

Ignition 8.3 User Manual — Report Design Component Reference

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Report Design Components

The Report module features many different report-specific components that are exclusively used inside the Report module.

Here is a complete list of the Report Design components and a link pointing to a page containing the component's description, properties, and an example of how to configure it.

 **Chart Palette**

 **Display Palette**

 **Object Palette**

 **Shape Palette**

 **Table Palette**

Report Design - Chart Palette

Chart Components

The following components give you various chart types for displaying data in a report.

Bar Chart

A Bar Chart is used to display data in a chart using bars.

Pie Chart

The Pie Chart takes a Data Source with two keys: a Label (typically a string) and a Value (typical a numerical value).

Radar Chart

A Radar Chart allows you to quickly see values in comparison to related items or groups.

Timeseries Chart

The Timeseries Chart, while similar to the XY Chart, uses a datetime value for the Domain Axis instead of a numer...

XY Chart

The XY Chart, while similar to the Timeseries Chart, uses a numerical value for the Domain Axis instead of a Datet...

Report Component - Bar Chart

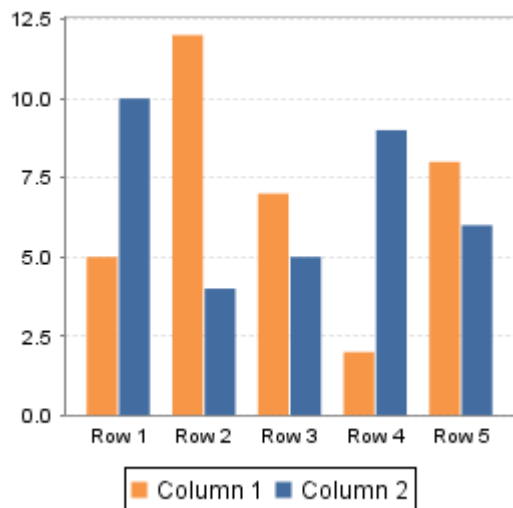


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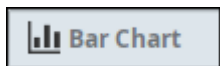
Bar Chart

[Watch the video](#)

A **Bar Chart** is used to display data in a chart using bars. A Bar Chart typically contains a single string column that gets used as the Domain with as many other columns representing the Range axis values. The order of the dataset matters, and the string values used for the domain should be in the first column of the dataset.



Report Design Component Palette Icon:



Properties

Property Inspector - Configure Tab

Property Inspector

Configure

Properties

Data Key

Extract Order

Row

Column

Options

3D Bars

Pareto

Render Style

Bars

Stacked

Layered

Segment Colors

Property	Description
Data Key	Unique identifier or placeholder to the data source that will populate the chart.
Extract Order	The order in which the data should be extracted from the data key. Two options are available: Row: Data is extracted by row. Use this when columns in the data key define the series of data. Column: Data is extracted by column. Use this when rows in the data key define the series of data; each column is a new value for the same series.
Options	3D: Columns and bars with 3D appearance using angle and depth. Pareto: When enabled, turns the chart into a Pareto chart. Contains both lines and a bar graph where values are in descending order.
Render Style	Provides three rendering styles: Bars: Displays data as individual colored bars. Stacked: Displays data as a stacked bar in different colors. Layered: Displays data as a layered bar in different colors.
Segment Colors	A unique color in the RGBA color space for each segment (bar).
Color Wheel 	Tool for creating color combinations for bars.
Add Segment 	Adds a color / row.
Remove Segment 	Deletes a color / row.
Scripting Enabled	Enables the script for this component to run.
Edit Script 	Allows the chart to be modified before the report is rendered.

Property Inspector - Properties Tab

Property Inspector

ConfigureProperties

▼ Chart Options

Data Key

Category Margin

0.2

Extract Order

Row

Item Margin

0.02

Render Style

Bars

3D Bars

☐

Show Legend

☒

Legend Font

Dialog, Plain, 12

Vertical Chart

☒

▼ Pareto Options

Pareto

☐

80% Line

☒

Pareto Color

Pareto Series Label

Percent

▼ Axis Options

Axis Autorange

☒

Axis Font

Dialog, Plain, 12

Axis Format

Axis Label

Axis Low

0

Axis High

100

Label Position

Standard

▼ Label Options

Bar Labels

☐

Label Color

Label Font

Dialog, Plain, 12

Label Offset

2

▼ Stroke and Fill

Opacity

1

Stroke Style

Hidden

Stroke

▼ Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

☒

Width

200

Height

200

X

5

Y

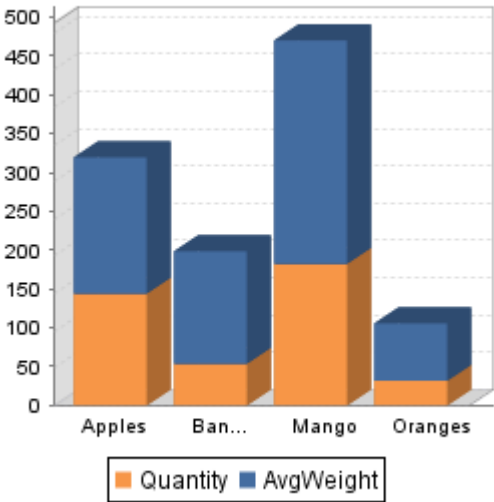
431

Property	Description
Data Key	Data key of the dataset that drives this bar chart.
Category Margin	Spacing between groups of bars on the chart.
Extract Order	Determines whether the series are defined by rows or columns in the underlying dataset.
Item Margin	Spacing between bars within a group.
Render Style	Style for this bar chart. Options are bars (0), stacked (1), or layered (2).
3D Bars	If true, use 3D bars to draw chart.
Show Legend	If true, show the chart's legend.
Legend Font	Font to use for the chart's legend.
Vertical Chart	If true, draw bars vertically.
Pareto	If enabled, the chart will act as a pareto chart; ordering the bars descending and adding a percentage line.
80% Line	If true, draw a line showing where 80% of the total is.
Pareto Color	Color for the Pareto line and 80% line.
Pareto Series Label	Text to use in legend for the Pareto line.
Axis Autorange	If true, set the axis range automatically, otherwise use the Axis Low and Axis High values.
Axis Font	Font to use for axis and axis label.
AxisFormat	A optional number format string to override the automatic formatting on the y-axis.
Axis Label	Text to place on the axis label. May be blank.

Property	Description
Axis Low	If autorange is turned off, the low value to use for the axis.
Axis High	If autorange is turned off, the high value to use for the axis.
Label Position	Orientation of category labels.
Bar Labels	If true, add labels to each bar.
Label Color	Color to use for bar label text.
Label Font	Font to use for bar labels.
Label Offset	Space to add between the end of the bar and the label. Negative numbers will put the label onto the bar.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.

Property	Description
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the top edge of this shape and the top edge of the page.
Use Raster	If true, the component is displayed as a raster image. If false, the component is displayed as a vector.

Example



Bar Chart Sample CSV Data

```
Fruit, Quantity, AvgWeight
Apples, 150, 183
Bananas, 56, 151
Mango, 190, 300
Oranges, 33, 77
```

Property Inspector

Configure

Properties

Data Key

Fruit Data

Extract Order

☒ Row ☐ Column

Options

☒ 3D Bars ☐ Pareto

Render Style

☐ Bars ☒ Stacked ☐ Layered

Segment Colors

Scripting

☐ Enabled ☒ Edit Script

Property	Value
3D Bars	True
Render Style	Stacked

Report Component - Pie Chart

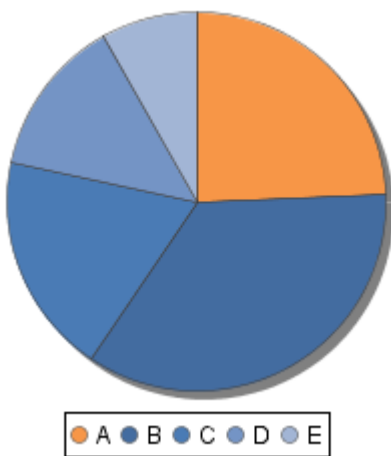


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Pie Chart

[Watch the video](#)

The Pie Chart takes a Data Source with two keys: a Label (typically a string) and a Value (typical a numerical value).



Report Design Component Palette Icon:



Properties

Property Inspector - Configure Tab

Property Inspector

Configure

Properties

Data Key

Label Key

Key

Value Key

Value

Segment Colors

Scripting

Enabled

Edit Script

Property	Description
Data Key	Unique identifier or placeholder to the data source that will populate the chart.
Label Key	Key that will list the names of each segment in the legend on the chart.
Value Key	The key that will populate the chart with data.
Segment Colors	A unique color in the RGBA color space for each segment (wedge). Will repeat the colors if there are not enough to cover all of the different segments, so it is important to list a lot of colors here.
Add Segment 	Adds a color wedge to the chart.
Remove Segment 	Deletes a color wedge from the chart.
Scripting Enabled	Enables the script for this component to run.
Edit Script 	Allows the chart to be modified before the report is rendered.

Property Inspector - Properties Tab

Property Inspector

Configure

Properties

▼ Pie Options

Data Key	Fruit Data
Label Key	Key
Label Style	None
Label Format	{0} = {1} ({2})
Label Font	Dialog, Plain, 12
Legend Font	Dialog, Plain, 12
Section Outline	▼
Show Chart Shadow	☒
Show Legend	☒
Sort Order	None
Style	Pie
Value Key	Quantity

▼ Stroke and Fill

Opacity	1
Stroke Style	Hidden
Stroke	

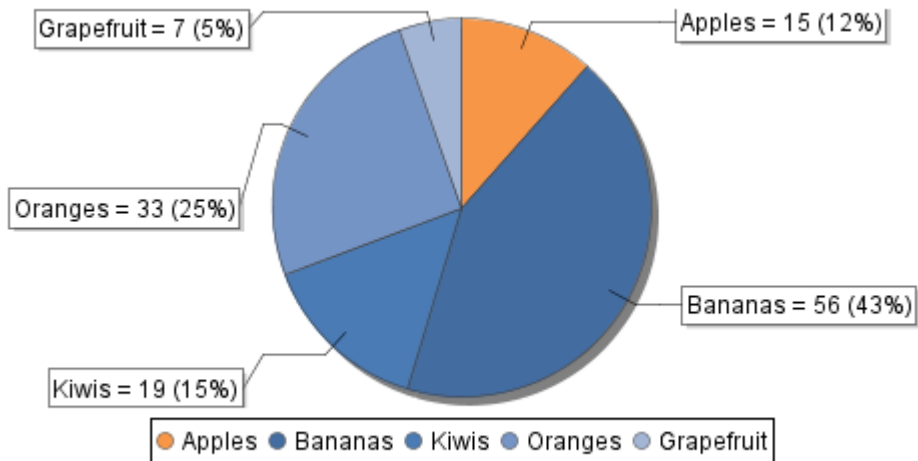
▼ Basic Properties

Roll	0
Scale X	1
Scale Y	1
URL	
Visible	☒
Width	200
Height	200
X	61
Y	57

Property	Description
Data Key	Data key of the dataset that drives this pie chart.
Label Key	Column name inside the dataset represented by the Data Key which holds the pie wedge's label.
Label Style	Style for labels on the pie chart. Options are None (0), Simple (1), and Outset (2).
Label Format	Format of labels, if enabled. Use 0 = wedge name, 1 = value, 2 = percentage.
Label Font	Font used for this chart's labels.
Legend Font	Font used for this chart's legend.
Section Outline	Color to use for outline dividing sections. See Color Selector .
Show Chart Shadow	If true, display background shadow on the Pie Chart.
Show Legend	If true, show the chart's legend.
Sort Order	Order to sort chart categories. This will determine colors used and order of the legend.
Style	Style for this pie chart. Options are Pie, 3D Pie, and Ring.
Value Key	Column name inside the dataset represented by the Data Key which holds the pie wedge's value.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.

Property	Description
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the top edge of this shape and the top edge of the page.
Use Raster	If true, the component is displayed as a raster image. If false, the component is displayed as a vector.

Example



Pie Chart Sample CSV Data

```
Fruit, Quantity
Apples, 15
Bananas, 56
Kiwis, 19
Oranges, 33
Grapefruit, 7
```

Property Inspector

Configure

Properties

Data Key

Label Key

Key

Value Key

Value

Segment Colors

Scripting

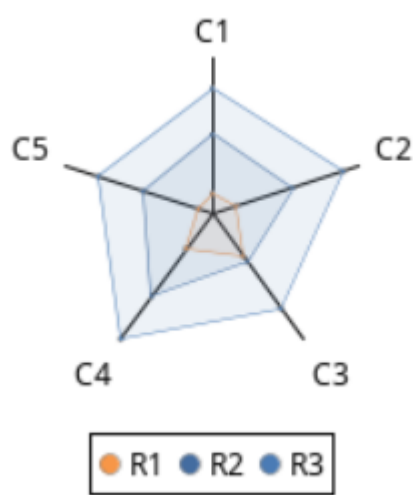
Enabled

Edit Script

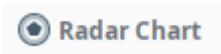
Property	Value
Label Style	Outset
Value Key	Quantity

Report Component - Radar Chart

A Radar Chart allows you to quickly see values in comparison to related items or groups. Each value is plotted on a separate axis with a line drawn between the different values. This creates a shape that changes as the values change. An important property for the Radar Chart is **Extract Order**, which dictates whether to use an specified **Variable** or **Series** Key.



Report Design Component Palette Icon:



Properties

Property Inspector - Configure Tab

Property Inspector

Configure

Properties

Data Key

Extract Order

☒ Row

☐ Column

Series Key

Key

Series Colors

Scripting

☐ Enabled

Edit Script

Property	Description
Data Key	Unique identifier or placeholder to the data source that will populate the chart.
Extract Order	Specifies if the row or column should be used for the chart.
Series Key	Key for the series, visible only when the Extract Order is set to Row.
Variable Key	Key for the variables, visible only when the Extract Order is set to Column.
Series/Variable Colors	Adds a color to the chart for the corresponding data category.
Scripting Enabled	Enables the script for this component to run.
Edit Script 	Allows the chart to be modified before the report is rendered.

