



**Genero**®  
report writer

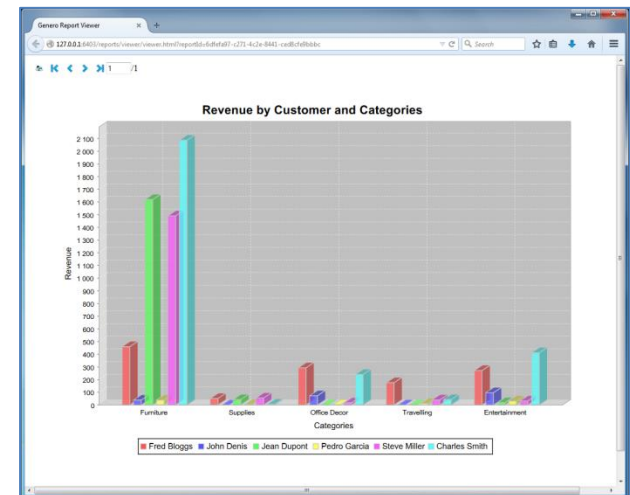
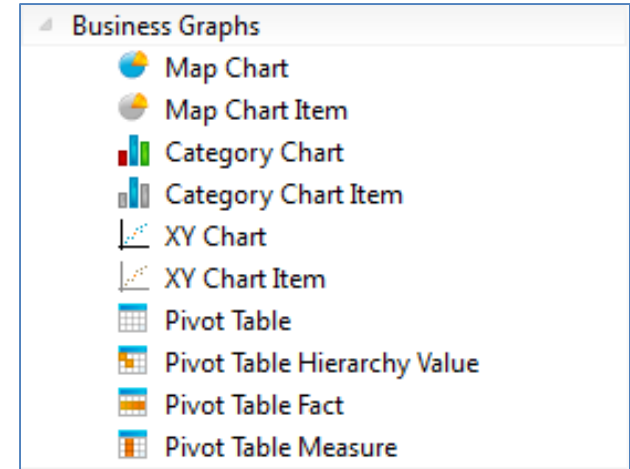
# **WORKING WITH CHARTS, GRAPHS & PIVOT TABLES**

Using Genero Report Writer  
GRS 3.00

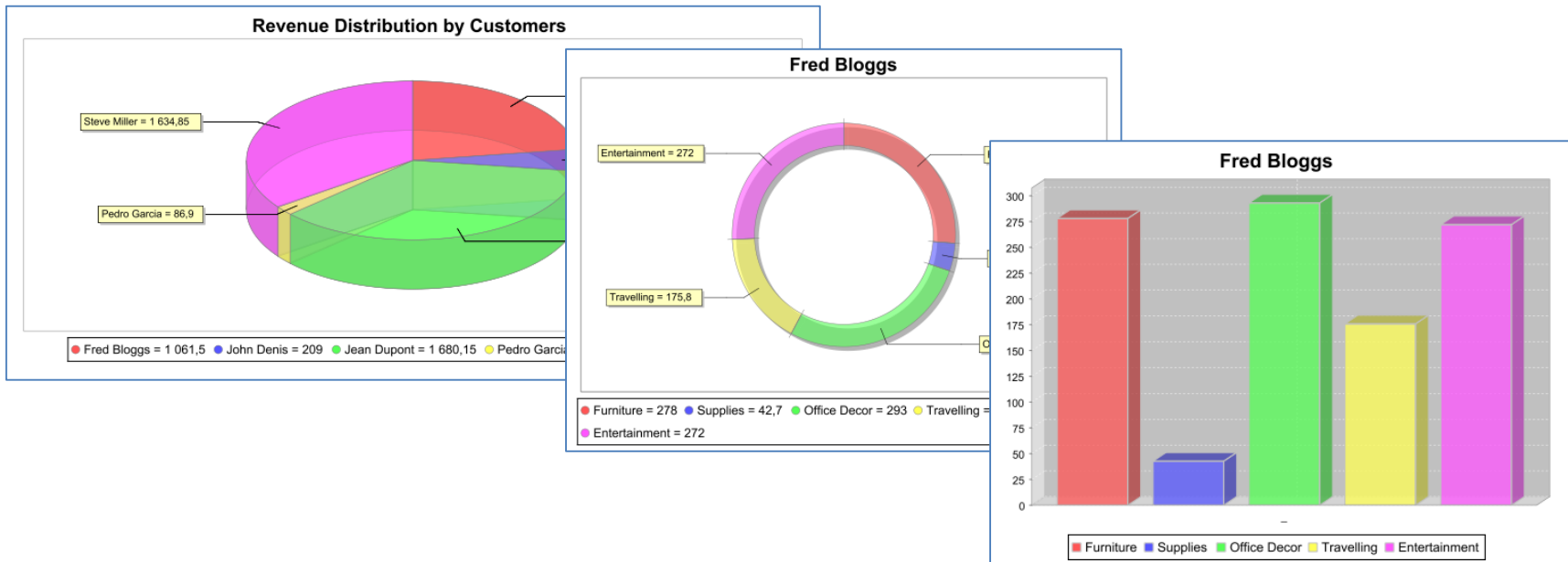
After this instruction, you will be able to:

- Differentiate between Map, Category, and XY charts
- Use each chart type effectively in a report

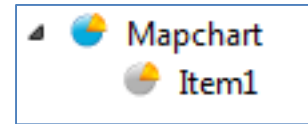
- Map Chart
  - 1 key value, 1 data value
  - Ex: Product code, quantity sold
- Category Chart
  - 2 key values, 1 data value
  - Ex: Country code & product code, quantity sold
- XY Chart
  - 2 data values
  - Ex: Quantity sold, discount percentage




- 1 key value (string)
  - What do you want to summarize by?
- 1 data value (numeric)
  - What do you want to summarize?



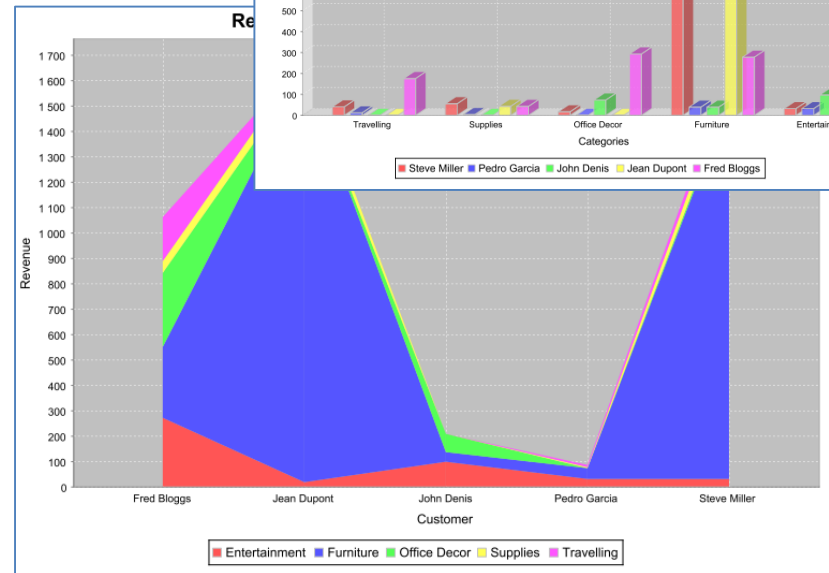
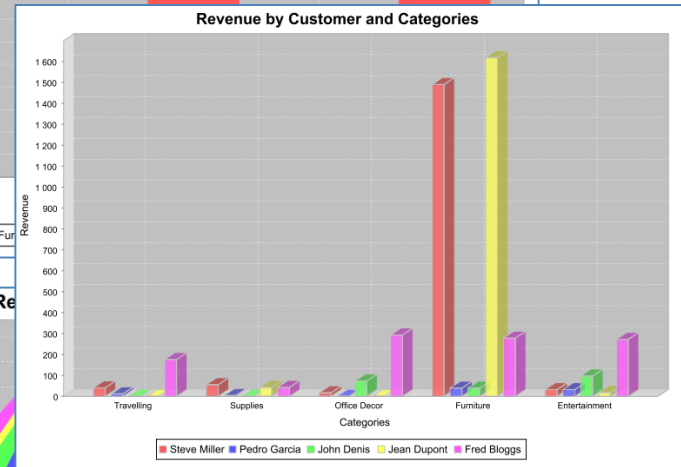
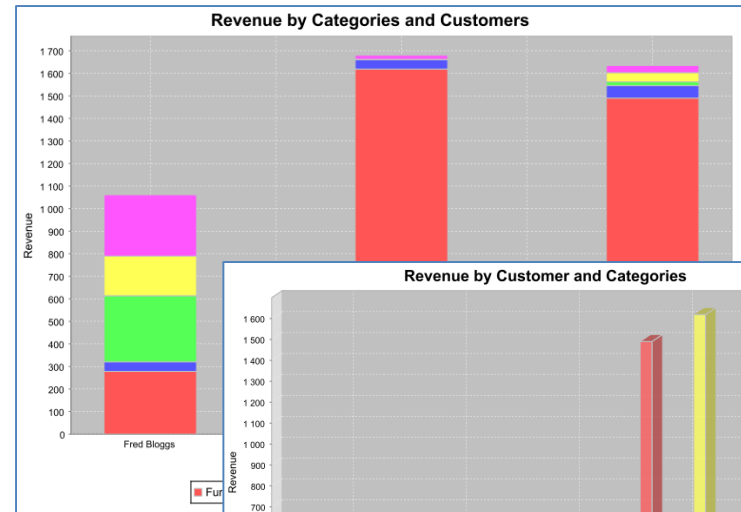
- Map Chart object
  - Title: Chart title on report
  - Keys Title
  - Values Title
  - Draw As: Type of chart
  - Sort by Key, Value or Input Order
  - Sort Ascending order
- Map Chart Item
  - Key: value to summarize by
  - Value: value to sum



