




Report table Sparklines

This tutorial provides instructions on creating sparklines (or column charts) on metric data within a report table. To do so, you must first use the **Sparkline Array Advanced Function** to change the data into an array of aggregated values, and then use the **Sparkline Formatter** on it to convert that array into sparklines.

\$125,655,771	
\$12,658,090	
\$195,179,208	
\$4,116,867	
\$133,294,112	

Tutorial

See the example below, created using Yellowfin's Ski Team sample dataset.

1. Create a report as you normally would, and add your required fields. Ensure you have a metric and a date field for this function.
2. Open the field menu of the metric for which to create a sparkline, and select **Advanced Function**.

Sum Invoiced Amount
<div><div>Σ</div> Aggregation</div>
<div>Sort</div>
<div>Format</div>
<div>Advanced Function</div>
<div>Group Data</div>
<div>Totals</div>
<div>Add Filter</div>
<div>Hide Field</div>
<div>Delete</div>

3. In the Advanced Function popup, select the **Analysis** function type. Then choose **Sparkline Array Analytic Function** from the list of functions.

Advanced Metrics

Advanced Function Data Conversion

Save Cancel

Invoiced Amount (Numeric)

Σ # #! + % - ✖

● ○ ○ ○ ○ ○ ○

Display only in charts

●

Select Function:

Analysis

sparkline

SparkLine Array Analytic Function

SparkLine Array Analytic Function
Aggregate data for the selected metric by date for use with the SparkLine generator

4. When additional fields appear in the popup, choose the year field. This field is used to aggregate the metric values to create an array. Note that it will appear blank in the report table, as the metric row array now represents data from multiple dates. You can also hide the blank date field.
5. Next specify how missing values in the date field should be filled. Options include:
- Don't fill data for missing values:** This option ignores the missing date field values.
 - Use observed values:** This option fills the missing values with observed values from all rows in the selected date column.
 - Interpolate data values:** This option uses interpolation to fill dates between the observed minimum and maximum dates using the specified date interval.
6. Then specify whether or not to use scaling value for the sparkline. **Scaling** enables the chart to scale lines by observing values of all rows. If left unscaled, a sparkline with smaller values, such as 10, 21, 35, and so on, might look similar to a sparkline with drastically different values that have similar value differences, such as 100, 210, 350, and so on.
7. Click **Save**.

Advanced Metrics

Advanced Function Data Conversion

Save Cancel

Invoiced Amount (Numeric)

Σ # #! + % - ✖

● ○ ○ ○ ○ ○ ○

Display only in charts

○

Select Function:

Analysis

sparkline

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SparkLine Array Analytic Function
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Attribute	Setting	User Prompt
Date Field	Invoiced Date	●
Fill Missing Values	Don't Fill Data for Missing Dates	
Include Scaling Value	○ Yes ● No	First sparkline data point will include the maximum metric value for scaling sparklines

8. You will notice an array of aggregated metric values in a single row, as shown in the example below.

Columns	Athlete Region	Invoiced Date	Roll Up Invoiced A...
Rows			
Athlete Region	Invoiced Date	Roll Up Invoiced Amount	
Asia			
Australia			
Europe		22234.56,24867.60,11016.00,23624.22,43884.00,43884.00,5392.00,49735.20,409543.97,10131.41,3348.75,409543.97	
Latin America			
North America			
Sub Saharan Africa			

9. Now you must convert the values into sparklines. Bring up the same metric column's menu and select **Format**, and then **Edit**. This opens the column formatting popup.

The screenshot shows a context menu for the 'Roll Up Invoiced Amount' column. The menu options are: Aggregation, Sort, Format, Advanced Function, Totals, Add Filter, Hide Field, and Delete. The 'Format' option is highlighted, and a sub-menu is visible with options: Edit, Conditional Formatting, and Clear. The 'Edit' option is selected.

10. Select **Sparkline Formatter** as the **Format** in the popup. This will bring up other formatting configurations.

The screenshot shows the 'Column Formatting - Roll Up Invoiced Amount' dialog box. The 'Format' dropdown is set to 'Sparkline Formatter'. The 'Width' is set to 100 and the 'Height' is set to 30. The 'Spark Line Type' is set to 'Line'. The 'Includes Scaling Value' toggle is turned off. The 'Show Field' toggle is turned on. The 'Suppress Duplicates' toggle is turned off. The 'Display' section shows the display name 'Roll Up Invoiced Amount' and the view field 'Invoiced Amount'.

11. Specify the width and height of the sparkline.
12. Enable the **Includes Scaling Value** toggle if you had enabled scaling in the Sparkline Array advanced function. This is important, because otherwise the sparkline data will appear wrong.

13. Close the column formatting popup, to view the sparkline in the report table (shown in the example below).

Athlete Region ▾	Invoiced Date ▾	Roll Up Invoiced Amount ▾
Asia		
Australia		
Europe		
Latin America		
North America		
Sub Saharan Africa		

14. You can also choose to select **Column** as the **Sparkline Type** in the column formatting popup to view column charts in the report.
15. Save your report or proceed as you normally would.



Only one sparkline chart per table is currently supported.