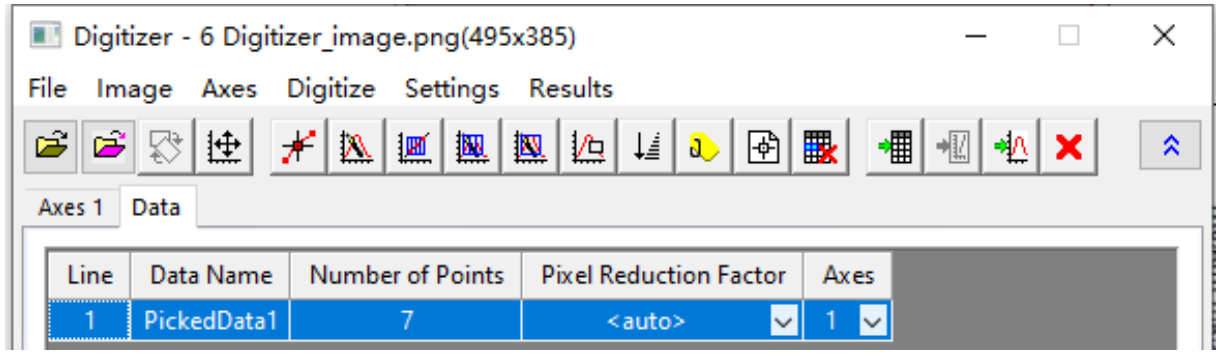
Connect v.s. Import

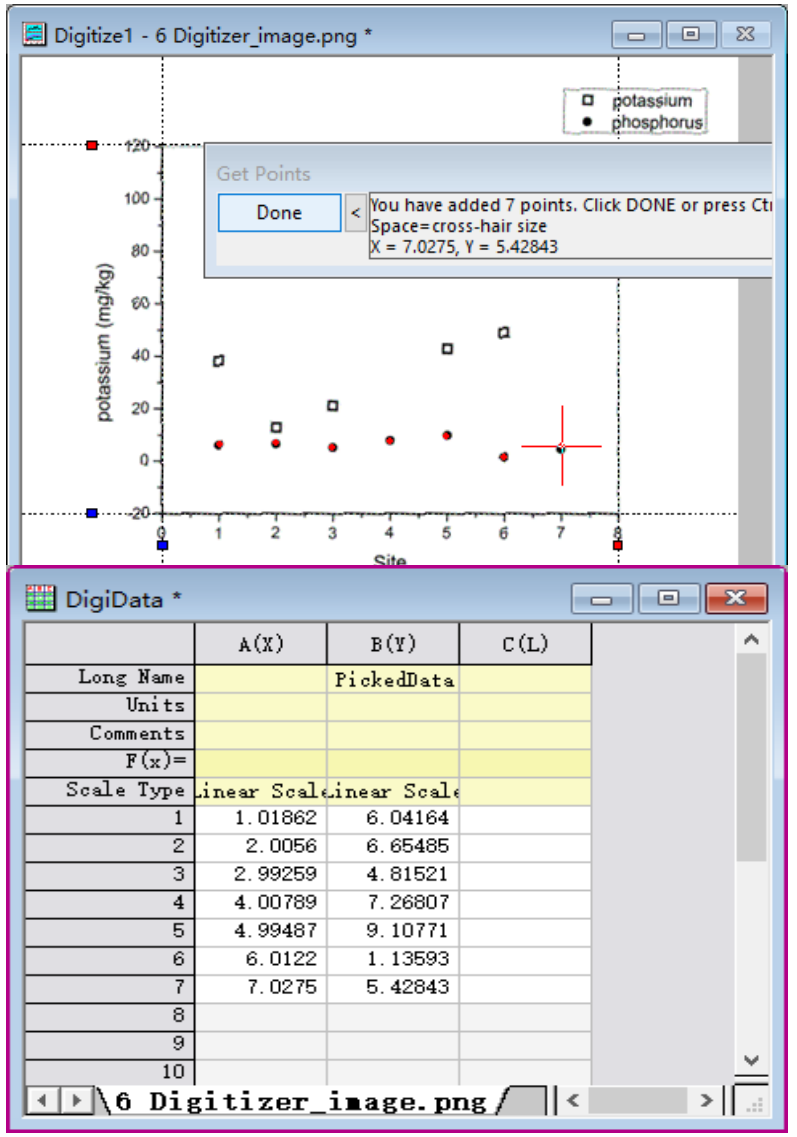
1. The Connector will lock imported data. This prevents accidentally changing the actual data.
2. The Connector will keep the connection to the source data, from the file or from the cloud.
3. Data imported using a Connector is typically not saved with project, making project files small. In 2020, files smaller than 500kB will be saved with the project but you will have control over default behaviors using LabTalk system variables.
4. For a text file, the CSV Connector can be used and it greatly improves the user experience, since for the majority of ASCII text files, you don't need to specify file structure and the process is entirely automatic. Compare this with the import dialogs where you need to specify details of the file structure and such things as date-time format, then save the settings as a Theme for future use.

Digitizer


OriginPro 2020b (Academic) - UNTITLED *
File Edit View Graph Format Insert Data Analysis Gadgets Tools Preferences Connectivity Window Help
Project Explorer
UNTITLED
Edit Axis
Manually Pick Points
Go to Data
Rotate Image
Auto Trace Line by Points
File Image Axes Digitize Settings Results
Axes 1
Load Axes Settings
Color
Axis Value
X1 1
X2 10 414
Y1 1 318 Linear
Y2 10 55
Rotate: Choose Rotate from Image menu to rotate Image.
Edit Axes:
Drag the lines to known coordinates on image.
Enter those values in Axis Value column.
Press s to select the X1 line, press tab to switch the selected line.
Pick Points: Click Manually Pick Points.
Auto Pick Points:
Use the options in Image menu to pre-process the image.
Click Auto Trace Line by Point, Auto Pick Point by Grids, Area Auto Trace or Boundary-limited Area Auto Trace.
Digitize1 - 6 Digitizer_image.png *
potassium
phosphorus
potassium (mg/kg)
Site
Context sensitive hint text displays at the bottom.
<< Start menu (F1)
AU : ON Light Grids
1:[Digitize1]1!1 Radian

Digitizer





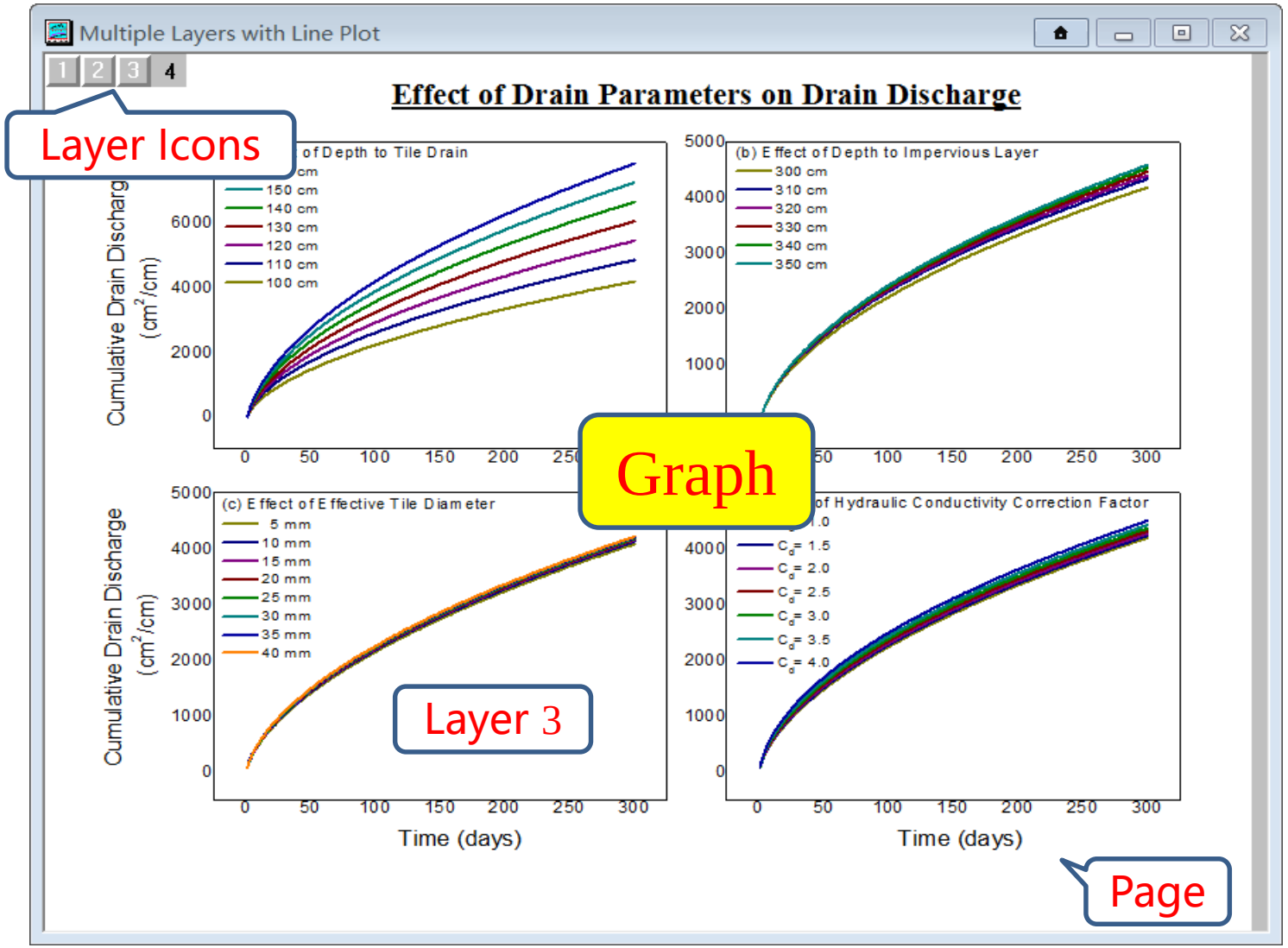
- Import most common image formats.
- Rotate image, as needed, and calibrate scales by picking start and end values.
- Pick points on curves manually or automatically.
- Modify the data points by reorder, delete them, or add label, as needed.
- Output the coordinate values of the selected data points into a worksheet or graph.

Scientific Graphing:

Basic Graphing – Graphing & Exporting

中国科学技术大学
University of Science and Technology of China

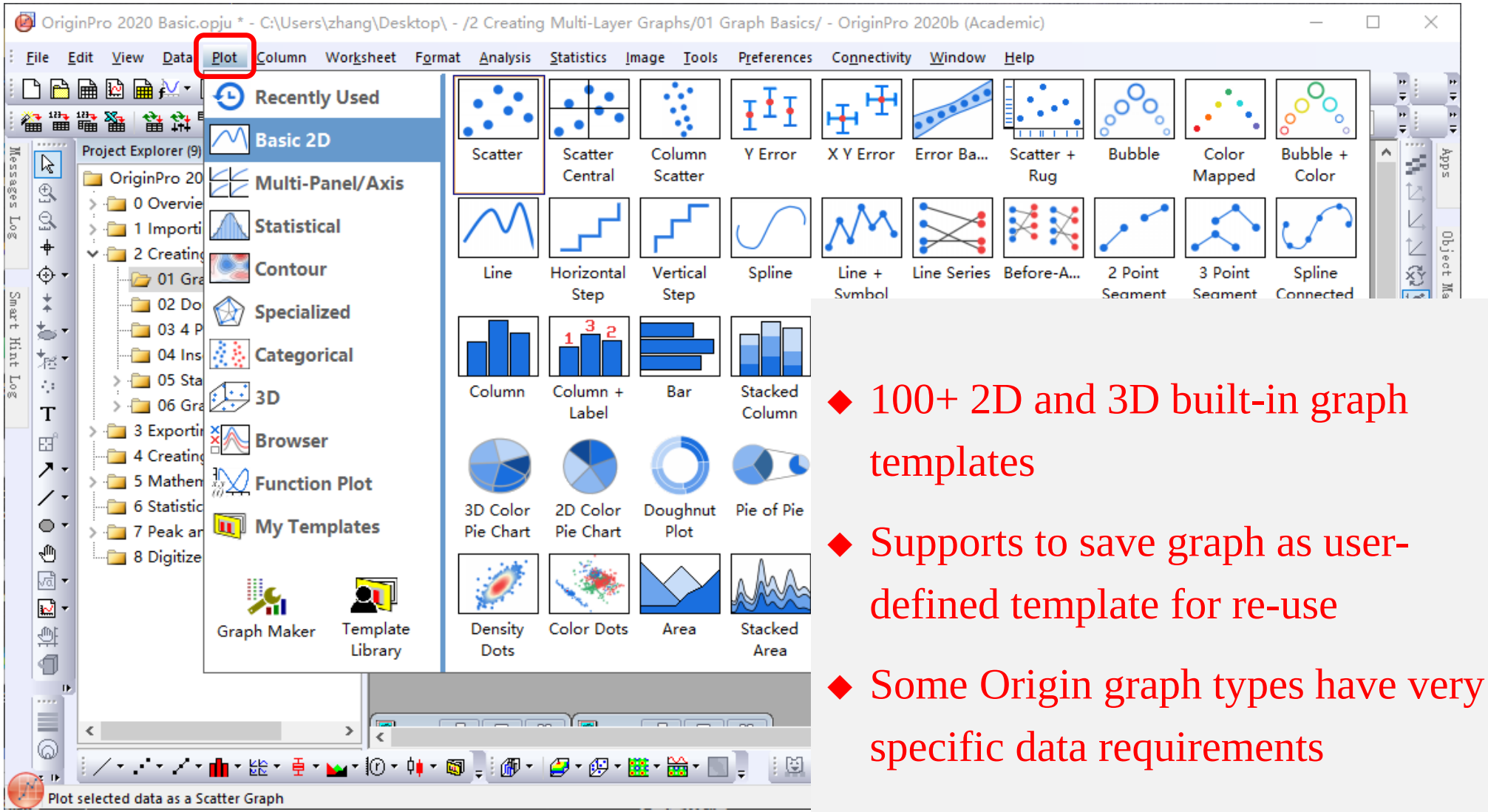
Graph Window



Hierarchical Structure

- **Page**: the white area of the graph window
- **Layer**: the page contains one or multiple layers
- **Data Plot**: each layer usually contains a set of axis, data plots, and the graph legend

Built-in Graph Template



- 100+ 2D and 3D built-in graph templates
- Supports to save graph as user-defined template for re-use
- Some Origin graph types have very specific data requirements

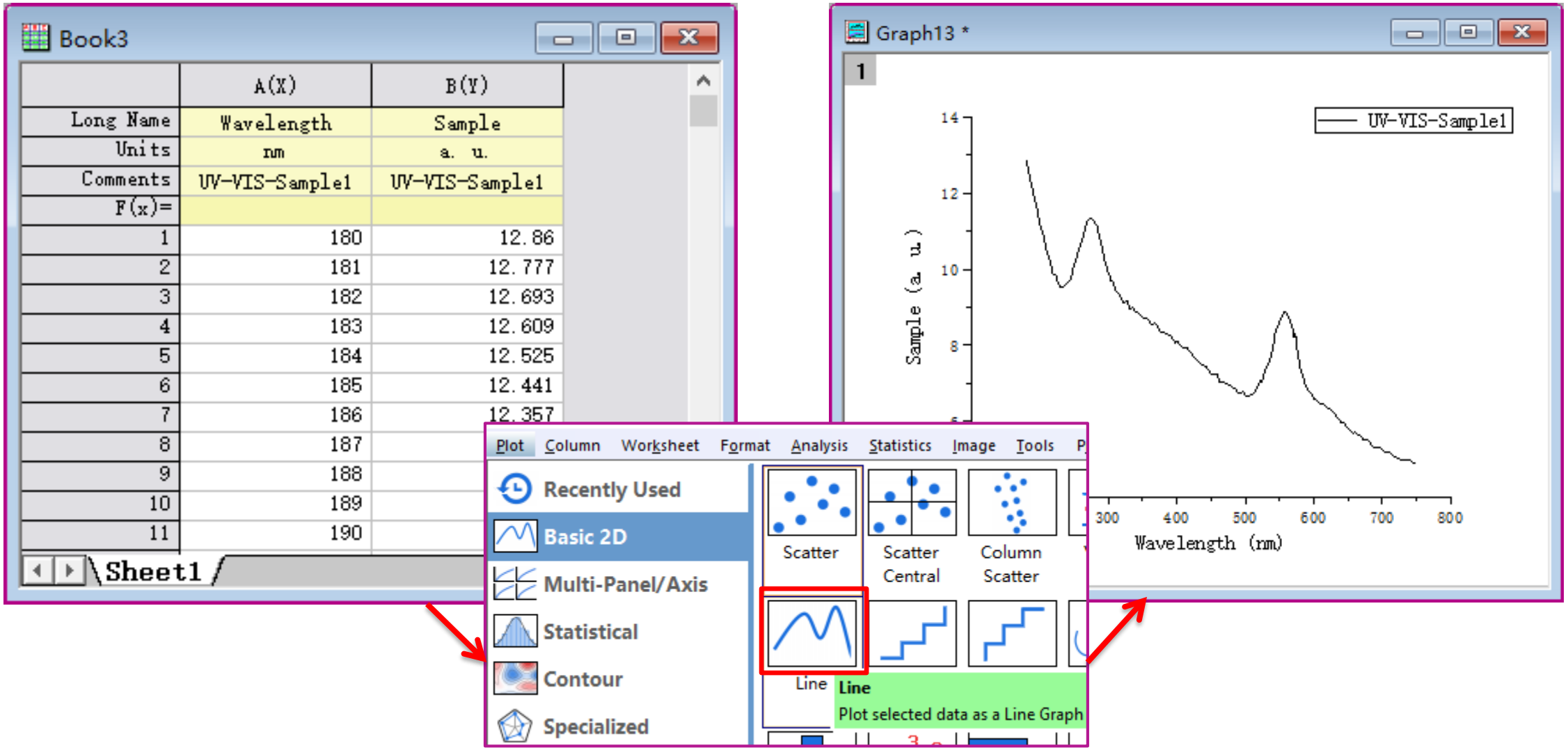
Basic Graphing

At a basic level, creating an Origin graph is a simple, two-step process:

1. **Select your data.** Origin uses the worksheet column **Plot Designation** to determine whether a column of values should be plotted against the X or Y axis or whether it should be used to create error bars, data labels, etc.

2. **Select the plot type.** A graph template is invoked that controls plot type and appearance (color, line and symbol styles, fill patterns, etc.). Your data are plotted using the template's saved settings.

Basic Graphing



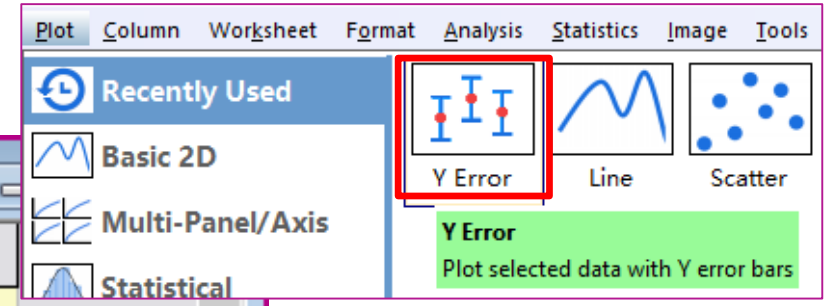
Basic Graphing

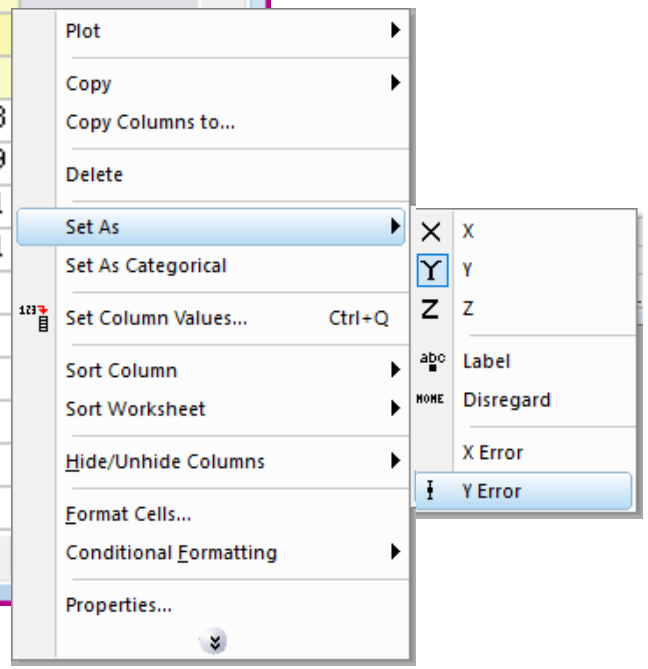
Set Plot Designation

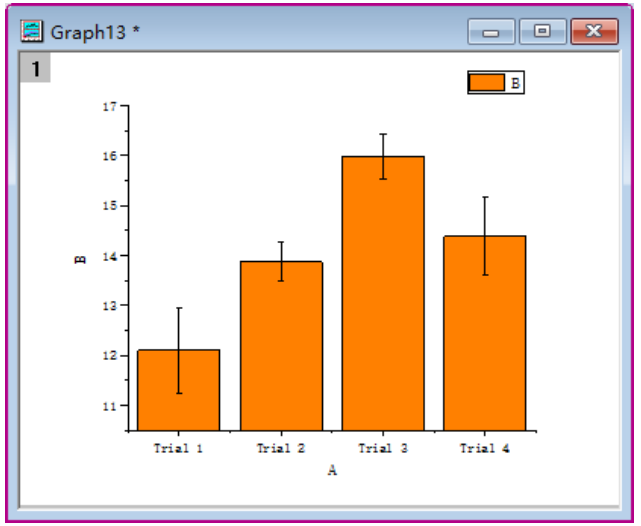
YError - Y Erro

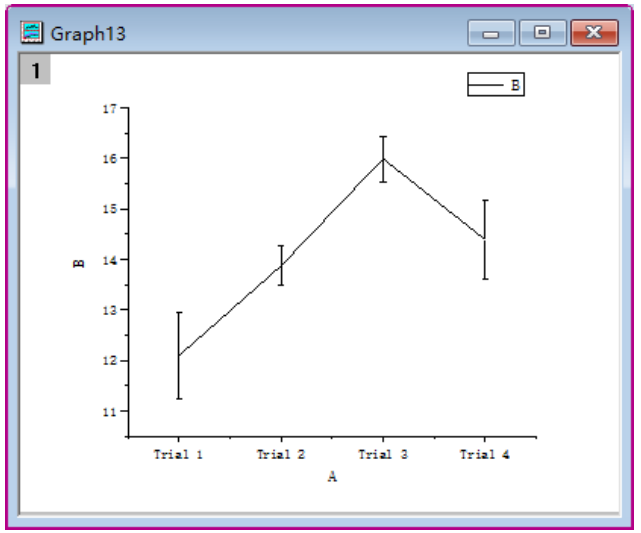
	A(X)	B(Y)	C(Y)
Long Name			
Units			
Comments			Y Error
F(x)=			
Sparklines			
1	Trial 1	12.099	0.86528
2	Trial 2	13.875	0.39649
3	Trial 3	15.993	0.44901
4	Trial 4	14.39	0.77041
5			
6			
7			
8			
9			
10			

Sheet1







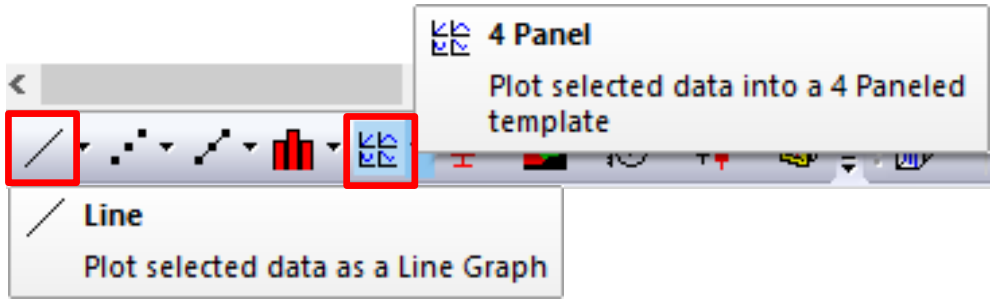


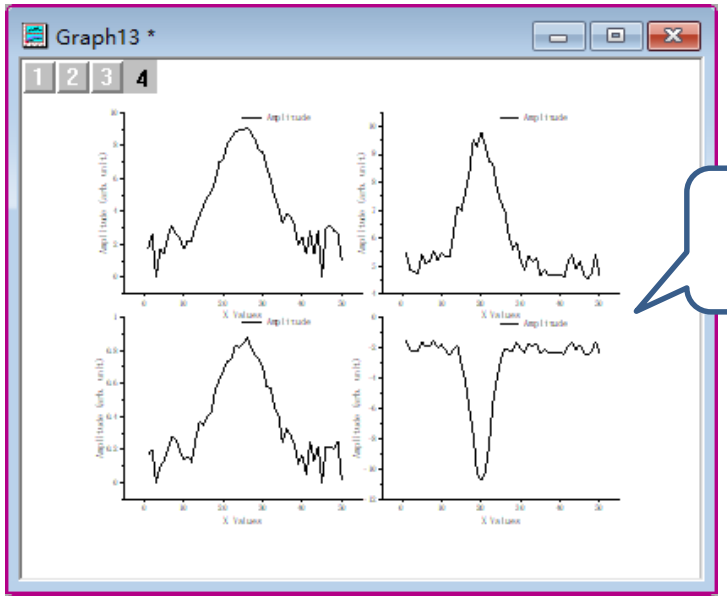
Basic Graphing

Book12 - Multiple Gaussians.dat

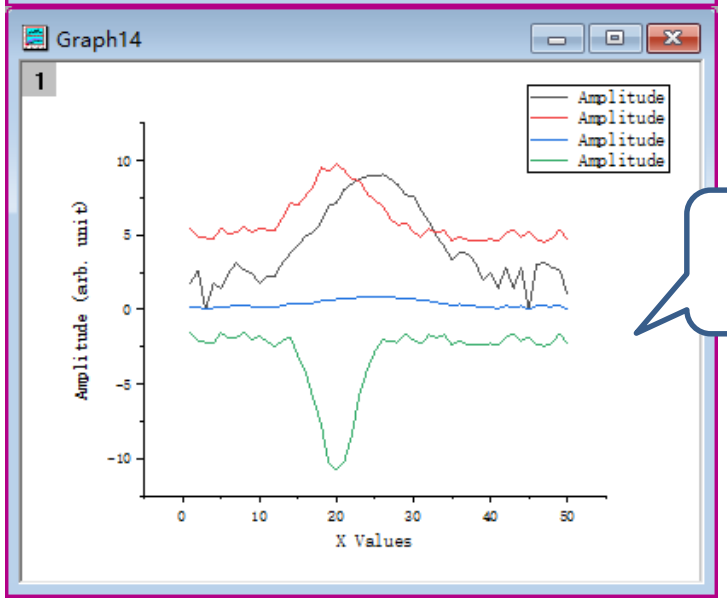
	A(X)	B(Y)	C(Y)	D(Y)	E(Y)
Long Name	X Values	Amplitude	Amplitude	Amplitude	Amplitude
Units		arb. unit	arb. unit	arb. unit	arb. unit
Comments					
F(x)=					
Sparklines					
1	1	1.73205	5.45537	0.16872	-1.54484
2	2	2.64575	4.86086	0.2006	-2.13974
3	3	0	4.80313	0	-2.19845
4	4	1.73205	4.73943	0.09676	-2.2645
5	5	1.41421	5.43763	0.13426	-1.57163
6	6	2.44949	5.08957	0.20184	-1.93109
7	7	3.16228	5.16686	0.27855	-1.87677
8	8	2.64575	5.56043	0.2619	-1.52674
9	9	2.44949	5.16695	0.19517	-1.99786
10	10	1.73205	5.4873	0.14247	-1.8078
11	11	2.23607	5.35075	0.15883	-2.15077

Multiple Gaussians





Multi-Panel Plot



Line Plot

Plot Setup Dialog

The **Plot Setup** dialog box is a flexible all-in-one plotting tool for creating graphs and manipulating the data plots in an existing graph:

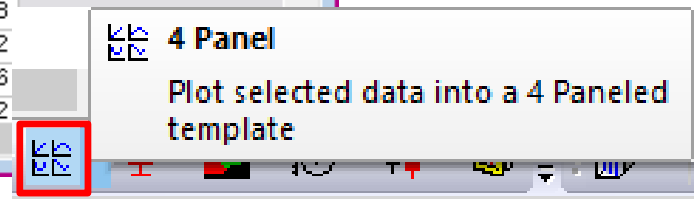
- ✓ Creating graphs without regard to Column Plot Designations
- ✓ Creating graphs from a combination of data sources: multiple worksheets, workbooks, matrixbooks, loose datasets, etc.
- ✓ Creating graphs combining multiple plot types.
- ✓ Adding, removing, replacing data plots.
- ✓ Grouping or ungrouping data plots.
- ✓ Reordering data plots in a layer or moving data plots to another layer.