Property Inspector - Properties Tab

Property Inspector

Configure Properties

▼ Radar Chart

Data Key	
Extract Order	Row
Series Key	Key
Variable Key	Key
Axis Color	
Axis Label Gap	0.1
Label Font	Dialog, Plain, 12
Label Color	
Start Angle	90
Rotation	Clockwise
Show Legend	☒
Legend Font	Dialog, Plain, 12

▼ Stroke and Fill

Opacity	1
Stroke Style	Hidden
Stroke	

▼ Basic Properties

Roll	0
Scale X	1
Scale Y	1
URL	
Visible	☒
Width	200
Height	200
X	141
Y	149

▼ Graphics

Use Raster	☐
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Property	Description
Data Key	Data key of the dataset that drives the Radar Chart.
Extract Order	Specifies if the row or column should be used for the chart.
Series Key	Key for the series, relevant only when the Extract Order is set to Row.
Variable Key	Key for the variables, relevant only when the Extract Order is set to Column.
Axis Color	Color for the axis lines.
Axis Label Gap	Gap between axis and labels.
Label Font	Font used for this chart's labels.
Label Color	Color for the labels.
Start Angle	Start angle of the Radar Chart in degrees.
Rotation	Rotation direction of the spokes of the radar chart, clockwise or counter clockwise.
Show Legend	If true, show the chart's legend.
Legend Font	Font used for this chart's legend.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.

Property	Description
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the top edge of this shape and the top edge of the page.
Use Raster	If true, the component is displayed as a raster image. If false, the component is displayed as a vector.

Example



● Banana ● Apple ● Pear

Radar Chart Sample CSV Data

```
Name, Taste, Freshness, Price
Banana, 8, 4, 4
Apple, 6, 9, 7
Pear, 9, 6, 6
```

Property Inspector

Configure

Properties

Data Key

sample_data

Q

Extract Order

☒ Row

☐ Column

Series Key

Name

Q

Series Colors

+

Scripting

☐ Enabled

Edit Script

Property	Value
Extract Order	Row
Series Key	Name
Series Colors	#FFD800, #FF0000, #00AC00

Report Component - Timeseries Chart

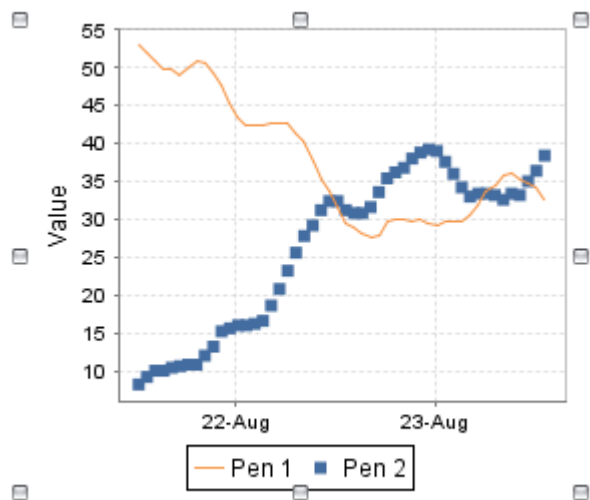


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Timeseries Chart

[Watch the video](#)

The Timeseries Chart, while similar to the [XY Chart](#), uses a datetime value for the Domain Axis instead of a numerical value. This chart is ideal when trying to display [Tag Historian](#) data in a Report.



Report Design Component Palette Icon



Properties

Property Inspector - Chart Options Tab

Property Inspector

Chart Options

Properties

Data Key

Domain Key

t_stamp

Pens

Range Key	Pen Name	Preview
Test1	Pen 1	
Test2	Pen 2	

Axes

Name	Label	Auto?	Low	High
Default Axis	Value	☒	0	100

Scripting

☐ Enabled

 Edit Script

Property/Symbol	Description
Data Key	Unique identifier or placeholder to the data source that will populate the chart.
Domain Key	The data key that should represent the X axis on the chart. The Timeseries Chart expects a timestamp, while the XY chart can use any numeric value as the domain key.
Pens	Pens represent a series of data. There are several properties for each pen exposed on the Chart Options tab: • Range Key: The key the pen should retrieve data from. • Pen Name: The name of the pen that should appear on the chart. • Preview: Visual representation of how the pen will be rendered. The trend is simply a preview, and does not take the data from the range key into account.
Add Pen 	Adds a pen.
Edit Pen 	Opens Pen Configuration area for editing.
Remove Pen 	Deletes a pen.
Axes	There are several properties for each axis exposed on the Chart Options tab: • Name: The name of the axis. • Label: Text next to the axis. Commonly used to describe what the values of each pen represent. • Auto?: Determines if the axis should automatically adjust the upper and lower bound of the axis to include all data from each pen. When enabled, the High and Low properties are ignored. When disabled, High and Low will be used. • Low: The low range value the axis will use when 'Auto?' is disabled. • High: The high range value the axis will use when 'Auto?' is disabled.
Add Axis 	Add an axis.
Edit Axis 	Opens Axis Configuration area for editing.

Property	Description
Data Key	Data key of the dataset that drives this chart.
Axis Label Font	Font to use for axis labels.
Axis Tick Font	Font to use for axis tick marks.
Bar Width	The width of any bar datapoints, specified in milliseconds.
Date Format	Optional format string to override the domain axis date format.
Domain Key	Key name of the column inside the dataset that contains the domain (x) value.
Gap Threshold	Multiplier for the average space between data points to be considered a data gap for the "line with gaps" render style.
No Data Msg	Message to show when no data is available.
Plot Background	Color to use for chart background. See Color Selector .
Show Legend	If true, show a legend for the chart.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to

Property	Description
	internal pages. • Page:Next: Navigates to the next page. • Page:Back: Navigates to the previous page. • Page:Number: Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.
Show X-Axis	If true, show the x-axis.
X-Axis Label	Label text for the x-axis.
Use Raster	If true, the component is displayed as a raster image. If false, the component is displayed as a vector.

Example

Dynamically set the range on your chart in the report. This script includes a minimum and maximum boundary so you can set operating ranges. It will throw out values that don't land in the correct range, like if you don't want to display oven temperatures below 500 degrees.

This code should be placed in the `configureChart` function definition of your chart. You can access it by clicking the **Edit Script** button at the bottom of the Property Inspector.

```
configureChart
```

```
# set boundaries to throw out 'bad' values that land outside this range
minBoundary = 50
maxBoundary = 100

from org.jfree.data.general import DatasetUtilities
# get the chart, axis, data
plot = chart.getPlot()
rangeAxis = plot.getRangeAxis()
rangeAxis.setAutoRange(False)
ds = plot.dataset

# Find the initial range of the dataset
rangeBounds = DatasetUtilities.findRangeBounds(ds)
rangeMin = rangeBounds.getLowerBound()
rangeMax = rangeBounds.getUpperBound()
# working minimum and maximum values for dataset. these are swapped with the
initial values on purpose
currentMin = rangeMax
currentMax = rangeMin

# Loop through the dataset to find desired min and max
series = 0 # which pen to search
numItems = ds.getItemCount(series)
for i in range(numItems):
    val = ds.getYValue(series,i)
    # find lowest value that is above the minBoundary
    if val > minBoundary and val < currentMin:
        currentMin = val
    # find highest value that is below the maxBoundary
    if val < maxBoundary and val > currentMax:
        currentMax = val

# calculate 10% padding
padding = (currentMax - currentMin) * 0.1

# set bounds in chart
rangeAxis.setLowerBound(currentMin - padding)
rangeAxis.setUpperBound(currentMax + padding)

# for troubleshooting: look in the console after going to the preview pane to see
real values
# comment these lines when done with testing
print "Min: ", currentMin
print "Max: ", currentMax
print "Padded Min: ", currentMin - padding
print "Padded Max: ", currentMax + padding
```

Report Component - XY Chart

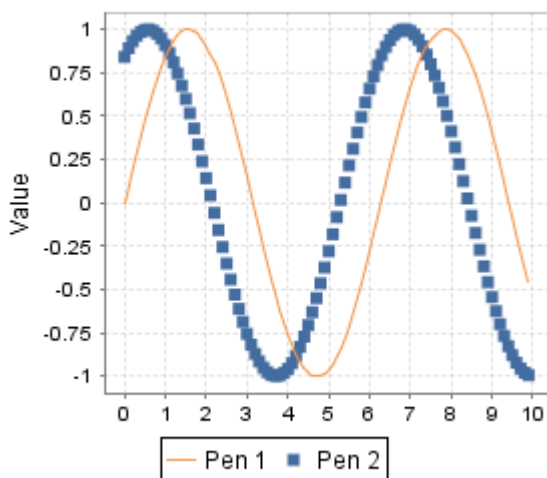


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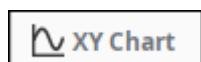
XY Chart

[Watch the video](#)

The XY Chart, while similar to the [Timeseries Chart](#), uses a numerical value for the Domain Axis instead of a Datetime. The XY chart is ideal when trying to detail the relationship between two keys.



Report Design Component Palette Icon



Properties

Property Inspector - Chart Options Tab

Property Inspector

Chart Options

Properties

Data Key

Domain Key

x

Pens

Range Key	Pen Name	Preview
Test1	Pen 1	
Test2	Pen 2	

Axes

Name	Label	Auto?	Low	High
Default Axis	Value	☒	0	100

Scripting

☐ Enabled

 Edit Script

Property	Description
Data Key	Unique identifier or placeholder to the data source that will populate the chart.
Domain Key	The data key that should represent the X axis on the chart. The Timeseries Chart expects a timestamp, while the XY chart can use any numeric value as the domain key.
Pens	Pens represent a series of data. There are several properties for each pen exposed on the Chart Options tab: • Range Key: The key the pen should retrieve data from. • Pen Name: The name of the pen that should appear on the chart. • Preview: Visual representation of how the pen will be rendered. The trend is simply a preview, and does not take the data from the range key into account.
Add Pen 	Adds a pen.
Edit Pen 	Opens Pen Configuration area for editing.
Remove Pen 	Deletes a pen.
Axes	There are several properties for each axis exposed on the Chart Options tab: • Name: The name of the axis. • Label: Text next to the axis. Commonly used to describe what the values of each pen represent. • Auto?: Determines if the axis should automatically adjust the upper and lower bound of the axis to include all data from each pen. When enabled, the High and Low properties are ignored. When disabled, High and Low will be used. • Low: The low range value the axis will use when 'Auto?' is disabled. • High: The high range value the axis will use when 'Auto?' is disabled.
Add Axis 	Add an axis.

Property	Description
Edit Axis 	Opens Axis Configuration area for editing.
Remove Axis 	Deletes an axis.
Scripting Enabled	Enables the script for this component to run.
Edit Script 	Allows the chart to be modified before the report is rendered via Python script.

Property Inspector - Properties Tab

Property Inspector

Chart Options

Properties

▼ Chart Options

Data Key

Axis Label Font

Axis Tick Font

Bar Width

Domain Key

Gap Threshold

No Data Msg

Plot Background

Show Legend

Dialog, Plain, 12

Dialog, Plain, 10

1

x

3

No Data

▼ ↗

☒

▼ X-Axis

Auto Range

Axis High

Axis Low

Margin

Number Format

Show X-Axis

X-Axis Label

☒

100

0

0.05

☒

▼ Stroke and Fill

Opacity

Stroke Style

Stroke

1

Hidden

▼ Basic Properties

Roll

Scale X

Scale Y

URL

Visible

Width

Height

X

Y

0

1

1

☒

300

200

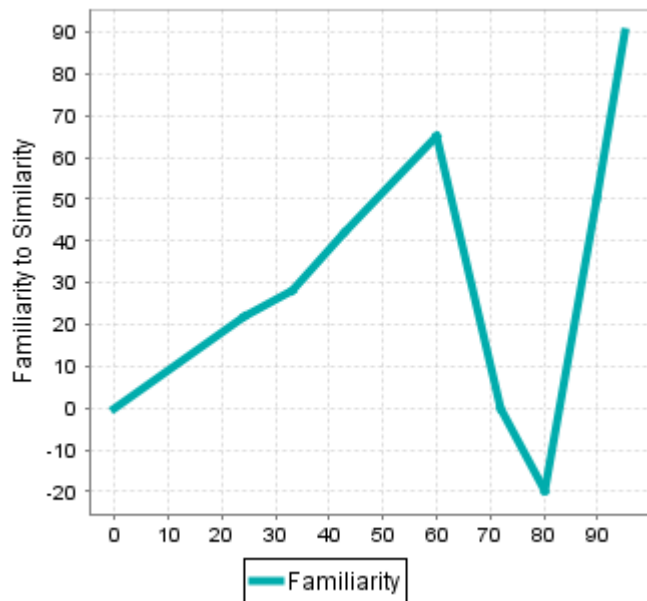
187

461

Property	Description
Data Key	Data key of the dataset that drives this chart.
Axis Label Font	Font to use for axis labels.
Axis Tick Font	Font to use for axis tick marks.
Bar Width	The width of any bar datapoints.
Domain Key	Key name of the column inside the dataset that contains the domain (x) value.
Gap Threshold	Multiplier for the average space between data points to be considered a data gap for the "line with gaps" render style.
No Data Msg	Message to show when no data is available.
Plot Background	Color to use for chart background. See Color Selector .
Show Legend	If true, show a legend for the chart.
Auto Range	If true, automatically determine range of X-axis.
Axis High	If autorange is turned off, the high value to use for the axis.
Axis Low	If autorange is turned off, the low value to use for the axis.
Margin	Margin for the x-axis edges.
Number Format	A optional number format string to override the automatic formatting on the x-axis.
Show X-Axis	If true, show the x-axis.
X-Axis Label	Label text for the x-axis.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill

Property	Description
	Properties.
Stroke	Details for the chosen stroke. Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.
Use Raster	If true, the component is displayed as a raster image. If false, the component is displayed as a vector.

Example



XY Chart Sample CSV Data - uncanny_valley

Familiarity, Human_Similarity

0, 0

22, 24

28, 33

42, 43

65, 60

0, 72

-20, 80

50, 90

90, 95

Property Inspector

Chart OptionsProperties

Data Key

uncanny_valley

Domain Key

Human_Similarity

Pens

Range Key	Pen Name	Preview
Familiarity	Familiarity	

Axes

Name	Label	Auto?	Low	High
Default Axis	Familiarity to ...	☒	0	100

Scripting

☐ Enabled  Edit Script

Report Design - Display Palette

Display Components

The following components provide various options for displaying values and data.

Barcode

The Barcode component allows reports to contain dynamically generated barcodes based on how you configure i...

Images

The Image component lets you embed images into reports.

Labels

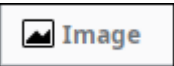
Labels can be used to print out a host of different types of labels depending on how you configure the Label prop...

Report - Barcode

The Barcode component allows reports to contain dynamically generated barcodes based on how you configure its properties. Barcodes are commonly embedded into unstructured Table Rows, or [Labels](#) for printing. When used in set-driven components such as these, each barcode can be encoded to a unique value provided by the driving data source. Note: The actual barcode, as well as any text to be displayed under the barcode, is generated and rendered when the report is executed or opened in the Preview panel.



Report Design Component Palette Icon



There are several types of barcodes formats that serve different uses and industries, and fall into two categories: Standard Barcodes and 2D Barcodes. Standard barcodes represent data by varying the widths and spacings of parallel lines. 2D Barcodes represent data using two-dimensional symbols and shapes, and hold more data than Standard barcodes. Each Barcode Format has specific requirements for what it will encode. The tables below show the different formats that are supported for each category, and provide a brief description including some of the industries they are use in. If you are unsure which code you should be using, please consult your existing barcode documentation.

If you need to create a GSI-128 barcode, you can use the Code128 symbology. Use the following special characters to represent the four GSI function codes:

Function Code	Symbol
ESCAPE_FNC_1	ñ
ESCAPE_FNC_2	ò
ESCAPE_FNC_3	ó
ESCAPE_FNC_4	ô

Barcode Formats

Standard



Barcode Format	Description	Industry Used
Codabar	Also known as Ames code, encodes a variable length code that supports a limited character set of the following 16 characters, digits 0-9, and symbols -.:\$/. It's easy to print and can be produced by any impact style printer.	Logistics, Healthcare, Education
Code 39	Encodes a variable length barcode with a limited number, letter and special character set, including capital letters A-Z, digits 0-9, symbols -.\$/%, and a space character. The asterisk (*) must be used as a start and stop delimiter. They are used to label goods across many industries.	Automotive, Defense
Code 128	Encodes a variable length barcode consisting of any of the 128 ASCII character set. They are powerful and can store diversified information.	Supply Chain
EAN_8	Encodes an 8 digit value used to label consumer goods primarily in Europe. Only used when limited space is available.	Retail
EAN_13	Encodes 13 digit value, used often as a product identification numbers to label consumer goods primarily in Europe.	Retail
ITF	Encodes numeric digits as pairs, must be supplied an even number of digits. Used to label packaging materials and are good for printing on corrugated cardboard.	Packaging
UPC_A	Is the most common form of UPC code consisting of 12 total digits: 11 digits and a checksum. Used to label consumer goods.	Retail

2D



Barcode Format	Description	Industry Used
Aztec	Encodes up to 3832 digits, 3067 letters or 1914 bytes of data. Used by the transportation system for tickets and airline boarding passes.	Transportation
Data_Matrix	Variable length and generate 2D barcodes with advanced encoding error checking and correction. Used to label small items, and documents	Electronics, Retail, Government
PDF417	Specialized linear scan barcode that can encode alphanumeric test. Used in applications that require storage of huge amounts of data.	Logistics, Government
QR_Code	Can generate an image encoding a string of text up to 4,296 alphanumeric characters in length. Supports four different modes of data: numeric, alphanumeric, byte/binary, and Kanji.	Retail, Entertainment, Advertising

Properties

Property Inspector - Configure Barcode Tab

Property Inspector

Configure Barcode

Properties

Datakey

Barcode Format

CODE_39

☐ Show Text

Barcode Format Info

Code 39 encodes a variable length barcode with a limited number, letter and special character set, including capital letters A-Z, digits 0-9, and symbols -.\$/% and space character. * must be used as a start and stop delimiter.

Property	Description
Data Key	Key that will populate the barcode.
Barcode Format	Barcode format to display.
Show Text	Determines if the value of the Data Key should appear on the barcode.
Font	Enabling the Show Text option allows the Font configuration to be edited for the displayed text.
Barcode Format Info	Describes the selected barcode format.

Property Inspector - Properties

Property Inspector

Configure BarcodeProperties

Barcode

Datakey

Barcode Format

Font

QR Code Error Corr...

QR Code Version

Show Text

CODE_39

Monospaced, Plain, 12

L

Auto

☐

Stroke and Fill

Opacity

Stroke Style

Stroke

1

Hidden

Basic Properties

Roll

Scale X

Scale Y

URL

Visible

Width

Height

X

Y

0

1

1

☒

140

60

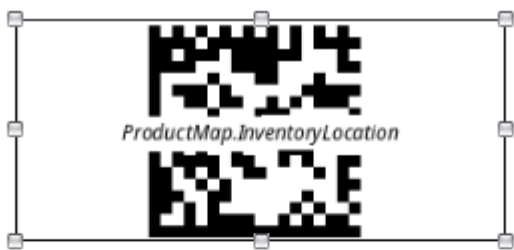
179

451

Property	Description
Datakey	Datakey for barcode.
Barcode Format	Barcode format to use, see options above.
Font	Font type, size, and style for barcode.
Show Text	If true, show barcode value as text. Not available for all barcode types.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.

Property	Description
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.
Use Raster	If true, the component is displayed as a raster image. If false, the component is displayed as a vector.

Example



Property Inspector

Configure Barcode

Properties

Datakey

ProductMap.InventoryLocation

Barcode Format

DATA_MATRIX

☐ Show Text

Barcode Format Info

Data Matrix barcodes are variable length and generate 2D barcodes with advanced encoding error checking and correction.

Property	Value
Datakey	ProductMap.InventoryLocation
Barcode Format	Data_Matrix

To add a barcode to a report, simply drag the Barcode component from the Report Design Palette on to your Design panel workspace. You will see a placeholder barcode with its driving data key displayed, and a description of the encoding for the type specified in the **Barcode Format** field of the

Configure Barcode tab. Data Keys can be dropped or typed into the **DataKey** field, and the driving key will be shown in its appropriate barcode placeholder. The actual barcode, as well as any text to be displayed under the barcode, is generated and rendered when the report is executed or previewed.

Barcodes require a **Data Key** or Text to encode. Note that each **Barcode Format** encoder has specific requirements for what it will encode. **Barcode Format Info** displays some brief information about the selected format, but is not comprehensive.

NOTE

To see an example of embedding a barcode in a data source driven component, refer to the [Labels with Embedded Barcodes](#) page. The example embeds a barcode in the repeating Labels component to dynamically create coded labels to track items.

Report - Images

The Image component lets you **embed images into reports**. Images can be dragged from a local computer, shared drive, webpage, or the Image Management Tool as files onto reports. They can also be pulled as binary data from a data source. If no **Key** is associated with the image component, the dropped image will be used. If the **Key** does not link to a valid image, no image will be shown. The image displayed in the Report Designer is a placeholder. It will be replaced with the image associated with the image's **Key** when the report is generated or previewed.

In the image component's **Property Inspector**, you can drag a **parameter** or a **data source** column from the **Key Browser** into the **Key** field. The Data Key can resolve to a byte array, such as an image retrieved from a database, or a URL that points to an image on the web, or an image file on a disk. Remember that reports are generated on the Gateway, so the image source needs to be accessible from the Gateway computer.

Keychain Expressions can not be used in the data key, but the Key can be a parameter or data source that dynamically constructs a path to an image. This allows you to easily change images in reports without changing the image component.



Report Design Component Palette Icon:



Properties

Property Inspector

▼ Stroke and Fill

Fill

Fill Color

Opacity

1

Stroke Style

Hidden

Stroke

▼ Image Shape

Grow To Fit

Key

Padding

0

Page Index

0

Preserve Aspect Ratio

▼ Rectangle Shape

Radius

0

▼ Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

Width

72

Height

62

X

232

Y

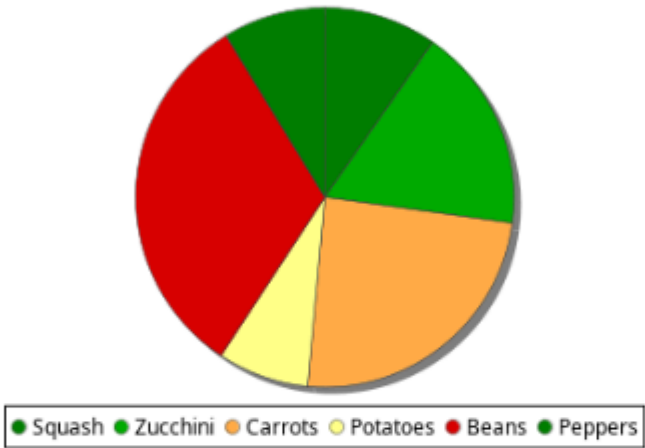
468

Property	Description
Fill	If true, the shape will fill its space with color.
Fill Selected	If fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Grow to Fit	If true, rescale the original image to fit the shape.
Key	Data Key for this image.
Padding	Padding between the image and the shape's bounds.
Page Index	For multi-page images, sets the page index to use.
Preserve Aspect Ratio	If true, preserve the aspect ratio when resizing the image.
Radius	The amount to radius the corners of this shape.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page.

Property	Description
	Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the top edge of this shape and the top edge of the page.

Example

Vegetable Report



Vegetable	Qty
Squash	10
Zucchini	18
Carrots	25
Potatoes	8
Beans	33
Peppers	9

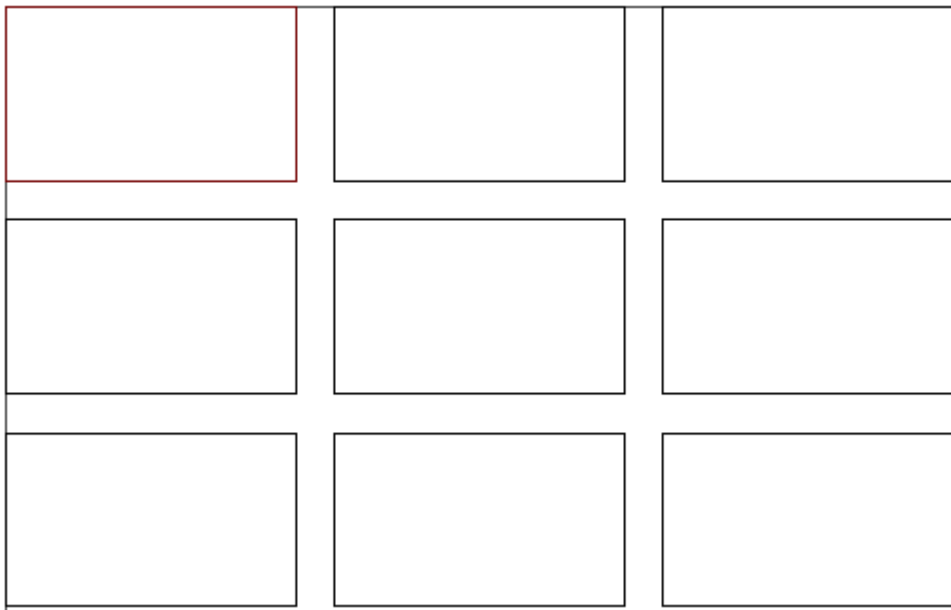
Property	Value
Key	Image Path

The image in this report was created using a **Parameter** that resolved to a URL.

Report - Labels

Labels can be used to print out a host of different types of labels depending on how you configure the Label properties. You can create mailing labels, name tags, or any other generic type of labels. You can use standard Avery label sheets, or specify your own dimensions. When the Labels component is selected, the label size and spacing can be set in the Labels Attributes area of the Configure Labels tab in the Property Inspector. The size of the Labels component automatically update based on the values in the Label Attributes area. There are more properties in under the Properties tab that you can set to customize your labels.

When creating labels, all you have to do is create one template label which is always the top-left label in the component. To edit the label itself, **super-select** the template label to add **Text Shapes** or **Keychain Expressions**, **Images** or **Barcodes**. After you create your template, go to the Preview Panel and the you'll see all the labels will be populated with your data. Keep in mind that any data keys or expressions within the Label component are driven by the Data Key configured in the component.



Report Design Component



Properties

Property Inspector - Configure Labels Tab

Property Inspector

Configure Labels

Properties

Dataset Key

Label Formatting

11112: Divider Inserts

Label Attributes

Rows

5

Columns

3

Label Width

150

Label Height

90

Spacing Width

20

Spacing Height

20

In the Property Inspector, use the Configure Labels tab to configure your table. Here is a list of all the Label properties and their descriptions.

Property	Description
Data Key	Name of DataSet that will populate the labels.
Label Formatting	Choose from a list of Avery Label Formats, or create a custom sized label.
Rows/Columns	Defines the number of rows and columns on the page.
Label Width/Height	Width and height of labels in pixels.
Spacing Width/Height	Distance between labels on the page in pixels.

Property Inspector - Properties Tab

Property Inspector

Configure Labels

Properties

▼ Labels

Dataset Key	
Columns	3
Label Height	90
Label Width	150
Rows	5
Spacing Height	20
Spacing Width	20

▼ Stroke and Fill

Fill	☐
Fill Color	
Opacity	1
Stroke Style	Hidden
Stroke	

▼ Basic Properties

Roll	0
Scale X	1
Scale Y	1
URL	
Visible	☒
Width	490
Height	530
X	69
Y	375

Property	Description
Dataset Key	Dataset key for labels.
Columns	Number of label columns.
Label Height	Height of each label in pixels.
Label Width	Width of each label in pixels.
Rows	Number of label rows.
Spacing Height	Spacing between label rows.
Spacing Width	Spacing between label columns.
Fill	If true, the shape will fill its space with color.
Fill Color	If fill is selected, the color that will fill its shape.
Opacity	How opaque the fill color is between, 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of the shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of the shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page.

Property	Description
	Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of the shape in pixels.
Height	Height of the shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.

Example

This example will create name tags with a logo. We will use the label dataset shown below that includes the attendee name, their title, and their company name.

Label Dataset

```
AttendeeName, Title, CompanyName
Jennifer Stewart, Marketing Manager, ABC Company
John Doe, Communications Director, Paint Company
Sally Johnson, Chief Operating Officer, Pure Water
Howard Hunter, Engineer, Sticker Shock
Alice Honey, Control Specialist, Signs and More
Rocky Rooney, Event Planner, All Occasions
Gracie Moon, Engineering Specialist, Lighting Comany
Candy Miller, Designer, Speciality Cards
Jimmy Rush, Marketing Specialist, Vegan Foods
Valerie Rain, Landscape Designer, Elegant Landscapes
```

1. Set the following property values in the Configure Labels tab of the Property Inspector to insert the Attendee Data as desired.

Property Inspector 🔍 ⌵ ✕

Configure Labels

Properties

Dataset Key

Attendee Data

🔍

Label Formatting

Custom

⌵

Label Attributes

Rows

5

Columns

2

Label Width

259

Label Height

131

Spacing Width

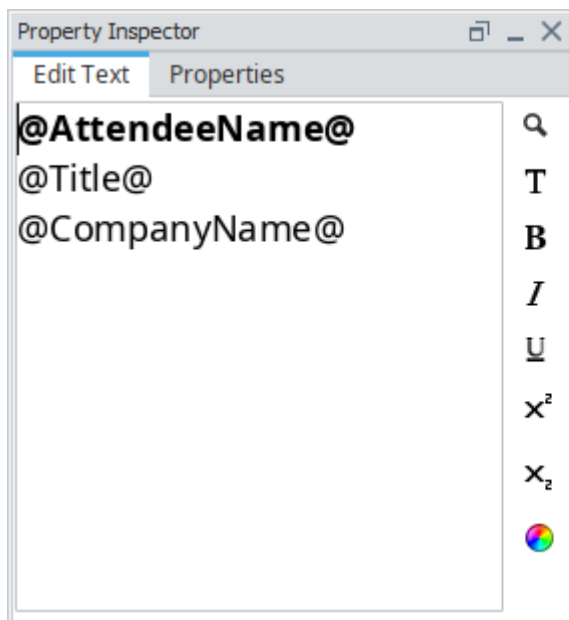
22

Spacing Height

6

Property	Value
Dataset Key	Attendee Data
Label Formatting	Custom
Rows	5
Columns	2
Label Width	259 pixels
Label Height	131 pixels
Spacing Width	22 pixels
Spacing Height	6 pixels

2. Insert the logo and set the name tag layout by configuring the label template.



Property	Value
Image	Image Management > Builtin/icons/24/user3.png
Text	AttendeeName - Bold and Italic
Font	18



Jennifer Stewart
Marketing Manager
ABC Company



John Doe
Communications Director
Paint Company



Sally Johnson
Chief Operating Officer
Pure Water



Howard Hunter
Engineer
Sticker Shock



Alice Honey
Control Specialist
Signs and More



Rocky Rooney
Event Planner
All Occasions



Gracie Moon
Engineering Specialist
Lighting Comany



Candy Miller
Designer
Speciality Cards



Jimmy Rush
Marketing Specialist
Vegan Foods



Valerie Rain
Landscape Designer
Elegant Landscapes

Report Design - Object Palette

Object Components

The following are object components used solely by the Report Module.

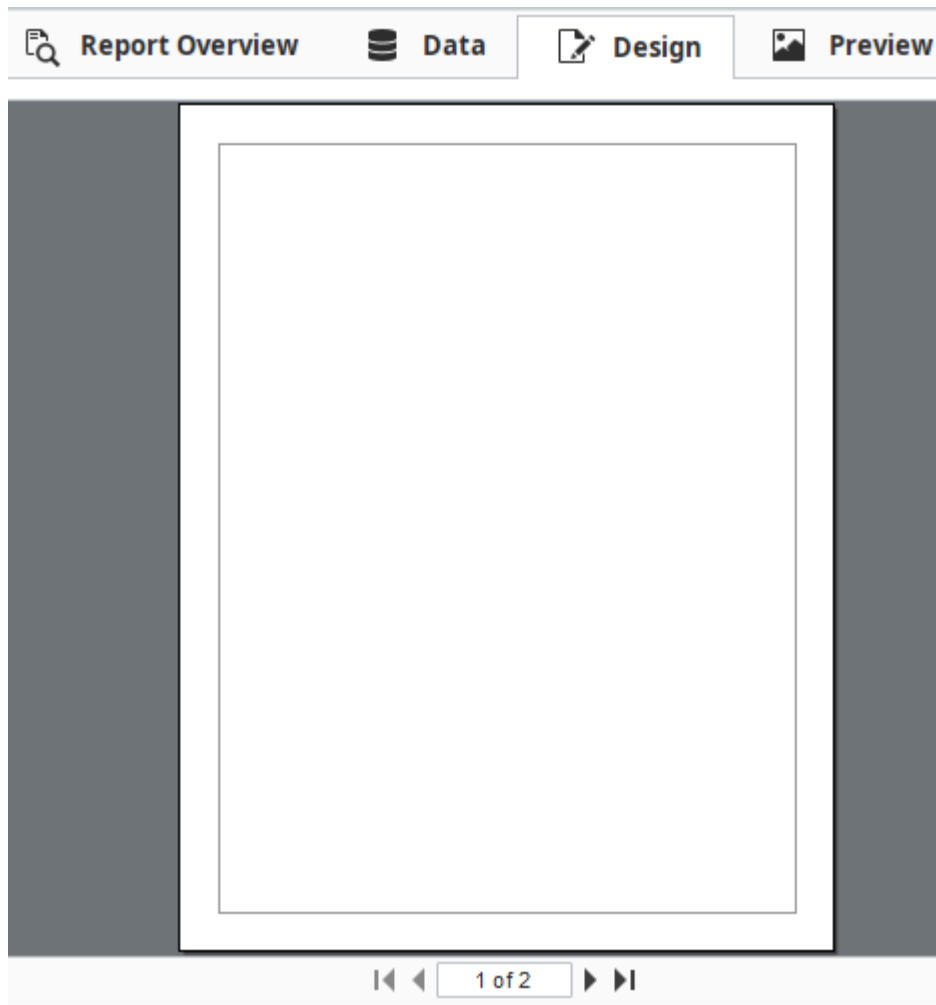
Page Object

Each report may consist of multiple pages. The Page component may be selected by clicking on a Page item in th...

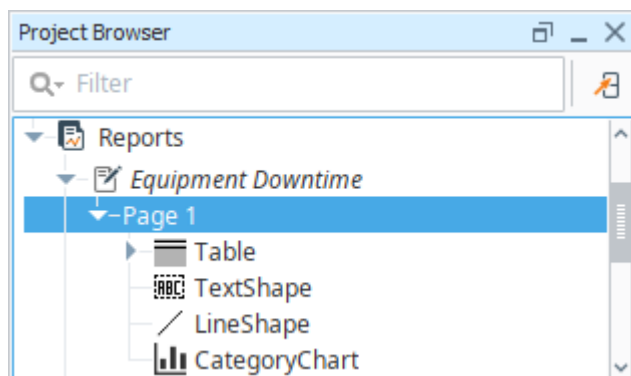
Report Object

The report itself. This component has properties that control the dimensions, margins, and more. These settings i...

Report - Page Object

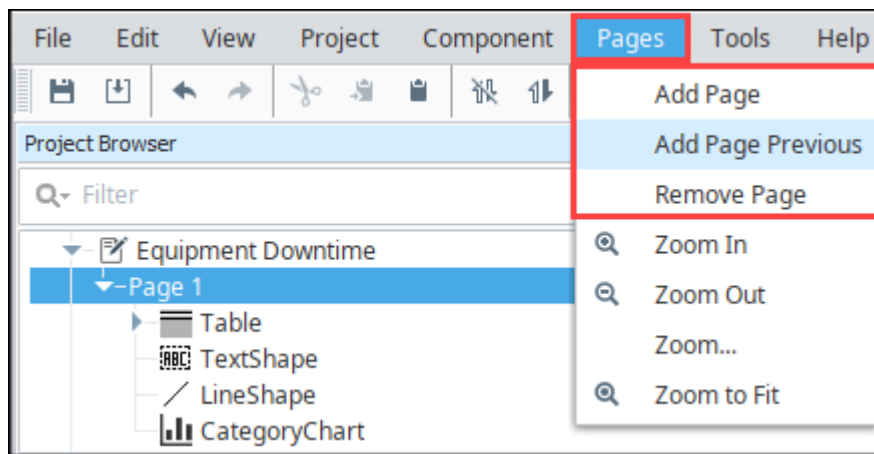


Each report may consist of multiple pages. The Page component may be selected by clicking on a Page item in the Project Browser.



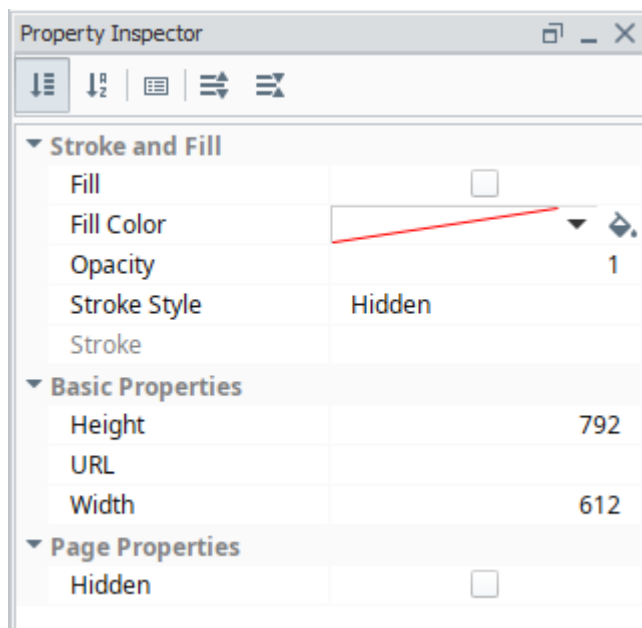
Menu Bar Items

Pages are added and removed from the the menu bar at the top of the browser.



Menu Item	Description
Add Page	Adds a new page to the report after the currently selected page.
Add Page Previous	Adds a new page to the report prior to the currently selected page. A cover page may easily be added to a pre existing report by using Add Page Previous.
Remove Page	Deletes the page that is currently visible in the main workspace.

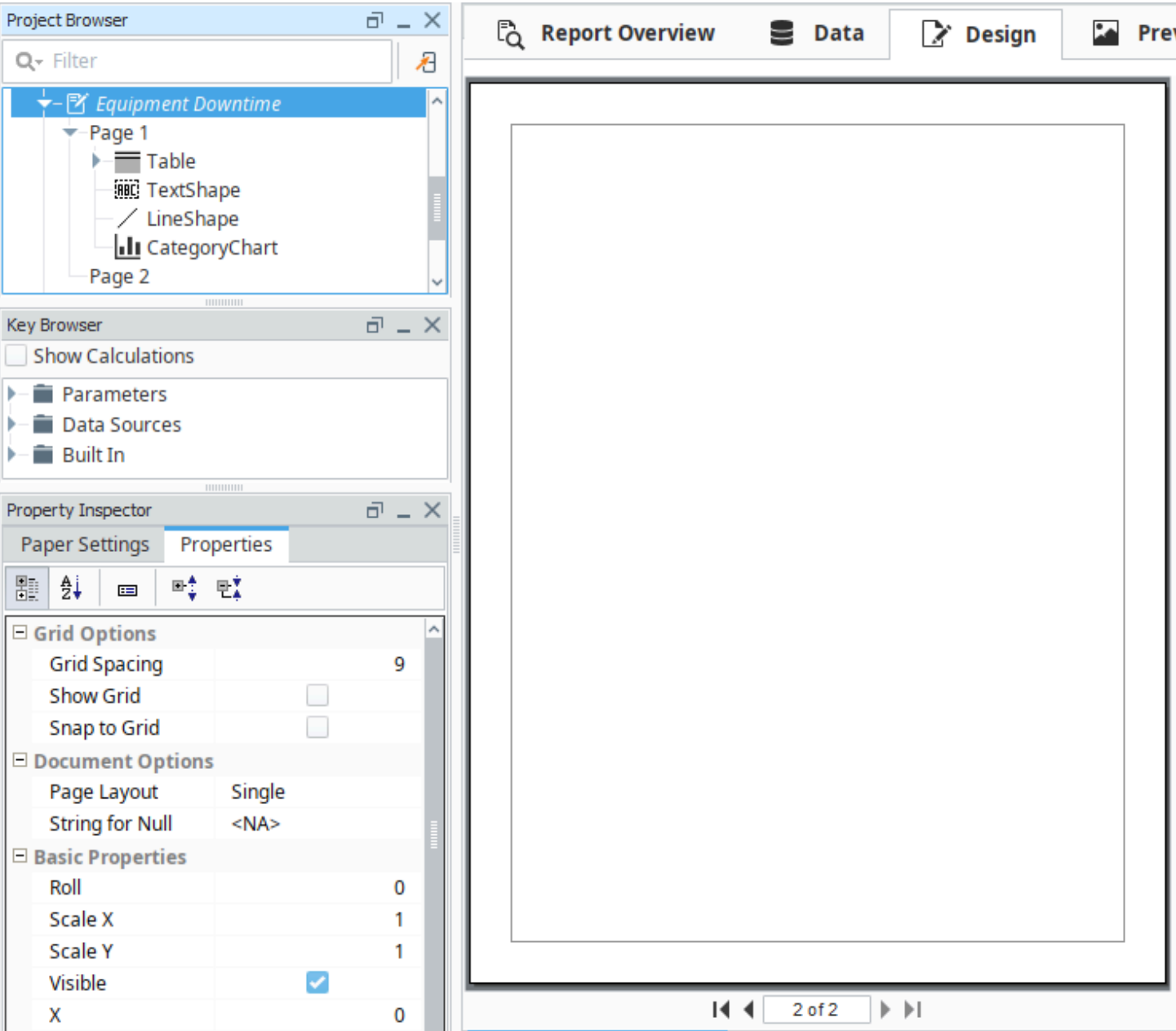
Properties



Property	Description
Fill	If true, the shape will fill its space with color.
Fill Color	If fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Height	Height of this shape in pixels
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Width	Width of this shape in pixels.
Hidden	Allows the entire page to be excluded from the report. If true, the page will not be included in the report, and the page will display a Hidden warning in the Design tab and (Hidden) text following the page name in the Project Browser. Although this is a static boolean parameter value by default, it can become dynamic by selecting the property and right-clicking to choose the Use dynamic data key option. Alternatively, you can drag and drop a data key onto the property from the Key Browser.

Report - Report Object

The report itself. This component has properties that control the dimensions and margins. These settings impact all pages in the report. It may be selected by clicking on the Report object in the Project Browser.



Properties

Paper Settings Tab

Project Browser

Filter

Equipment Downtime

Page 1

Table

TextShape

LineShape

CategoryChart

Page 2

Property Inspector

Paper Settings

Properties

Paper Size

Letter

Dimensions

Width

612

Height

792

Units

Point

Orientation

☒ Portrait

☐ Landscape

Margins

Left

36

Top

36

Right

36

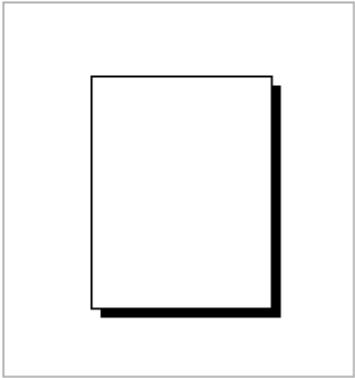
Bottom

36

☒ Show

☒ Snap

Preview



Property	Description
Paper Size	The desired paper size for the report. Many common sizes are available. When a size is selected, the width and height of the selected size are loaded into the Dimentions property.
Dimensions	Contains the Width and Height of the page. These properties work in conjunction with the Units property. The Dimensions may be changed manually here, or be modifying the Paper Size property. This section also contains a Units drop down with the following units of measurement: • Inch. • Point (Printer Point). 1 inch = 72 points • Centimeter. • Millimeter. • Pica. 1 inch = 6 picas
Orientation	Determines if the report should appear as Portrait (taller reports) or Landscape (wider reports)
Margins	Allows you to specify the position of the margin on the report. If the Show property is enabled, the margin is visible on the report's Design Panel. The margin will never appear on the Preview Panel or on the generated reports. The Snap property, when enabled, will cause report components to snap to the margin if moved within close proximity.

Properties Tab

Property Inspector

Paper Settings

Properties

▼ Document Options

Bypass Image Cache

☐

Page Layout

Single

String for Null

<N/A>

▼ Grid Options

Grid Spacing

9

Show Grid

☐

Snap to Grid

☐

▼ Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

☒

X

0

Y

0

Property	Description
Grid Spacing	The space between each grid in Printer Points. Defaults to 9, which is 1/8th of an inch.
Show Grid	Enables a grid on the Design Panel. Useful for spacing out each component on the report. The grid is not visible on the Preview Panel, or on the resulting report.
Snap to Grid	When dragging a component, enabling this property will cause the component to snap to the grid.
Bypass Image Cache	Ignores image caching in reports when set to true. Default value is false. The Reporting module keeps past image data temporarily by default. Enabling this property prevents potential issues such as the Image component showing the old image instead of the new one, which can alternatively be fixed by restarting the Reporting module.
Page Layout	Specifies how the page looks in the designer. Has the following options: • Single: The default value. Only a single page of the report appears in the Design Panel at a time. • Double: Shows two pages in the Design Panel, horizontally adjacent, with page 1 starting on the left. • Quadruple: Shows four pages in the Design Panel, horizontally adjacent. • Facing: Shows two pages at a time. Cycling through pages moves through two pages at a time, starting with page 1 on the right (similar to reading through a book). • Continuous: Stacks the pages vertically adjacent, with page 1 at the top. • ContinuousDouble: A combination of Double and Continuous; two horizontally adjacent pages are stacked vertically, with pages 1 and 2 at the top.
String for Null	Specifies the value to use should a key return a null value. Note that individual Text Shapes also have a String for Null property that will override this property.
Roll	Number of degrees this shape is rotated clockwise.

Property	Description
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the top edge of this shape and the top edge of the page.

Report Design - Shape Palette

Shape Components

The following components allow users to create shapes.

Ellipse Shape

The Ellipse shape component creates circles and ellipses that can be used in a report.

Line Shape

The Line shape component can be used to display a straight line any where in a report.

Pencil Shape

The Pencil shape component lets you draw free-hand path segments that automatically smooth the curves.

Polygon Shape

The Polygon shape component creates custom polygon shapes by drawing and connecting lines, and can be use...

Rectangle Shape

The Rectangle shape component creates a square or rectangle and can be used anywhere on a report.

Star Shape

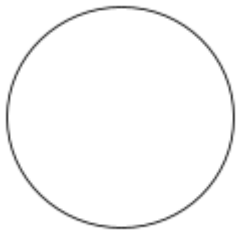
The Star shape component creates a star and can be used anywhere on a report.

Text Shape

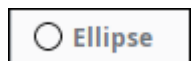
The Text shape component creates a text area for static or data key bound content.

Report - Ellipse Shape

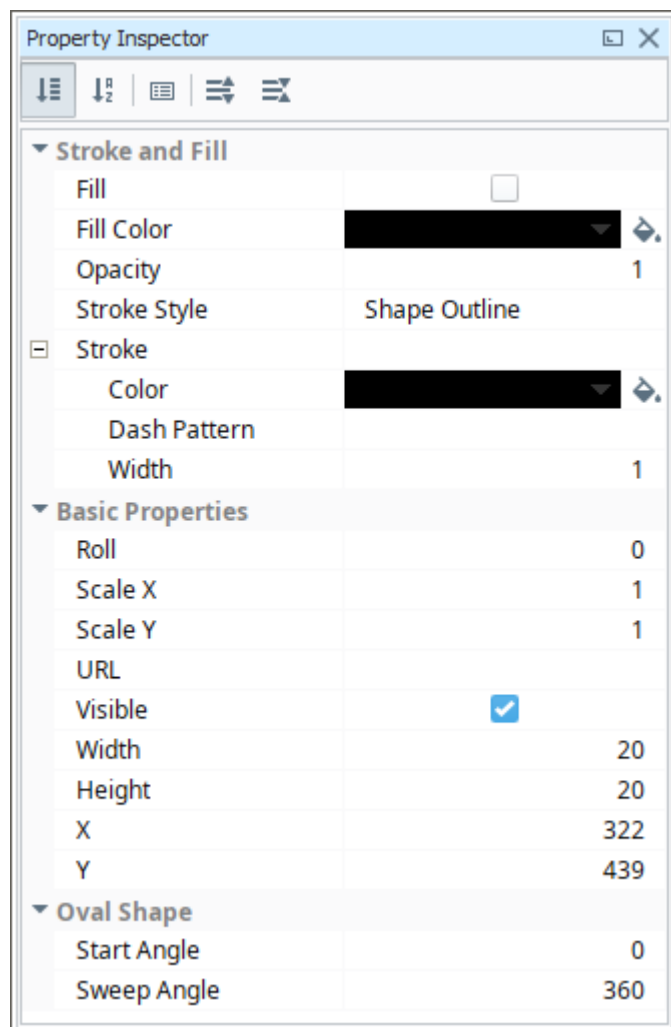
The **Ellipse** shape component creates circles and ellipses that can be used in a report. Select the Rectangle shape on the Report Component Palette to make it active, and click and drag to draw an ellipse anywhere in the Report Designer. Once an ellipse or circle is created, you can use the handles to change its width and height. Hold Shift to force the shape into a circle. You can also change its stroke style, color, start angle, and sweep angle.



Report Design Component Palette Icon:



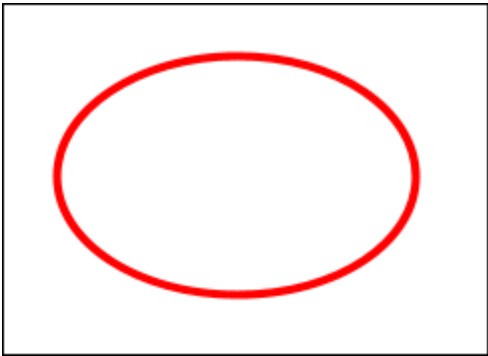
Properties



Property	Description
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden; Shape Outline; Border; Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen. • Color - Color to use for the stroke or border. • Dash Pattern - A "Dashed Pattern" string to specify the number of pixels on and off. For example, "5,10" • Width - Width of the stroke in pixels.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.

Property	Description
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.
Start Angle	Where to start the sweep angle, in degrees. 0 is at 3 o'clock.
Sweep Angle	How many degrees the oval is swept. 0 shows just a line, 360 shows the full oval.

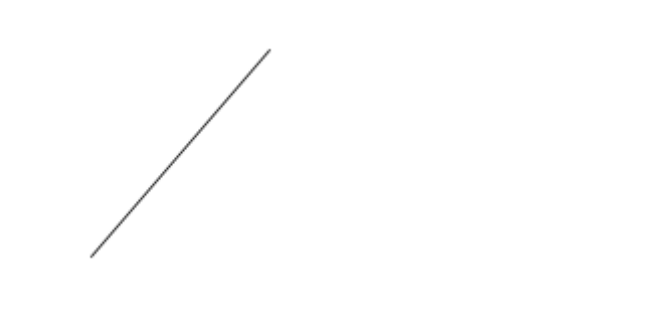
Example



Property	Value
Stroke Style	Shape Outline
Stroke - Color	FF0000
Stroke - Width	5 pixels
Sweep Angle	360

Report - Line Shape

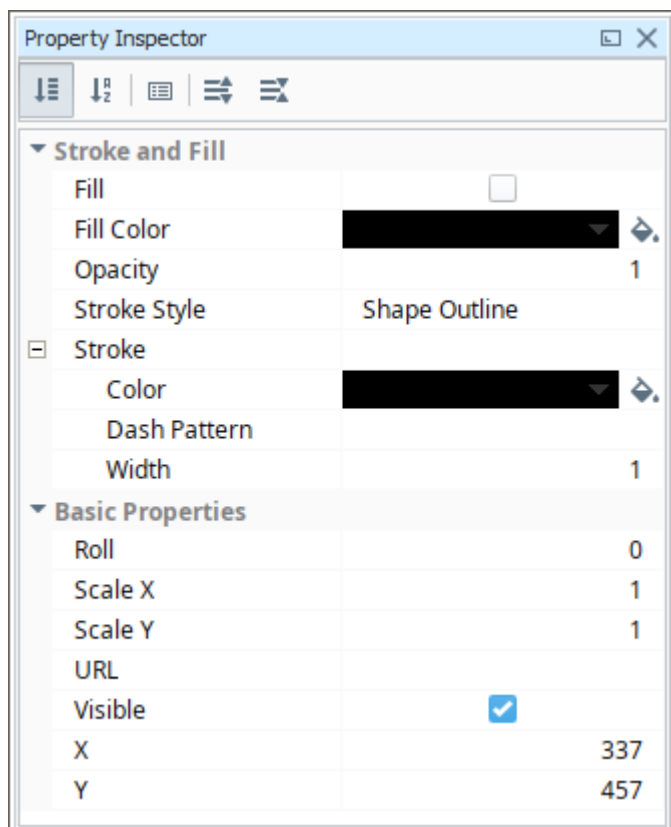
The Line shape component can be used to display a straight line any where in a report. It can run north-south, east-west, or diagonally. Select the Line shape on the Report Component Palette to make it active, and click and drag to draw a Line any where in your Report Designer. Hold shift while dragging to force the angle of the line to a 45 or 90 degree angle. You can change the stroke style, color, width, pattern, and more.



Report Design Component Palette Icon



Properties



Property	Description
Fill	If true, the shape will fill its space with color.
Fill Color	If true is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden; Shape Outline; Border; Double. To learn more about stroke styles, refer to Stroke and Fill Properties. • Color - Color to use for the stroke or border. • Dash Pattern - A "Dashed Pattern" string to specify the number of pixels on and off. For example, "5,10" • Width - Width of the stroke in pixels.
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.

Property	Description
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.
Stroke Color	Color of the line.
Stroke Width	Width of the stroke in pixels.

Example

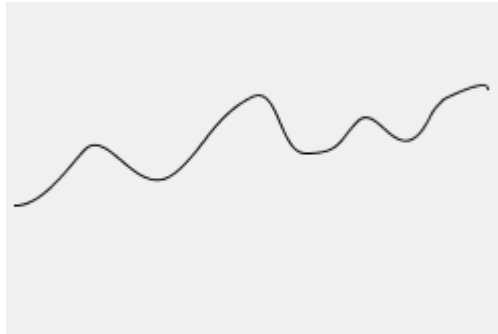
This example demonstrates possible property values that result in two orange lines.



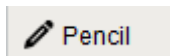
Property	Value
Stroke Style	Border
Stroke Color	FF8C00
Border Bottom	True
Border Top	True
Stroke Width	5 pixels

Report - Pencil Shape

The Pencil shape component lets you draw free-hand path segments that automatically smooth the curves. Using a Pencil shape can emphasize an area or an item on a report. Select the Pencil shape on the Report Design Palette to make it active, and draw a free-hand path anywhere in the Report Designer. If you stop drawing inside the small square that is placed at the shape's origin, then you will create a closed path, otherwise, you'll create an open path (line). Once a path is created, you can use the handles to change its width and height. You can also change its stroke style, color, and more.



