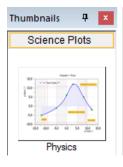
Info to SimplexNumerica

Import of Data displayed on Multiple Axes

The loading of external data is clearly illustrated in the other SimplexNumerica manuals (see >Doc< folder in the installation path of the program). Here we consider the case when the data is to be distributed on several axes.

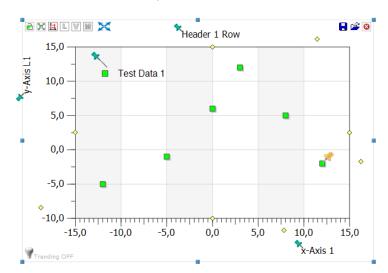


Create a new Cartesian coordinate system by clicking on the Physics thumbnail icon shown on the left.



Please remove the previous curve.

Now, the physics chart should look like this:



Now we import measurement data with several rows (columns); this with the help of the import dialog. The first rows are e.g.:

Datum Uhrzeit; Füllst.A; Füllst.B; Tagessumme; Intervallsumme

07.04.2019 00:00:00;0,019;0,741;2,5;0

So any measurement series that is available as a *.CSV file. Now call the dialog.

🥸 🔚 🔹 🔊 🗧 SimplexNumeric	a - Beispi	el 1.sx	
Datei			
Neu 🕨	Importiere verschiedene Daten		
V Neu ,		Import Properties	
		Importiere Tabellen-Default-Layout-Datei [Def	
Schließen •		Default Tabellen Layout Datei [Default.tbl]	
		Importiere CSV File [*.csv] <strg +="" l=""></strg>	
Template		Import Comma Separated Values (*.csv, *.dat, *.txt)	
_		Importiere Excel-Datei <strg +="" e=""></strg>	
🚰 P <u>r</u> ojekt 🔹 🕨	Ξ×≣	Import Tabelle aus Excel [*.xls] oder [*.xlsx] Datei	
		Importiere Excel mit Filter <stra +="" e="" shift=""></stra>	
		Importiere Datenbank <strg +="" d=""></strg>	
Objekte		Schritt-für-Schritt Datenimport aus Datenbank	
	1	Import WinCC DB Archive	
Import	I 🚰	Import whice DB Archive	
Export		Import DBase III Format [*.dbf]	
Drucken		Import CitectScada [Tr}.dbf]	
		*	
Search Commands	D	🗈 Opt <u>i</u> ons 🛛 E <u>x</u> it	

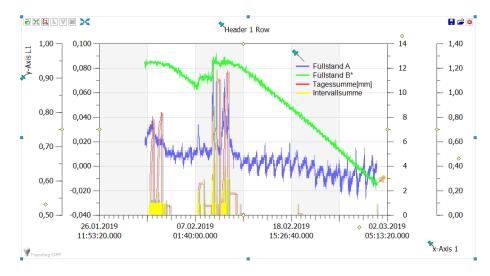
...or just with the key combination <Ctrl + L>. The program switches to the GraphTable associated with the chart: The data import dialog then appears:

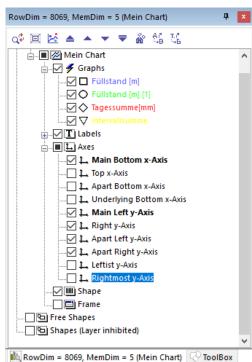
Dat	a Import f	ile: <e:\sx-test\yannik or<="" th=""><th>lowski\Test RW.csv></th><th></th><th></th><th></th><th></th><th>×</th></e:\sx-test\yannik>	lowski\Test RW.csv>					×
	Original AS(CII File		Replace	Space in Dot	(only for displa	y)	
	2 07 3 07 4 07 5 07 6 07	tum Uhrzeit; Füllstand [m]; Füll 04 2019 00:00:00:00:00:017,0,7, 04 2019 00:00:00:00,017,0,7, 04 2019 00:10:00:0,019;0,7 04 2019 00:10:00:0,017,0,7, 04 2019 00:20:00:0,019;0,7, 04 2019 00:25:00:0,022;0,7	41:0:0 4:0:0 41:0:0 41:0:0 41:0:0 44:0:0	m];Intervallsum	me		Sa V	Load Save ve As ancel
	Header Rov	NS	Dimension		Decimal-Sepa	arator	Columna-Sep	arator
	Jumpo	ver fir st n rows: n = 0	÷ 0 2-D (x.	/ y)	Comma		 Semicolo 	on [;]
		araph Name from first row, or	O 3-D (x.		O Dot [.]		O Vertical	
		xis Name from first row	Data Rows					
	Take A	xis Name from second row		ver first data rov	N		O Space	1
	Columns			ver second data			Remove	duplicated
		column in Legend		ver first n rows:		÷ .		
		column for all x-Axes				Dat	a Reduction –	2 🔺
	Mark M	lissing Values	Skip ov	er each m row	m = 2	€ □	Reduce Columr	1: 2 📮
	Replac	e In	Tab If skip	oping, then use	averaging	Т	olerance: +/- 1	
	Conver	t in Number [)isplay above: 1000	rows	Update Previe	W	Import into Ma	ain Grid
	0\0	🌠 Füllstand [m]	🌠 Füllstand [m]	🌠 Füllstan	🌠 Füllstan	🏑 Tagess	🖌 Tagess	🏑 Inte 🔨
		x 07.04.2019 00:00:00	у 0.010	x 07.04.2019	y 0.744	x 07.04.2019	У	07.04.2
	1	07.04.2019 00:05:00		07.04.2019		07.04.2019		07.04.2
	3	07.04.2019 00:10:00	,	07.04.2019		07.04.2019	-	07.04.2
	4	07.04.2019 00:15:00		07.04.2019	,	07.04.2019	0	07.04.2
	5	07.04.2019 00:20:00		07.04.2019		07.04.2019	0	07.04.2 🗸
	<						-	>
H	ow to trans	fer this data to the main Grap	hTable table?				Check All (Columne
	Overwri	te Table Overwrite b	behind Column: 2	OInsert beh	nind last column	1		
	Insert b	ehind last row		AutoSca	le Chart Axes		Uncheck Al	
Open	ation Ok						Script Dump to	o Clipboard

After setting the correct parameters and pressing the Import into Main Grid button, the data will appear in the GraphTable.

🛛 View	Füllstand [m] SampleData		Füllstand [m] [1] SampleData		Tagessumme[mm] SampleData		Intervallsumme SampleData	
Legend	X	у	x	у	x	у	x	у
1	07.04.2019 00	0,019	07.04.2019 00	0,741	07.04.2019 00	0,000	07.04.2019 00	0,000
2	07.04.2019 00	0,017	07.04.2019 00	0,740	07.04.2019 00	0,000	07.04.2019 00	0,000
3	07.04.2019 00	0,019	07.04.2019 00	0,741	07.04.2019 00	0,000	07.04.2019 00	0,000
4	07.04.2019 00	0,017	07.04.2019 00	0,741	07.04.2019 00	0,000	07.04.2019 00	0,000
5	07.04.2019 00	0,019	07.04.2019 00	0,744	07.04.2019 00	0,000	07.04.2019 00	0,000
6	07.04.2019 00	0,022	07.04.2019 00	0,743	07.04.2019 00	0,000	07.04.2019 00	0,000
7	07.04.2019 00	0,019	07.04.2019 00	0,745	07.04.2019 00	0,000	07.04.2019 00	0,000
8	07.04.2019 00	0,022	07.04.2019 00	0,745	07.04.2019 00	0,000	07.04.2019 00	0,000
9	07.04.2019 00	0,022	07.04.2019 00	0,743	07.04.2019 00	0,000	07.04.2019 00	0,000
10	07.04.2019 00	0,019	07.04.2019 00	0,747	07.04.2019 00	0,000	07.04.2019 00	0,000
11	07.04.2019 00	0,022	07.04.2019 00	0,745	07.04.2019 00	0,000	07.04.2019 00	<u>000</u>

Now switch to the Graphics window with the <F3> key...





In order to optimize the scaling, we now assign each graph its own y-axis...

But first we switch on the required number of y-axes in the Chart Explorer...

Now there are two methods to assign an axis to a graph. Let's start with the more complicated method...