Plot Setup Dialog

Book20 - automobile2000-2004.dat

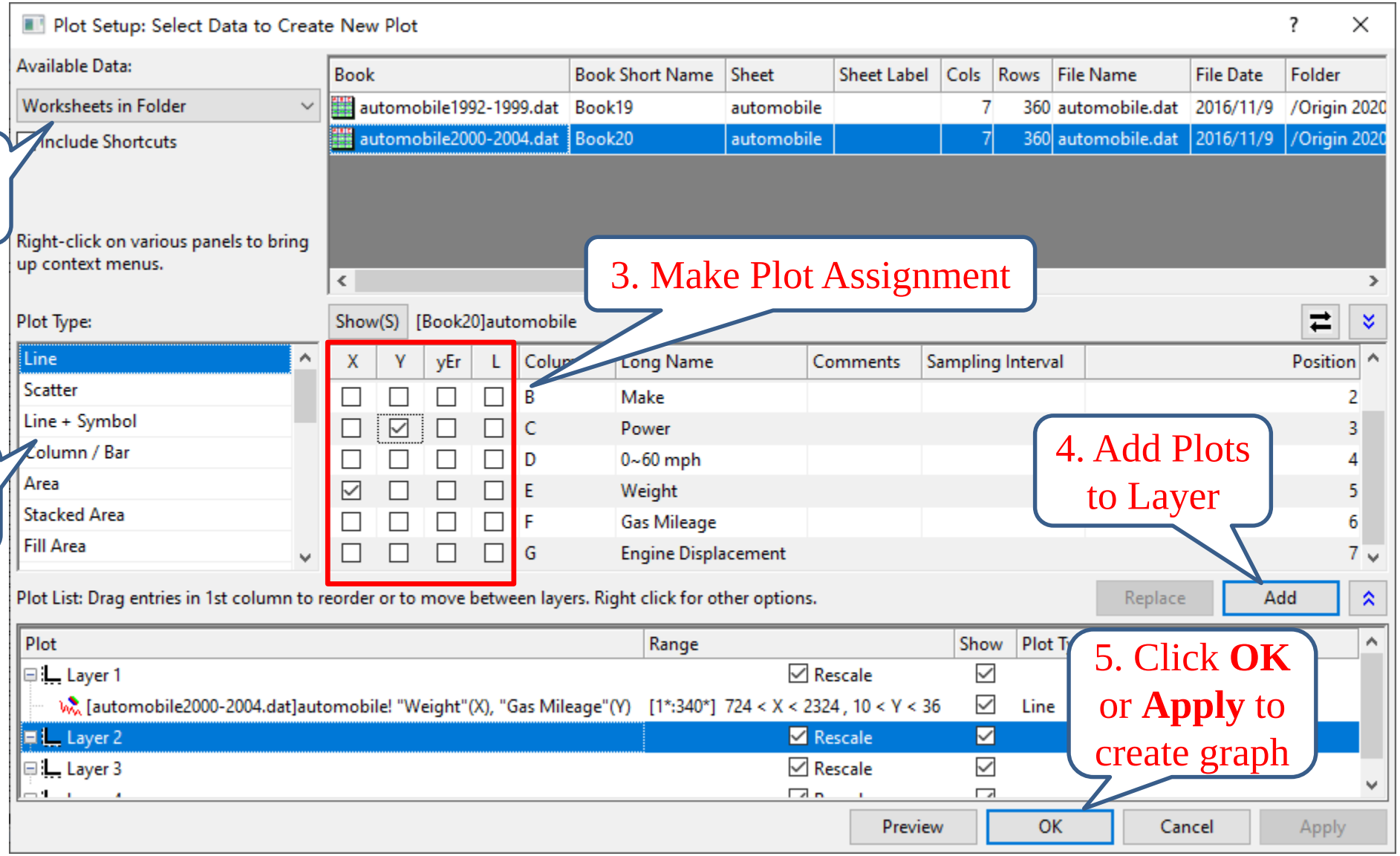
	A(X)	B(Y)	C(Y)	D(Y)	E(Y)	F(Y)	G(Y)
Long Name	Year	Make	Power	0~60 mph	Weight	Gas Mileage	Engine Displacement
Units			kw	sec	kg	mpg	cc
Comments							
F(x)=							
Sparklines							
Filter	Greater than 1999						
Categories		Unsorted					
229	2000	Kia	58	12	985	26	1606.2
230	2000	Lincoln	51	16	1129	25	1491.5
231	2000	Infiniti	59	16	1326	24	1901.2
232	2000	Saab	69	14	1412	24	1852.1
233	2000	Lexus	64	21	1786	26	1835.7
234	2000	Volvo	84	12	967	26	2835.5
235	2000	Kia	52	18	773	25	1475.1
236	2000	Suzuki	61	17	987	26	2212.6
237	2000	Saturn	67	14	929	25	2556.8
238	2000	Saturn	66	21	1343	25	1606.2
239	2000	Nissan	64	14	1338	24	2474.9
240	2000	Chrysler	33	19	1233	25	1589.8
241	2000	Mazda	69	16	970	24	1704.6
242	2000	Nissan	66	18	1007	26	2474.9

1589.8
1294.8
1606.2
1999.6
1606.2

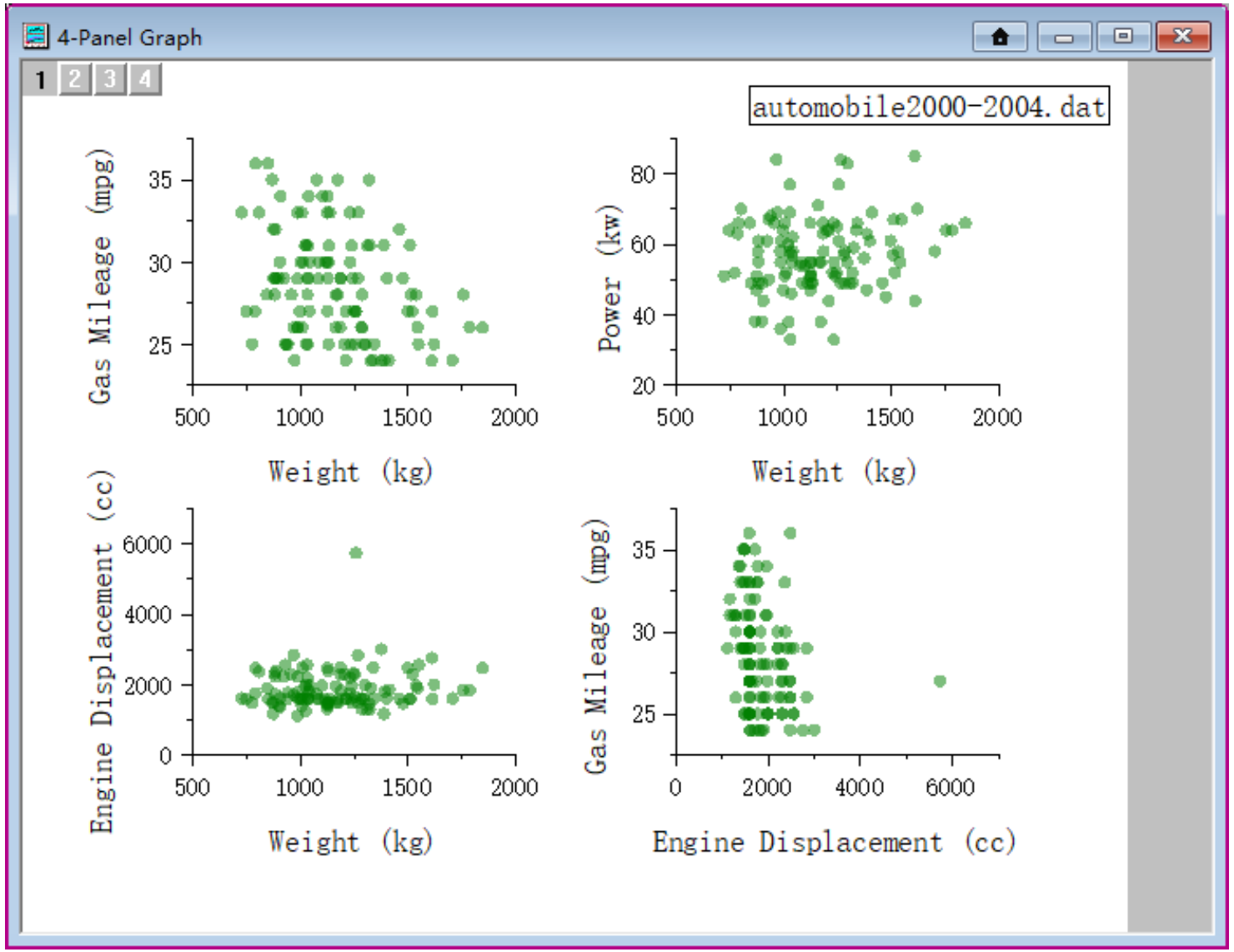


To create a graph with the **Plot Setup** dialog, make sure no data is selected in the active worksheet and choose the plot type that you want to create the graph.

Plot Setup Dialog



Plotting Using Plot Setup Dialog



Basic Graphing Methods

Method 1 - Preset Plot Designations

① Import your data and set the worksheet's column **Plot Designations**

② Select columns

③ Choose your plot type (graph template)

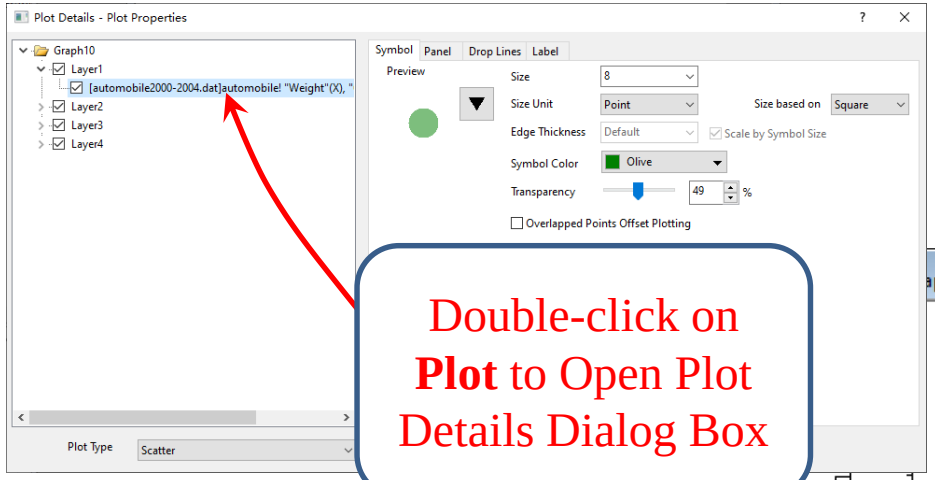
Method 2 - Using Plot Setup Dialog

① Import your data to the workbooks (worksheets)

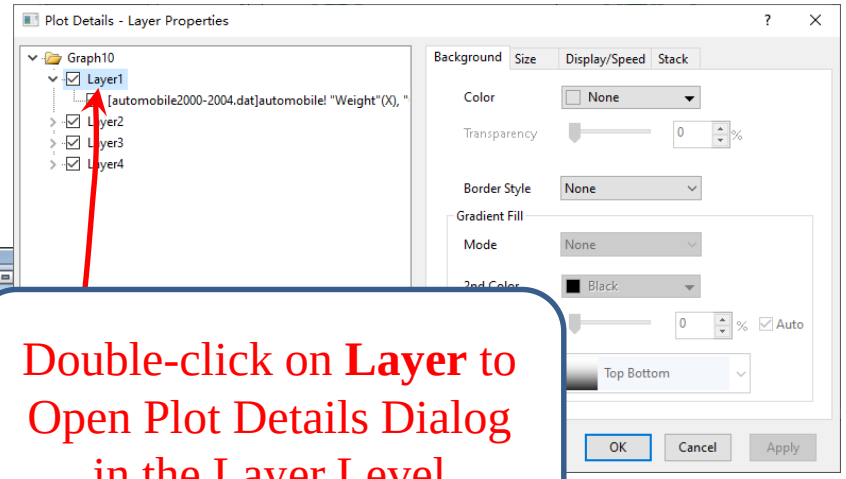
② Make sure nothing is selected in the workbooks, and then select a graph template to bring up **Plot Setup** dialog

③ Choose data source, re-set plot designation, and add plots to create a graph

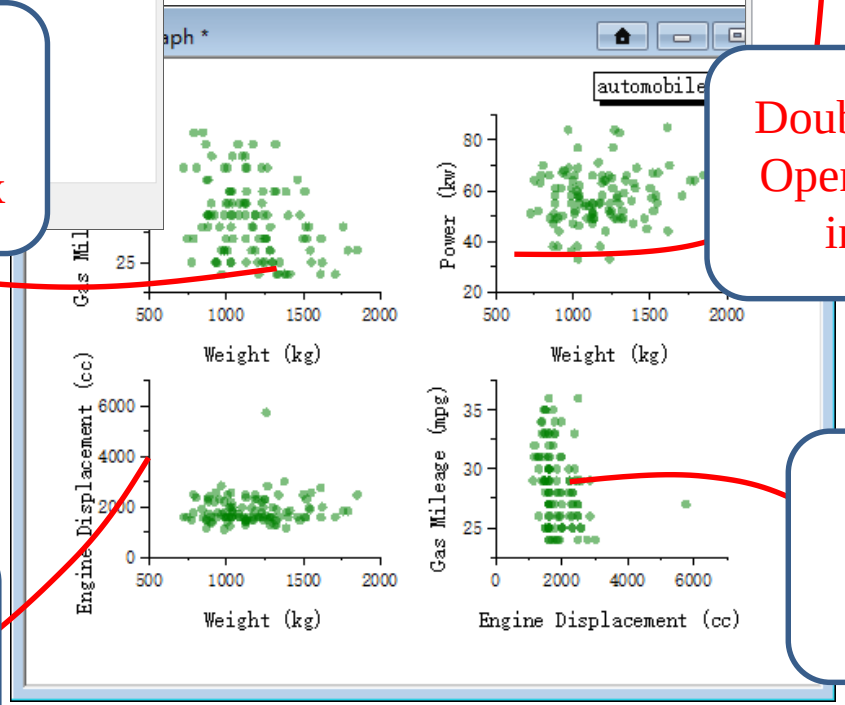
Graph Customization

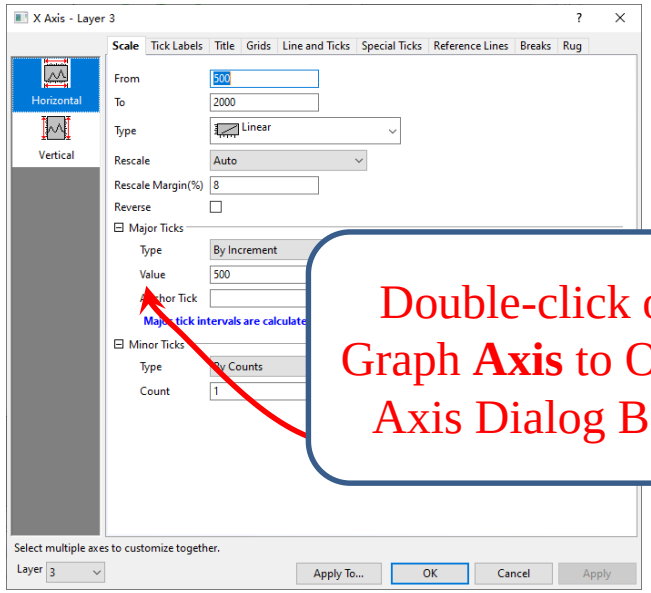


Double-click on **Plot** to Open Plot Details Dialog Box



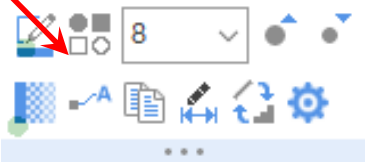
Double-click on **Layer** to Open Plot Details Dialog in the Layer Level





Double-click on Graph **Axis** to Open Axis Dialog Box

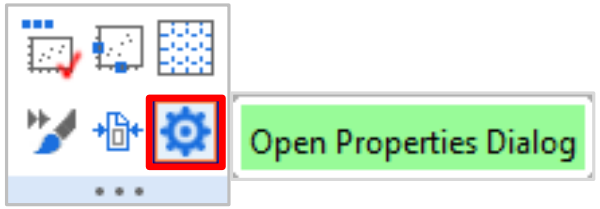
Single-click on Graph **Object** to Produce a Mini Toolbar for quick edits



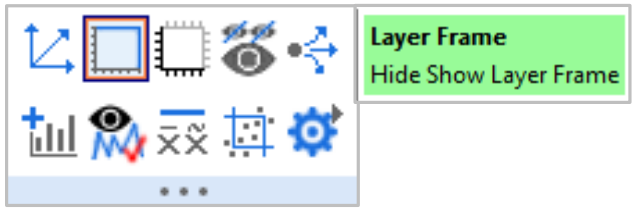
Mini Toolbars

Click on …

… an empty spot on the graph page

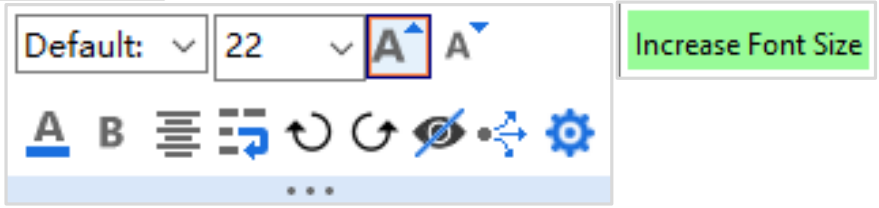


… an empty spot inside the graph layer



… on a data plot

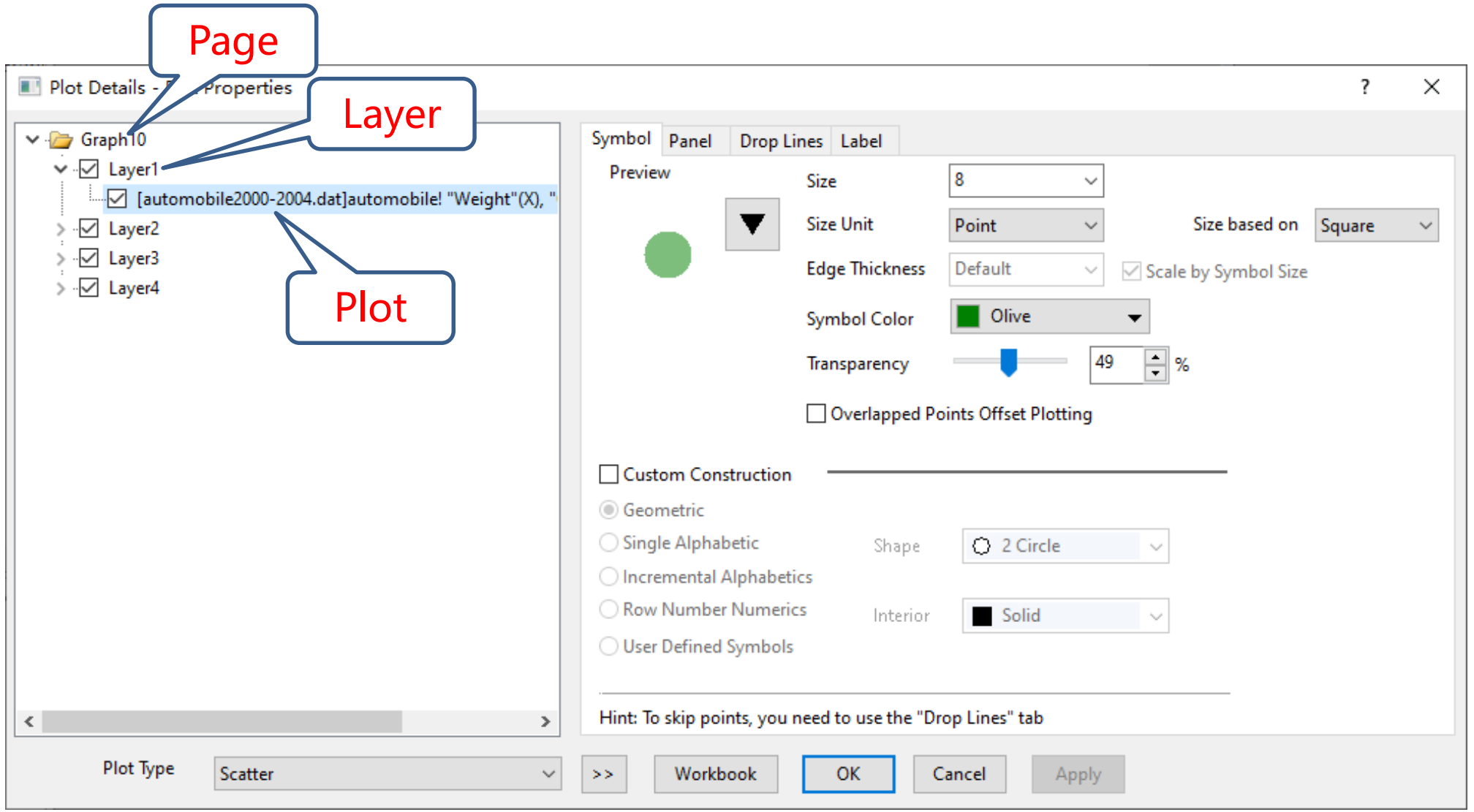
… on a text or drawn object



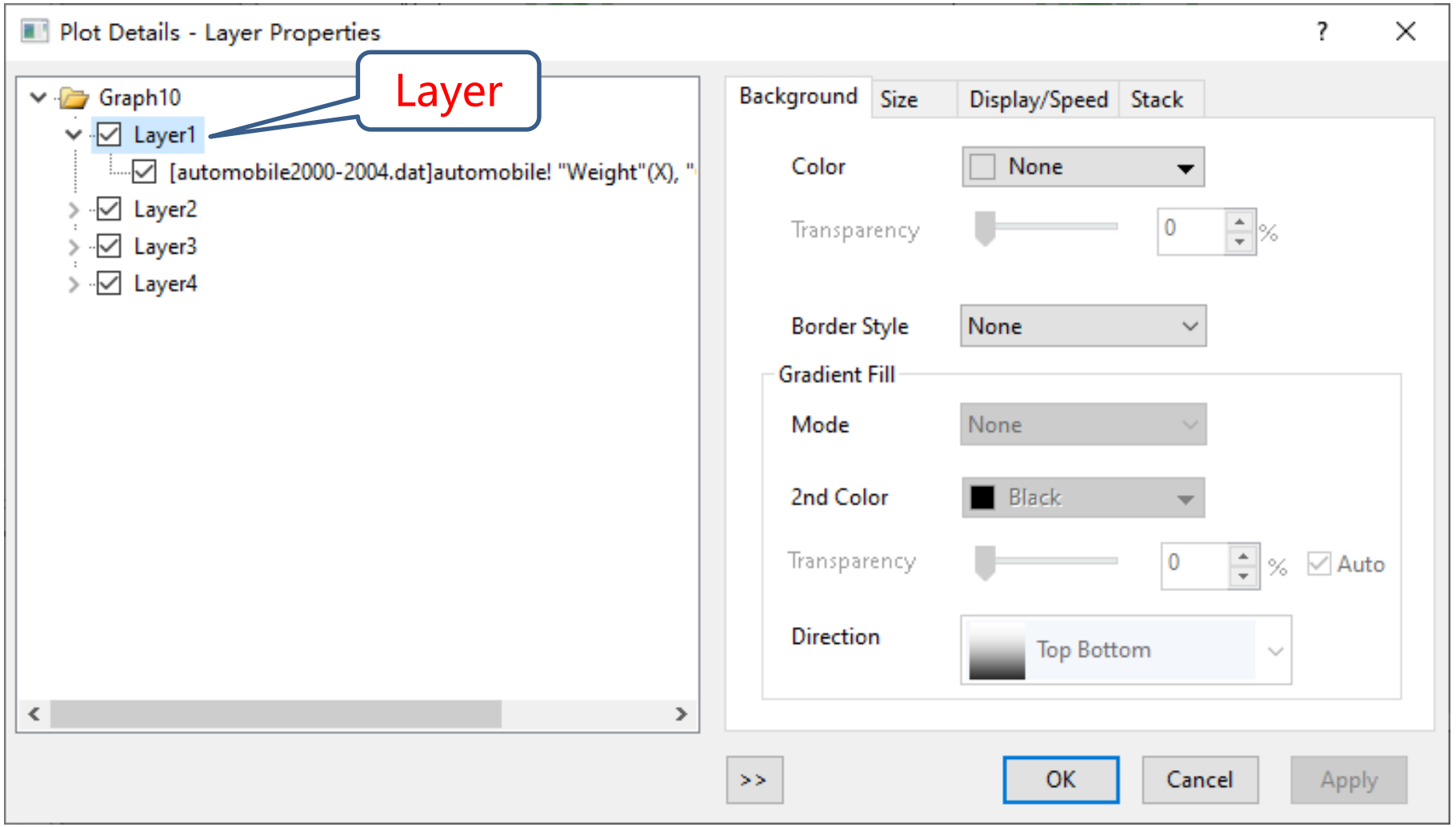
… on a graph axis or tick label

… to edit common properties of these objects

Plot Details Dialog Box

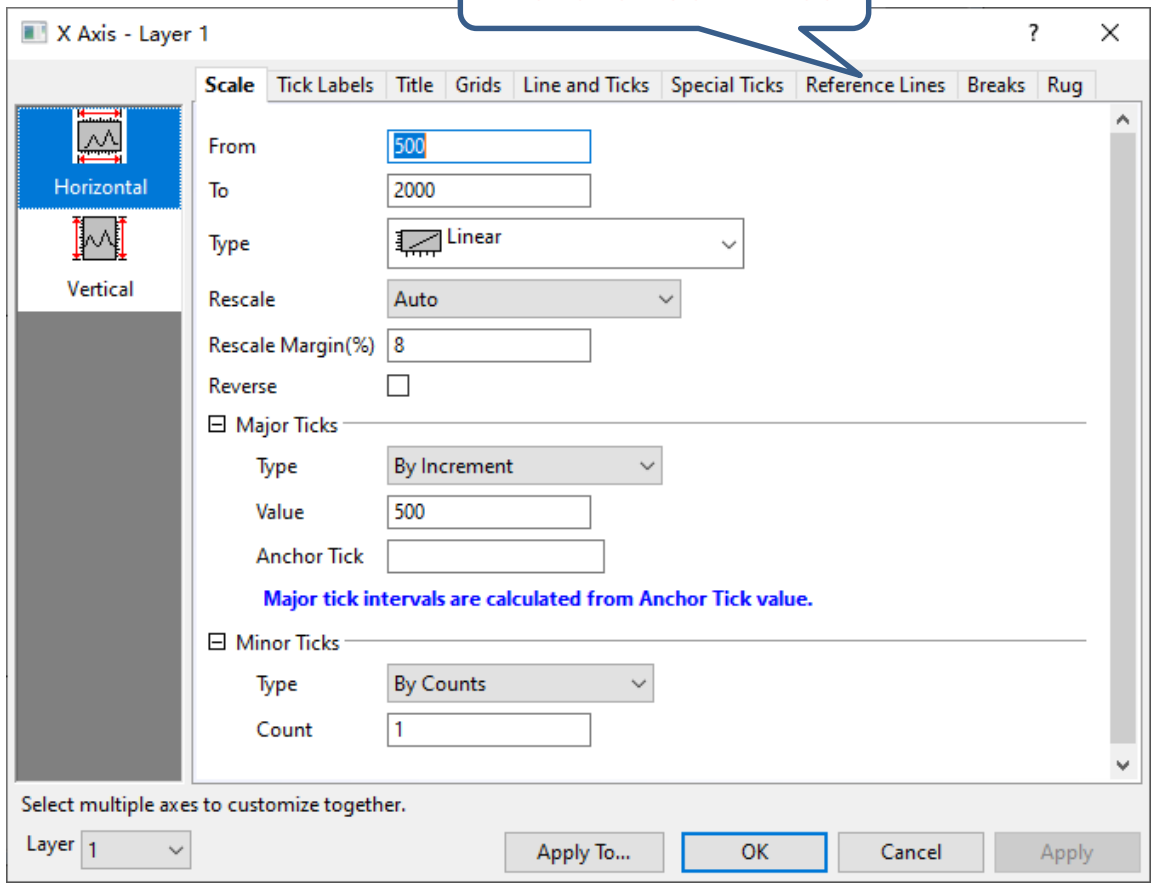


Plot Details Dialog Box

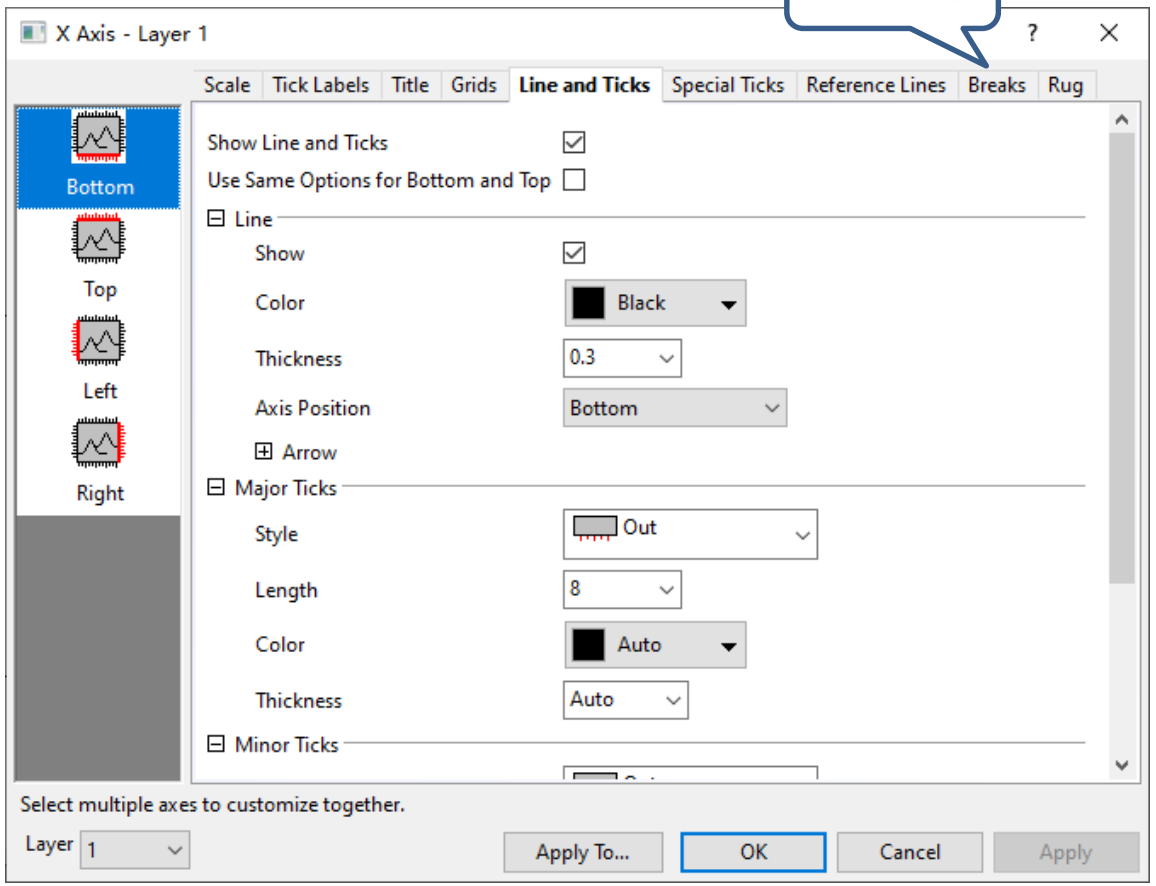


Axis Dialog Box

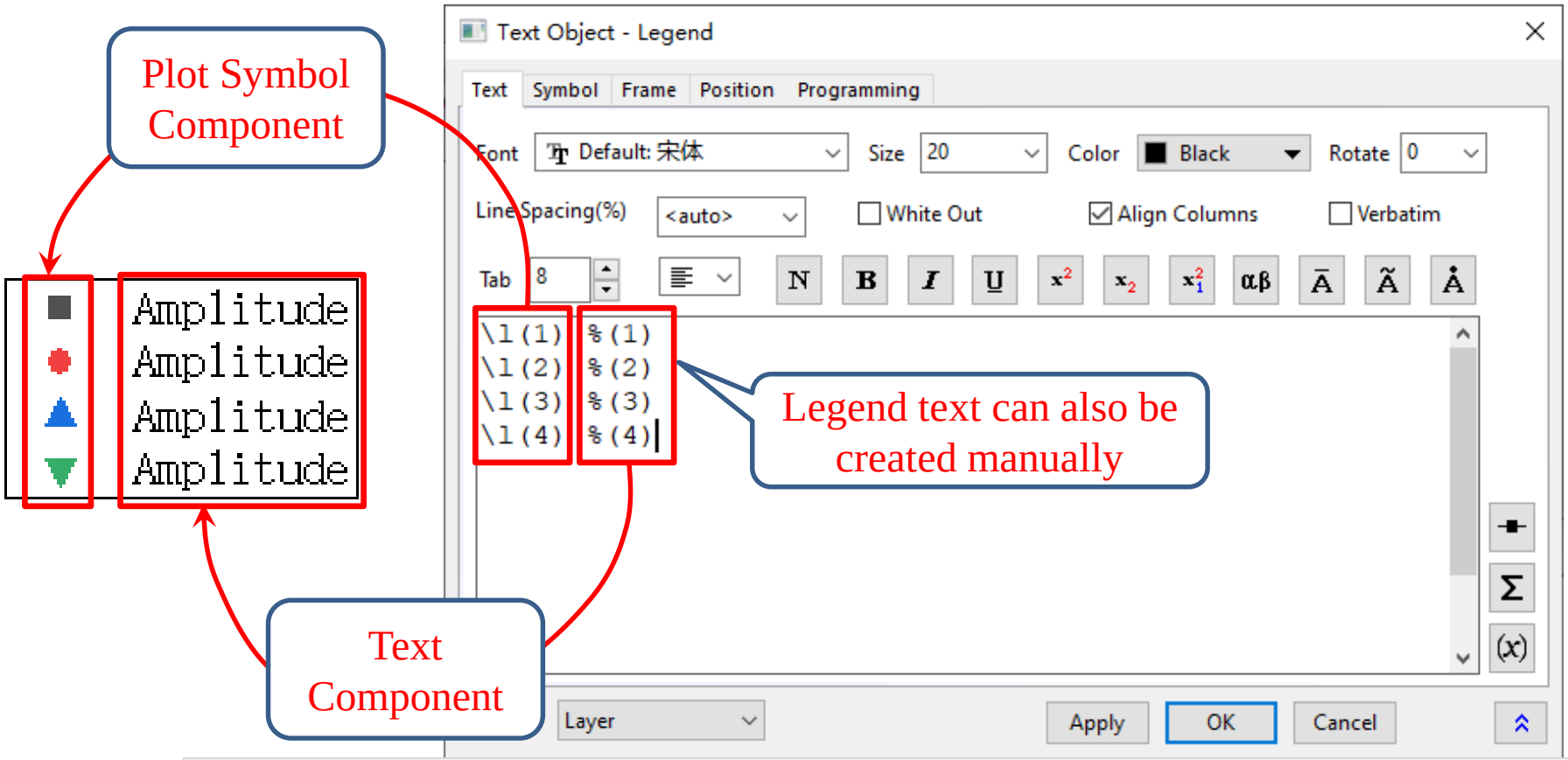
Reference Lines



Breaks



Graph legends



Plot Symbol Component: \L(*[LayerIndex.]*PlotIndex*[,PointIndex[,option]]*)

Text Component: %(*[LayerIndex.]*PlotIndex*[Axis[, @option]]*)

Note: Square brackets in the syntax model indicate an optional argument.

Graph legends

Legend of Specific Plot/Symbol

Legend Entry	Description
\l(1) %(1) \l(2) %(2)	Both lines are the legends for the data plots in the active layer. The first line is for the first plot, and the second line for the second plot. Based on the typical default specified in the **Legends/Titles** tab in the **Plot Details** dialog of the graph, the legend's label will look for **Comments** in the source data worksheet, if no **Comments** then **Long Name** will be used, and if no **Long Name**, **Short Name** is used.
\l(1.1) %(1.1) \l(2.1) %(2.1)	The first line is the legend for the first plot in the first layer, and the second line for the first plot in the second layer.

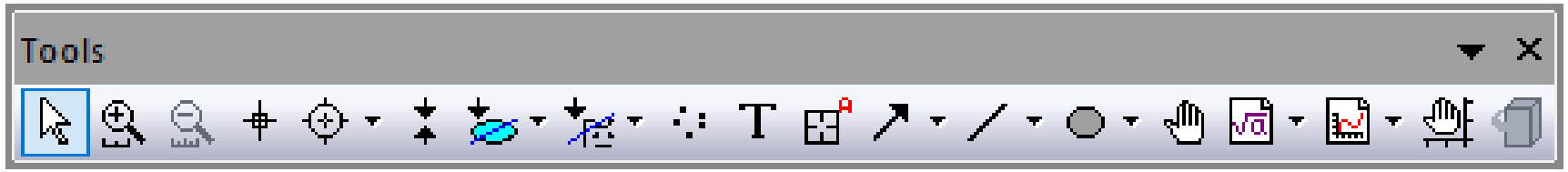
Auto Legend **Text Component**: %(*[LayerIndex.]*PlotIndex*[Axis[*, **@option***]]*)

Translation Mode of %(1) %(2)

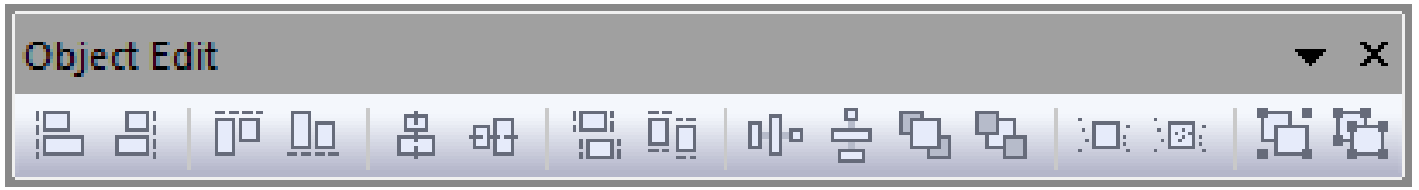
Use this drop-down list to specify the worksheet column header information that should be used in the graph legend.

@LM: Use Comment (1st line)	Default setting. Use the 1st line of the **Comment** row (if any). Otherwise use the column **Long Name**. If neither **Comments** nor **Long Name** contains contents, use the **Short Name** of the corresponding column.
@R: Data Range	Workbook data range of plot. The syntax would be **[*Workbook*]*Worksheet*!Col(*Index*)[*start index*, *end index*]**.
@U: Long Name & Units	Use the variables in column label rows of **Long Name** combined with that in **Units**. The display format would be ***Long Name*(*Unit*)** in English and Japanese versions of Origin, and ***Long Name*[*Unit*]** in German version. If there is no contents in **Long Name**, the column **Short Name** will be used instead.

Annotating The Graph



- Add Text Objects
- Add Drawing Objects
- Annotate a Data Point
- Mask Points
- Add Table
- Insert Equation/Image



- Grouping, Aligning and Arranging with the Object Edit Toolbar

Exporting Graphs

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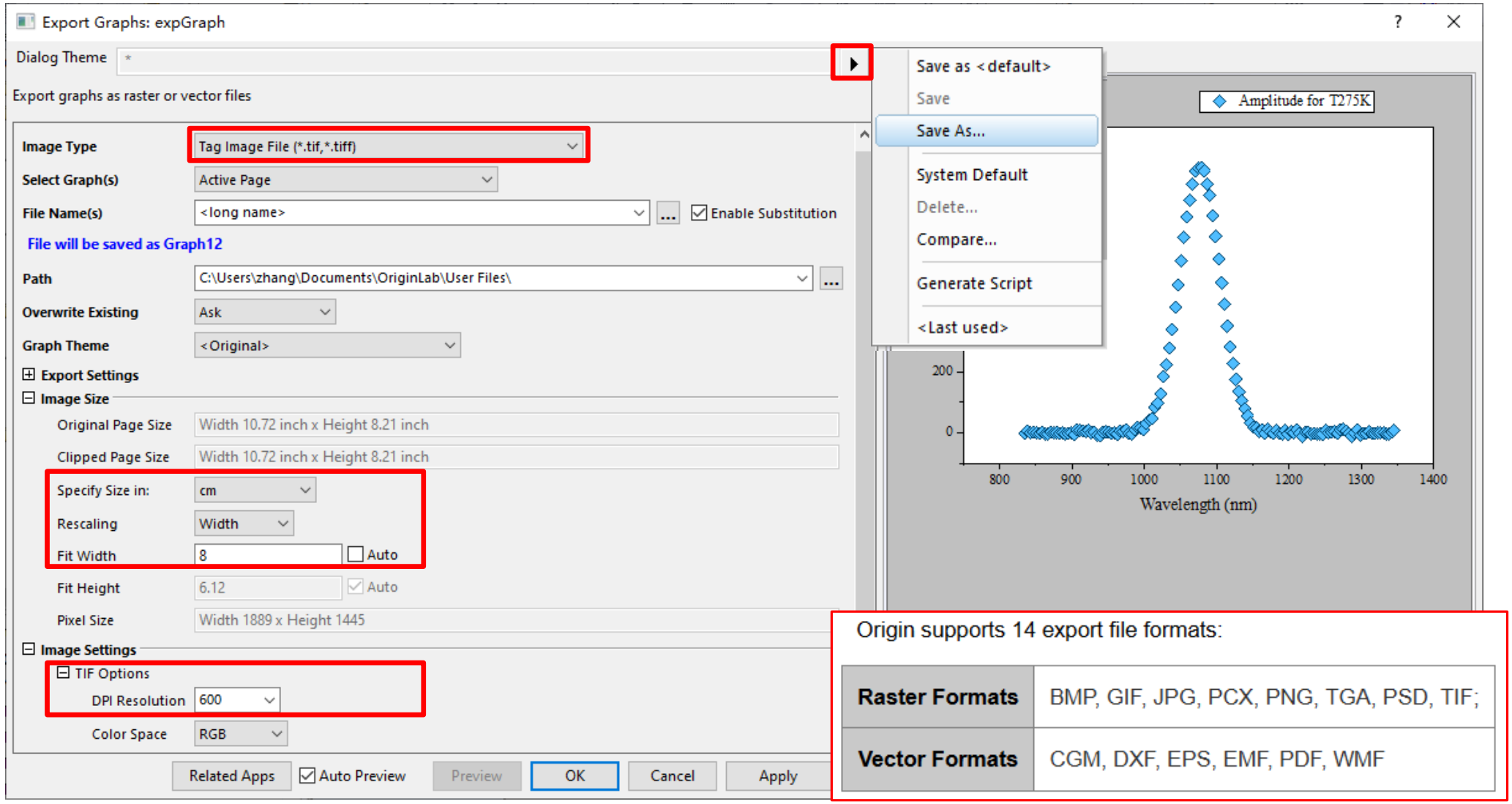
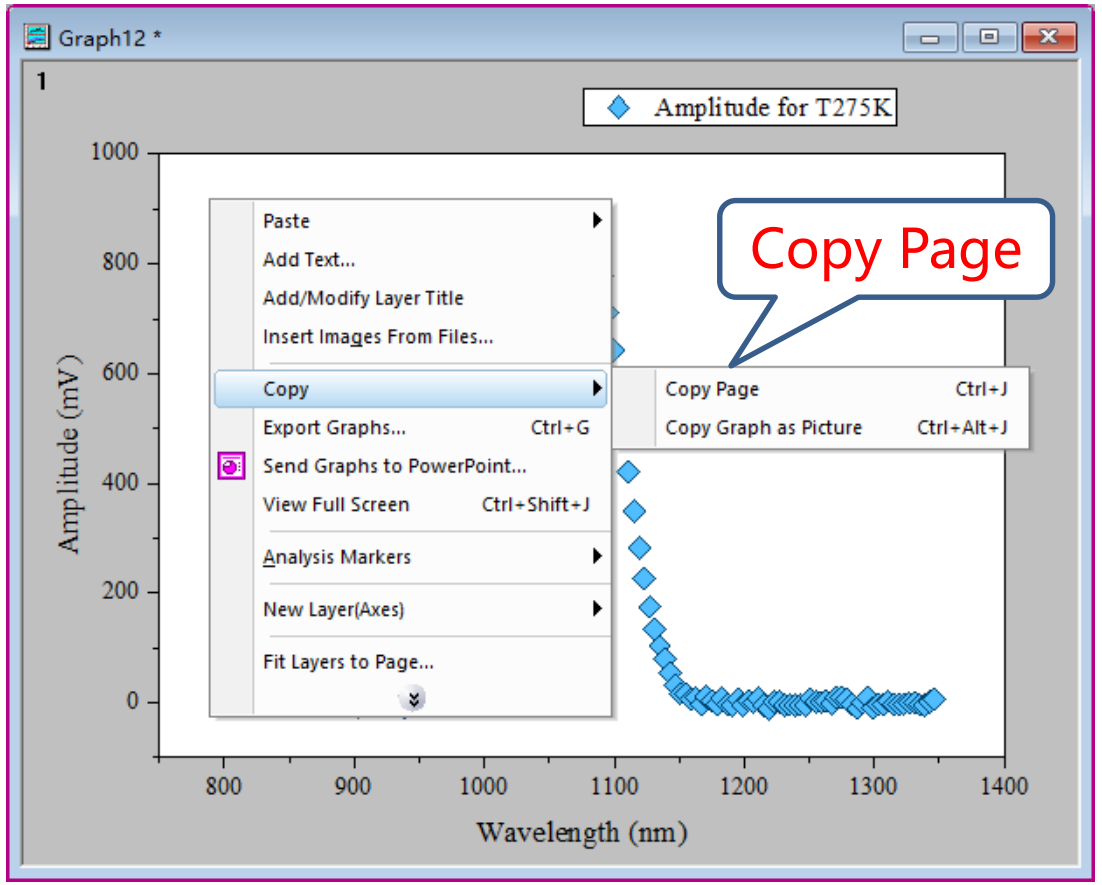
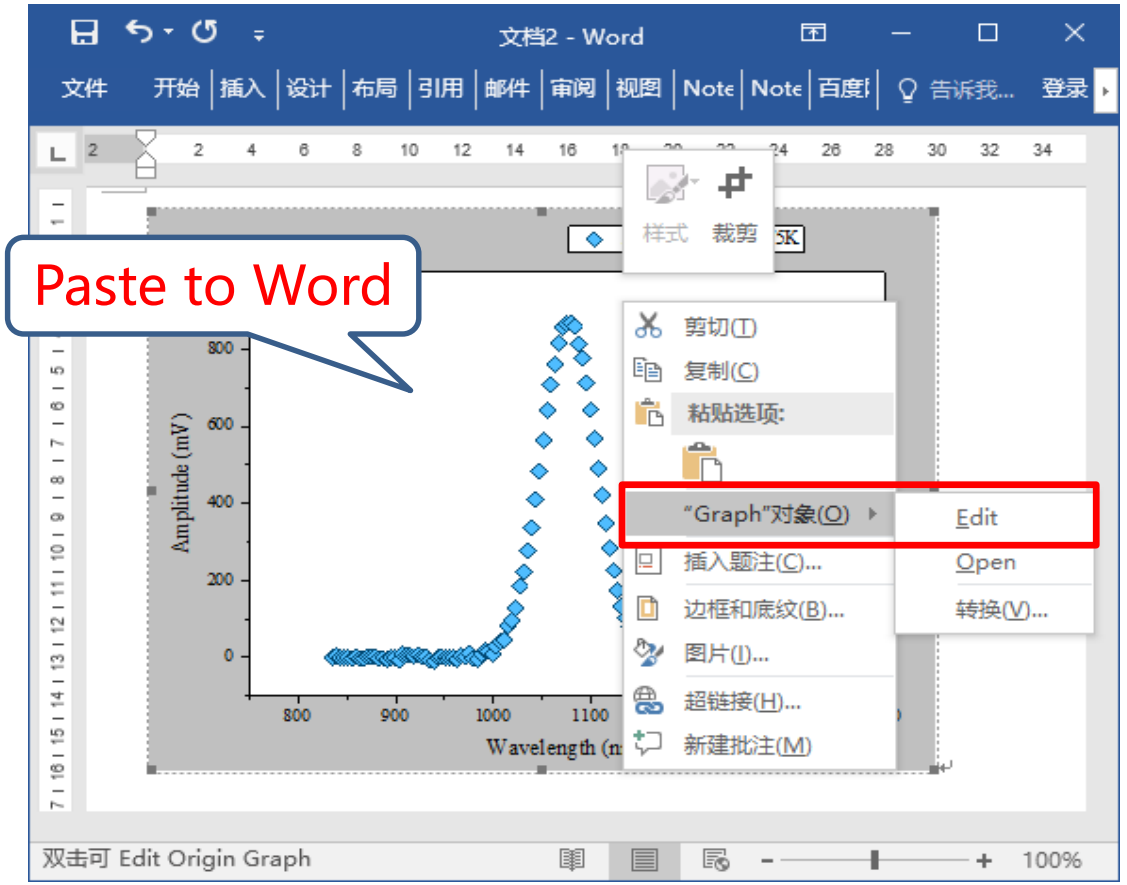


Origin supports 14 export file formats:

Raster Formats	BMP, GIF, JPG, PCX, PNG, TGA, PSD, TIF;
Vector Formats	CGM, DXF, EPS, EMF, PDF, WMF

Copying & Pasting Graphs to Word





Scientific Graphing:

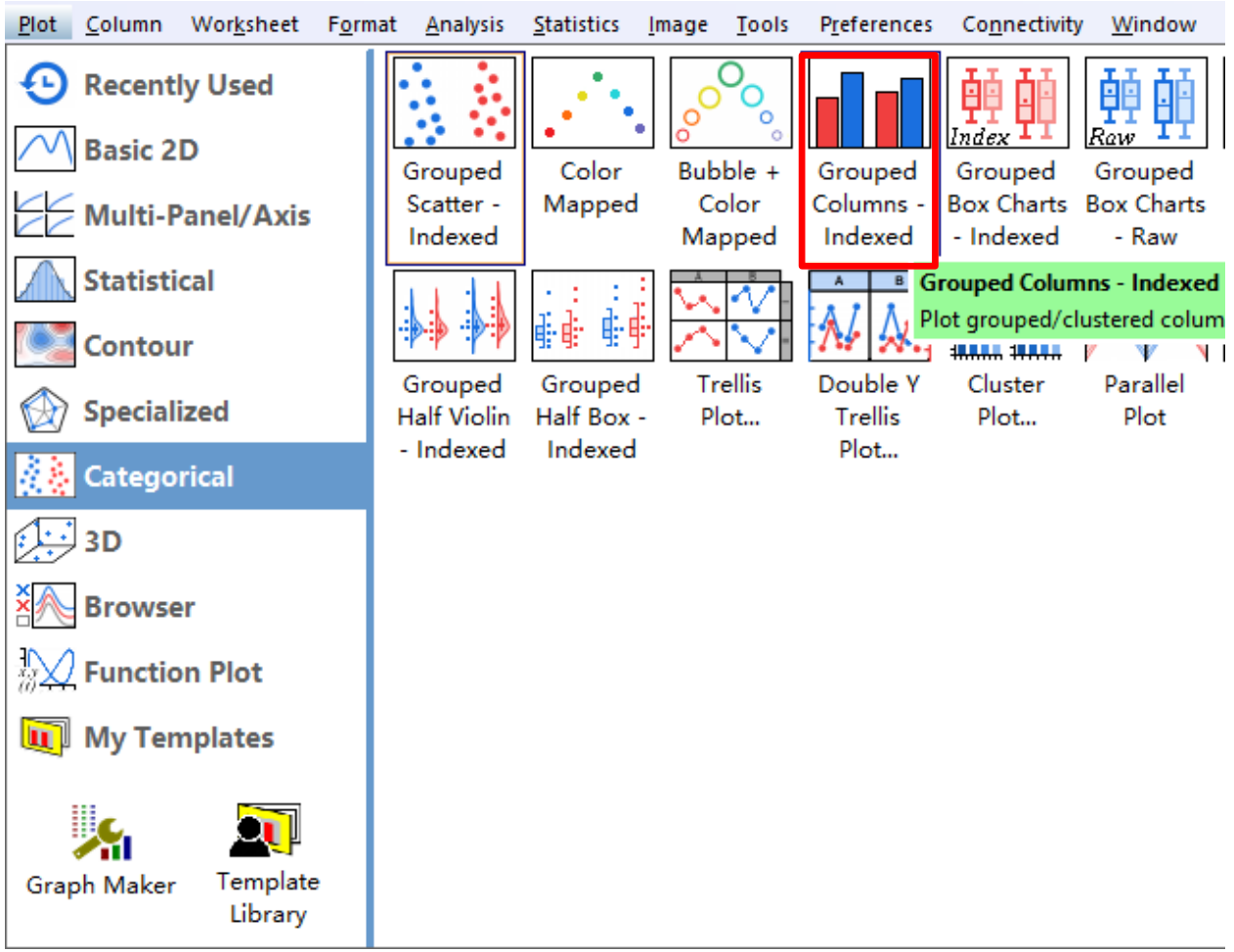
Grouped Column Plot with Indexed Data

Grouped Column Plot

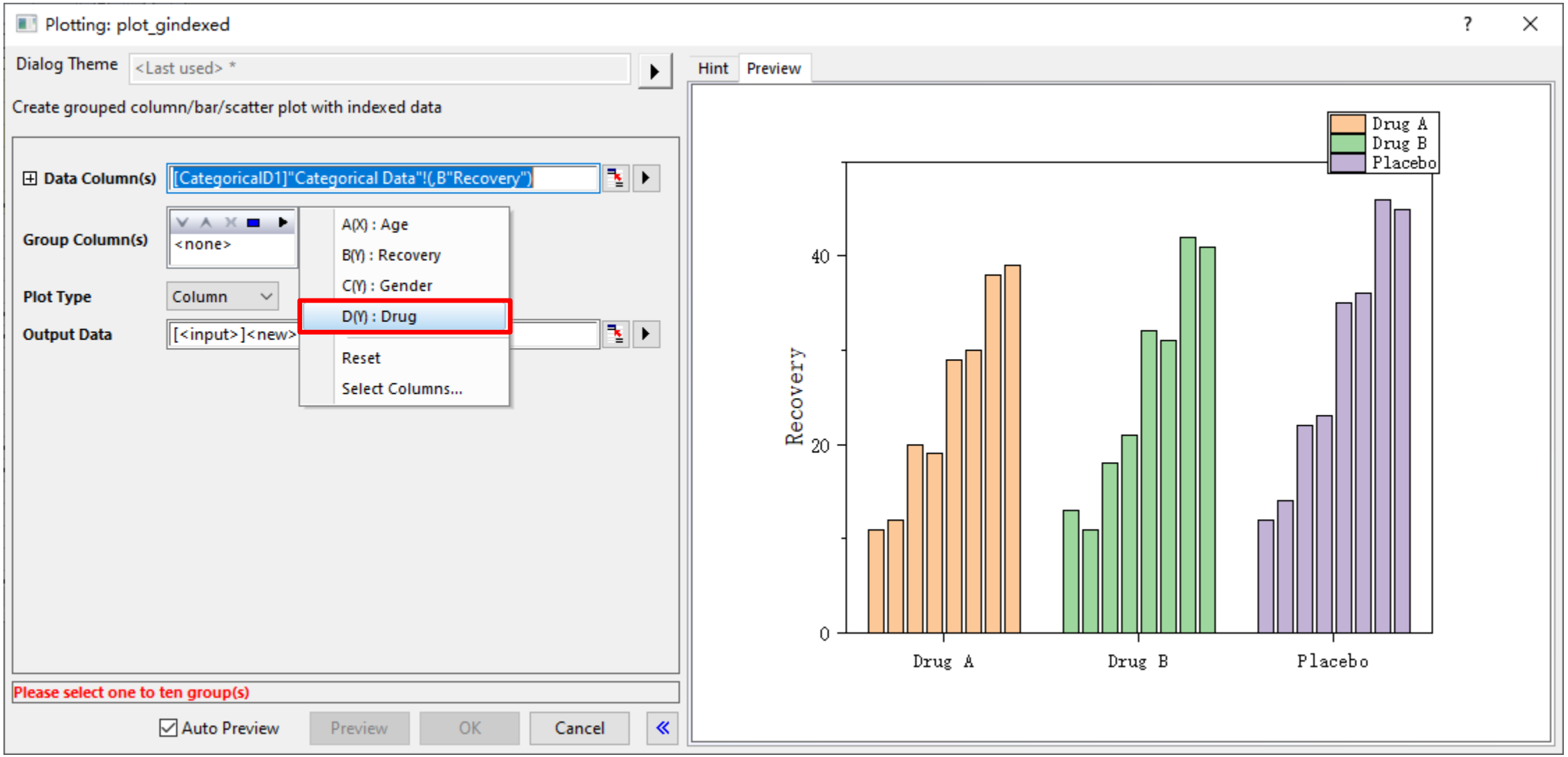
CategoricalD1 - Categorical Data.dat *

	A(X)	B(Y)	C(Y)	D(Y)
Long Name	Age	Recovery	Gender	Drug
Units				
Comments				
F(x)=				
Sparklines				
Categories				Unsorted
1	20	11	Male	Drug A
2	23	12	Female	Drug A
3	22	13	Female	Drug B
4	23	11	Male	Drug B
5	21	12	Male	Placebo
6	23	14	Female	Placebo
7	36	20	Male	Drug A
8	32	19	Female	Drug A
9	34	18	Female	Drug B
10	34	21	Male	Drug B
11	36	22	Male	Placebo
12	35	23	Female	Placebo
13	45	29	Male	Drug A
14	44	30	Female	Drug A
15	44	32	Female	Drug B
16	43	31	Male	Drug B
17	44	35	Male	Placebo
18	45	36	Female	Placebo
19	57	38	Male	Drug A

\Categorical Data/



Grouped Column Plot



Grouped Column Plot

Plotting: plot_gindexed

Dialog Theme <Last used> *

Create grouped column/bar/scatter plot with indexed data

Data Column(s) [CategoricalD1]"Categorical Data"!(,B"Recovery")

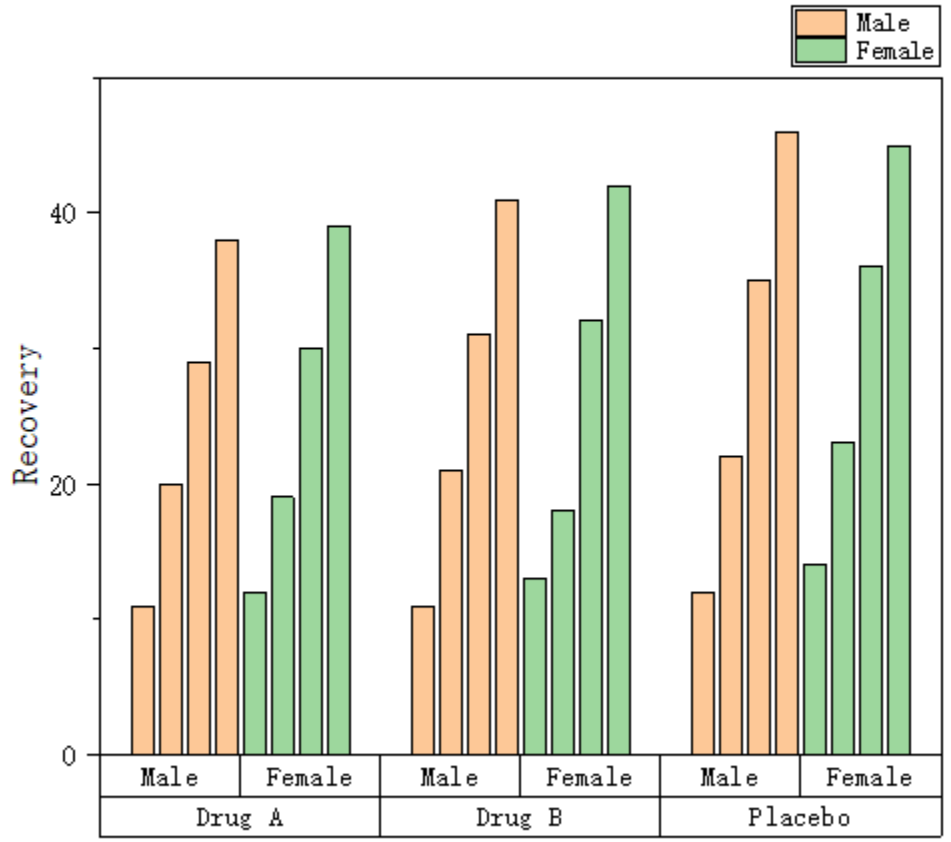
Group Column(s)
[CategoricalD1]"Categorical Data"!D"Drug"
[CategoricalD1]"Categorical Data"!C"Gender"

Plot Type Column

Output Data [<input>]<new>

Auto Preview | Preview | OK | Cancel

Hint | Preview

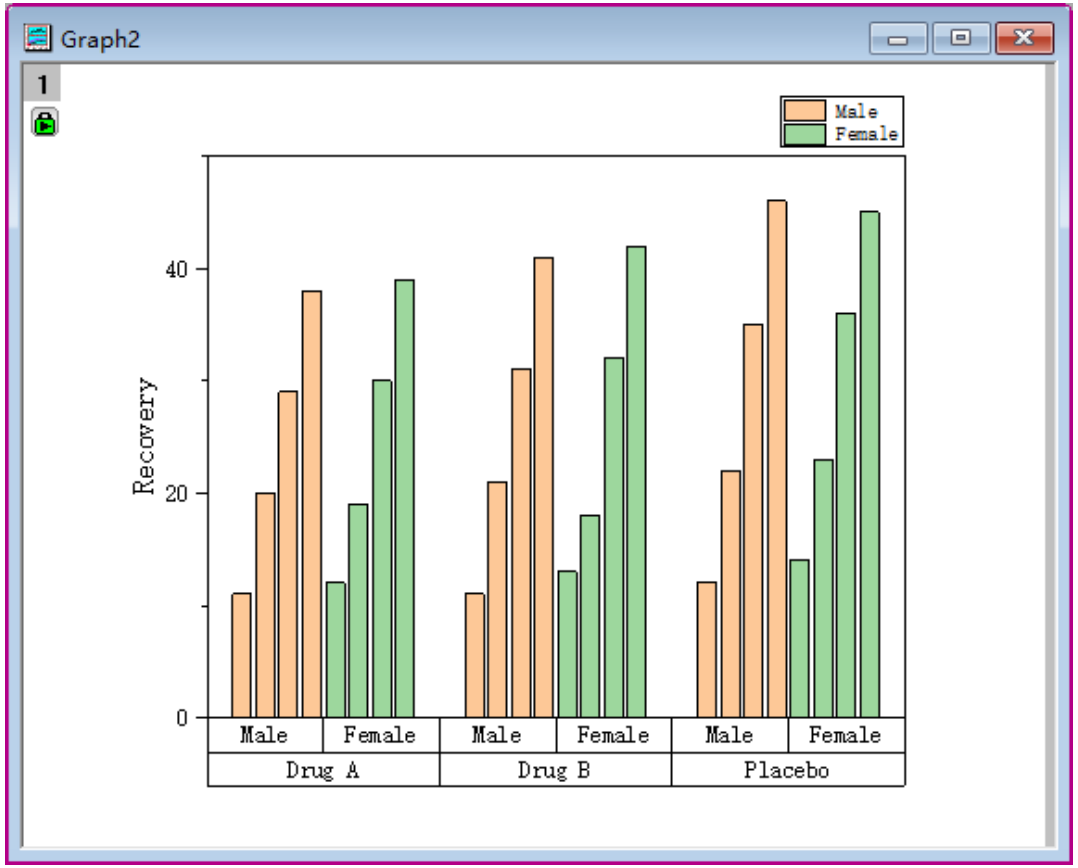


Grouped Column Plot

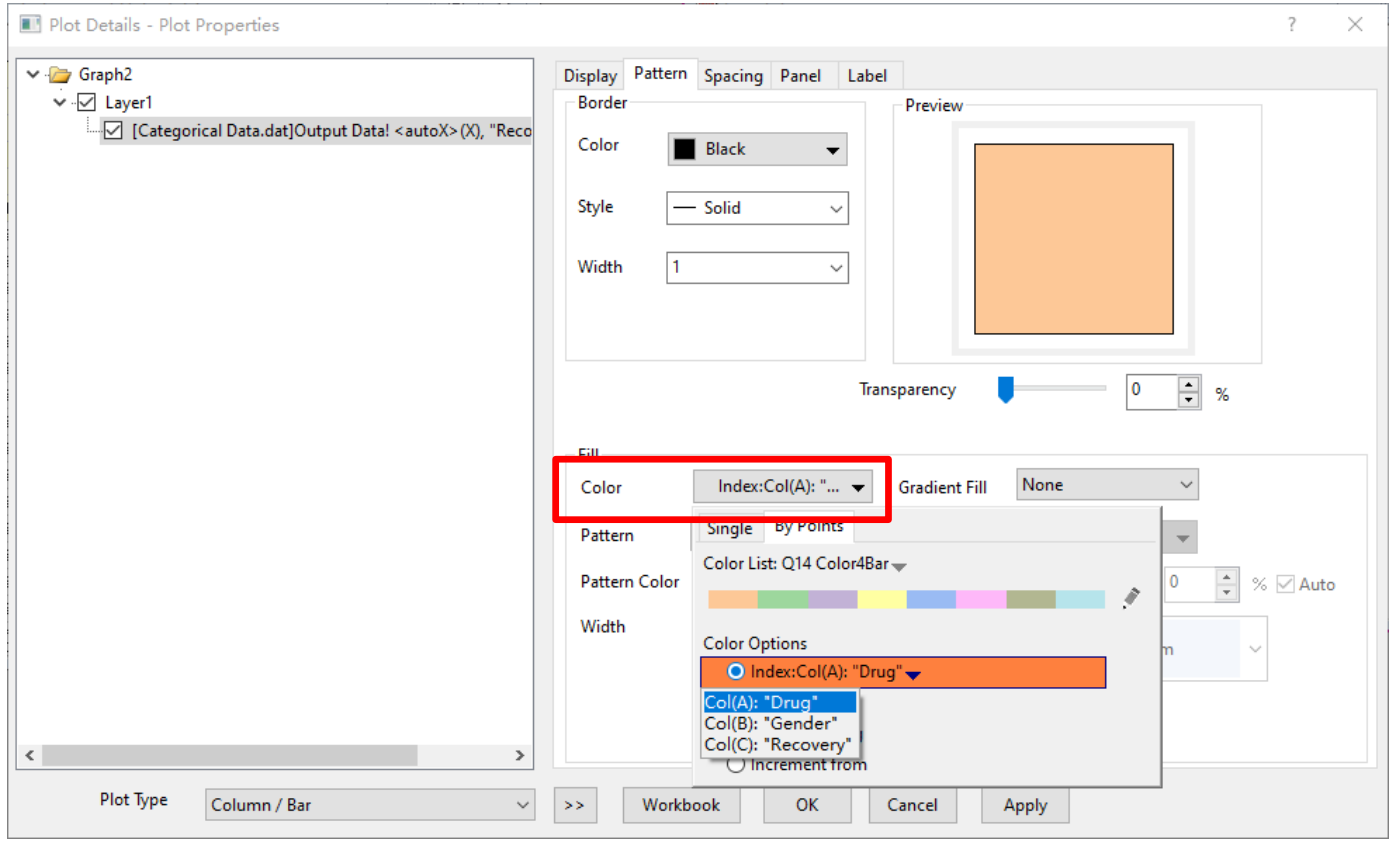
CategoricalD1 - Categorical Data.dat *

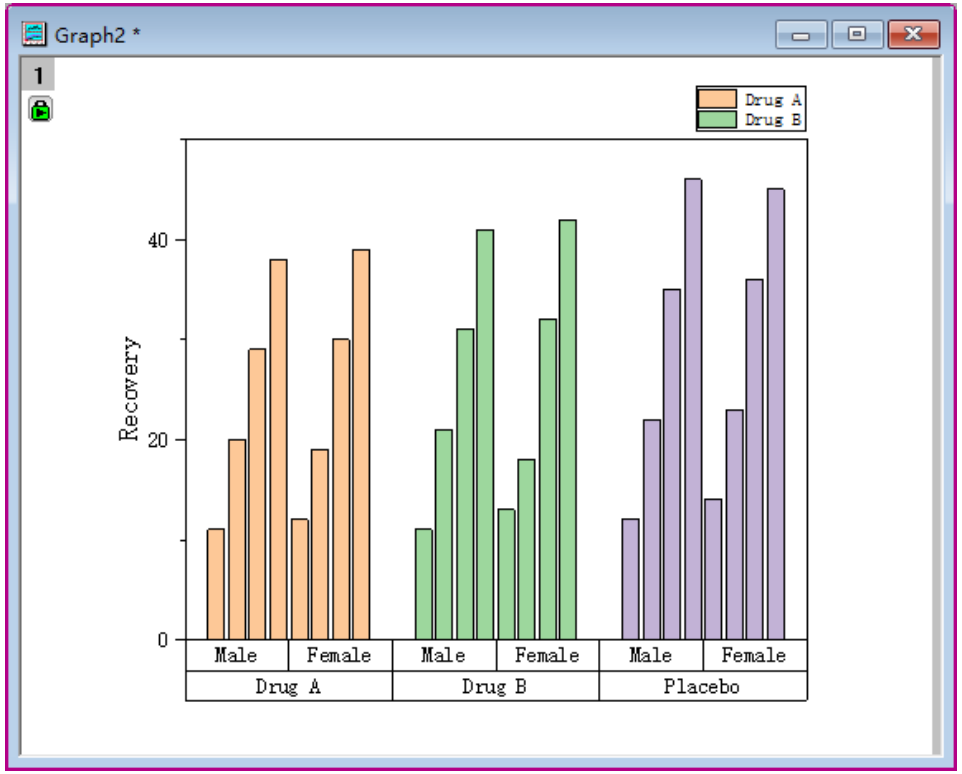
	A(Y)	B(Y)	C(Y)
Long Name	Drug	Gender	Recovery
Units			
Comments			
F(x)=			
Sparklines			
Categories	Unsorted	Unsorted	
1	Drug A	Male	11
2	Drug A	Male	20
3	Drug A	Male	29
4	Drug A	Male	38
5	Drug A	Female	12
6	Drug A	Female	19
7	Drug A	Female	30
8	Drug A	Female	39
9	Drug B	Male	11
10	Drug B	Male	21
11	Drug B	Male	31
12	Drug B	Male	41
13	Drug B	Female	13
14	Drug B	Female	18

Categorical Data | Output Data



Grouped Column Plot





Scientific Graphing:

Batch Plotting

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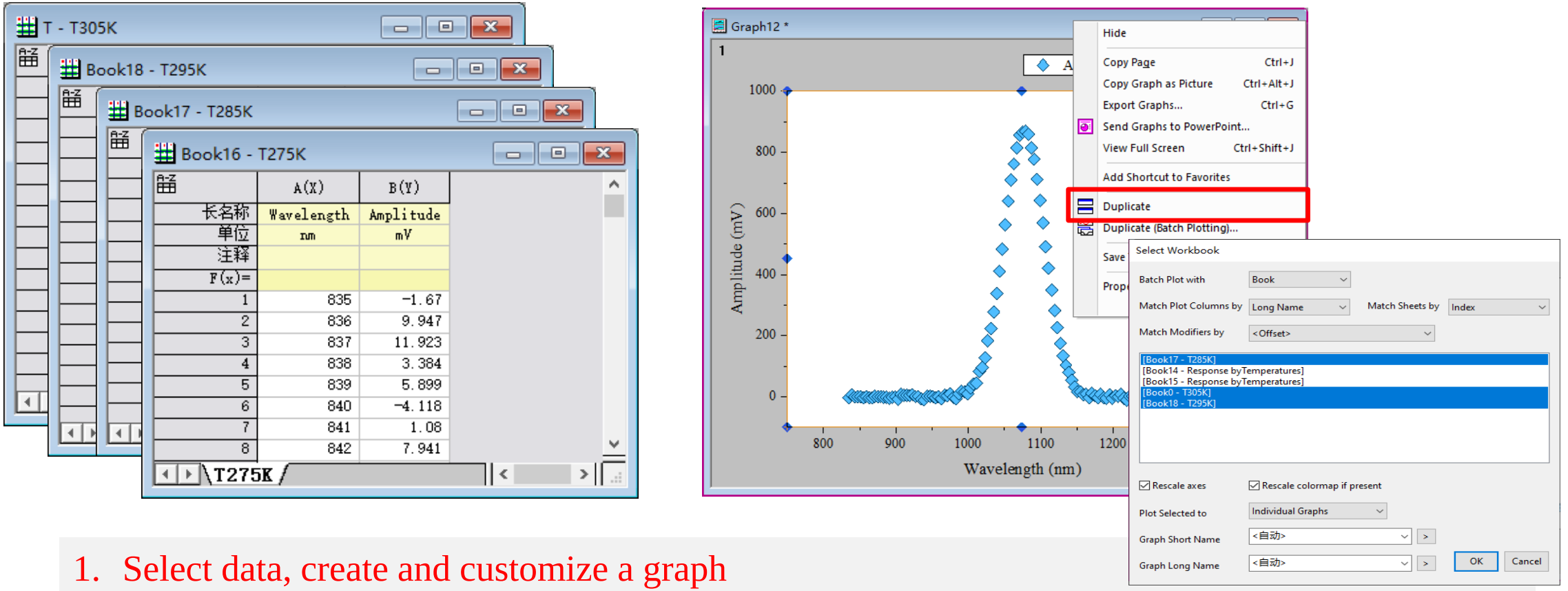
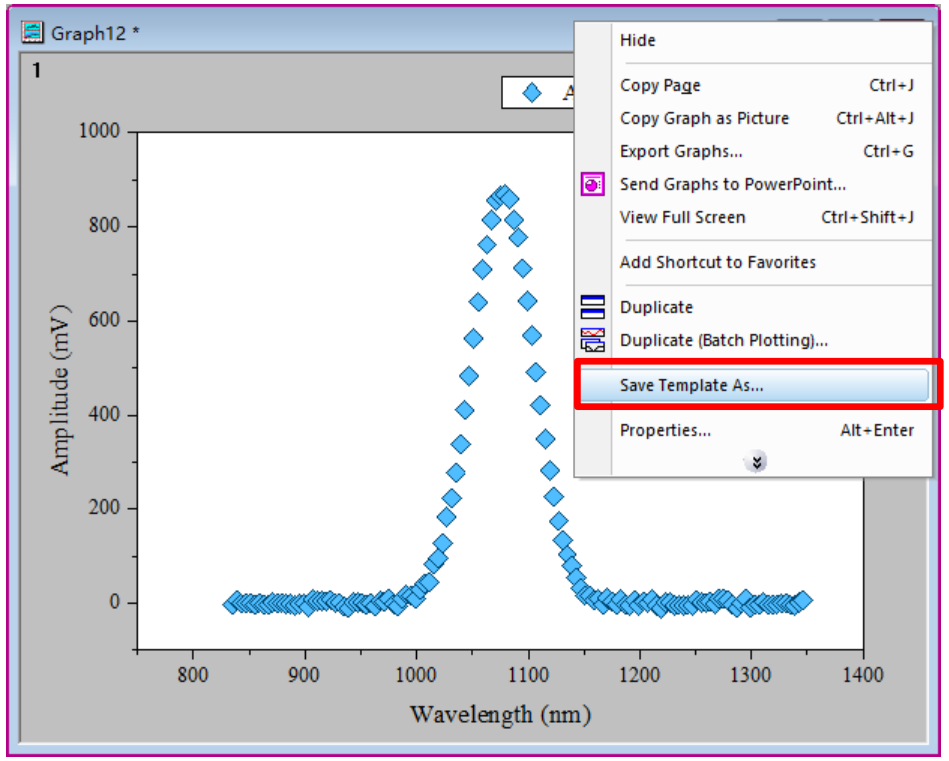
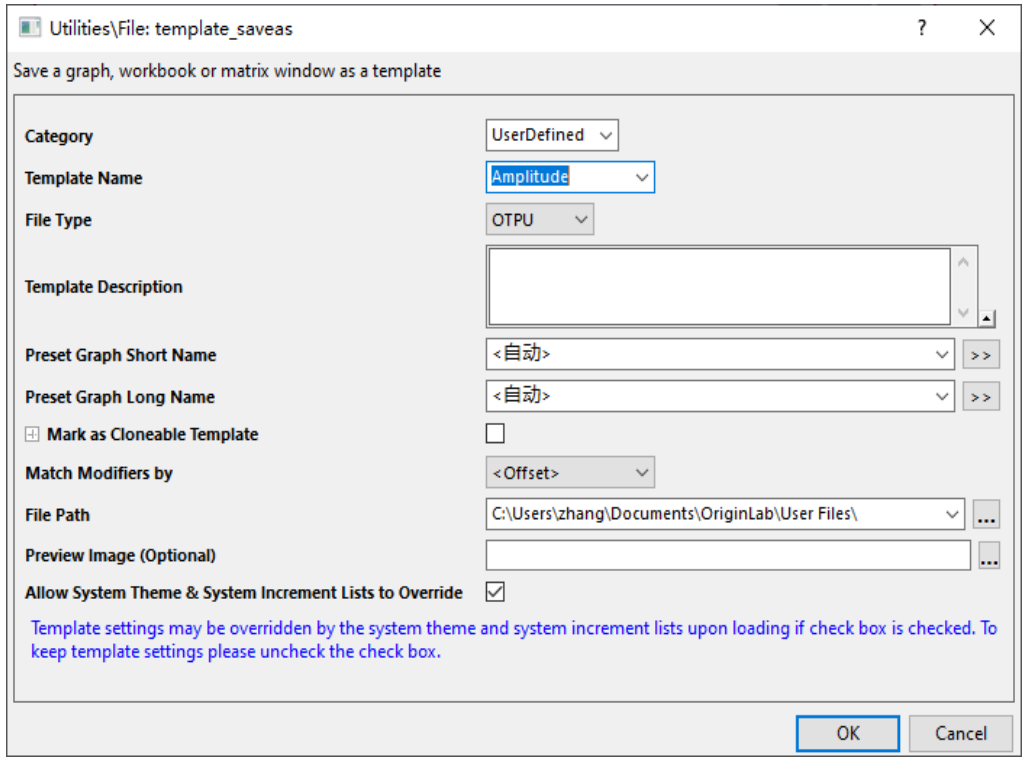
Duplicate (Batch Plotting)



1. Select data, create and customize a graph
2. Right-click on the graph title bar, select **Duplicate (Batch Plotting)**…
3. Use the drop-down list **Batch Plot With** to switch the different source data to duplicate the current graph

Batch Plotting (User-Defined Template)





1. Select data, create and customize a graph
2. Save the graph as a user-defined template (Right-click on the graph title bar, select **Save Template As**…)
3. Plot other data with same data structure into the saved custom template

What is Saved with the Graph Template?

Graph windows are created from graph template files. Origin ships with a large number of built-in graph templates (system templates). These templates are used to create all of Origin's 100+ graph types and they can be modified and saved, to preserve your custom settings.

A graph template do not store data. Rather, graph template files store important page and layer characteristics (page size, number of layers, scaling of text and drawing objects, etc.) and they also store data plot style information (plot type, plot colors, data labels, etc.).