Report Design Component Palette Icon



Properties

Property Inspector

Stroke and Fill

Fill	
Fill Color	
Opacity	1
Stroke Style	Shape Outline

Stroke

Color	
Dash Pattern	
Width	1

Basic Properties

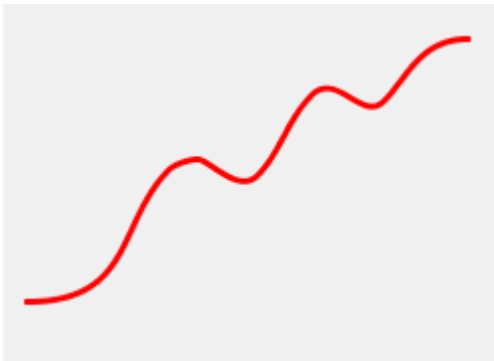
Roll	0
Scale X	1
Scale Y	1
Visible	☒
Width	242
Height	77.845
X	53
Y	135.155

Property	Description
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden; Shape Outline; Border; Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen. • Color - Color to use for the stroke or border. • Dash Pattern - A "Dashed Pattern" string to specify the number of pixels on and off. For example, "5,10" • Width - Width of the stroke in pixels.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.

Property	Description
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.

Example

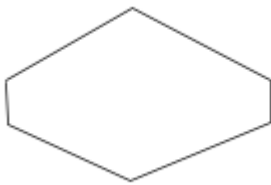
This example shows possible values to set Pencil stroke properties.



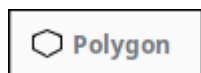
Property	Value
Stroke Style	Shape Outline
Stroke Color	FF0000
Stroke Width	6 pixels

Report - Polygon Shape

The Polygon shape component creates custom polygon shapes by drawing and connecting lines, and can be used anywhere on a report. Select the Polygon shape on the Report Component Palette to make it active, click once to start a line and click to anywhere else to add additional corners. Click on the starting location to form a polygon shape. Once the polygon component is created, you can use the handles to change its size. Double click on any of the individual lines to change the size and shape of the selected line. You can also change its stroke style, color, and dash pattern by using its properties.



Report Design Component Palette Icon:



Properties

Property Inspector

Stroke and Fill

Fill

Fill Color

Opacity

1

Stroke Style

Shape Outline

Stroke

Color

Dash Pattern

Width

1

Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

Width

43

Height

22

X

423

Y

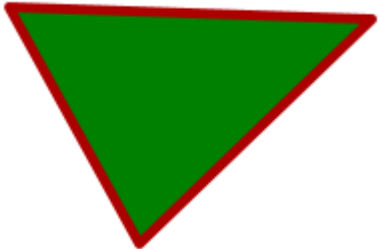
415

Property	Description
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden; Shape Outline; Border; Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen. • Color - Color to use for the stroke or border. • Dash Pattern - A "Dashed Pattern" string to specify the number of pixels on and off. For example, "5,10" • Width - Width of the stroke in pixels.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.

Property	Description
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.

Example

You can draw a triangle by clicking in three places, then once more at your start location.



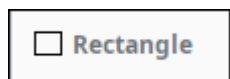
Property	Value
Fill Color	008000
Stroke Style	Shape Outline
Stroke Color	AC0000
Stroke Width	7 pixels

Report - Rectangle Shape

The Rectangle shape component creates a square or rectangle and can be used anywhere on a report. Select the Rectangle shape on the Report Component Palette to make it active, and click and drag anywhere in your Report Designer to create a rectangle shape. Once the rectangle component is created, you can use the handles to change its height and width. Hold Shift while dragging to create a square instead of a rectangle. You can also change its stroke style, color, and dash pattern.



Report Design Component Palette Icon:



Properties

Property Inspector

Stroke and Fill

Fill

Fill Color

Opacity

1

Stroke Style

Shape Outline

Stroke

Color

Dash Pattern

Width

1

Rectangle Shape

Radius

0

Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

Width

20

Height

20

X

440

Y

418

Property	Description
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden; Shape Outline; Border; Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke. Each Stroke has its own properties depending on the Stroke Style chosen. • Color - Color to use for the stroke or border. • Dash Pattern - A "Dashed Pattern" string to specify the number of pixels on and off. For example, "5,10" • Width - Width of the stroke in pixels.
Radius	Amount to radius the corners of this shape.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.

Property	Description
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.

Example



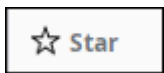
Property	Value
Fill Color	FFFF8A
Stroke Style	Double
Stroke Color	0000AC
Stroke Inner Width	3 pixels
Stroke Outer Width	10 pixels
Stroke Position	Inner on path
Stroke Separation	5 pixels

Report - Star Shape

The Star shape component creates a star and can be used anywhere on a report. Select the Star shape on the Report Component Palette to make it active, and draw a star anywhere in your Report Designer. Once the star is created you can use the handles to resize it. You can change the number of star points, bloat, color, and stroke using its properties.



Report Design Component Palette Icon:



Properties

Property Inspector

▼ Star Shape

Bloat

0.382

Points

5

Star Type

Star

▼ Stroke and Fill

Fill

Fill Color

Opacity

1

Stroke Style

Shape Outline

Stroke

Color

Dash Pattern

Width

1

▼ Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

Width

20

Height

20

X

414

Y

422

Property	Description
Bloat	How wide each arm of the star is. 0 will give lines for each arm, 1 makes the star a polygon with twice as many sides as the points property.
Points	Number of points in the star shape.
Star Type	Switches the star shape from a Star to a Polygon.
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden; Shape Outline; Border; Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke. Each Stroke has its own properties depending on the Stroke Style chosen. • Color - Color to use for the stroke or border. • Dash Pattern - A "Dashed Pattern" string to specify the number of pixels on and off. For example, "5,10" • Width - Width of the stroke in pixels.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.

Property	Description
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.

Example

This example shows possible values for the Star shape properties.



Property	Value
Points	8
Fill Color	FF00FF
Stroke Color	0000D9
Roll	20

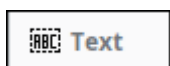
Report - Text Shape

The Text shape component creates a text area for static or data key bound content. It is used for report titles, customized page headers and footers, and of course, any additional text you want to add to a report. Select the Text Shape on the Report Component Palette to make it active, draw a rectangle in your Report Designer, and begin entering text. After it is created, you can move the Text component around, expand it, or shrink it by using the handles when the component is selected. The Text Shape component has two tabs; the Edit Text and Properties tabs.

The Edit Text tab has a set of functions on the right side of the tab to quickly edit the text, like changing the font type, size, style, and color. These same properties may also be modified from the Properties tab. Properties that are modified will usually affect all text in that object regardless of specific text selection. The Properties tab has a lot of properties associated with Text Shape component, including Data Key Format Properties for Date and Number formats by simply choosing a format from the list of available templates.

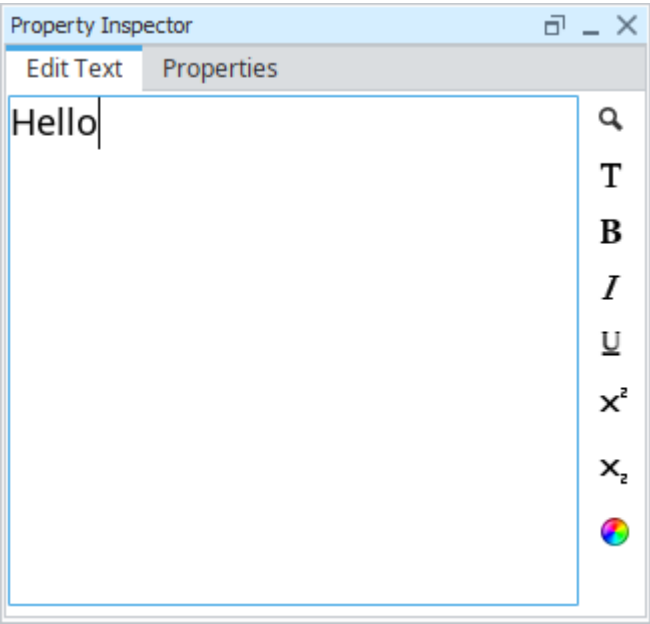


Report Designb Component Icon



Properties

Property Inspector - Edit Text Tab



Property	Description
	Insert data key
	Select font and size
	Bold
	Italic
	Underline
	Superscript
	Subscript
	Choose font color

Property Inspector - Properties Tab

Property Inspector

Edit Text Properties

▼ Text Properties

Text

Text Color

Character Spacing

0

Coalesce Newlines

☐

Font

Dialog.plain 12.0 (Dialo...

Horizontal Alignment

Left

Line Spacing

1

Margin

1; 2; 0; 2

Overflow Behavior

None

Underlined

☐

Vertical Alignment

Top

▼ Data Key Format Properties

Date Format

MMM d, y

Null Format

<N/A>

Number Format

#0.##

%

Negative In Red

☐

▼ Stroke and Fill

Fill

☐

Fill Color

Opacity

1

Stroke Style

Hidden

Stroke

▼ Rectangle Shape

Radius

0

▼ Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

☒

Width

8

Height

19

X

310

Y

408

Property	Description
Text	Text to display in the shape.
Text Color	Color of the text.
Character Spacing	Amount of extra spacing to add between characters. Negative spacing makes characters closer together.
Coalesce Newlines	If true, consecutive line breaks will be merged into one.
Font	Font to use for the text.
Horizontal Alignment	Horizontal alignment for text.
Line Spacing	Spacing between lines of text. 1 is single spacing, 2 is double spacing, etc.
Margin	Margin between text and bounds of shape in pixels. Format is top; left; bottom; right.
Overflow Behavior	How text that overflows the bounds of the shape should be handled. • Paginate - text is pushed to the next page if the number of characters exceed the shape. • Shrink text to fit - text fits into the shape when expanded, and the font is smaller when previewed or printed.
Underlined	If true, use underlined text.
Vertical Alignment	Vertical alignment for text.
Date Format	Format to use for dates in this shape.
Null Format	Format to use for null values in this shape.
Number Format	Format to use for numbers in this shape.
Negative in Red	If true, show negative numbers in red.
Fill	If true, the shape will fill its space with color.

Property	Description
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the Fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden; Shape Outline; Border; Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Radius	Amount to radius the corners of this shape if using a Stroke.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.

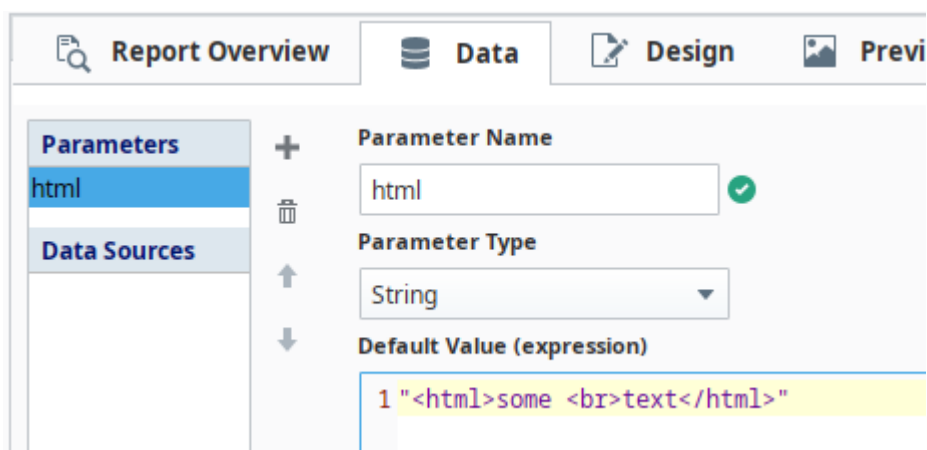
Property	Description
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.

Using HTML in the Edit Text Tab

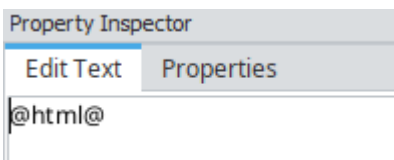
Text Shapes can render HTML tags if the value of the Text property is referencing a report parameter that contains HTML. For example, if a parameter contained the following value, then you can assign an HTML parameter to the Text property of a Text shape.

1. Create a parameter.

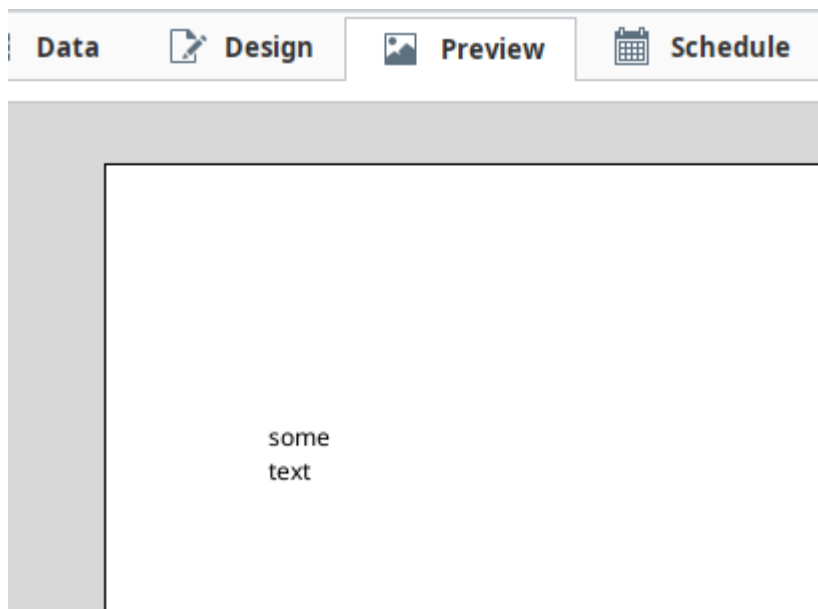
```
"<html>some <br>text</html>"
```



2. Then, in the Edit Text tab on the Text shape, enter @html@.



3. Access the Preview tab to see how the key renders.



Additionally, you can query HTML from a database in the Data Sources field to render HTML tags. Similar to the process described above, you'll need to enter the data key of your query into the Edit Text tab, and then confirm your rendered HTML with the Preview tab.

Supported Tags

Below is a list of all supported tags. The use of any non-supported tags will be ignored by the Report module. You don't need to include the closing formatting tag if the rest of the string should use the formatting.