RowDim = 8069, MemDim = 5 (Mein C	hart)	무 🗙				
💠 🖂 🛃 🔺 🔻 🗮 🌋	66 (-6				
Graphs Graphs		^				
Axi	5	¥				
🔟 RowDim = 8069, MemDim = Me	in Cha	irt) 🖓 ToolBox				
Chart <mein chart=""></mein>		д 🗙				
Skalierung Eigenschaften		~				
🛅 🗗 🖬 🖬 🔐 L 📕 📥		🗉 🔓 🎥 🛃 💢				
Suche		2				
Skalierung						
Chart Main Interval						
X-Achsenformat		Datum/Zeit +				
Y-Achsenformat		Normalwert				
Add x-Unit Text	\square					
Add y-Unit Text						
AutoScale		Auto-Skalieru				
X Zuweise Gran Zur x-Achse		Chart Main In				
发 Y Zuweise Graph zur y-Achse		Chart Main In				
XAchse min.	\square	20. Jan .2019 :				
XAchse max.		11.Apr.2019 :				
YAchse min.						
VA check may		14 000				

RowDim = 8069, MemDim = 5 (Mein Chart)

🛓 🗸 🗲 Graphs

🖃 🔳 🜌 Charts

Chart < Mein Chart>

Suche Skalierung

Skalierung Eigenschaften

Chart Main Interval
 <u>Rechte Y-Ac</u>hse Interval
 Abgesetztes linkes y-Achsen-Interval

Add Unit Text

YAchse min.

YAchse max. Sub AutoScale

Unterteilung dy

Dezimalstellen

🔀 AutoScale

🔀 Graphen zuweisen

Äußerstes rechtes y-Achsen-Interval

🐗 🔟 🛃 🔺 🔺 🔻 🕷 🖏 🌿

Shapes (Laver inhibited)
 RowDim = 8069, MemDim = 5 (Mein Chart)
 ColBox

🛅 🐼 🔳 🧰 😭 L 🗏 🖄 🔜 🕄 🏭 👭 💢

д x

д x

ρ

D. Normalwert

10,0000

☑ 1,0000

□ Automatic

🕼 Auto-Skalierung ...

Weise Graphen d... 1,0000

Method 1

We go to the Scaling Properties, first of all to Chart Main Interval and press the button Y Assign graph to y-axis and put a check mark in front of one of the graph names (which should be assigned to this axis, so here to the main axis on the coordinate system).

Weise die Achse folgenden Graphen zu	×
 (Select All) Füllstand [m] Füllstand [m] [1] 	
Tagessumme[mm]	
Intervallsumme	
Ok Cance	el

We repeat this for all graphs; but with the other y-axes in the scaling properties; e.g. with the left y-axis set off (see left figure).

The other method works similarly...

Rows = 8064 (Füllstand [m])	P 📘				
🐗 🗉 🛃 🔺 👻 📼	F 🚳 🚳 🐝				
Charts Ch	d (m) (1) nme[mm]				
🖸 Free Shapes					
	ited)				
脑 Rows = 8064 (Füllstand [m])) 🖓 ToolBox				
Chart <mein chart=""></mein>	4 🛽				
Graph Eigenschaften					
	🛯 🖻 💁 🔛 🔛 🚼 🏥 🄙 🕽				
Suche	<u>م</u>				
Kurvenfüllfarbe	2 6666FF /				
Deckkraft der Kurvenfläc	. 🛙 200				
Balkendiagramm für diese	sen Graphen				
Zeige Balkendiagramm	🛛 💽 Aus				
Verwende automatische	. 🛛 💽 Aus				
Schriftfarbe	C 6694B3				
Breite	2 30				
Typen	D None				
Graph Achse zuweisen					
X-Achse zuweisen	Main Bottom x-Axis				
Y-Achse zuweisen	🛛 Main Left y-Axis 🗸 🗸				
Graph Labels	Main Left y-Axis				
Plus X Nachkommastellen	n 🛛 Right y-Axis				
Plus Y Nachkommastellen	1 🛛 Apart Left y-Axis				
Graph Axes Names & Unit					
x-Achse	Leftist y-Axis				
y-Achse	Rightmost y-Axis				
z-Achse	Q -,-				

Second method

We click on a graph in the Chart Explorer.

Then we select in the Graph Properties the menu item

Assign Y-axis and select the correct axis.

<u> Tip:</u>

Click on a graph and then on its (yellow) pin. With this you can also assign the axes!

The result then looks like this:

