

ORIGIN 2017 技术讲座

ORIGIN基础功能介绍

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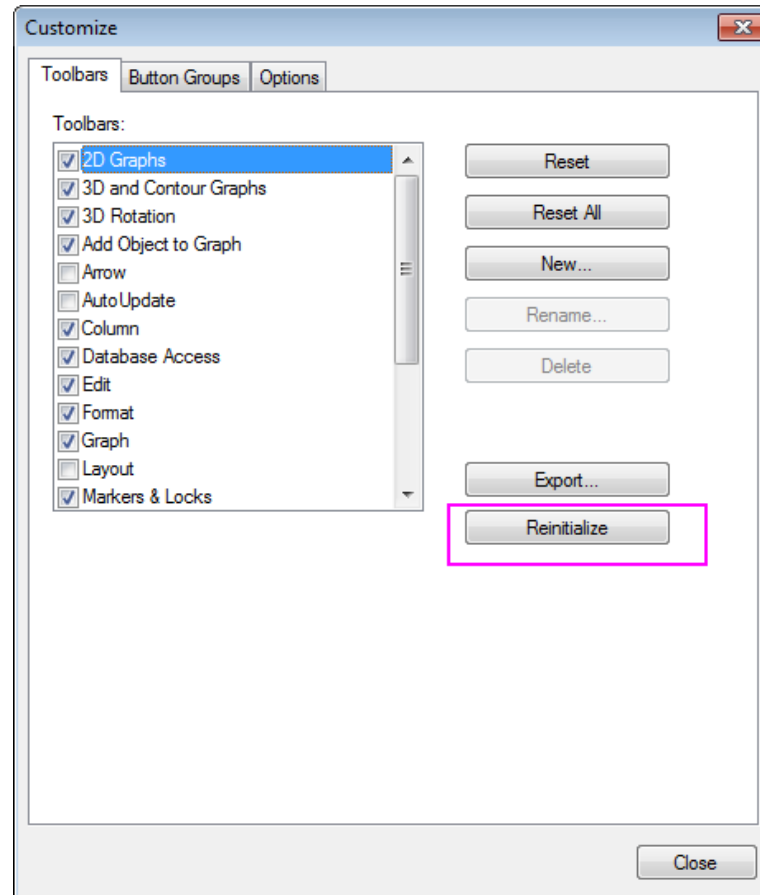
内容概括

1. Origin界面介绍
2. 数据导入
3. 数据操作
4. 基本绘图
5. 学习与帮助

1. Origin界面介绍

Reinitialize


























-初始化Origin窗口及工具栏



App Gallery

-小程序

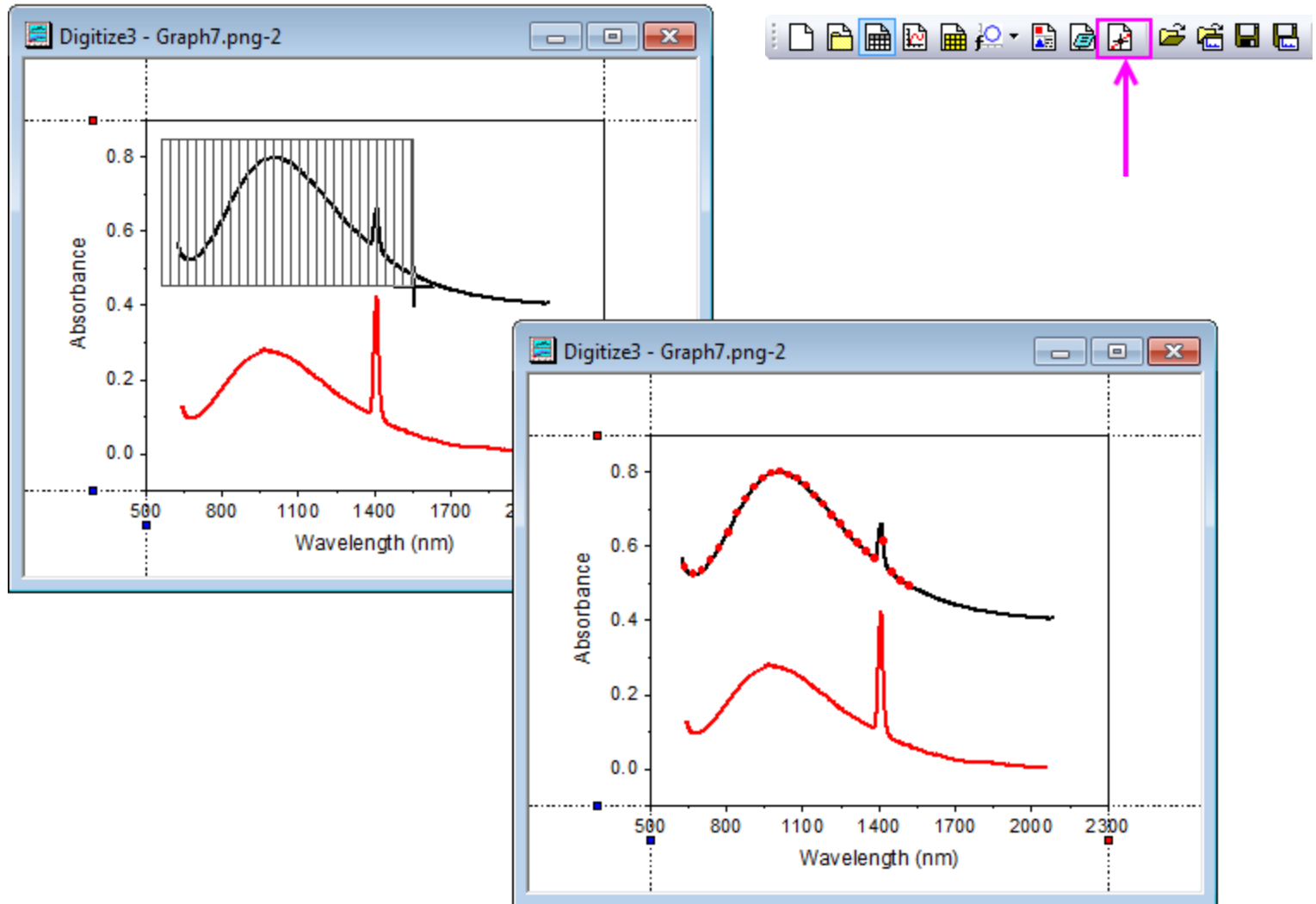
Apps
▼ □ ×

 Heat Map with Dendr...	 Plot Sub Matrix	 Curvature Radius	 ODE Solver	 Maps Online	 Import Shapefile
 Polynomial Surface Fit	 Polyline Profiles	 3D Confiden...	 HDF5 Browser	 Distance Between T...	 Compare Linear Fit P...
 Level Crossing	 Tangent	 LaTeX	 Hurst Exponent	 Agilent MS Reader	 Constrained Multiple R...
 Onset Of Slope	 Send Graphs to Word	 Volcano Plot	 Time-Freq...	 Import Tektroni...	 Monte Carlo Simulation
 Add Apps					

2. 数据导入

Digitizer

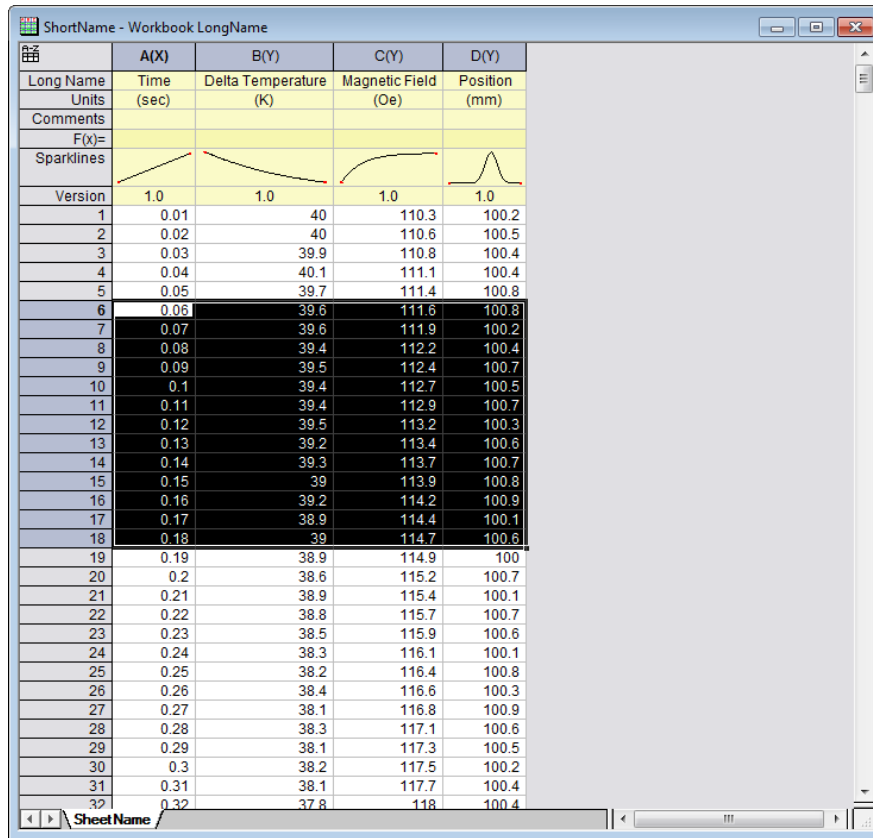
-图像数据转化工具



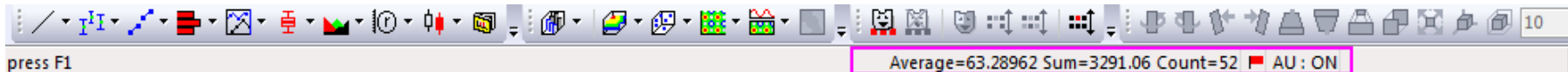
3. 数据操作

Status Bar

-任务栏可查看数据集合的各值



选中任意数据区域即可查看



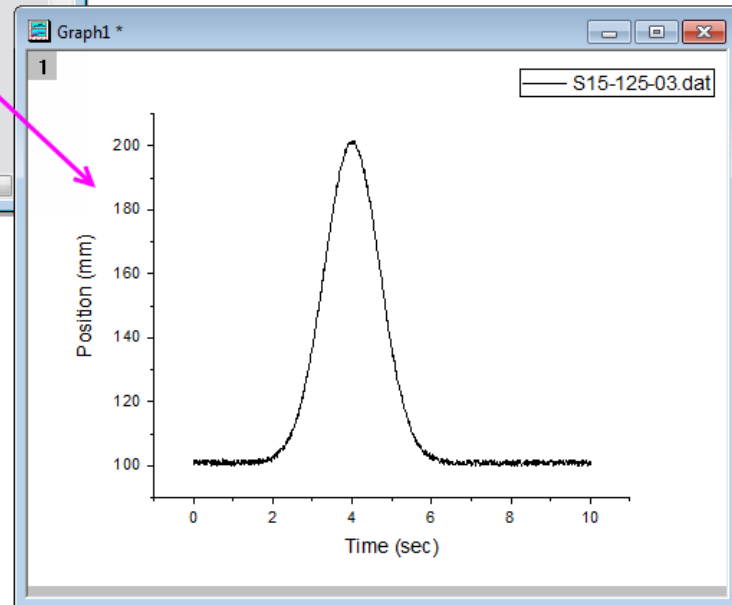
4. 基本绘图

Add Data Plot

-添加曲线

Book4 - TRIAL 3

	A(X)	B(Y)	C(Y)	D(Y)
Long Name	Time	Delta Temperature	Magnetic Field	Position
Units	(sec)	(K)	(Oe)	(mm)
Comments	S32-014-04.dat	S32-014-04.dat	S32-014-04.dat	S32-014-04.dat
F(x)=				
Sparklines				
Version	3.5	3.5	3.5	3.5
No. of point	850	850	850	850
Sample	CO milled-sq	YBCO milled-square	CO milled-sq	CO milled-sq
Measured o	12/03/2004	12/03/2004	12/03/2004	12/03/2004
Time:	04:20:04 AM	04:20:04 AM	04:20:04 AM	04:20:04 AM
Run Type:	Trial Run 3	Trial Run 3	Trial Run 3	Trial Run 3
SampleID	S32	S32	S32	S32
BatchNo	014	014	014	014
RunNo	04	04	04	04
1	0.01	40.3	110.6	100.3
2	0.02	40.1	111.3	100.7
3	0.03	40.8	111.9	100.1
4	0.04	39.6	112.5	100.6
5	0.05	40.5	113.1	101.7
6	0.06	39.7	113.7	101.3
7	0.07	39.5	114.3	100.4



Useful Tool

-实用工具

1. **Data Reader** button
2. **Annotation** button
3. **Line Tool** button
4. **Insert Equation** button
5. **Rescale Tool** button



1. **Rescale** button
2. **Exchange Axes** button

Batch Plotting

-批量绘图

The screenshot displays the OriginLab interface with several data windows and a context menu for batch plotting.

Book1P - TRIAL 1

	A(X)	B(Y)	C(Y)	D(Y)
Long Name	Time			
Units	(sec)			
Comments	S15-125-0			
Sparklines	.dat			
Version	2.1			
No. of points	1000			
Sample	YBCO milled			
Measured o	12/01/200			
Time:	03:20:39 A			
Run Type:	Trial Run			
SampleID	S15			
BatchNo	125			
RunNo	03			
	10	0.0		
	11	0.1		
	12	0.1		
	13	0.1		
	14	0.1		

Book2Q - TRIAL 2

	A(X)	B(Y)	C(Y)	D(Y)
Long Name	Time	Delta Temperature	Magnetic Field	Position
Units	(sec)	(K)	(Oe)	(mm)
Comments	S21-235-07			S21-235-07
Sparklines	.dat			
Version	2.1			
No. of points	700			
Sample	YBCO milled			
Measured o	12/15/200			
Time:	03:00:39 P			
Run Type:	Trial Run			
SampleID	S21			
BatchNo	235			
RunNo	07			
	1	0.0		
	2	0.0		
	3	0.0		
	4	0.0		

Book3P - TRIAL 3

	A(X)	B(Y)	C(Y)	D(Y)
Long Name	Time	Delta Temperature	Magnetic Field	Position
Units	(sec)	(K)	(Oe)	(mm)
Comments	S32-014-04	S32-014-04	S32-014-04	S32-014-04
Sparklines	.dat	.dat	.dat	.dat
Version	3.5	3.5		
No. of points	850	850		
Sample	CO milled-sq	YBCO milled-s		
Measured o	12/03/2004	12/03/200		
Time:	04:20:04 AM	04:20:04 A		
Run Type:	Trial Run 3	Trial Run		
SampleID	S32	S32		
BatchNo	014	014		
RunNo	04	04		
	2	0.02		
	3	0.03		
	4	0.04		
	5	0.05		

Graph1P - TRIAL 3

Sample = YBCO milled-square
Run Type = Trial Run 3

The graph displays three data series over time (0 to 10 seconds):

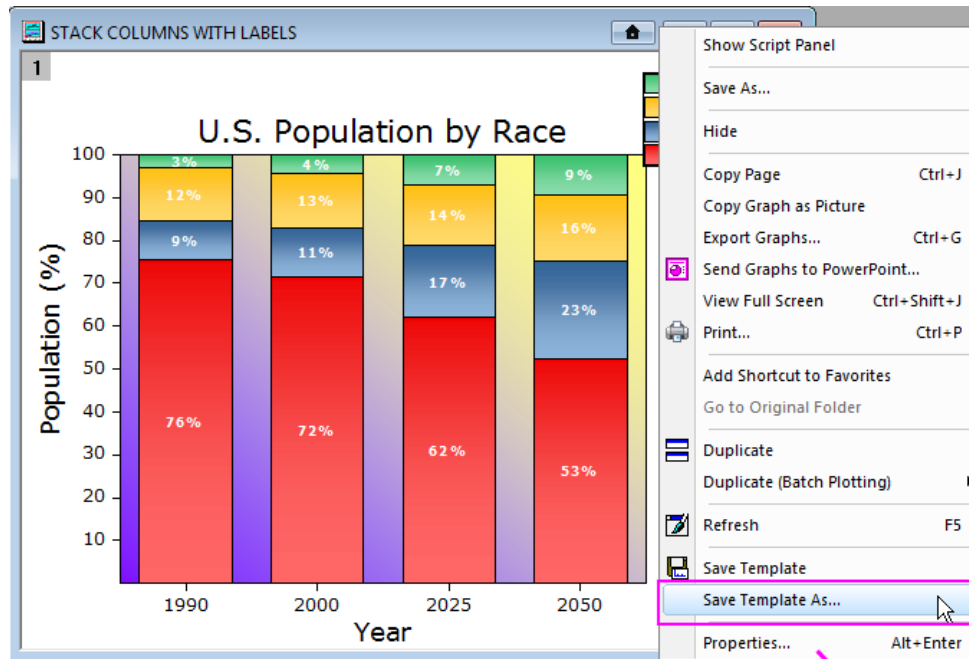
- Position (mm):** A red curve starting at approximately 90 mm and rising to about 190 mm.
- Magnetic Field (Oe):** A blue curve starting at approximately 108 Oe and rising to about 144 Oe.
- Delta Temperature (K):** A green curve starting at approximately 36 K and decreasing to about 8 K.

The context menu for the graph includes the following options:

- Show Script Panel
- Save As...
- Hide
- Copy Page (Ctrl+J)
- Copy Graph as Picture
- Export Graphs... (Ctrl+G)
- Send Graphs to PowerPoint...
- View Full Screen (Ctrl+Shift+J)
- Print... (Ctrl+P)
- Add Shortcut to Favorites
- Go to Original Folder
- Duplicate
- Duplicate (Batch Plotting)** (F5)
- Refresh
- Save Template
- Save Template As...
- Properties... (Alt+Enter)

Graph Template

-绘图模板



2D

Line, Scatter, Line+Symbol, Function, Bar, Pie, Area, Multi-Y, Multi-Panel, Zoom

Box, Histogram, 2D Kernel Density, Scatter Matrix, Probability, Pareto, QC (X-bar, R) Chart, Contour, Polar, Vector

Ternary, Stock, Profile, Smith Chart, Windrose, Radar, Group Plot, Trellis Plc...

3D

Line+Symbol, Function, Vector, Bar, Surface, Ternary, Waterfall, Multi-Y, 3D Ribbons, Walls

Templates

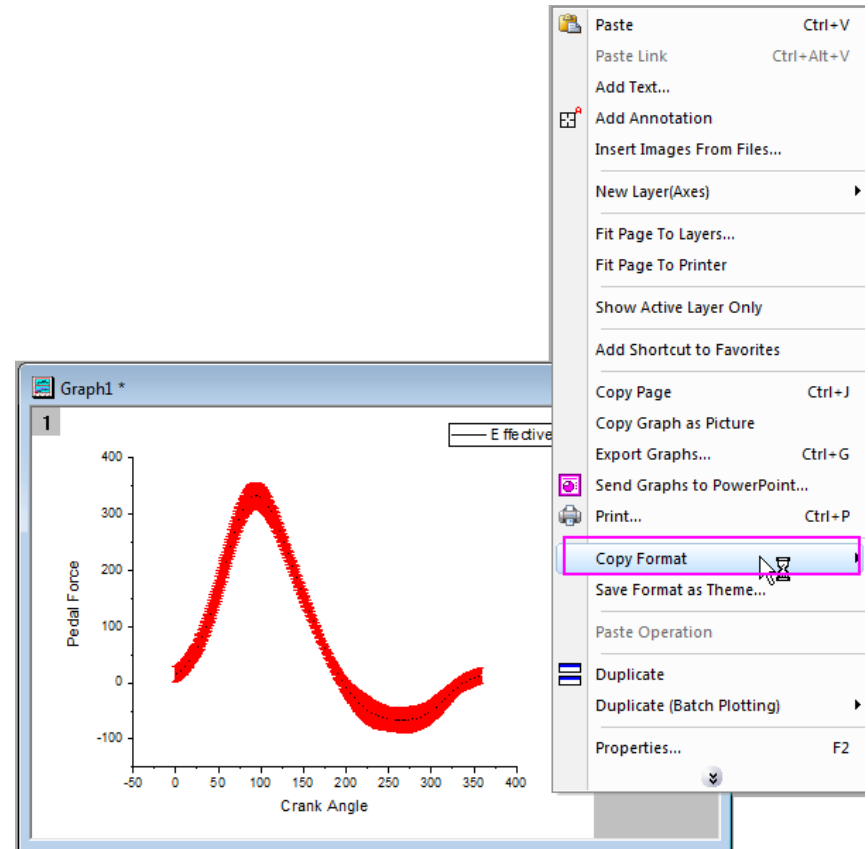
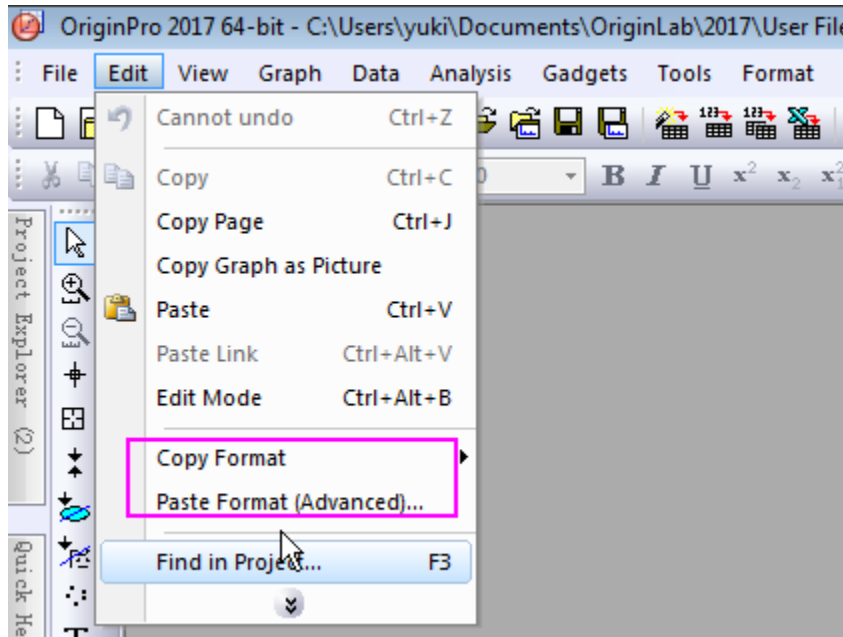
User, System Template

Recently Used

Line, Double-Y, Y Error, 3D Colormap, Scatter, Line+Symbol, 3D Scatter, 3D Waterfall, Box Chart, Stacked Lines by Y

Copy Format

-复制格式



4. 学习与帮助

- 按 F1 快捷键
- 官网帮助文档: <http://www.originlab.com/doc/>
- Origin Blog: <http://blog.originlab.com/>
- Origin 中文视频教程: <http://i.youku.com/origingz>
- Origin 用户交流群: 210-500-924 
- Origin 软件上海科技大学交流群: 278-919-679
- Origin 中文论坛: http://www.originlab.com/forum/forum.asp?FORUM_ID=28
- 技术支持: Tech Support Team (广州)
Email: support@originlab.com.cn
Tel: (020) 3879 2565 (020) 3879 5456
Online Chat