Graph Theme

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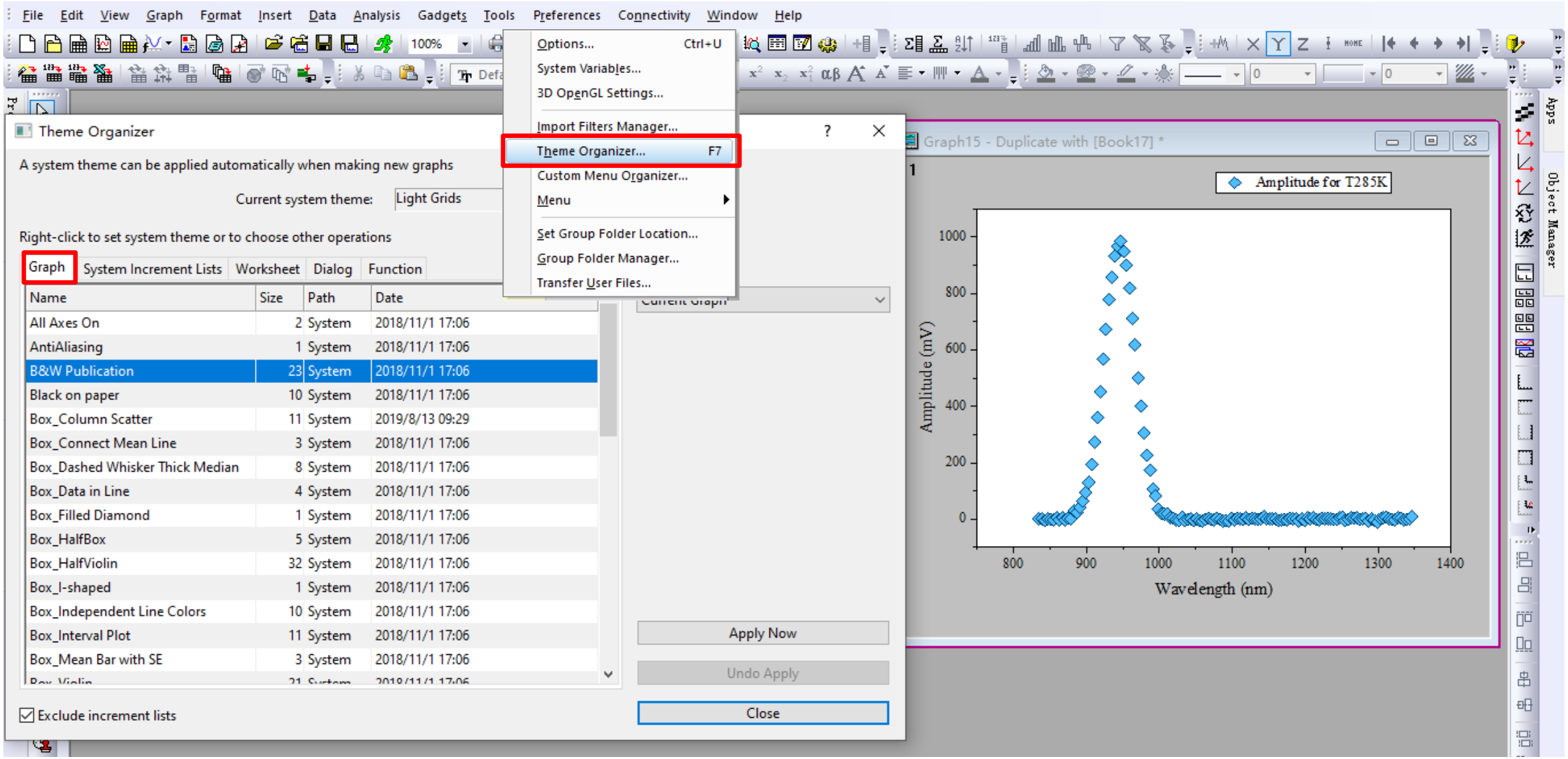
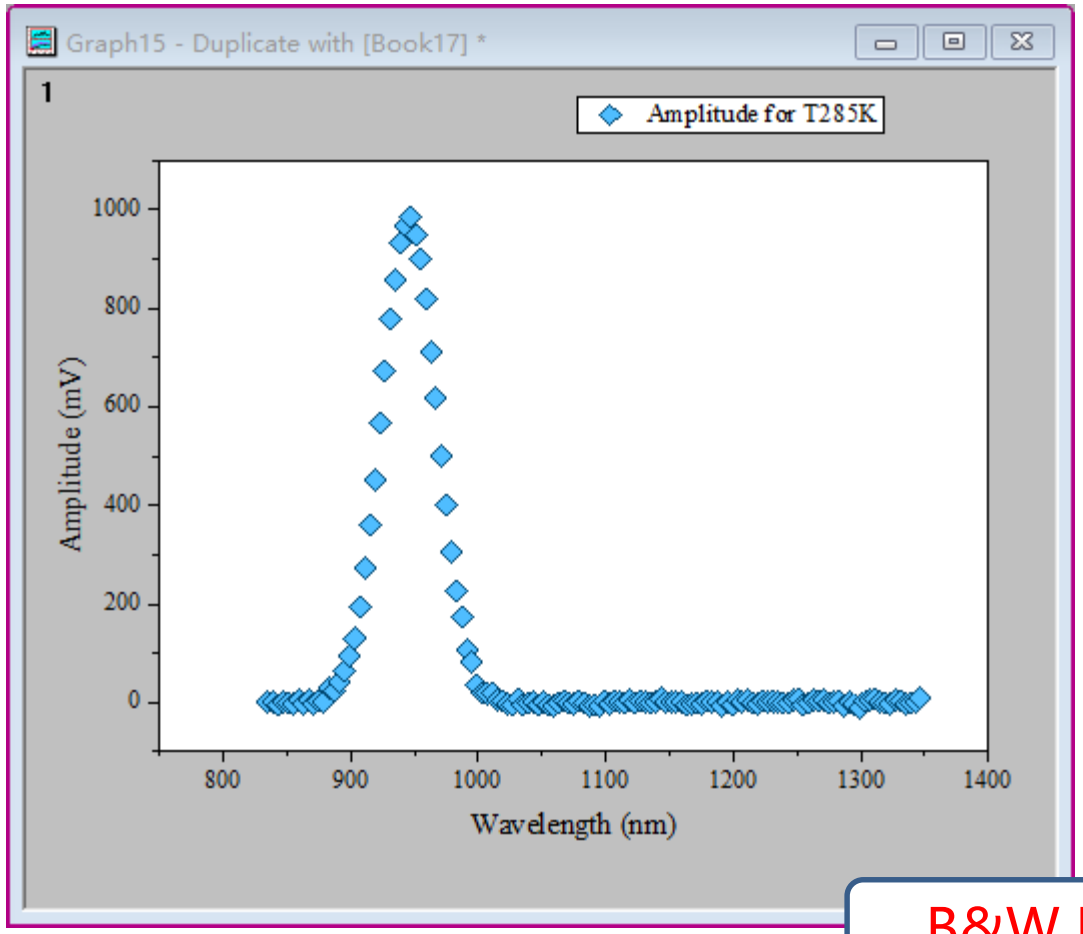
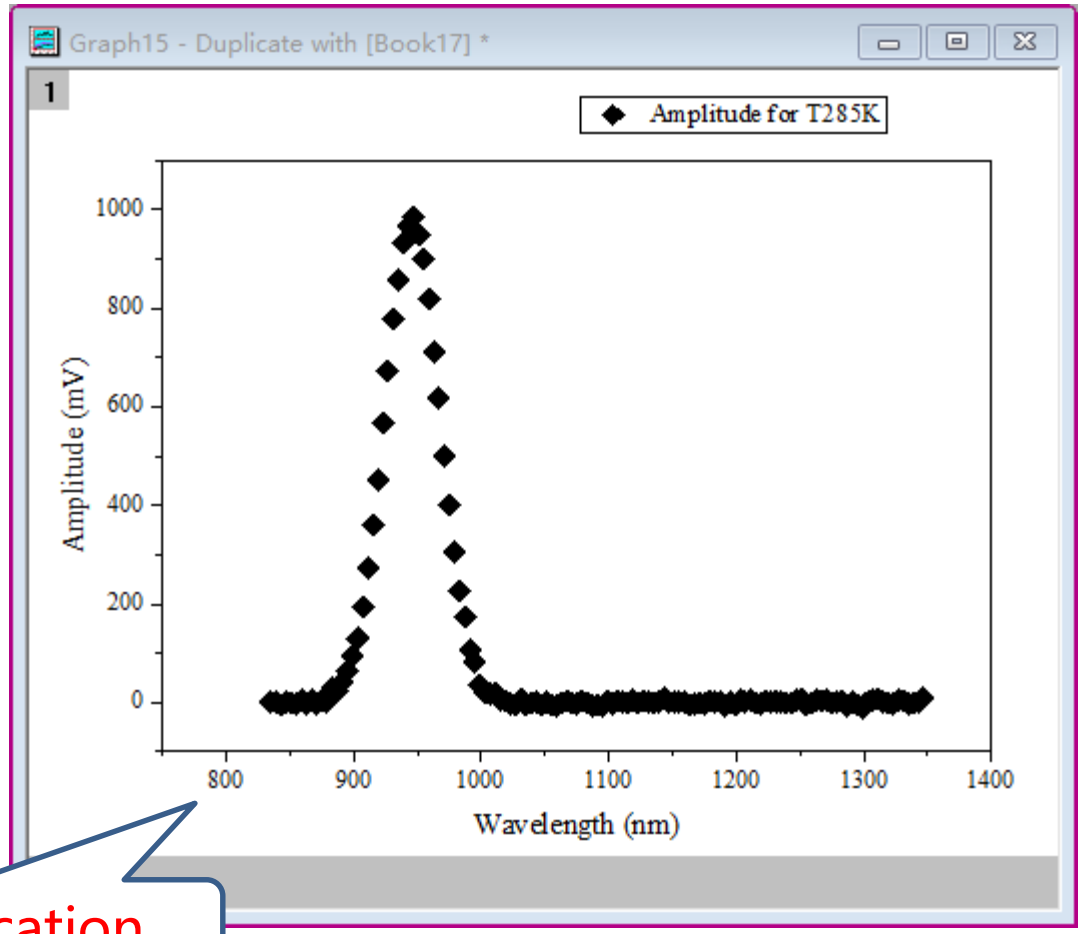


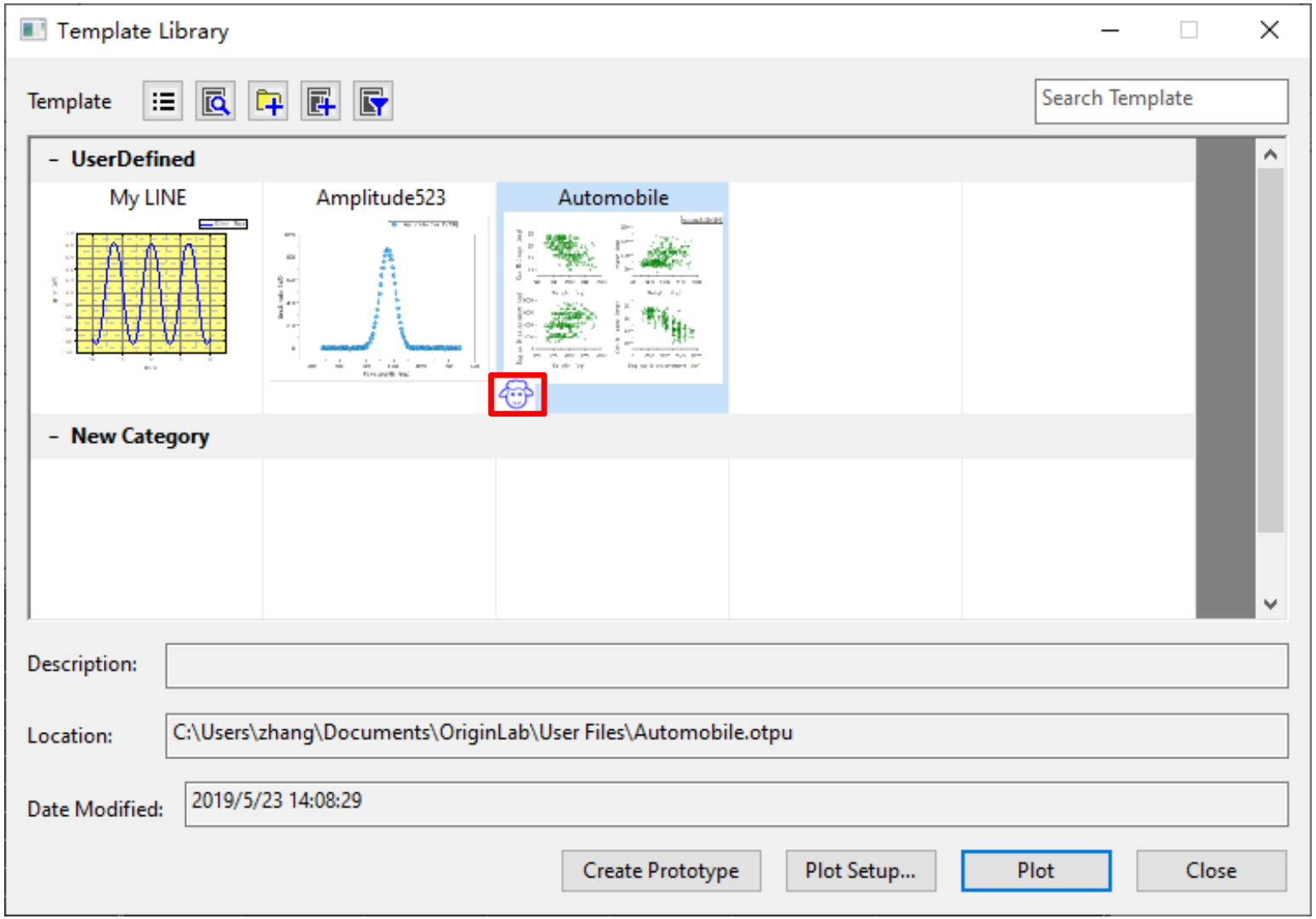
Graph Theme





B&W Publication

Cloneable Template



Data Analysis

Data Analysis

① **Statistics**： Descriptive statistics, Multivariate Analysis, Survival Analysis …

② **Mathematics**： Interpolate/Extrapolate, Differentiate, Integrate …

③ **Fitting**： Linear Fit, Non Linear Curve Fit …

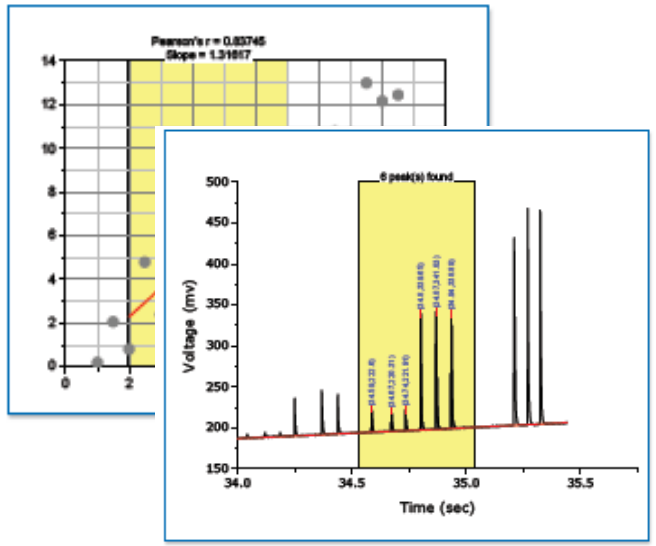
④ **Signal Processing**： Smooth, FFT Filters …

⑤ **Peaks and Baseline**： Integrate Peaks, Find Peaks, Fit Peaks …

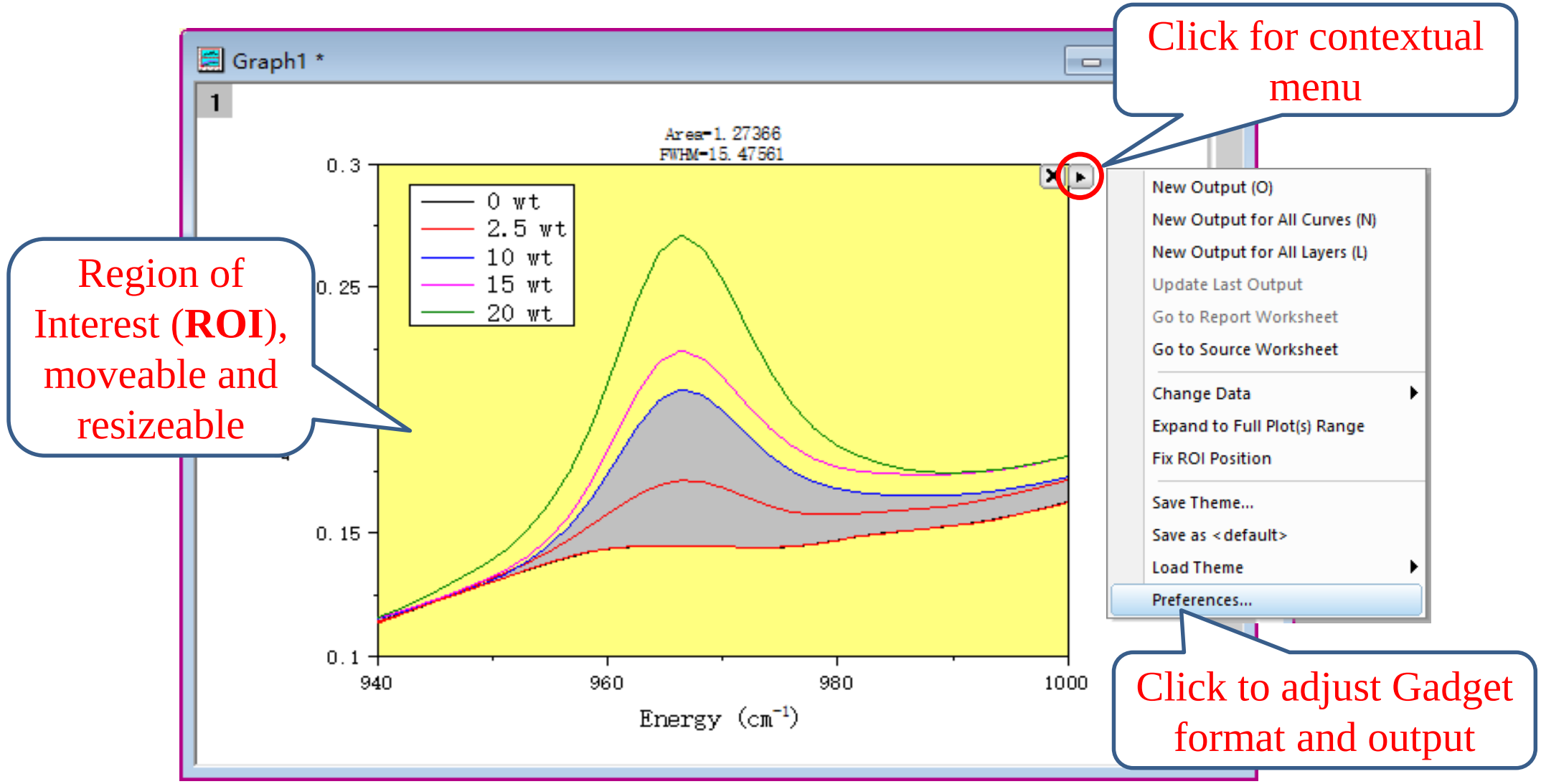
Gadgets

Origin offers several **Gadgets** for analysis of data plotted in a graph. They are specialized, interactive tools designed for generating quick results. Gadgets are accessible from the Gadgets menu when a graph is active.

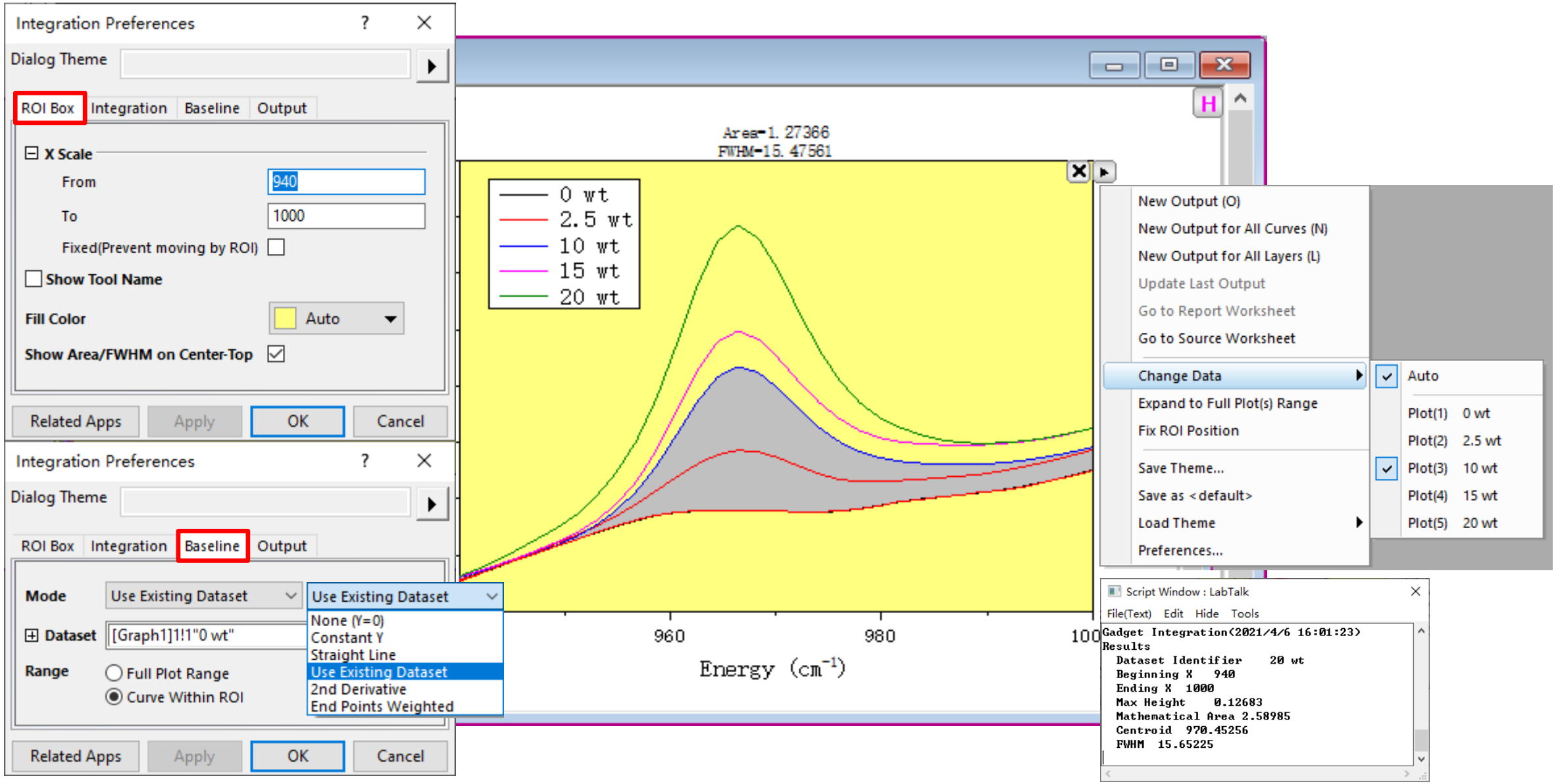
- Drag to modify the **ROI** directly on the graph
- Display the results instantly on top of the ROI
- Output the results for all curves within the graph
- Save the settings to a theme for later use



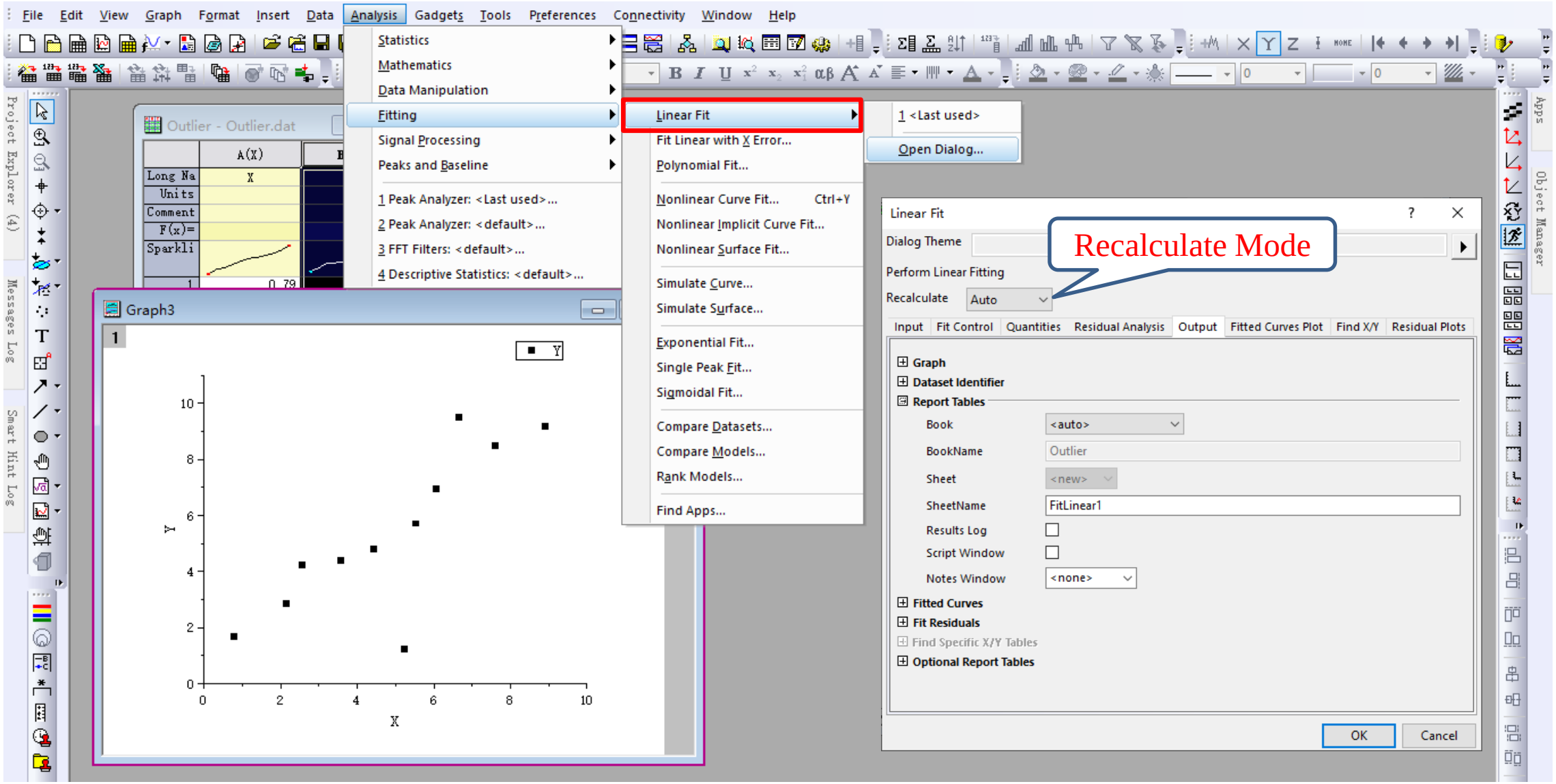
The Integrate Gadget



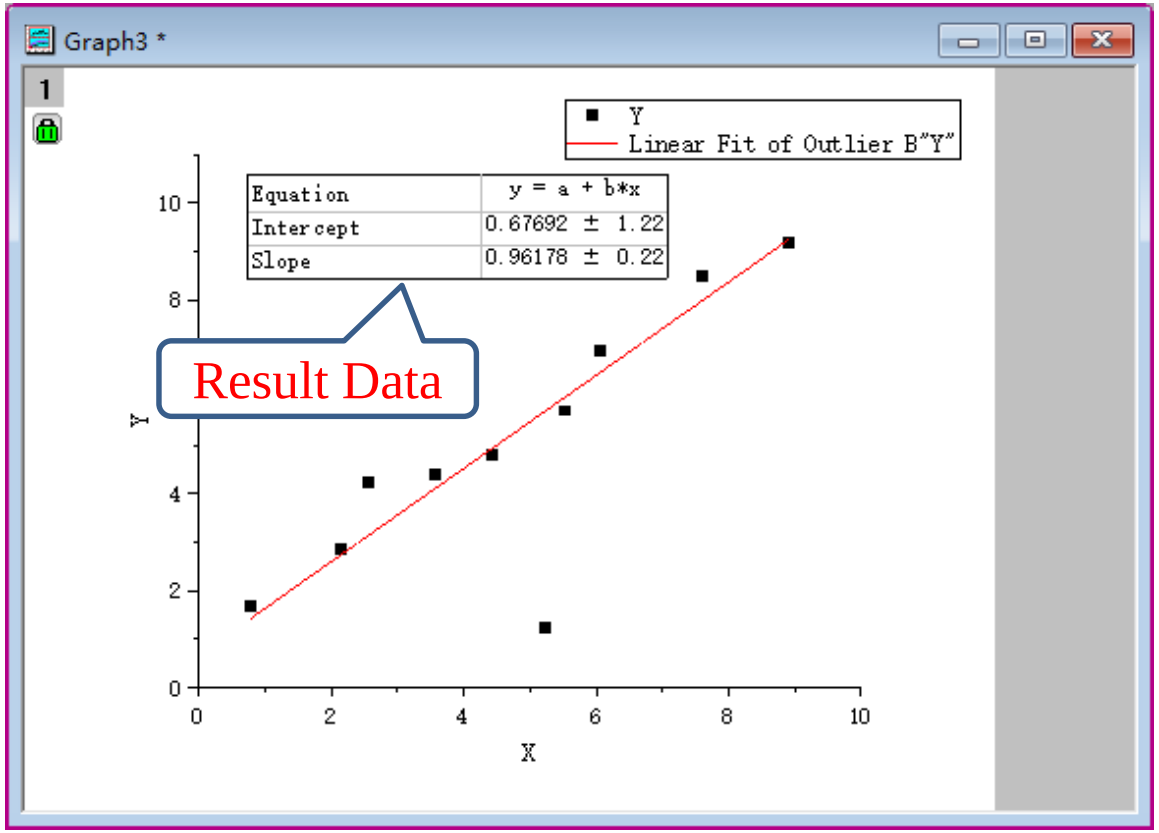
The Integrate Gadget



Linear Fit with Outliers



Linear Fit with Outliers



Outlier - Outlier.dat *

1 *Linear Fit (2021/4/22 10:34:55)*

Notes

Input Data

Masked Data - Values Excluded from Computations

Bad Data (missing values) -- Values that are invalid and th

Parameters

		Value	Standard Error	t-Value	Prob>|t|
Y	Intercept	0.67692	1.22181	0.55403	0.59305
	Slope	0.96178	0.22622	4.25158	0.00214

Slope is significantly different from zero (See ANOVA Table).
Standard Error was scaled with square root of reduced Chi-Sqr.