Formatting Option	Tag	Example
Line Break	<code>
</code>	<code><html>Hello
World</html></code>
Bold	<code></code>	<code><html>Hello World</html></code>
Italic	<code><i></code>	<code><html>Hello <i>World</i></html></code>
Emphasis	<code></code> Displayed as italics.	<code><html>Hello World</html></code>
Underline	<code><u></code>	<code><html>Hello <u>World</u></html></code>
Font Size	<code></code> The possible values for x and related size modifier are listed below.	<code><html>Hello World</html></code>
Font Color	<code></code> Where x is a named color, such as 'red' or a hex code ('#0000FF')	<code><html>Hello World</html></code> <code><html>Hello World</html></code>
Superscript	<code><sup></code>	<code><html>Hello <sup>World</sup></html></code>
Subscript	<code><sub></code>	<code><html>Hello <sub>World</sup></html></code>
Alignment	<code><left></code> , <code><center></code> , <code><right></code>	<code><html>Hello <center>World</center></html></code>

Font Size

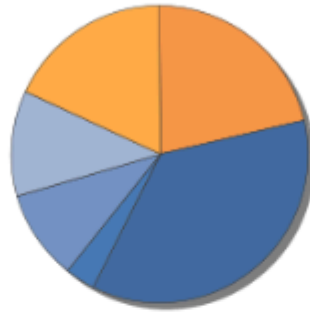
Value	Size Modifier
1	.5
2	.75
3	1.0
4	1.2
5	1.4
6	1.6
7	2.0

Example

This example shows the property values used to create a heading for the Used Car Inventory report below.

Used Car Inventory

April 2020



● Ford ● Toyota ● Mercedes ● Buick ● Lexus ● Jeep

Make	Quantity
Ford	13
Toyota	22
Mercedes	2
Buick	6
Lexus	7
Jeep	11

Used Car Inventory Settings

Property Inspector

Edit Text

Properties

2

Text Properties

Text

Used Car Inventory

Text Color

Character Spacing

0

Coalesce Newlines

Font

Arial Bold 24.0 (Arial)

Horizontal Alignment

Left

Line Spacing

1

Margin

1; 2; 0; 2

Overflow Behavior

Shrink text to fit

Underlined

Vertical Alignment

Top

Used Car Inventory

Property	Value
Text	Used Car Inventory
Text Color	FFFFFF, Bold
Font Size	24 pixels

April 2020 settings

Property Inspector

Edit Text

Properties

2

Text Properties

Text

April 2020

Text Color

Character Spacing

0

Coalesce Newlines

Font

Arial Bold 18.0 (Arial)

Horizontal Alignment

Center

Line Spacing

1

Margin

1; 2; 0; 2

Overflow Behavior

Grow row

Underlined

Vertical Alignment

Top

April 2020

Property	Value
Text	April 2020
Text Color	FFFFFF
Font Size	18 pixels

Report Design - Table Palette

Table Components

The following components offer various types of Tables for displaying values.

Crosstab Table

CrossTab Tables are commonly used to summarize the relationship between two categories of data.

Simple Table

The Simple Table is a grid-like table structure that dynamically creates new rows and columns for rows returned ...

Table

The Report Table displays data in a structured, repetitious format which gives reporting users the ability to flexibl...

Report - Crosstab Table



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CrossTab Table

[Watch the video](#)

CrossTab Tables are commonly used to summarize the relationship between two categories of data by showing summaries of cross sections of the data source. The CrossTab Table allows you to very quickly show cross sections of data where the other table types are focused on a dynamic number of rows and columns. CrossTab data should contain the following:

- Lots of repetitious data. Sums, Averages, and other Aggregating functions are well represented by CrossTab Tables.
- A data source that provides at least two columns of data which are repetitious compared to the number of rows.
- One or more columns that represent a value that requires calculation. Examples are: summing money, displaying average response times, counting occurrences, etc. These calculations may be provided as columns or calculations of the data source, or as [Keychain Expressions](#).

CrossTab tables can be customized using table and cell properties. It also has a number of style templates. Select any one of the style templates, use as is, or double click on any of the cells to change the individual cell's properties. Configure the style in the Design panel, and view the table with your data in the Preview panel. To learn more about the CrossTab Table, refer to the [CrossTab and Simple Tables](#) page.

A diagram illustrating the structure of a CrossTab table. It shows a large rectangular area divided into a header section at the top and a data section below. The header section is further divided into two parts: a smaller header on the left and a larger header on the right. The data section is a large rectangle. A small label 'CrossTab' is located in the bottom right corner of the data section.

Report Design Component Palette Icon:



Properties

Table Properties

Property Inspector

▼ Table

Data Key	
Columns	4
Filter Key	
Header Columns	1
Header Rows	1
Rows	10
Style	Default

▼ Stroke and Fill

Fill	☐
Fill Color	
Opacity	1
Stroke Style	Hidden
Stroke	

▼ Basic Properties

Roll	0
Scale X	1
Scale Y	1
URL	
Visible	☒
Width	600
Height	312
X	0
Y	0

Property	Description
Data Key	The data key associated with this Tabular component. Should be the data key of a data source that contains rows, such as a query.
Columns	Number of columns.
Filter Key	A key or expression used to prune the underlying data source's rows down. If not blank, only rows for which this key expression evaluates to true will be included.
Header Columns	Number of Header Columns.
Header Rows	Number of Header Rows.
Reprint Header Rows	Enable header row printing when pagination occurs.
Rows	Number of Rows.
Style	Give the CrossTab or Simple Table a pre-configured style. • None • Classic 1 through Classic 3 • Default • Elegant - with double border around the table. • Grid 1 through Grid 8 • List 1 through List 6 • Professional • Simple 1 through Simple 6 The Style section below shows several examples of some of the style templates you can choose from.
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.

Property	Description
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape to the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape to the top edge of the page.

Cell Properties

Property Inspector

▼ Text Properties

Text

Text Color

Character Spacing

0

Coalesce Newlines

☐

Font

Dialog.plain 12.0 (Dialog)

Horizontal Alignment

Center

Line Spacing

1

Margin

5; 5; 5; 5

Overflow Behavior

None

Underlined

☐

Vertical Alignment

Middle

▼ Data Key Format Properties

Date Format

MMM d, y

Null Format

<N/A>

Number Format

#0.##

%

Negative In Red

☐

▼ Stroke and Fill

Fill

☐

Fill Color

Opacity

1

Stroke Style

Hidden

Stroke

Show Top Divider

☒

Show Left Divider

☒

Show Bottom Divider

☒

Show Right Divider

☒

▼ Grouping

Grouping Key

▼ Rectangle Shape

Radius

0

▼ Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

☒

Width

120

Height

25

X

120

Y

112

Property	Description	Category
Text	Text to display in the shape.	Text Properties
Text Color	Color of the text.	Text Properties
Character Spacing	Amount of extra spacing to add between characters. Negative spacing makes characters closer together.	Text Properties
Coalesce Newlines	If true, consecutive line breaks will be merged into one.	Text Properties
Font	Font to use for the text.	Text Properties
Horizontal Alignment	Horizontal Alignment for text: Left; Right; Center; Full.	Text Properties
Line Spacing	Spacing between lines of text. 1 is single spacing, 2 is double spacing, etc.	Text Properties
Margin	Margin between texts and bounds of shape in pixels. Format is top: left: bottom; right.	Text Properties
Overflow Behavior	How text that overflows the bounds of the shape should be handled. Select Shrink text to fit to reduce the font size when previewed or printed so that the text fits into the shape.	Text Properties
Underlined	If true, use underlined text.	Text Properties
Vertical Alignment	Vertical alignment for text: Top; Middle; Bottom.	Text Properties
Date Format	Formats to use for dates in this shape.	Data Key and Format Properties
Null Format	Formats to use for null values in this shape.	Data Key and Format Properties
Number Format	Formats to use for numbers in this shape.	Data Key and Format

Property	Description	Category
		Properties
Negative in Red	If true, show negative numbers in red.	Data Key and Format Properties
Fill	If true, the shape will fill its space with color.	Stroke and Fill
Fill Color	If Fill is selected, the color that will fill the shape.	Stroke and Fill
Opacity	How opaque the fill color is, between 0 and 1.	Stroke and Fill
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .	Stroke and Fill
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.	Stroke and Fill
Grouping	Grouping Key will add a row or column for each Grouping the key generates.	Grouping
Radius	Amount to radius the corners of this shape.	Rectangle Shape
Roll	Number of degrees this shape is rotated clockwise.	Basic Properties
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.	Basic Properties
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.	Basic Properties
Visible	If true, the shape will be visible.	Basic Properties
Width	Width of this shape in pixels.	Basic Properties

Property	Description	Category
Height	Height of this shape in pixels.	Basic Properties
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.	Basic Properties
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.	Basic Properties

Cells have a functions feature. Double click on a cell and then right click to see the functions. All the functions are the same for any cell that is selected.

Function	Description
Clear Contents	Deletes all contents from the selected cell.
Add Row Above	Adds a row above the selected cell.
Add Row Below	Adds a row below the selected cell.
Add Column Before	Adds a column before the selected cell.
Add Column After	Adds a column after the selected cell.
Remove Row	Removes the selected row.
Remove Column	Removes the selected column.
Merge Cells	Combines the selected cells.
Split Cell	Splits the selected cell into individual cells.

Reserved Column Names

Besides the built-in keys for the Reporting Module's Table component, there are several reserved names that should not be used as keys for column headers. These keys are broken down into categories in the following table:

Key Type	Key
Heritage/Top Level	Running
Heritage/Top Level	Remaining
Heritage/Top Level	Up
Aggregate	total
Aggregate	average
Aggregate	count
Aggregate	countDeep
Aggregate	max
Aggregate	min

Example

The Elegant Style template was used for this CrossTab table in a report. This CrossTab Table shows the downtime in minutes for each piece of equipment at each site.

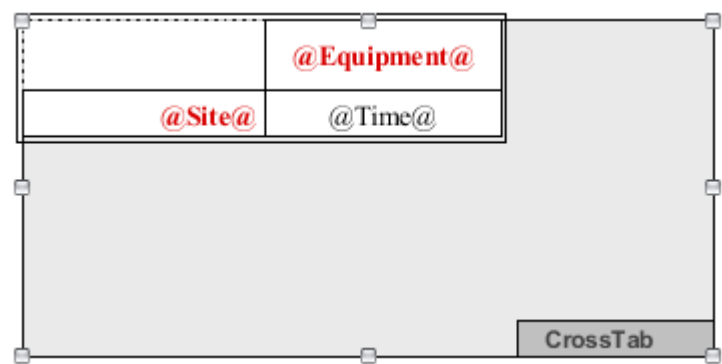
Equipment Downtime by Site				
	Motor	Conveyor Line	Pallet Wrapper	Palletizer
Site A	15	56	58	20
Site B	100	148	55	40
Site C	96	50	45	30

The Downtime Dataset used for this CrossTab Table example is below:

Downtime Dataset

```
Equipment,Time,Site
Motor, 15, Site A
Motor, 23, Site A
Conveyor Line, 148, Site B
Pallet Wrapper, 58, Site A
Motor, 96, Site C
Conveyor Line, 23, Site B
Palletizer, 40, Site B
Palletizer, 30, Site C
Conveyor Line, 56, Site A
Conveyor Line, 50, Site C
Pallet Wrapper, 45, Site C
Motor, 43, Site C
Palletizer, 20, Site A
Pallet Wrapper, 55, Site B
Motor, 100, Site B
```

The data keys Equipment, Time, and Site were used to populate the CrossTab Table with data:



The property values used to configure the CrossTab Table are shown in the property list:

Property	Value
Style	Elegant
Text Color (for Equipment and Site Headers)	FF0000
Font	14
Horizontal Alignment	Center
Horizontal Alignment (for Site)	Right

Report - Simple Table



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Simple Table

[Watch the video](#)

With the Simple Table, you can very quickly add a table inside a report. The Simple Table is a grid-like table structure that dynamically creates new rows and columns for rows returned by the Data Keys on the component. To learn more about the Simple Table, refer to the [CrossTab and Simple Tables](#) page.

NOTE

When creating an XLS file of a report that contains a Simple Table, the content in the Simple Table will be added as an editable overlay. To create an XLS file that places the data directly into cells on the spreadsheet, use a [Table](#) component instead.

Report Design Component Palette Icon:

 Simple Table

Properties

Table Properties

Property Inspector

▼ Table

Data Key	
Columns	3
Filter Key	
Header Columns	0
Header Rows	1
Rows	3
Style	Default

▼ Stroke and Fill

Fill	☐
Fill Color	
Opacity	1
Stroke Style	Hidden
Stroke	

▼ Basic Properties

Roll	0
Scale X	1
Scale Y	1
URL	
Visible	☒
Width	360
Height	100
X	268.073
Y	427.146

Property	Description
Data Key	The data key associated with this Tabular component. Should be the data key of a data source that contains rows, such as a query.
Columns	Number of columns.
Filter Key	A key or expression used to prune the underlying data source's rows down. If not blank, only rows for which this key expression evaluates to true will be included.
Header Columns	Number of Header Columns.
Header Rows	Number of Header Rows.
Rows	Number of Rows.
Style	Give the CrossTab or Simple Table a pre-configured style. • None • Classic 1 through Classic 3 • Default • Elegant - with double border around the table. • Grid 1 through Grid 8 • List 1 through List 6 • Professional • Simple 1 through Simple 6 The Style section below shows several examples of some of the style templates you can choose from.
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.

Property	Description
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape to the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape to the top edge of the page.

Cell Properties

Property Inspector

▼ Text Properties

Text

Text Color

Character Spacing

0

Coalesce Newlines

☐

Font

Dialog.plain 12.0 (Dialog)

Horizontal Alignment

Center

Line Spacing

1

Margin

5; 5; 5; 5

Overflow Behavior

None

Underlined

☐

Vertical Alignment

Middle

▼ Data Key Format Properties

Date Format

MMM d, y

Null Format

<N/A>

Number Format

#0.##

%

Negative In Red

☐

▼ Stroke and Fill

Fill

☐

Fill Color

Opacity

1

Stroke Style

Hidden

Stroke

Show Top Divider

☒

Show Left Divider

☒

Show Bottom Divider

☒

Show Right Divider

☒

▼ Grouping

Grouping Key

▼ Rectangle Shape

Radius

0

▼ Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

☒

Width

120

Height

25

X

0

Y

0

Property	Description
Text	Text to display in the shape.
Text Color	Color of the text.
Character Spacing	Amount of extra spacing to add between characters.Negative spacing makes characters closer together.
Coalesce Newlines	If true, consecutive line breaks will be merged into one.
Font	Font to use for the text.
Horizontal Alignment	Horizontal Alignment for text: Left; Right; Center; Full.
Line Spacing	Spacing between lines of text. 1 is single spacing, 2 is double spacing, etc.
Margin	Margin between texts and bounds of shape in pixels. Format is top: left: bottom; right.
Overflow Behavior	How text that overflows the bounds of the shape should be handled. Shrink text to fit - text fits into the shape, and the font is smaller when previewed or printed.
Underlined	If true, use underlined text.
Vertical Alignment	Vertical alignment for text: Top; Middle; Bottom.
Date Format	Formats to use for dates in this shape.
Null Format	Formats to use for null values in this shape.
Number Format	Formats to use for numbers in this shape.
Negative in Red	If true, show negative numbers in red.
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.

Property	Description
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Show Top Divider	If true, show top divider.
Show Left Divider	If true, show left divider.
Show Bottom Divider	If true, show bottom divider.
Show Right Divider	If true, show right divider.
Grouping	Grouping Key will add a row or column for each Grouping the key generates.
Radius	Amount to radius the corners of this shape.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.

Property	Description
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels. This property is read-only.
Height	Height of this shape in pixels. This property is read-only.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page. This property is read-only.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page. This property is read-only.

Reserved Column Names

Besides the built-in keys for the Reporting Module's Table component, there are several reserved names that should not be used as keys for column headers. These keys are broken down into categories in the following table:

Key Type	Key
Heritage/Top Level	Running
Heritage/Top Level	Remaining
Heritage/Top Level	Up
Aggregate	total
Aggregate	average
Aggregate	count
Aggregate	countDeep
Aggregate	max
Aggregate	min

Example

This Simple Table shows the total number of downtime events and downtime minutes, as well as the average number of downtime minutes for each piece of equipment. The included Equipment Downtime Dataset was used for this Simple Table example.

Equipment Downtime Events				
	Motor	Conveyor	Palletizer	Pallet Wrapper
Downtime Count	8	8	8	8
Total DT Duration (Min)	218	597	407	426
AVG DT Duration (Min)	27.25	74.62	50.88	53.25

```
Equipment, Duration_minutes
"Motor", 52
"Conveyor", 154
"Palletizer", 58
"Pallet Wrapper", 251
"Motor", 33
"Conveyor", 94
"Palletizer", 10
"Pallet Wrapper", 25
"Motor", 23
"Conveyor", 60
"Palletizer", 32
"Pallet Wrapper", 25
"Motor", 12
"Conveyor", 33
"Palletizer", 8
"Pallet Wrapper", 25
"Motor", 24
"Conveyor", 124
"Palletizer", 75
"Pallet Wrapper", 25
"Motor", 43
"Conveyor", 51
"Palletizer", 120
"Pallet Wrapper", 25
"Motor", 13
"Conveyor", 36
"Palletizer", 39
"Pallet Wrapper", 25
"Motor", 18
"Conveyor", 45
"Palletizer", 65
"Pallet Wrapper", 25
```

The Simple Table uses the Show Calculation property in the Key Browser and several of the Built-in Keys: 'count', 'total', and 'average.' Other properties were modified to make the column headers and row headers stand out. Double click on the cell to change the property values for that cell. The property values for this example are shown in the property list below.

	@Equipment@
Downtime Count	@count@
Total DT Duration (Min)	@total.Duration_minutes@
AVG DT Duration (Min)	@average.Duration_minutes@

Property	Value
Style	Default
Columns	1
Header Columns	1
Rows	3
Column Header	Equipment
Header in Row 1	Downtime Count
Header in Row 2	Total DT Duration (Min)
Header in Row 3	AVG DT Duration (Min)
Header Rows Color	0000D9, Bold
Header Column Color	0000D9, Bold

Report - Table

The Report Table displays data in a structured, repetitious format which gives reporting users the ability to flexibly layout and organize tabular data in a variety of ways. The Reporting engine automatically creates new pages to fit all data within the table's boundaries while applying formatting preferences such as font, size, layout, and alignment. Combine this feature with powerful data manipulation and layout tools, you get an object that forms the basis of your reports.

Objects Details			

Report Design Component Palette Icon:



Table Properties

In the Property Inspector, use the Configure Table and Properties tabs to configure your table.

Configure Table Tab

Property Inspector

Configure Table

Properties

Data Key

Objects

Grouping

Objects

+

Rows

☐ Header

☒ Details

☐ Summary

Sorting

☒ Default

☐ Basic

☐ TopN

Options

☐ Page Break

Make TableGroup

Name	Description
Data Key	Unique identifier or placeholder that points to your data. Typically a data source is used for this property.
Grouping	Allows you to group the data by columns in the data source. Will always at least group by the entire data source.
Rows	Rows in a table. There are three types: • Header Row: A single row inserted at the start of the Detail Rows. Commonly used to display column headers. • Details Row: Represents the majority of the data on a table. • Summary Row: A single row inserted after all the Detail Rows. Commonly used to display totals or summary values.
Sorting	Orders data in the table. Sorting occurs after the data has already been retrieved in the data source. There are three options: • Default: Data sorted based on the order in which it is retrieved. When selected, the table will not sort the rows. • Basic: Allows a list of keys to be configured. The data is sorted in the order the keys are selected. • TopN: Uses a single key path, with a Count value that allows a limit to the number of rows that are processed.
Page Break	Creates a page break between each grouping.
Make Table Group	Turns the Table into a Table Group, where you can add 'child' and 'peer' tables.

Properties Tab

Property Inspector

Configure Table

Properties

▼ Table

Data Key

Objects

Column Spacing

10

Filter Key

Table Repeat Count

1

▼ Stroke and Fill

Fill

Fill Color

Opacity

1

Stroke Style

Hidden

Stroke

▼ Basic Properties

Roll

0

Scale X

1

Scale Y

1

URL

Visible

Width

400

Height

375

X

137.878

Y

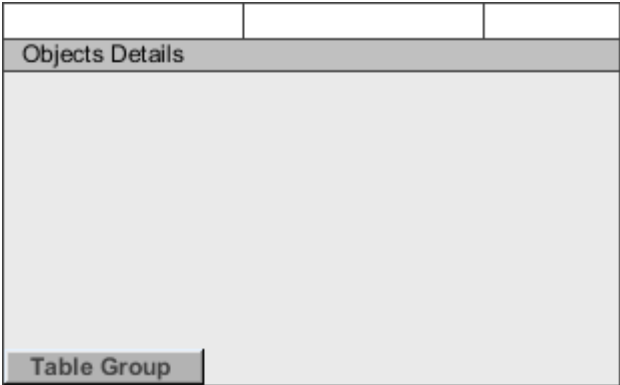
358.378

Name	Description
Data Key	Data Key associated with the table. Should be the data key of the data source that contains rows such as a query and should match the Data Key of the Configure Table Tab.
Table Repeat Count	Renamed the "Column Count" property to "Table Repeat Count". This is the number of times the table will repeat horizontally on a page before paginating. Set your table width to be the width of a single repeat, i.e., a Table Repeat Count of 3 means the width of the table should be 1/3 of the page width.
Column Spacing	The space between table columns.
Filter Key	A key or expression used to prune the underlying data source's rows down. If not blank, only rows for which this key expression evaluates to true will be included.
Starting Page Break	If true, the table will always start on a new page if part of a table group.
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke . Each Stroke has its own properties depending on the Stroke Style chosen.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.

Name	Description
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.

Configure TableGroup Properties

Table Groups are a collection of multiple tables represented by a single component. Examples of their use can be found on the [Table Groups](#) page.



Property Inspector

Configure TableGroup

Properties

Top Object

Child Object

Peer Object

+

🗑

↑

↓

←

→

✕

Key

Top Object

✔

Start on new page

☐

false

New page per row

☐

false

Name	Description
 Add Child/Peer Table	Adds a new table to the group. Allows for the creation of a Child or Peer table. - Child Table: A copy of this table will be inserted in between each row of the parent table - Peer Table: This table will appear after any preceding peers. Note: The terms "child" and "peer" are relative to the adjacent tables. More details can be found on the Table Groups page.
 Delete Table	Removes the selected table from the group.
 Move Up	Moves the selected table up in the hierarchy. Tables are always presented in a Top-to-Bottom order, so your initial table should always be at the top.
 Move Down	Moves the selected table down in the hierarchy.
 Move Left	Moves the selected table left in the hierarchy, potentially changing the peer/child relationship with any tables listed above the selected table.
 Move Right	Moves the selected table right in the hierarchy, potentially changing the peer/child relationship with any tables listed above the selected table.
 Destroy Table Group	Removes the table group. Caution: This will delete any configurations on all tables below the top-most table.
Start on new page	Adds an explicit page break between the selected table and the prior peer table.
New page per row	Adds an explicit page break for each row of the selected table.
Key	The Key of the selected table.

Row Properties

All **Table Rows** (Header, Details, and Summary) have the same properties, and all rows in the table use its own settings. You can click on each row to see the property values for that row. Here is a list of all the Table Row properties and their descriptions.

Factory	Capacity (Units)	Run Time (Minutes)	Units Produced
Factory Production Header			Standard ▼
@Facility@	@Capacity@	@Minutes@	@Produced@
Factory Production Details			Standard ▼
			Total Units Produced: @total.Produced@
Factory Production Summary			Standard ▼

Property Inspector

▼ Table Row

Structured Columns	☒	
Column Count		4
Move to Bottom	☐	
Print Empty Group	☒	
Sync Alternate Versi...	☐	
Sync Row Above	☐	
Version Key		

▼ Stroke and Fill

Fill	☐	
Fill Color		
Opacity		1
Stroke Style	Hidden	
Stroke		

▼ Pagination

Min. Remainder Hei...		72
Min. Split Height		72
Page Break		
Reprint When Wrap...	☒	
Stay with children		1

▼ Basic Properties

Roll		0
Scale X		1
Scale Y		1
URL		
Visible	☒	
Width		400
Height		18
X		0
Y		0

Name	Description
Structured Columns	If true, this row will be organized into columns, otherwise, the row will allow free form design.
Column Count	If this row is structured, this is the number of columns in the row.
Move to Bottom	If true, this row will be moved to the bottom of the table.
Print Empty Group	If true, row will print even if it has no children. Only applicable for header or summary rows.
Sync Alternate Versions	If checked, the columns widths of this row will be synchronized with alternate row versions.
Sync Row Above	If checked, the column widths of this row and the row above it will be synchronized as long as they have the same number of fields.
Version Key	Data Key to drive which version of the table row to display.
Fill	If true, the shape will fill its space with color.
Fill Color	If Fill is selected, the color that will fill the shape.
Opacity	How opaque the fill color is, between 0 and 1.
Stroke Style	What style of stroke or border to use: Hidden, Shape Outline, Border, or Double. To learn more about stroke styles, refer to Stroke and Fill Properties .
Stroke	Details for the chosen stroke .. Each Stroke has its own properties depending on the Stroke Style chosen.
Min. Remainder Height	Minimum distance in points between the bottom of the row that will split onto a new page. The default value of 72 points is equivalent to 1 inch. Note: This and Min. Split Height are how the table determines when to add another row on to a page, or split the row to a new page. If using rows with a large height (such as those that contain another component, like a chart) you may find that the row is "split" horizontally across multiple

Name	Description
	pages. Setting this and Min. Split Height to a larger number will help prevent these splits.
Min. Split Height	Minimum distance in points between the top of the row that will split onto a new page. The default value of 72 points is equivalent to 1 inch. Typically set to the same number as Min. Remainder Height. See the information box on the Min. Remainder Height property above.
Page Break	Data Key or expressions used to determine whether row should force a page break.
Reprint When Wrapped	If true, this row will be reprinted on a new page when its children cross a page boundary.
Stay with Children	The number of children this row must be accompanied by, in the case where some children run off the bottom of a page.
Roll	Number of degrees this shape is rotated clockwise.
Scale X	Amount to scale the width of this shape. 1 is scale to 100%.
Scale Y	Amount to scale the height of this shape. 1 is scale to 100%.
URL	A link to attach to this reporting component. Will be a clickable hyperlink if the report is exported as a PDF. You can use the values below to link to internal pages. • Page:Next - Navigates to the next page. • Page:Back - Navigates to the previous page. • Page:Number - Replace "Number" with a numeral. Navigates to the specified page.
Visible	If true, the shape will be visible.
Width	Width of this shape in pixels.
Height	Height of this shape in pixels.

Name	Description
X	Horizontal distance in pixels between the left edge of this shape and the left edge of the page.
Y	Vertical distance in pixels between the upper edge of this shape and the top edge of the page.

Cell Properties

The cells on the Table are simply **Text Shape** components embedded directly in a row. They can be multi-selected, with shift or alt, to change the properties of multiple cells at once. For more information, see the **Text Shape** page here in the Appendix.

Reserved Column Names

Besides the built-in keys for the Reporting Module's Table component, there are several reserved names that should not be used as keys for column headers. These keys are broken down into categories in the following table:

Key Type	Key
Heritage/Top Level	Running
Heritage/Top Level	Remaining
Heritage/Top Level	Up
Aggregate	total
Aggregate	average
Aggregate	count
Aggregate	countDeep
Aggregate	max
Aggregate	min

Examples

The Table component has a lot of functions and features. Examples of how you can use these functions and features are included in each of the sections below.

- [Table Rows](#)
- [Table Row Versions](#)
- [Charts Inside of Tables](#)
- [Grouping Data Inside of Tables](#)
- [Table Groups](#)