



# 'Mparanza quick start

Basic features

Chart format

Load a sample dataset

Plot a chart

Modify a chart

Change chart type

Filter chart data

Change variance type

Slice variance by dimension

# IBCS charting standard

The format of the charts generated by the app is influenced by the [International Business Communication Standard](#), a standard that contains practical suggestions for the consistent design of reports, presentations, dashboards and the charts and tables they contain.

IBCS aims to define best practices for making visualizations "efficient," i.e., easier to understand and more dense of information.

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# Main IBCS standard rules

- *Time series notation*: Period to date: understore + period. Example: \_2020.  
Rolling/moving year: tilde + period: Example: ~2020
- *Colors*: Colors should be used to communicate information, not for decorative purposes. Green: negative variance, red: positive variance.
- *Scenarios*: AC => Actual, in black. PY => Previous Year, in grey. PPY => Year Before Previous Year, year n-2. in light grey.
- *Other abbreviations*: Ø => Average.
- *Titles*: Each chart has a title that specifies the "who" (company or filter applied), the "what" (metrics), and the "when" (period and scenario)
- *Orientation*: Temporal dimensions should be oriented horizontally, categorical dimensions vertically. The values of the categorical charts must be exhaustive - their sum must be 100%.

UN 4.2 UNIFY TIME SERIES ANALYSES  
Use a consistent notation for time series analyses such as year-to-date analyses, moving analyses, and temporal indexing within an organization. The suggestions depicted in Figure UN 4.2 and explained in the following paragraphs work well.

Analyses	Symbol	Example	Application
Difference	-	AC 20 - AC 19	Year to date
Time span	-	Feb. Jun 21	Jan. Feb. Mar.
Year to date	-	Jun 21	123 234 567
Year to go	-	Jun 21	22 40 60
Rolling	-	Jun 21	
Average	-	Jun 21	
First day	-	Aug 21	
Last day	-	Aug 21	

SI 2.2 AVOID DECORATIVE COLORS  
If colors serve merely decorative purpose in one instance, using them for meaning in another instance (e.g. for highlighting) becomes difficult. Therefore use colors only if they convey meaning, see Figure SI 2.2.

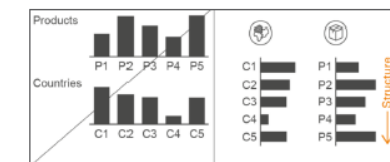
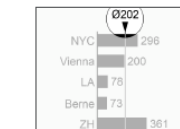
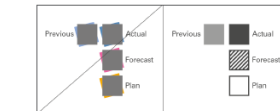
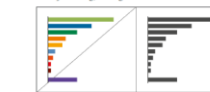


Chart format

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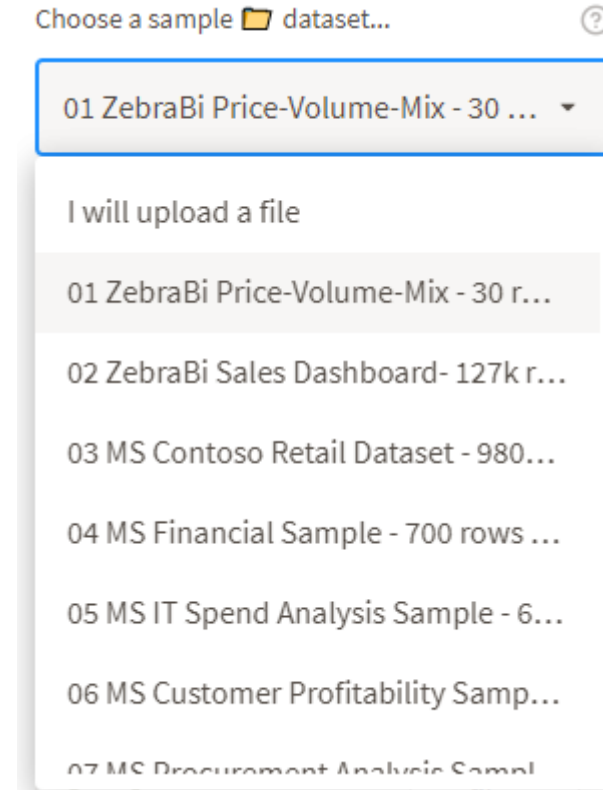
Filter chart data

Change variance type

Slice variance by dimension

# LOAD A SAMPLE DATASET

- 1 Open [https://mparanza.com/get\\_started.html](https://mparanza.com/get_started.html)



- 2 Choose one of the 70 sample datasets with the “choose a sample dataset” menu.

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# PLOT A CHART


Data to plot ?

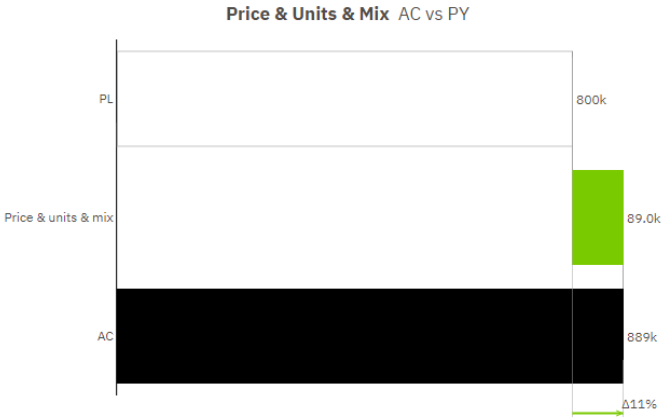
entire dataset ▼

Select the data to plot. You can either plot the entire dataset, or you can plot the data corresponding to a specific row of the report.

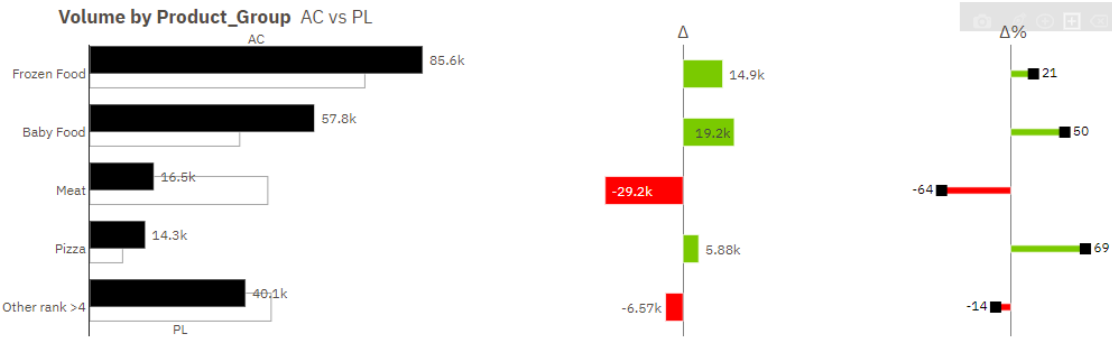
 Submit

Hit to run the analysis and to plot charts.

1 Click on the  Submit button at the bottom of the page.



2 The app will plot the total sales variance...



3 ...and the volume in the two periods split by a dimension



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# MODIFY A CHART


 Plot type ?


multi-tier bar


 The multi-tier bar chart compares two scenarios across categories along with the absolute and relative variance. Click on the  expander below for more options.






1 Click on the  sign under the “Plot type” widget.







Choose metric to plot ?


Volume

 Choose metric to map in chart


Choose dimensions not to plot ?


Country 


Product 


 Select one or more columns that should not be plotted.


Choose metrics not to plot ?

Units 

Volume 

COGS 


Gross margin 


 Select one or more metrics that should not be plotted.


2 The available options will appear.

Choose metric to plot ?

Sales

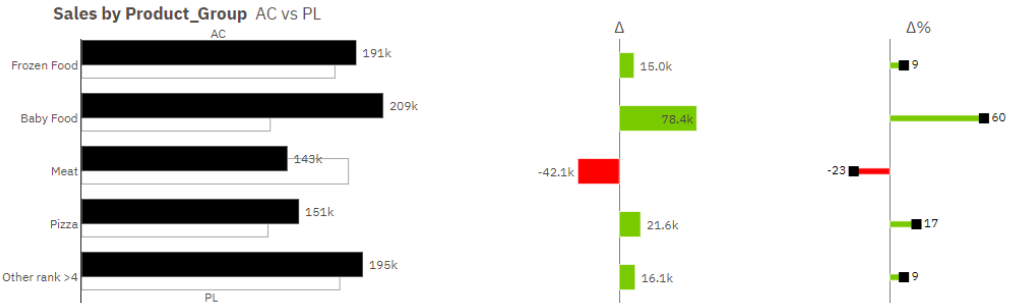
 Choose metric to map in chart

 Submit

 Hit to run the analysis and to plot charts.

3 For example, change the metric from Volume to Sales.

4 Click again on the  Submit button.



5 The chart is now plotted by Sales.

Chart format

Load a sample dataset

Plot a chart

Modify a chart

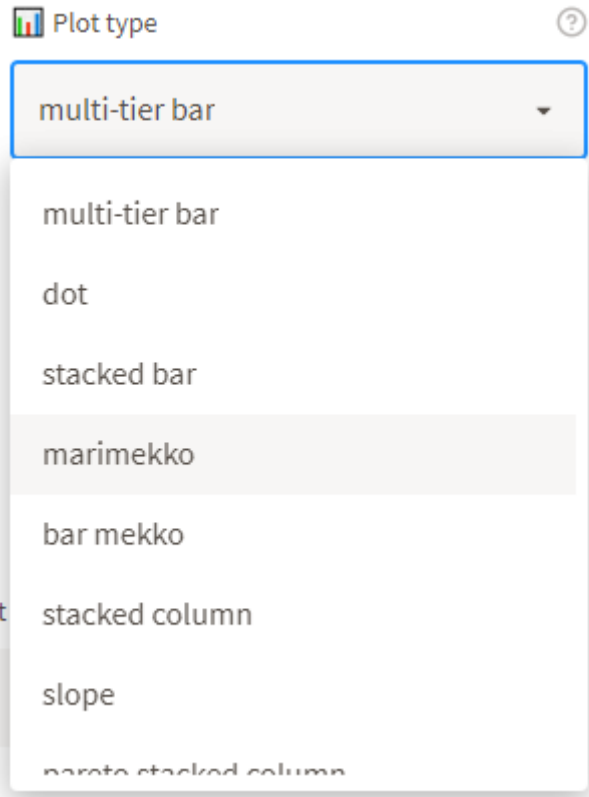
Change chart type

Filter chart data

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Slice variance by dimension

# CHANGE CHART TYPE

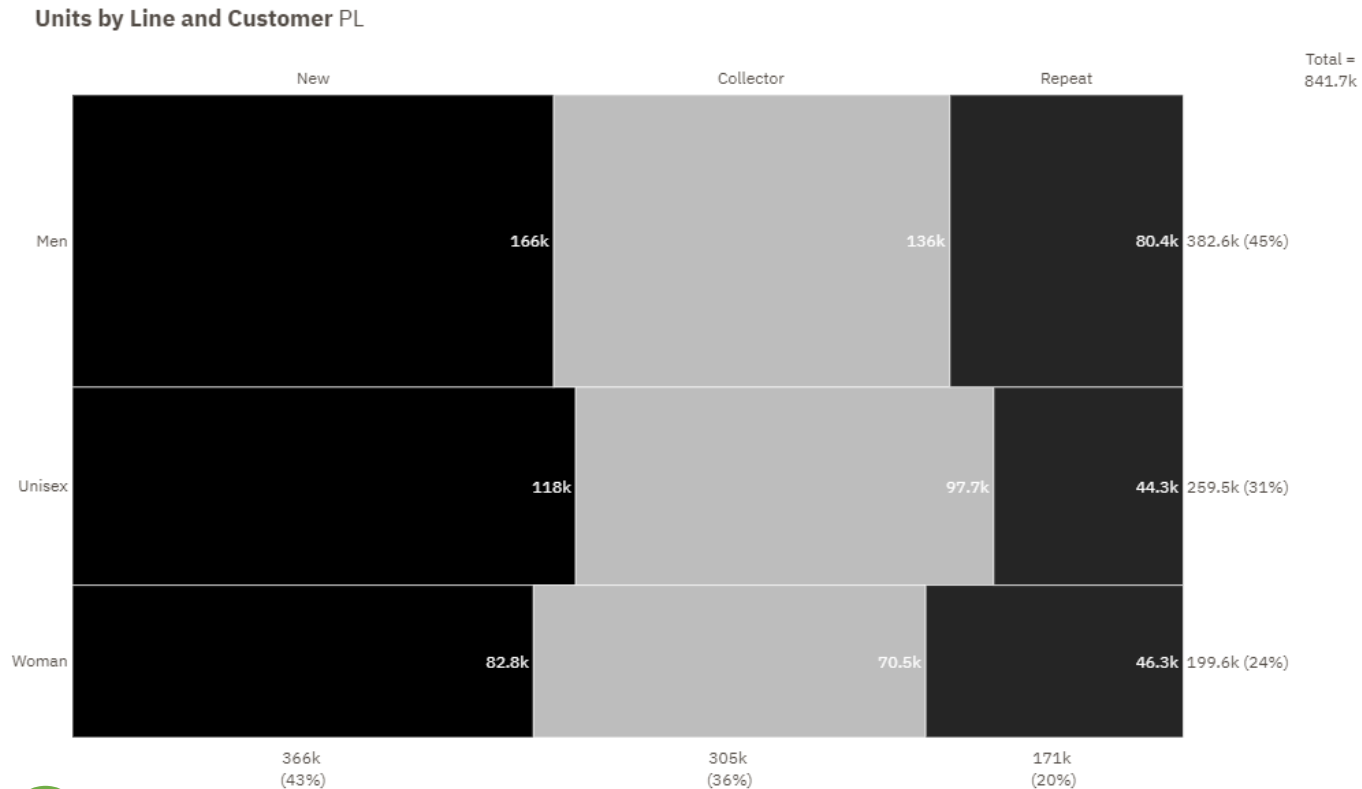


- 1 Choose the chart with the  Plot type widget.



 Hit to run the analysis and to plot charts.

- 2 Click again on the  Submit button.



- 3 The app plots the chosen chart.

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# FILTER CHART DATA

Filter column #1

Choose items to include

Choose items to exclude

Complication

Chronograph

Choose an option

Filter the dataset by selecting, for up to four columns, the items to keep and the items to exclude.

Select the items you want to include in the analysis.

Select the items you want to exclude from the analysis.

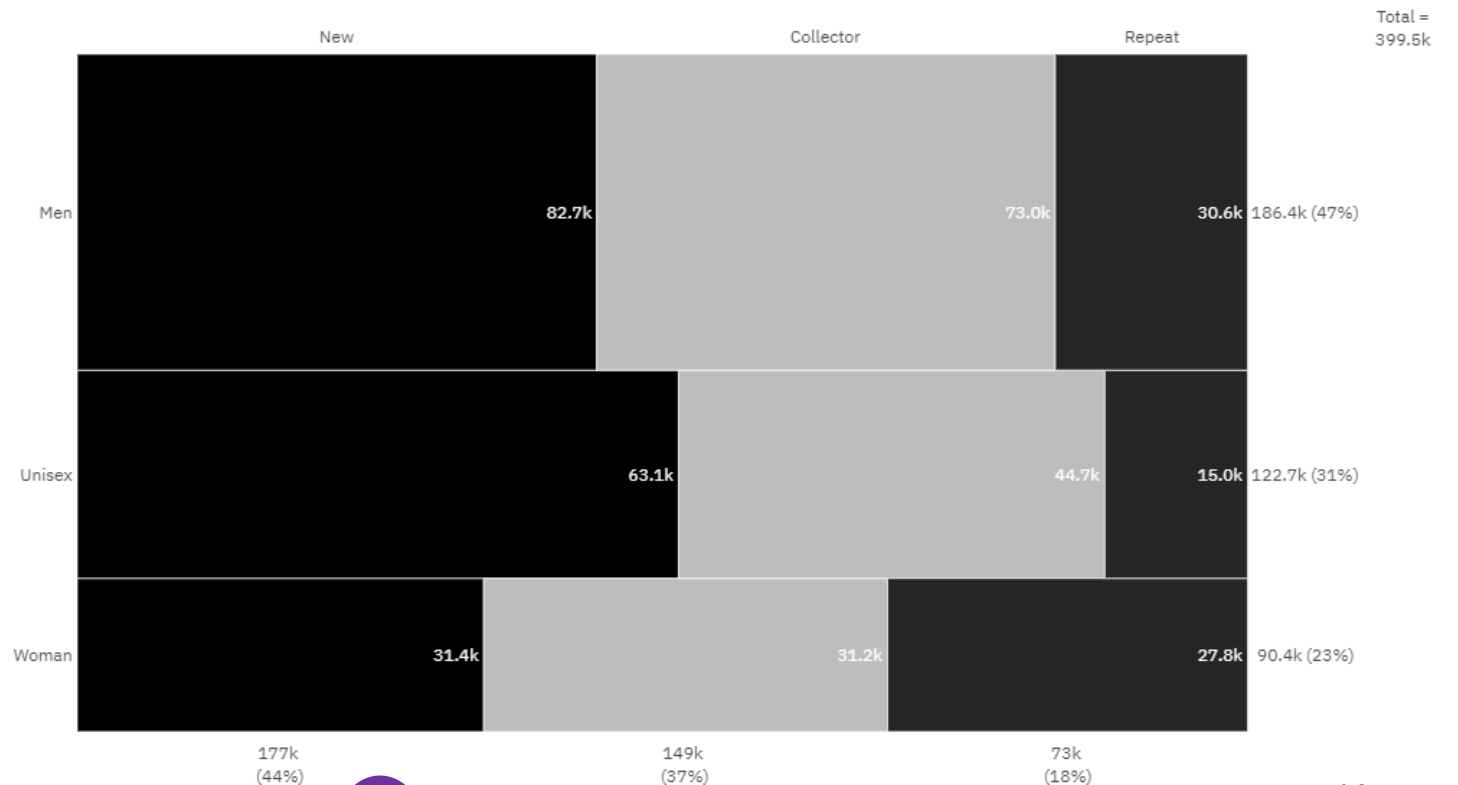
1 Set filter

Submit

Hit to run the analysis and to plot charts.

2 Click again on the Submit button.

Complication=Chronograph Units by Line and Customer PL



3 The app plots the filtered chart.

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# CHANGE VARIANCE TYPE

Show variance as ?

price & units & mix

price, units & mix, margin rate

price, units & mix, costs

price, units, mix, costs

price, volume, mix, costs

price, units & mix, discounts, COGS

price & units & mix

price, units & mix

price, units, mix

Submit

\* Hit to run the analysis and to plot charts.

2 Click again on the Submit button.

Price, Units & Mix AC vs PY



3 Price and volume variance is now plotted separately.

1 Choose variance calculation with the Show variance as widget



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# SLICE VARIANCE BY DIMENSION

Choose dimension to plot on waterfall chart ?

None

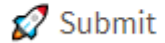
None

Product\_Group

Country

Product

1 Choose dimension to slice variance.



Hit to run the analysis and to plot charts.

2 Click again on the Submit button.

3 App plots variance sliced by chosen dimension.