Statistics

	Y
Number of Points	11
Degrees of Freedom	9
Residual Sum of Squares	27.76664
Pearson's r	0.81707
R-Square (COD)	0.6676
Adj. R-Square	0.63067

Summary

	Intercept		Slope		Statistics
	Value	Standard Error	Value	Standard Error	Adj. R-Square
Y	0.67692	1.22181	0.96178	0.22622	0.63067

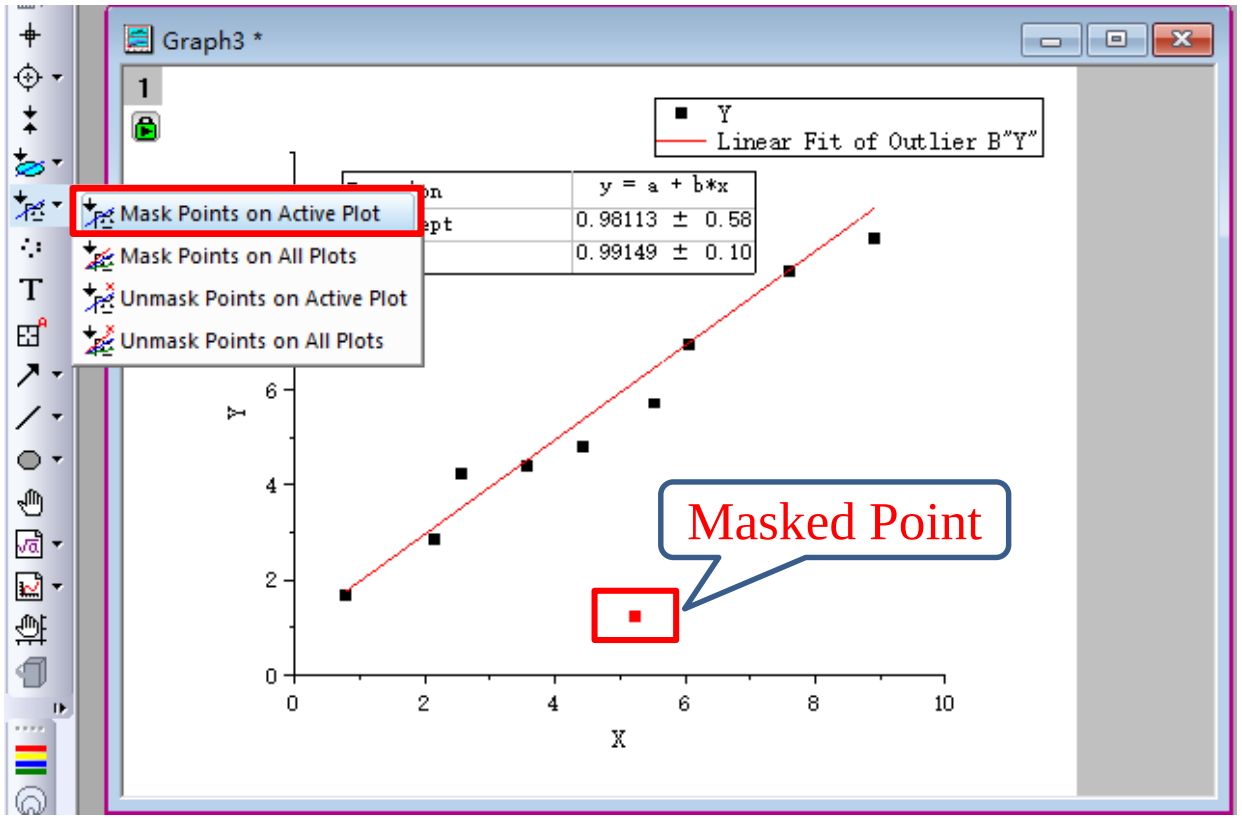
ANOVA

		DF	Sum of Squares	Mean Square	F Value	Prob>F
Y	Model	1	55.76752	55.76752	18.07592	0.00214
	Error	9	27.76664	3.08518		
	Total	10	83.53416			

FitLinear1 | FitLinearCurve1

Report Sheet

Linear Fit with Outliers



Outlier - Outlier.dat *

1 *Linear Fit (2021/4/22 10:43:14)*

Notes

Input Data

Masked Data - Values Excluded from Computations

Bad Data (missing values) -- Values that are invalid and th

Parameters

		Value	Standard Error	t-Value	Prob>|t|
Y	Intercept	0.98113	0.58789	1.6689	0.13369
	Slope	0.99149	0.10851	9.13721	1.65782E-5

Slope is significantly different from zero (See ANOVA Table).
Standard Error was scaled with square root of reduced Chi-Sqr.
Some input data points are masked.

Statistics

	Y
Number of Points	10
Degrees of Freedom	8
Residual Sum of Squares	5.66524
Pearson's r	0.95528
R-Square (COD)	0.91256
Adj. R-Square	0.90163

Summary

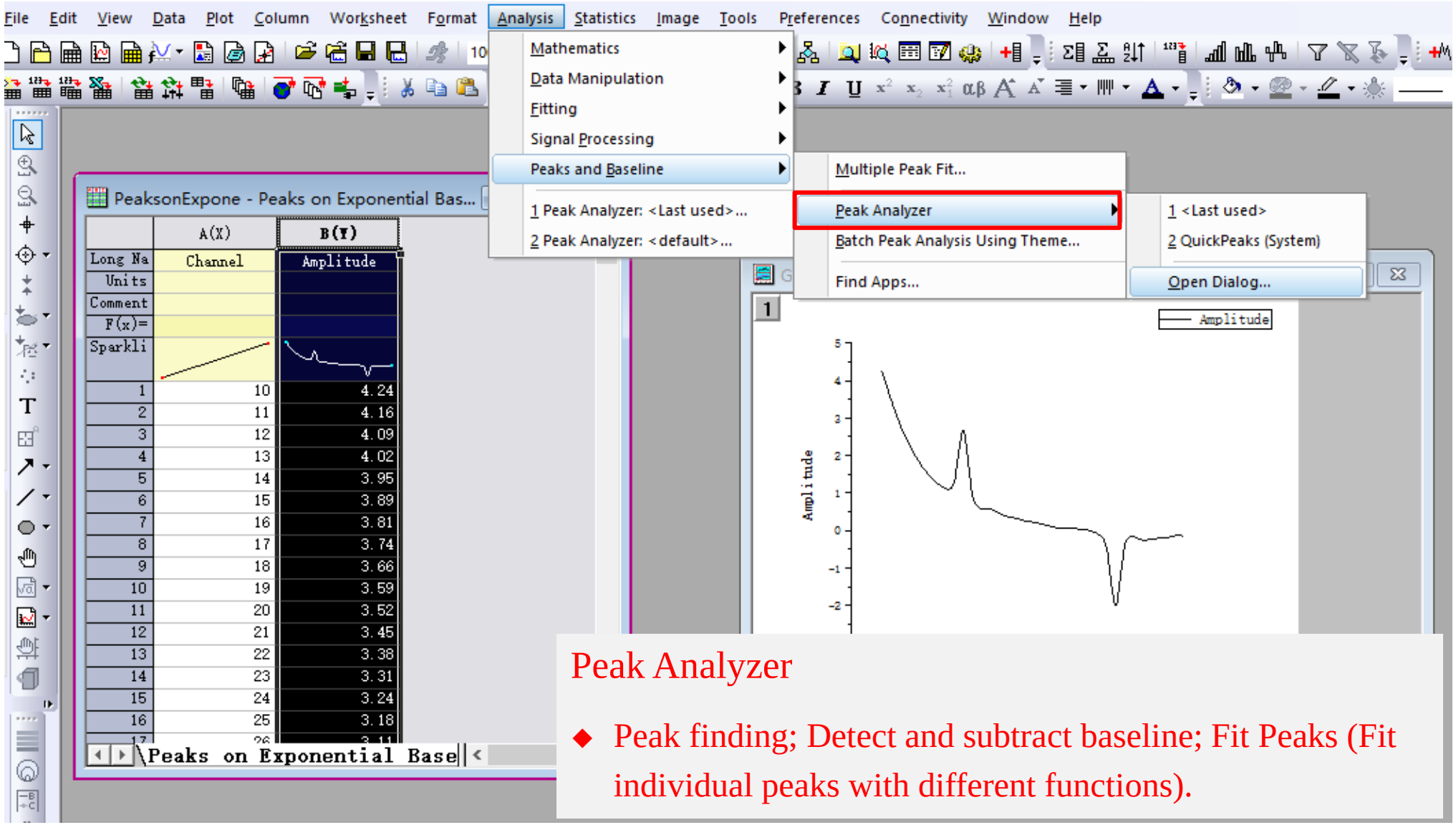
	Intercept		Slope		Statistics
	Value	Standard Error	Value	Standard Error	Adj. R-Square
Y	0.98113	0.58789	0.99149	0.10851	0.90163

ANOVA

		DF	Sum of Squares	Mean Square	F Value	Prob>F
Y	Model	1	59.12285	59.12285	83.48858	1.65782E-5
	Error	8	5.66524	0.70815		
	Total	9	64.78809			

FitLinear1 | FitLinearCurve1

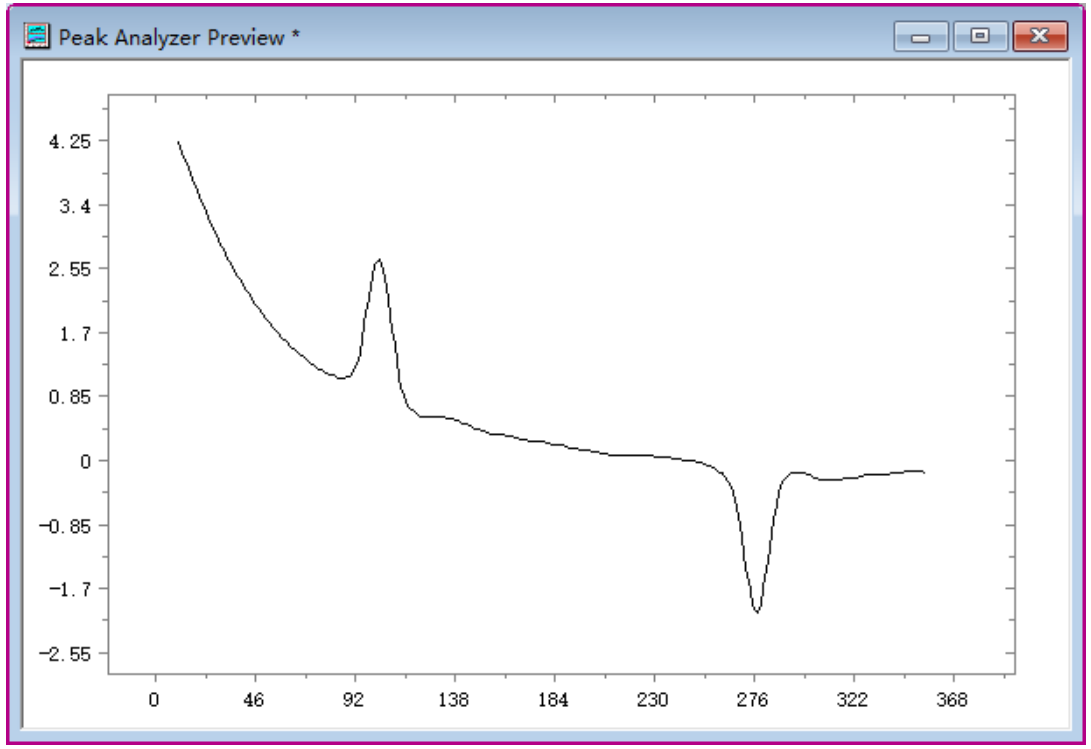
Peak Analyzer

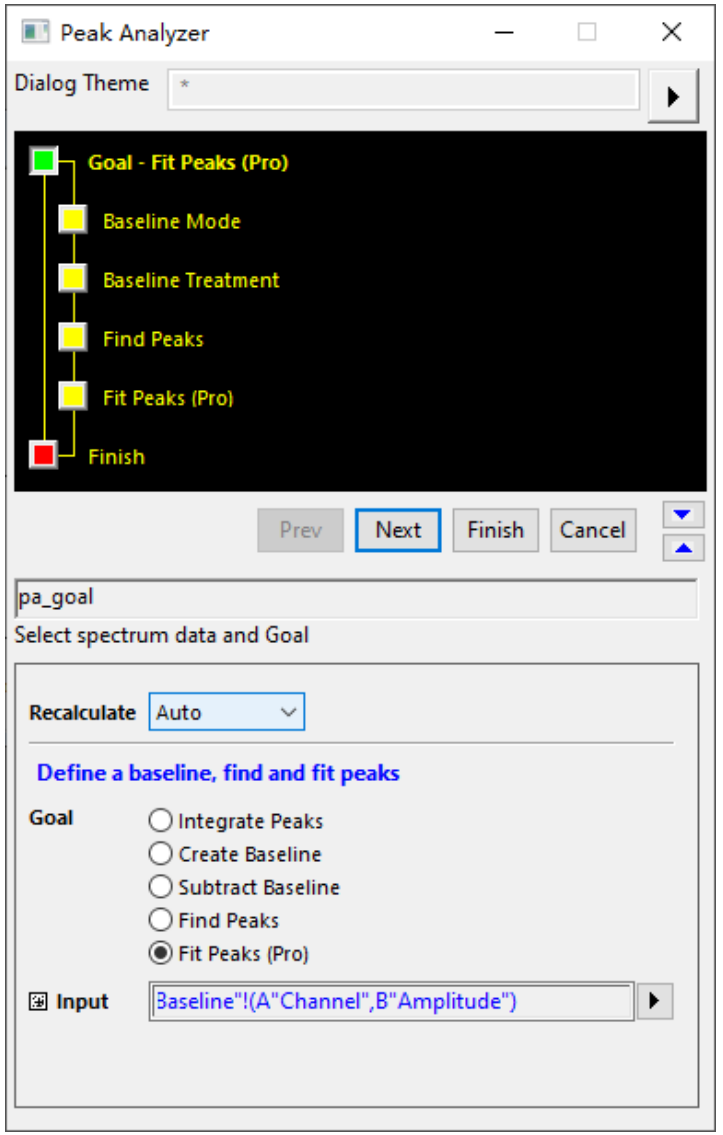


Peak Analyzer

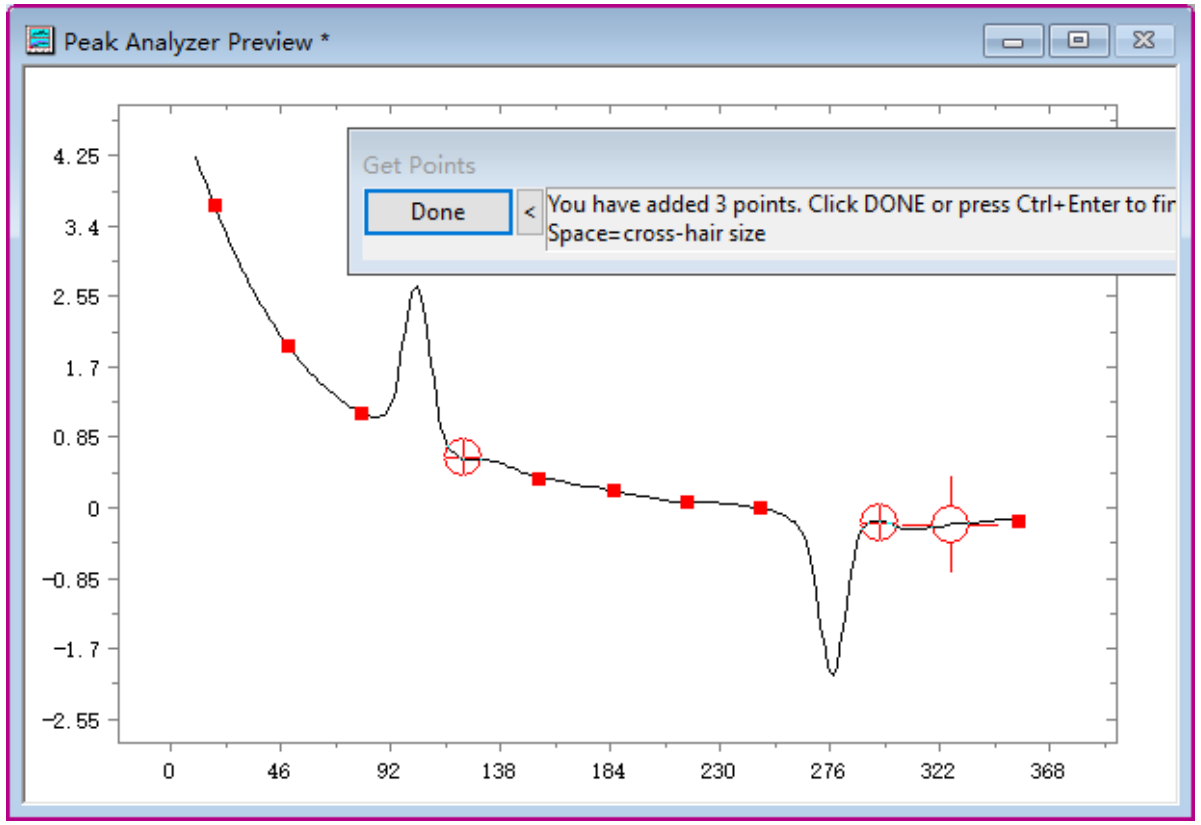
- Peak finding; Detect and subtract baseline; Fit Peaks (Fit individual peaks with different functions).

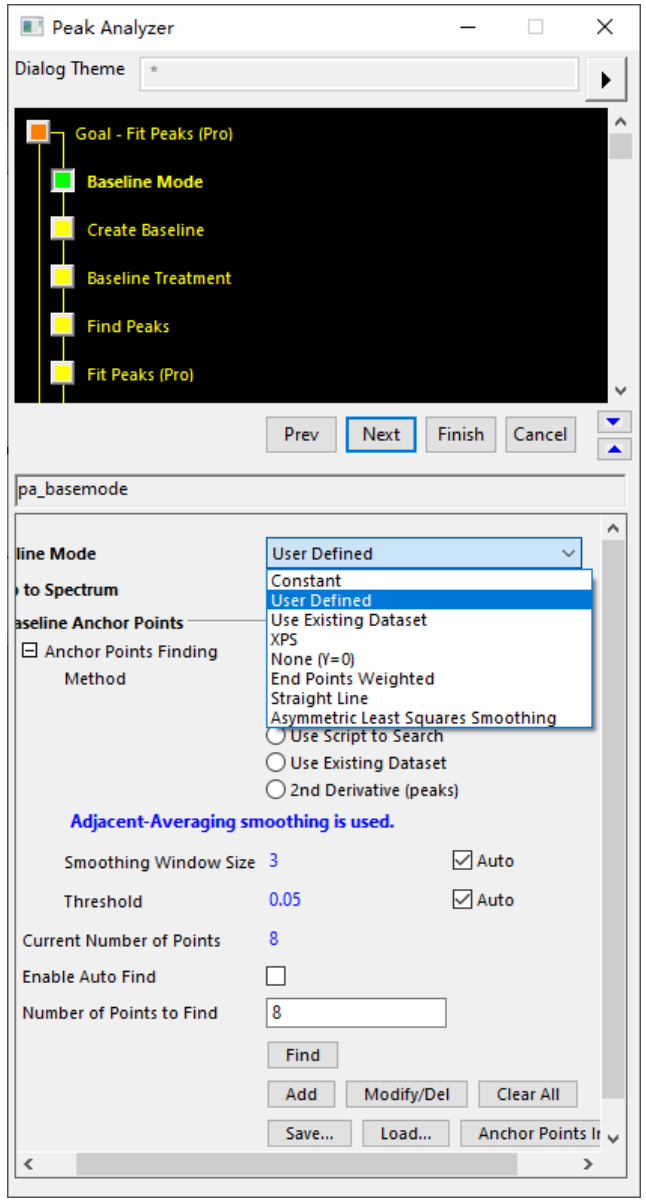
Fit Peaks


Peak Analyzer Preview *
4.25
3.4
2.55
1.7
0.85
0
-0.85
-1.7
-2.55
0
46
92
138
184
230
276
322
368

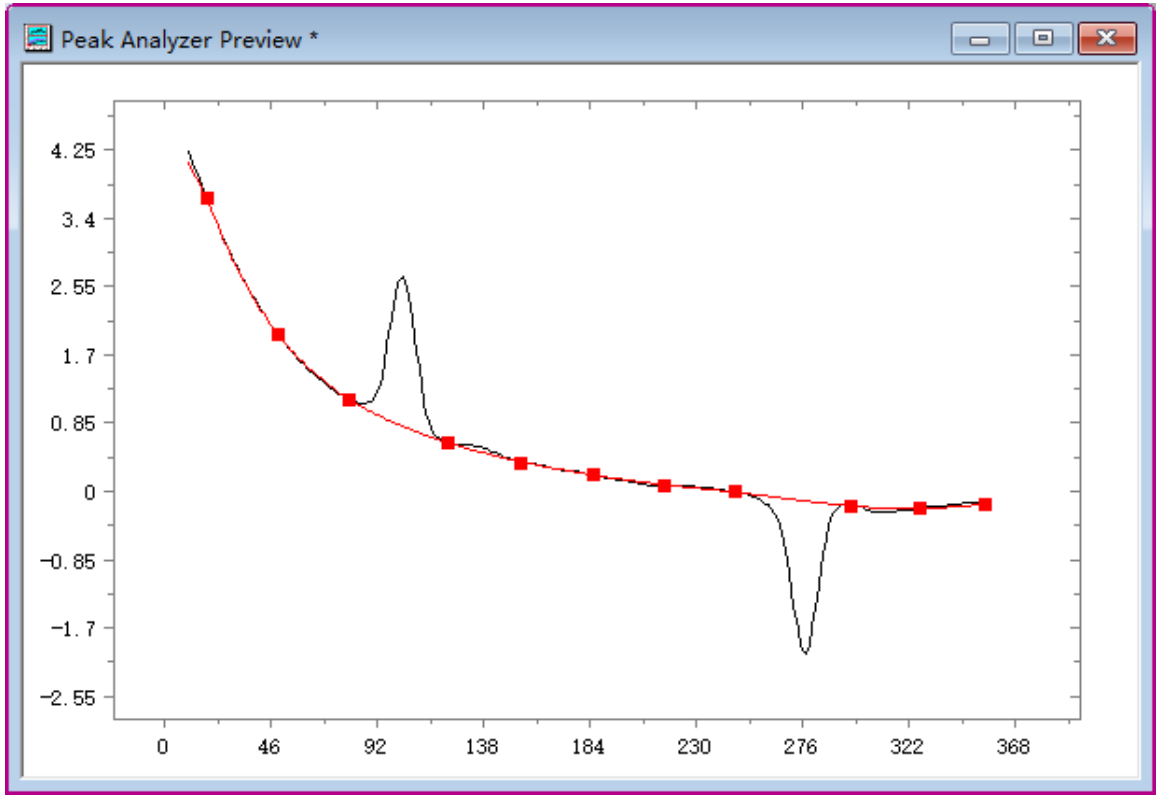

Peak Analyzer
Dialog Theme
Goal - Fit Peaks (Pro)
Baseline Mode
Baseline Treatment
Find Peaks
Fit Peaks (Pro)
Finish
Prev
Next
Finish
Cancel
pa_goal
Select spectrum data and Goal
Recalculate
Auto
Define a baseline, find and fit peaks
Goal
Integrate Peaks
Create Baseline
Subtract Baseline
Find Peaks
Fit Peaks (Pro)
Input
3aseline"!(A"Channel",B"Amplitude")

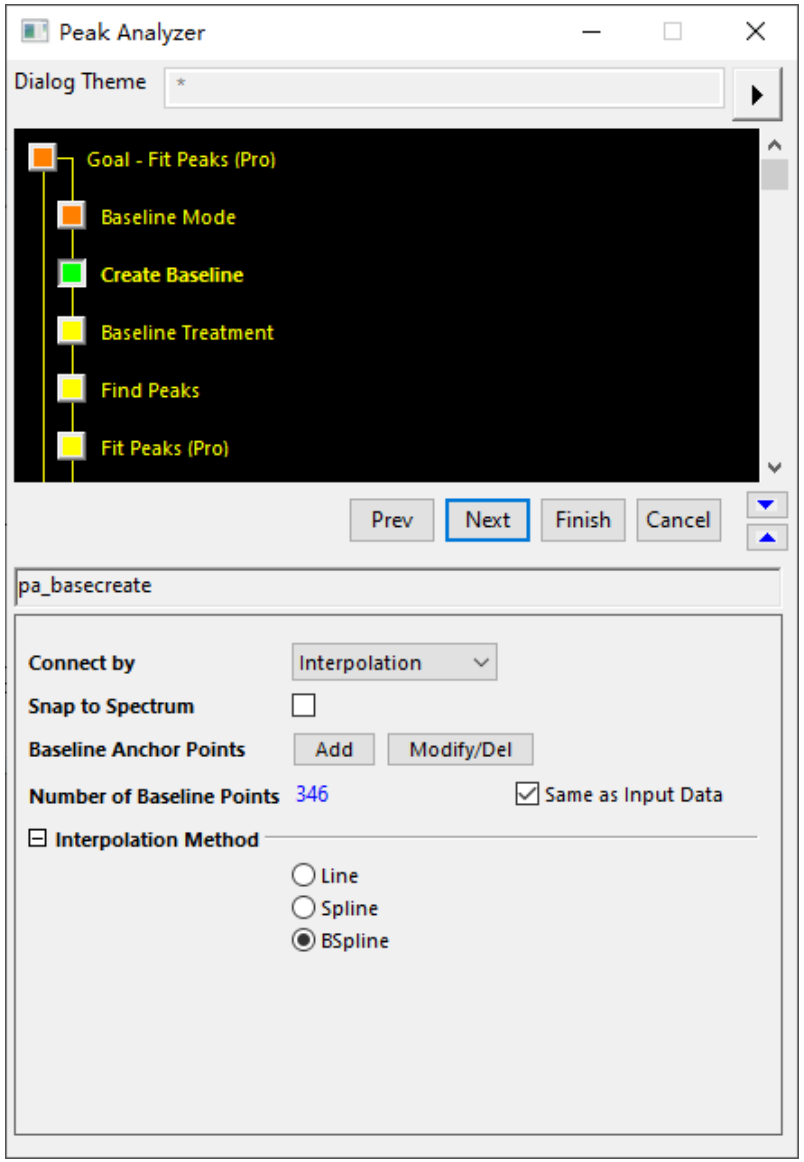
Fit Peaks


Peak Analyzer Preview *
Get Points
Done
You have added 3 points. Click DONE or press Ctrl+Enter to fir
Space=cross-hair size
4.25
3.4
2.55
1.7
0.85
0
-0.85
-1.7
-2.55
0
46
92
138
184
230
276
322
368

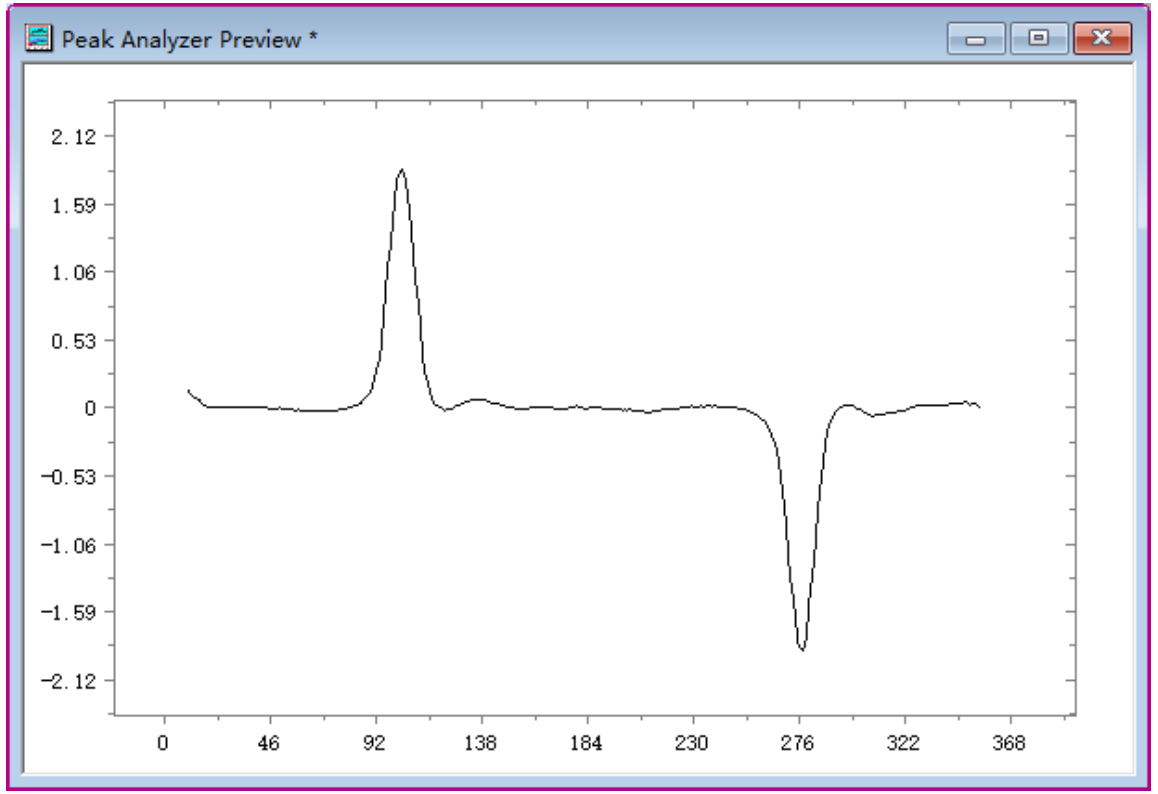

Peak Analyzer
Dialog Theme
Goal - Fit Peaks (Pro)
Baseline Mode
Create Baseline
Baseline Treatment
Find Peaks
Fit Peaks (Pro)
Prev
Next
Finish
Cancel
pa_basemode
line Mode
User Defined
to Spectrum
aseline Anchor Points
Anchor Points Finding
Method
Constant
User Defined
Use Existing Dataset
XPS
None (Y=0)
End Points Weighted
Straight Line
Asymmetric Least Squares Smoothing
Use Script to Search
Use Existing Dataset
2nd Derivative (peaks)
Adjacent-Averaging smoothing is used.
Smoothing Window Size
3
Auto
Threshold
0.05
Auto
Current Number of Points
8
Enable Auto Find
Number of Points to Find
8
Find
Add
Modify/Del
Clear All
Save...
Load...
Anchor Points I

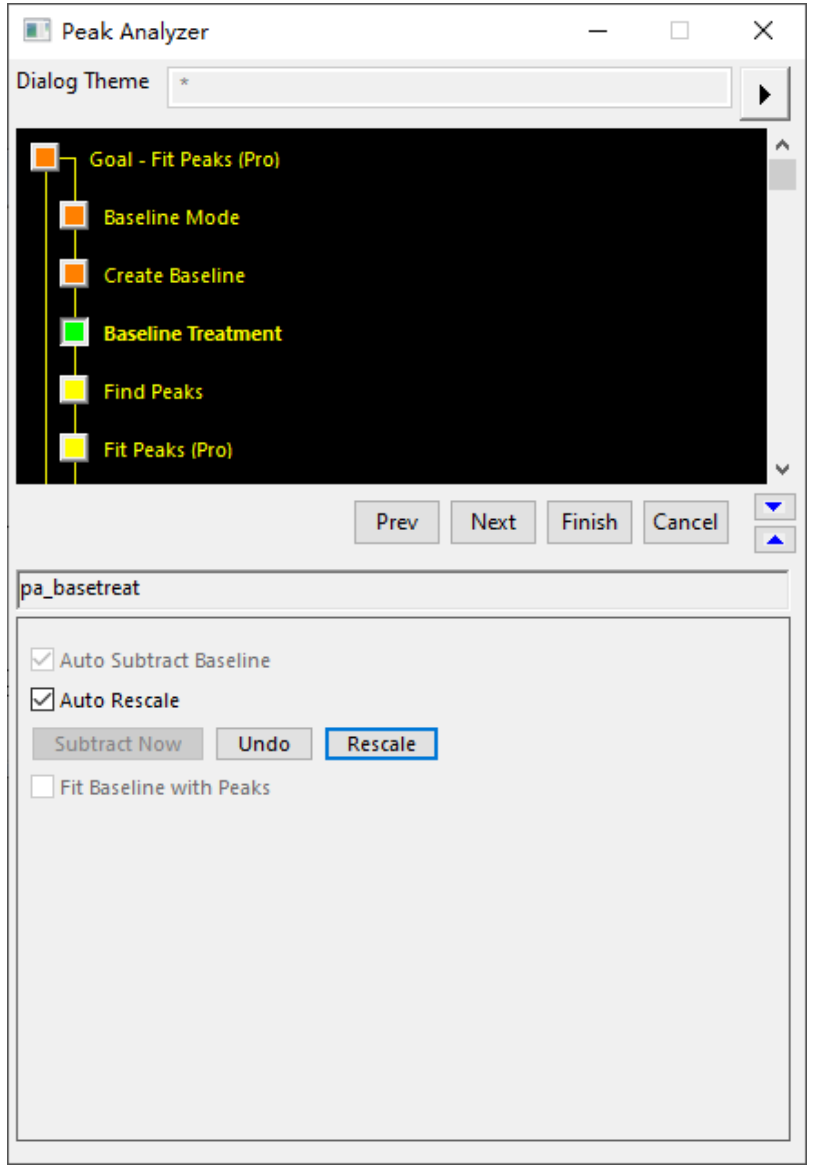
Fit Peaks


Peak Analyzer Preview *
4.25
3.4
2.55
1.7
0.85
0
-0.85
-1.7
-2.55
0
46
92
138
184
230
276
322
368

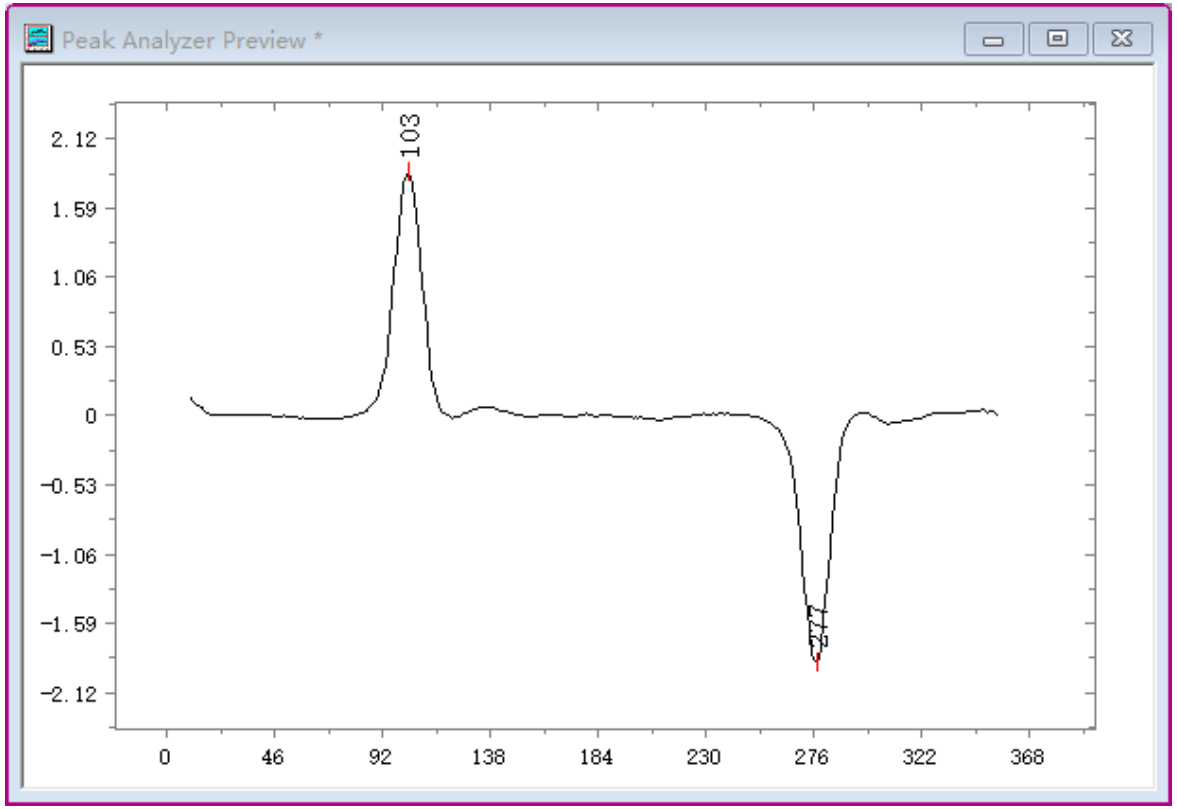

Peak Analyzer
Dialog Theme
Goal - Fit Peaks (Pro)
Baseline Mode
Create Baseline
Baseline Treatment
Find Peaks
Fit Peaks (Pro)
Prev
Next
Finish
Cancel
pa_basecreate
Connect by
Interpolation
Snap to Spectrum
Baseline Anchor Points
Add
Modify/Del
Number of Baseline Points
346
Same as Input Data
Interpolation Method
Line
Spline
BSpline

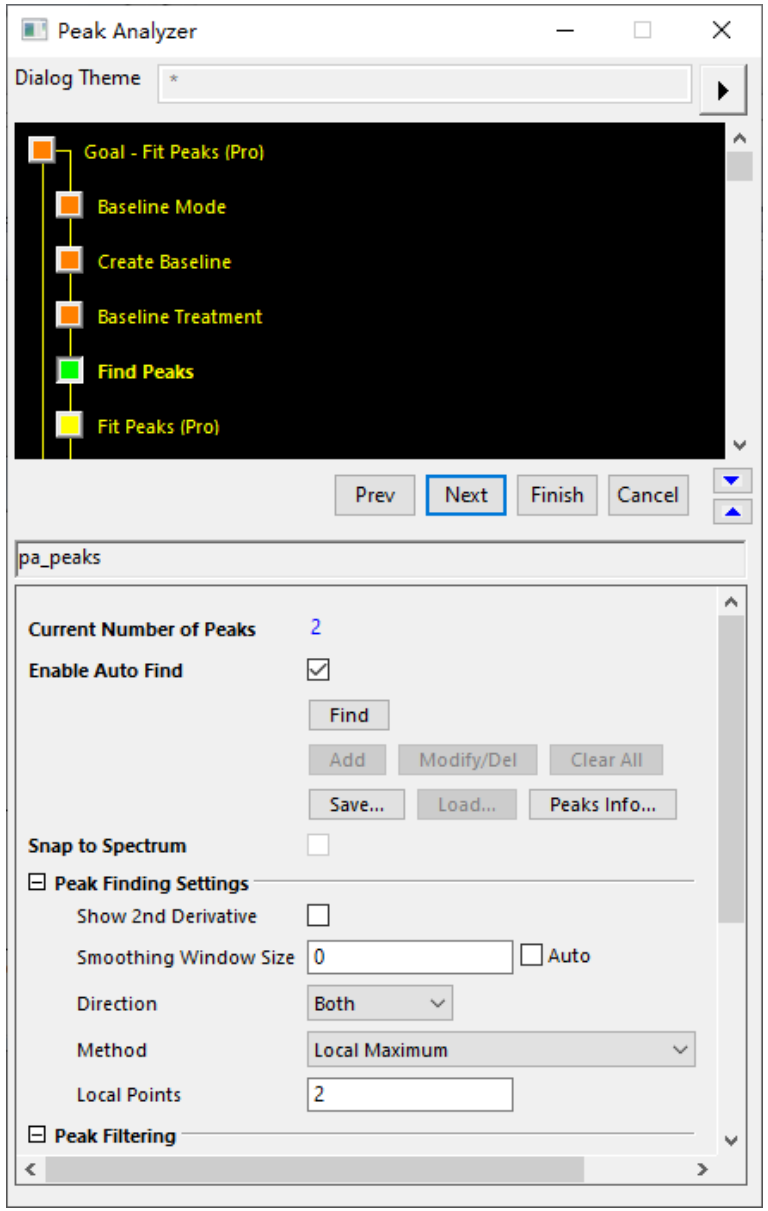
Fit Peaks


Peak Analyzer Preview *
2.12
1.59
1.06
0.53
0
-0.53
-1.06
-1.59
-2.12
0
46
92
138
184
230
276
322
368

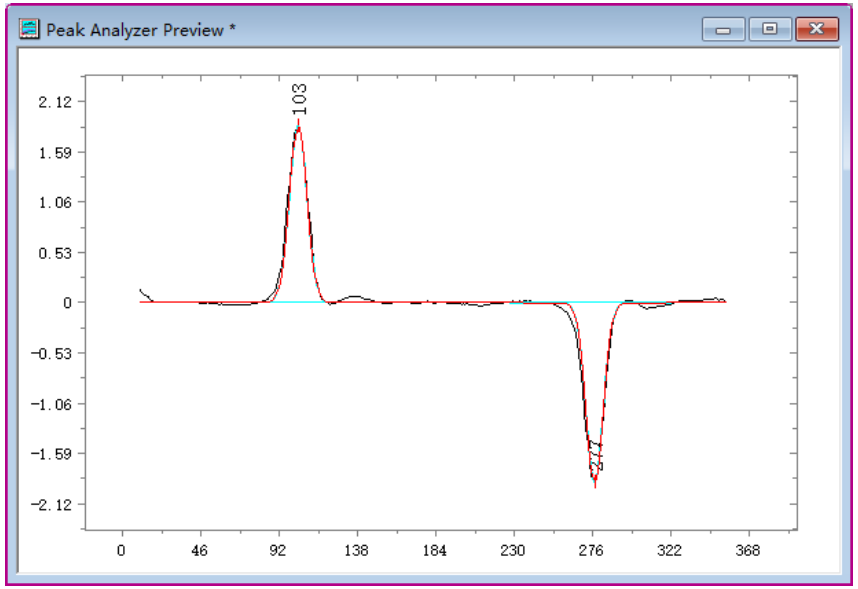

Peak Analyzer
Dialog Theme
Goal - Fit Peaks (Pro)
Baseline Mode
Create Baseline
Baseline Treatment
Find Peaks
Fit Peaks (Pro)
Prev
Next
Finish
Cancel
pa_basetreat
Auto Subtract Baseline
Auto Rescale
Subtract Now
Undo
Rescale
Fit Baseline with Peaks

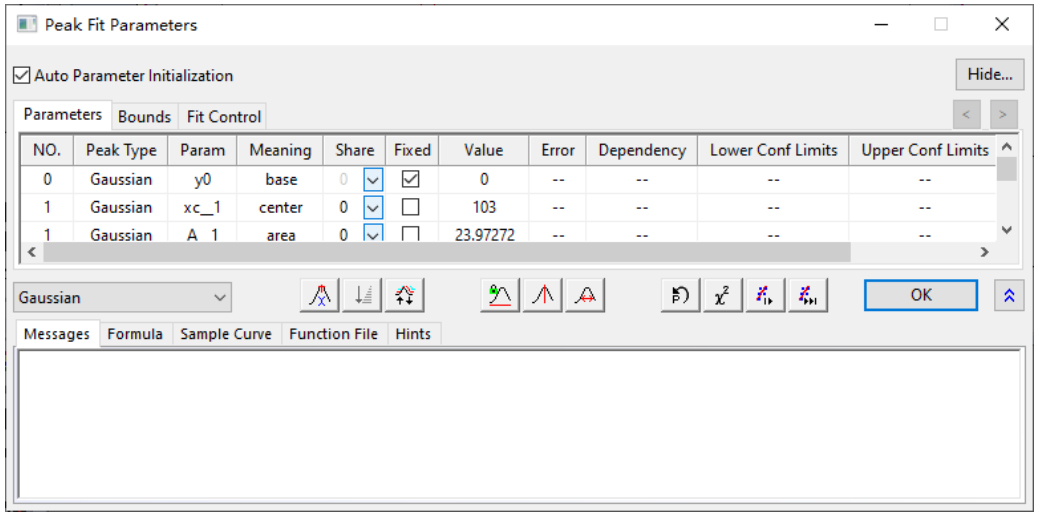
Fit Peaks

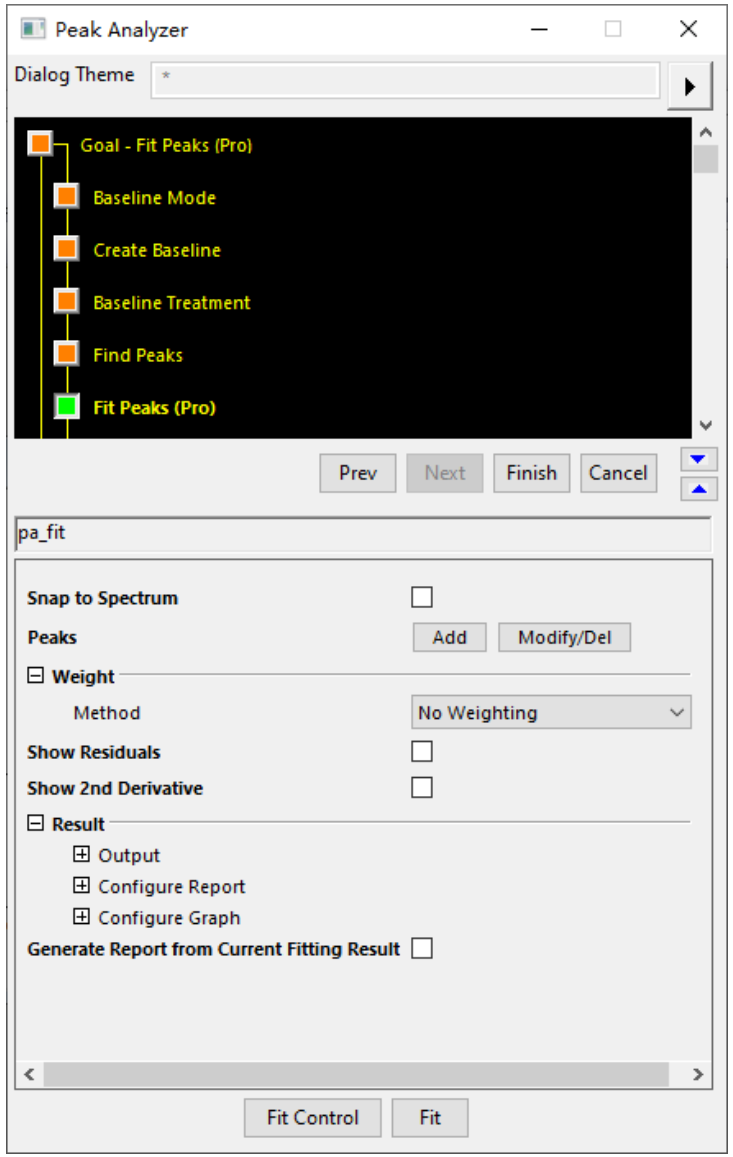

Peak Analyzer Preview *
2.12
1.59
1.06
0.53
0
-0.53
-1.06
-1.59
-2.12
0
46
92
138
184
230
276
322
368
103
277


Peak Analyzer
Dialog Theme
Goal - Fit Peaks (Pro)
Baseline Mode
Create Baseline
Baseline Treatment
Find Peaks
Fit Peaks (Pro)
Prev
Next
Finish
Cancel
pa_peaks
Current Number of Peaks
2
Enable Auto Find
Find
Add
Modify/Del
Clear All
Save...
Load...
Peaks Info...
Snap to Spectrum
Peak Finding Settings
Show 2nd Derivative
Smoothing Window Size
0
Auto
Direction
Both
Method
Local Maximum
Local Points
2
Peak Filtering

Fit Peaks


Peak Analyzer Preview *
2.12
1.59
1.06
0.53
0
-0.53
-1.06
-1.59
-2.12
0
46
92
138
184
230
276
322
368
103
23.97272


Peak Fit Parameters
Auto Parameter Initialization
Hide...
Parameters
Bounds
Fit Control
NO.
Peak Type
Param
Meaning
Share
Fixed
Value
Error
Dependency
Lower Conf Limits
Upper Conf Limits
0 Gaussian y0 base 0 0 -- -- -- --
1 Gaussian xc_1 center 0 103 -- -- -- --
1 Gaussian A_1 area 0 23.97272 -- -- -- --
Gaussian
OK
Messages
Formula
Sample Curve
Function File
Hints


Peak Analyzer
Dialog Theme
Goal - Fit Peaks (Pro)
Baseline Mode
Create Baseline
Baseline Treatment
Find Peaks
Fit Peaks (Pro)
Prev
Next
Finish
Cancel
pa_fit
Snap to Spectrum
Peaks
Add
Modify/Del
Weight
Method
No Weighting
Show Residuals
Show 2nd Derivative
Result
Output
Configure Report
Configure Graph
Generate Report from Current Fitting Result
Fit Control
Fit

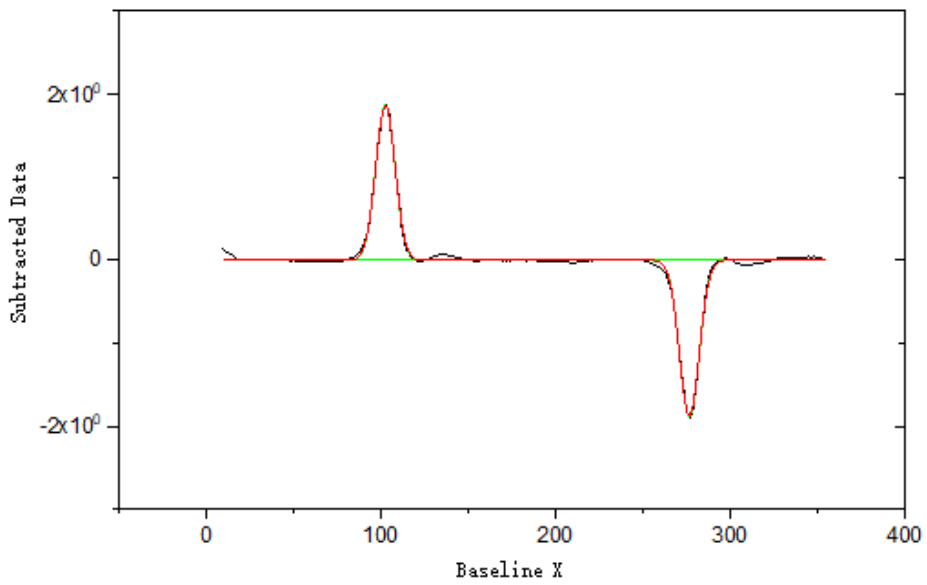
Fit Peaks

Graph8 *

1

Peak Analysis

Data Set: [PeaksonExpone]"Peaks on Exponential Baseline"!B"Amplitude" Date: 2021/4/26
BaseLine: BSpline
Chi^2=8.69517E-04 Adj. R-Square=9.95688E-01 # of Data Points=346
SS=2.95636E-01 Degrees of Freedom=340



Fitting Results

Peak Index	Peak Type	Area Intg	FWHM	Max Height	Center Grvty	Area IntgP
1	Gaussian	25.88236	13.036	1.86521	102.73701	49.48519
2	Gaussian	-26.41771	13.19345	-1.88107	276.65481	-50.51181

PeaksonExpone - Peaks on Exponential Baseline.dat *

1 *Peak Fit (Gaussian) (2021/4/26 11:27:36)*

Notes

X-Functions

	X-Function	Description
1	pa_goal	Goal
2	pa_basemode	Baseline Mode
3	pa_basecreate	Create Baseline
4	pa_basetreat	Baseline Treatment
5	pa_peaks	Find Peaks
6	pa_fit	Fit Peaks (Pro)

Input Data

Baseline Mode(User Defined)

Baseline Anchor Points

	1	2	3	4	5	6	7	8	9	10	11
X	18	49	80	122.44402	154	185	216	247	296.74517	326.60232	3
y	3.66	1.95	1.15	0.60566	0.36	0.22	0.07	0	-0.18476	-0.20801	-0.

Baseline was subtracted
Number of Baseline Anchor : 11
Connected by Interpolation : BSpline

Parameters

		Value	Shared	Standard Error	t-Value	Prob>|t|	Dependen
Peak1(Gaussian)	y0	0	0	0	—	—	
	xc	102.73701	0	0.03951	2600.12687	0	
	A	25.88236	0	0.15999	161.77949	0	0.333
	w	13.036	0	0.09304	140.10515	0	0.333
Peak2(Gaussian)	y0	0	0	0	—	—	
	xc	276.65481	0	0.03942	7019.01543	0	
	A	-26.41771	0	0.16095	-164.13751	0	0.333
	w	13.19345	0	0.09282	142.14725	0	0.333

Reduced Chi-sqr = 8.6951710003E-4
COD(R^2) = 0.99575053735134

FitPeaks1 | FitPeakCurve1 | PeakProperties1

Learning Resources

Learning Resources

中国科学技术大学
University of Science and Technology of China

	Context	URL/Menu
Learning Center	◆ Graph Samples & Analysis Samples ◆ Learning Resources (tutorials, videos, blog, etc.)	Menu: Help-Learning Center or F11
Help Center	◆ List of all kinds of learning resources ◆ Installation, Licensing, etc.	originlab.com/HelpCenter
Documentation	◆ User Guide, Tutorials, Quick Help, etc.	originlab.com/doc
Video Tutorials	◆ Introduction of Origin's different features, currently 200+ short videos	originlab.com/Videos
Online Webinars	◆ Watch and learn from recorded webinars	originlab.com/Webinars
Graph Gallery	◆ View typical graph examples by category ◆ Download OPJ file for further learning	originlab.com/GraphGallery
User Case Studies	◆ Provide with ideas and insights on how to use Origin efficiently	originlab.com/CaseStudies
User Forum	◆ Provide a space for users to share and discuss ideas and questions related to Origin	originlab.com/Forum

Support Resources

Video Tutorials

Origin Blog

FAQs

User Forums

Apps

Graph Gallery

User Case Studies

Documentation and Tutorials

- Newsletter
- Training Webinar
- Release Notes
- Documentation (PDF)

"Origin is an extremely powerful software package and their technical support has been very responsive. As a new Origin user it has reduced my learning curve tremendously. Between the online videos and rapid replies to my e-mails I have been extremely pleased."

Installation

- Get Started with Your Package
- Change Installed Serial Number
- Direct Install
- Multi-user Deployment
- Run Origin on a Mac
- System Requirements
- OS Compatibility by Version
- Apply Service Release

Licensing

- Convert Demo to Product
- License/System Transfer Request

Node Locked
License Activation/Deactivation:

- Single-user
- Multi-user

Tips for Administrators

Concurrent Licensing

- Complete License Guide
- Update License After Maintenance Renewal
- Update License After Purchasing Additional Users

Contact Support

OriginLab Corporate Headquarters
1-800-969-7720 (US & Canada)
1-413-586-2013

All Books ▸

User Guide

Tutorials

Quick Help

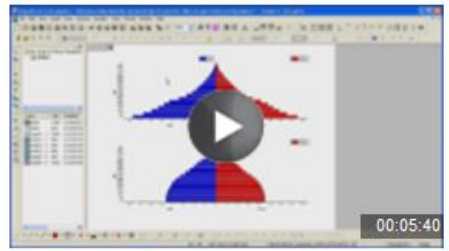
Origin Help

X-Function

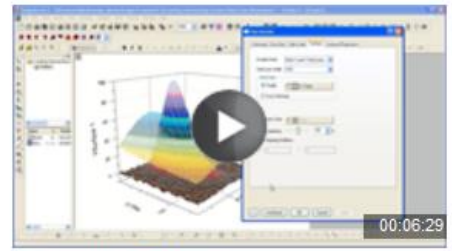
Origin C

Origin/OriginPro Videos

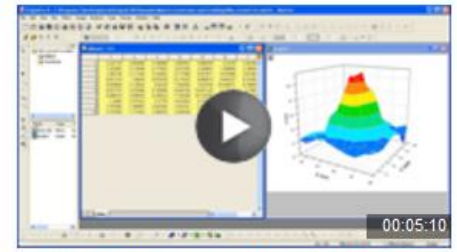
Search...



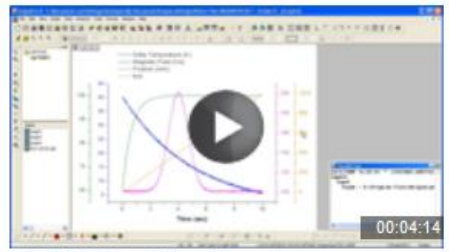
Creating a Multiple Layer Bar Plot



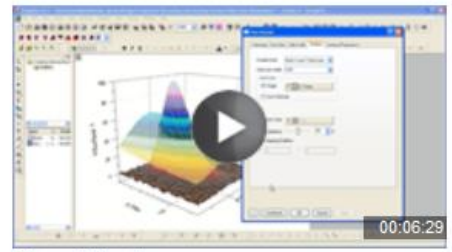
Intersecting Surfaces



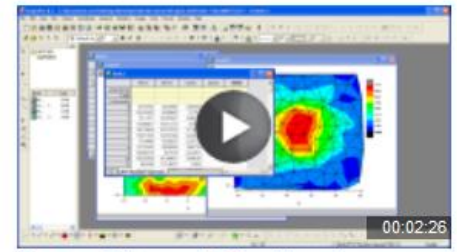
Convert Worksheet to Matrix to Plot 3D Surface



Multi-Y Plots Using Templates

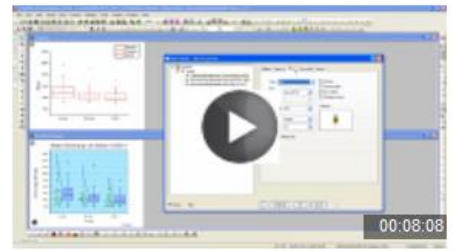


Virtual Matrix

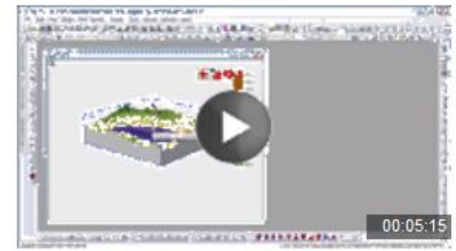


Contour Plots and Color Mapping

Radar/Spider Chart



Box Plot



Origin 3D OpenGL Graphs

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Topic	Date Recorded	Playback	Related files	YouTube
Working with NetCDF Climate Data in Upcoming Origin 2021b Join this webinar for a preview of how NetCDF Climate data can be imported and analyzed in our up-coming Origin 2021b version. A beta release will be available for testing and for providing us feedback on the implementation.	12/11/2020	Play Download	Upon request (webinar@originlab.com)	▶
Basic Graphing In this webinar, we will go over the basics of creating, modifying and publishing graphs.	12/4/2020	Play Download	OPJU File	▶
Data Processing We will demonstrate various data transformation and reduction tools including stacking and unstacking data, reducing duplicates, pivot tables, splitting and joining worksheets.	12/4/2020	Play Download	OPJU File	▶
Curve Fitting In this webinar, a member of OriginLab's Technical Support department will introduce various linear and nonlinear curve fitting tools in Origin 2020b including Gadgets, analysis tools, and Apps geared towards basic curve fitting. The presenter will run through examples of typical curve fitting scenarios that most users will encounter.	11/20/2020	Play Download	OPJU File	▶
User-Defined Fitting Functions This webinar will introduce creating user-defined fitting functions with Origin. We will introduce the tools associating with creating functions and use those tools to adapt existing functions as well as create new ones from scratch.	11/20/2020	Play Download	OPJU File	▶
What's New in Origin 2021 In this webinar, we will cover exciting new features that are available in Origin 2021 (Excel Formula Bar, Color Manager, Python Improvments, New Graph Types and Apps, etc.)	11/13/2020	Play Download	OPJU File	▶

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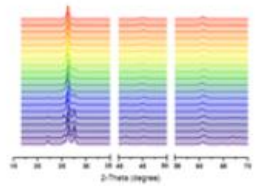
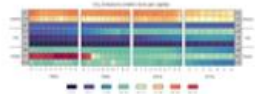
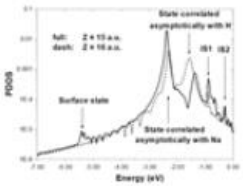
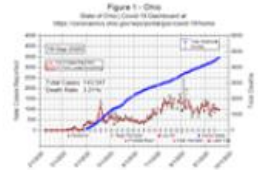
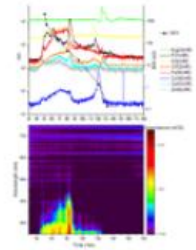
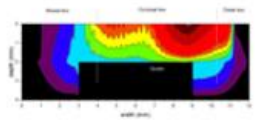
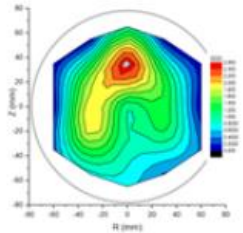
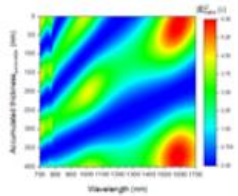
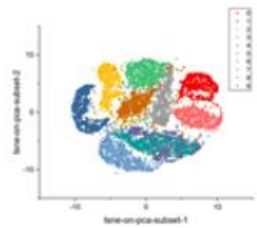
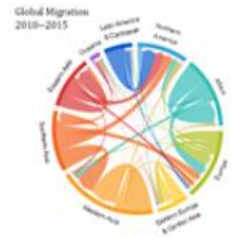


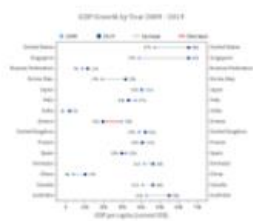
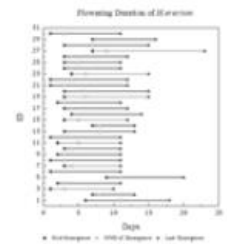
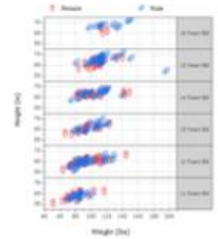
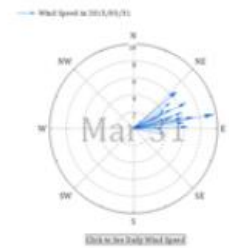

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Min. Origin Version

N/A

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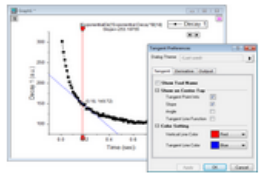
Tangent by OriginLab



Min.Version: 2016 (9.3) Updated on: 6/29/2020

Draw a tangent line at selected point of a data plot.

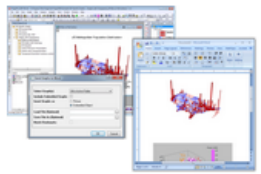
App

77 Ratings

77 Comments

25176 Downloads (90 Days)

Send Graphs to Word by OriginLab



Min.Version: 2018b (9.55) Updated on: 7/24/2018

Send selected Origin graphs to Microsoft Word.

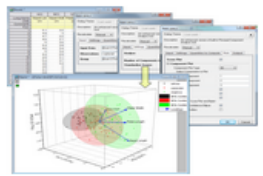
App

18 Ratings

18 Comments

13388 Downloads (90 Days)

PRO Principal Component Analysis by OriginLab



Min.Version: 2017 (9.4) Updated on: 12/5/2019

An enhanced version of Principal Component Analysis tool.

App

27 Ratings

27 Comments

13236 Downloads (90 Days)

Send Graphs to PowerPoint by OriginLab

Min.Version: 2018b (9.55) Updated on: 11/30/2018

Send graphs to PowerPoint as picture or embedded object.

App

11 Ratings

11 Comments

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Simple Fit by OriginLab

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	Sticky: OriginPro 免费中文学习版任性使用	vickey	50	271306	10/08/2020 10:33:39 PM by: yuki_wu
	Sticky: OriginPro 校园版	Echo_Chu	0	5312	12/09/2019 10:30:29 AM by: KeiAhiko
	Sticky: Origin软件版本分类说明	JacquelineHe	0	1309	11/12/2019 02:28:35 AM by: JacquelineHe
	Sticky: Origin中文视频教程	Linda_zeng	26	45732	10/30/2019 05:38:59 AM by: Echo_Chu
	Sticky: 给 Origin 初学者的学习建议	Echo_Chu	1	5986	11/16/2018 02:44:31 AM by: Echo_Chu
	Sticky: Origin 学习版 MSI 安装包	timist	0	4927	05/08/2017 05:14:45 AM by: timist
	Sticky: Origin原版中英文视频教程(百度网盘)	SeanMao	3	18230	01/11/2017 02:51:23 AM by: Echo_Chu
	Sticky: FAQ:(学习版)如何显示所有窗口?	yuki_wu	0	8207	07/24/2016 10:57:58 PM by: yuki_wu
	Sticky: Origin软件学习交流群	SeanMao	0	5451	05/11/2016 11:40:28 PM by: SeanMao
	坐标轴名称中的微米符号无法显示	milan3	0	7	03/30/2021 08:42:58 AM by: milan3
	如何作图 双横坐标关联	清枫1233	1	24	03/23/2021 5:38:31 PM by: cpyang
	求救，如何提取柱状图的数据	夜寐	2	68	02/26/2021 06:38:58 AM by: 夜寐
	使用新的激活码续期失败	luckyhan1994	3	612	02/25/2021 9:41:54 PM by: yuki_wu
	Google map 插件无法使用	liyinqu@163.com	2	148	01/20/2021 08:11:13 AM by: liyinqu@163.com

Author	Topic

Echo_Chu
China
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Posted - 10/27/2020 : 9:40:02 PM

OriginPro 2021 中文学习版正式发布

如果您已经安装过 OriginPro 2021 Beta 版，运行正式版安装包时候请选择 "修复"。

如果您已经申请 OriginPro 学习版并激活，可以直接安装 OriginPro 2021 进行使用，安装时不需填序列号，启动 Origin 2021 之后选择 Help: Activate License (帮助: 激活许可证)，点击 "激活"。

需要 OriginPro 学习版序列号或者学习版已过期的同学可以参考以下视频:
https://www.bilibili.com/video/BV1SE41157o4

OriginPro 2021 百度网盘下载链接
https://pan.baidu.com/s/1iQdC_CCdt2z8pklrlJOWog 提取码: p57u

OriginPro 2021 官网下载链接
https://www.originlab.com/MyOrigin2021Download

注:
1. 需申请学习版序列号并按申请指引成功激活后 OriginPro 才可安装为中文版
2. OriginPro 中文版支持 OriginPro 中文和英文界面的转换 (菜单 Help: Change Language)

OriginPro 2021 中文介绍网页
http://www.originlab.com/2021C

OriginPro 2021 相关视频
2021 新功能介绍
https://www.bilibili.com/video/BV1ra4y1L7cL

2021 中文文档
https://pan.baidu.com/s/1kULlJDH

Author	Topic
SeanMao China 288 Posts	Posted - 05/11/2016 : 10:33:02 PM

Origin软件用户交流群 - 南方 **210500924**
Origin软件用户交流群 - 北方 **821984945**
Origin软件用户交流群 - 华东 **828185090**
Origin软件用户交流群 - 西部 **645057781**
Origin软件用户交流群 - 华中 **1071333128**

Origin软件用户交流群是一个由OriginLab中国团队创建的用于Origin学习和交流的QQ群。

在这里，大家的问题可以得到更专业的解答，群里还会不定期分享一些稀缺优质资源和Origin产品的一手信息。群里的盆友大多来自各大高校，大家可以彼此分享使用Origin的经验，互帮互助。

Origin中文论坛收集了软件交流群里面大家常问的问题并提供一些Origin使用的技巧和黑科技。希望大家踊跃发帖，壮大我们这个活泼，友爱的大集体。

入群须知:

为了方便QQ群成员的管理，请大家在加入Q群之后把群备注名称改为格式:

学校-专业-昵称

谢谢!

希望Origin能够更好地帮助各位朋友，也希望大家多多提出建议，让我们不断完成产品。

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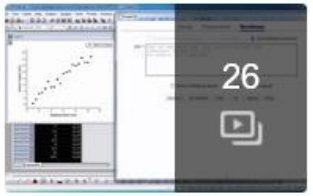

数据绘图
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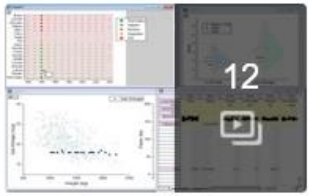

数据处理
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数据分析
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批量处理
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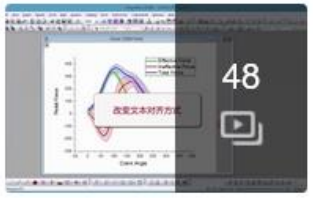

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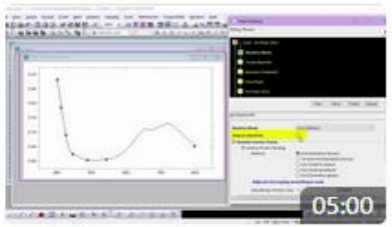

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非线性拟合入门

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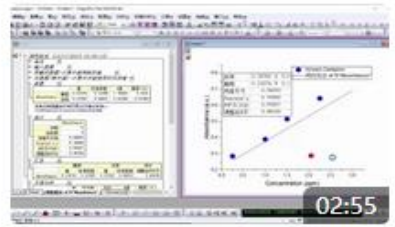

OriginPro分析及自动重算入门

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OriginPro统计图入门

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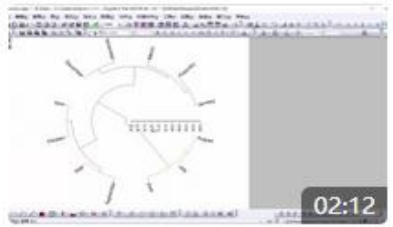

OriginPro中的聚类分析

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Origin数据分析简介

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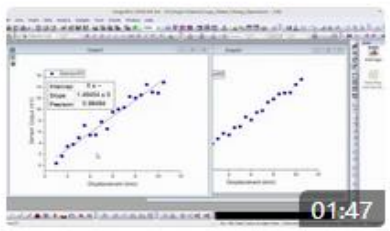
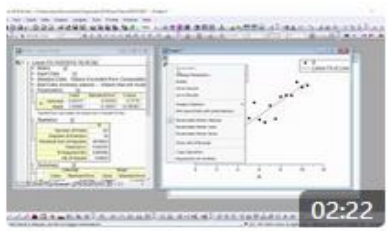


从图上复制黏贴拟合操作

249 3-10



定制图上的拟合报告表格

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Simple Fit App - 简单曲线拟合

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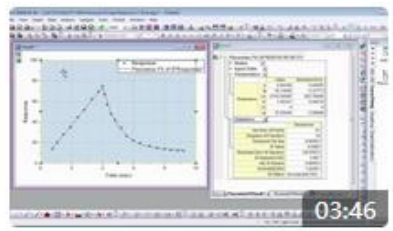

Piecewise Fit APP - 分段曲线拟合

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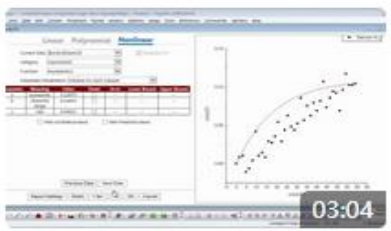
Rank Model App - 最佳拟合模型的选择

538 3-6



Speedy Fit - 快速拟合多个数据

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Stats Advisor - 统计顾问

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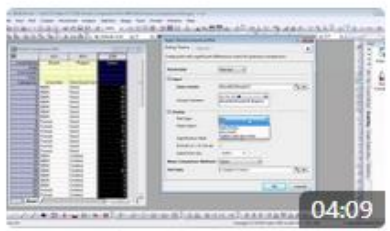

Paired Comparison Plot App - 绘制带有差异显著性标记的图

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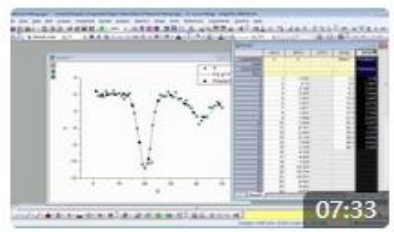

Neural Network Fitting App - 神经网络拟合

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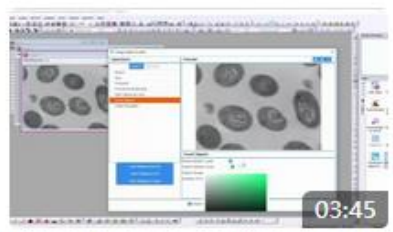

Image Object Counter - 图像识别工具

366 3-6

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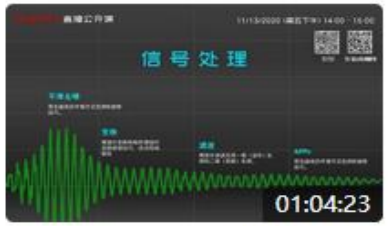
统计入门 ——2020 年 12 月 4 日直播公开课

538 12-4



信号处理 ——2020 年 11 月 13 日直播公开课

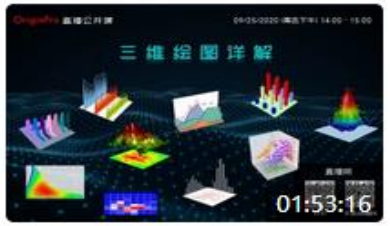
681 11-13

Origin 2021 新功能介绍 ——2020 年 10 月 30 日 直播公开课

1049 10-30

论文配色指南 ——2020 年 10 月 16 日 直播公开课

7916 10-16



三维绘图详解 (3D Graph) ——2020 年 9 月 25 日直播公开课

1896 9-25

数据地图 (Data on Map) ——2020 年 9 月 11 日直播公开课

687 9-11

多图层绘制攻略 ——2020 年 8 月 28 日直播公开课

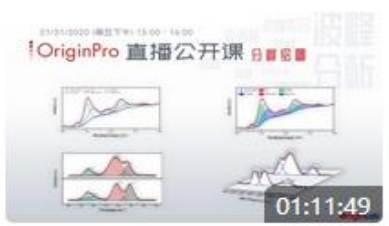
1306 8-28

Origin 与 Python 交互 ——2020 年 8 月 14 直播公开课

720 8-14

Python语法基础介绍 ——2020 年 8 月 14 直播公开课

449 8-14



分峰绘图 (Peak Analysis)—— 2020 年 7 月 31 日 直播公开课 -

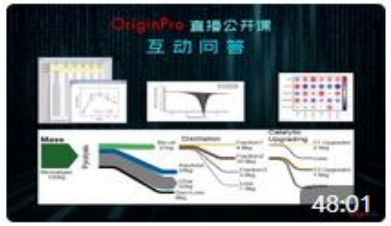
2325 8-3

波谱分析 (Peak Analysis)—— 2020 年 7 月 31 日 直播公开课

2068 7-31

Origin 和 Python 的交互使用—— 2020 年 7 月 17 日 直播公开课

1054 7-20



互动问答—— 2020 年 7 月 17 日 OriginPro 直播公开课

1123 7-17

XRD 科研绘图—— 2020 年 7 月 3 日 直播公开课

3871 7-3

拟合专题—— 2020年6月12日 直播公开课

2818 6-13

拼图专题—— 2020年5月29日 直播公开课

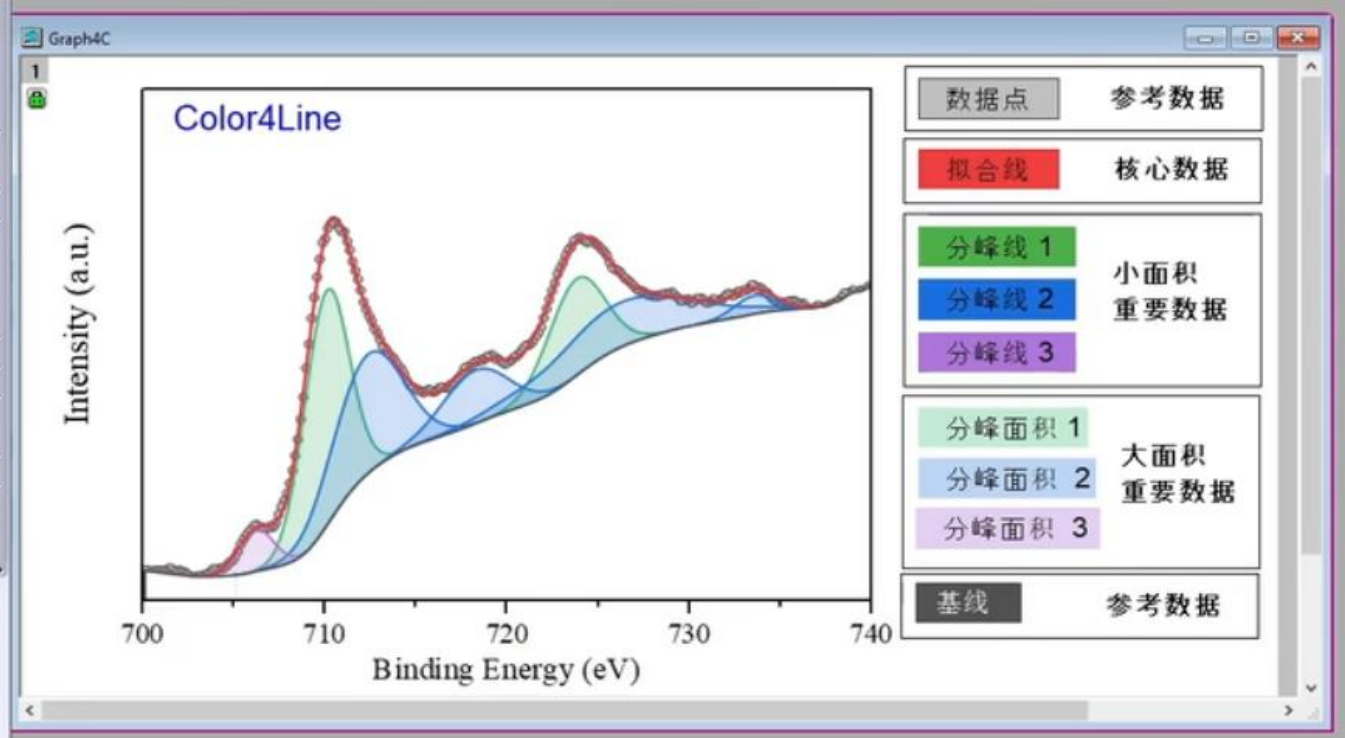
1376 5-29

2020b 新功能介绍专题 —— 2020 年5月8日直播公开课

1451 5-9

Origin 入门—— 2020年3月20日 直播公开课

1904 3-22



论文配色的基本原则

颜色为数据逻辑服务!!!

有意义的颜色

- 显示分组
  - 用不同颜色表达区别
  - 用相近颜色表示同一分组
- 用配色展现逻辑关系，突出关键数据

相似色

- 同一色系或者色轮上相邻
- 多个数据不要超过三个色系

（建议多用内置颜色或者参考成熟的配色方案）

根据图面积选择

- 大面积的图用柔和的颜色（柱状图/面积图）
- 小面积的图用强烈的颜色（折线图/散点图）

THANK YOU