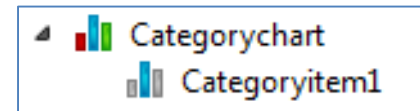
Value	
Title	Revenue Distribution by Categor...
Chart	
Keys Title	Insert keys title here
Values Title	Insert values title here
Draw As	Pie 
Sort By	Pie
Sort Ascending	Pie3D
Draw Legend	Ring
Draw Labels	Bar
Padding	Bar3D
Border	Table
Margin	SortedTable
	AggregatedTable

Object	
Name	Item2
Items	
Key	{orderline.category.catname.tri...}
Value	{orderline.lineitem.unitprice}
Color	

- 2 key values
  - Key value: What do you want to summarize by?
  - Category value: Within each key value, what do you want to summarize by?
- 1 data value
  - Numeric value to sum



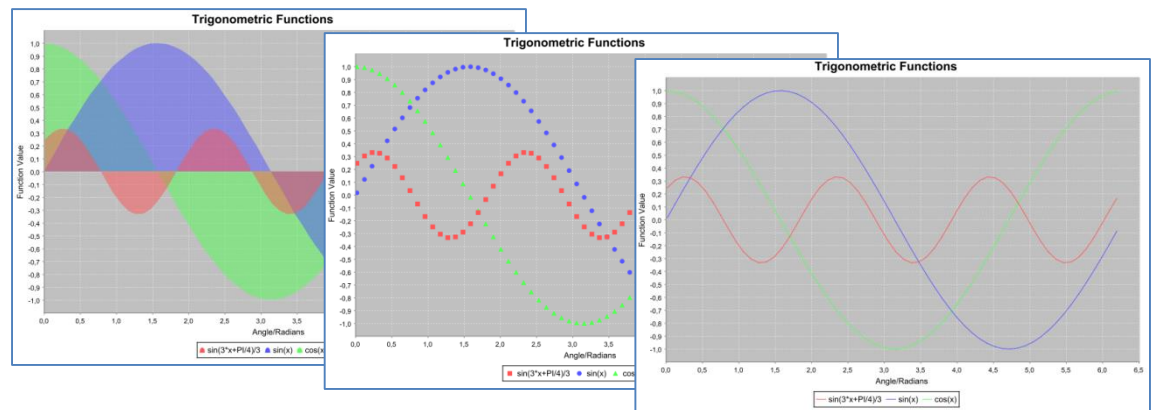
- Category Chart
  - Title
  - Keys Title
  - Values Title
  - Categories Title
  - Draw As
  - Sort By Key, Value or Input Order
  - Sort Ascending order
- Category Chart Item
  - Key
  - Value
  - Category Key



Value	
Title	Revenue by Customer and Cate...
Chart	
Keys Title	Categories
Values Title	Revenue
Categories Title	Insert categories title here
Draw As	Bar
Sort By	Bar
Sort Ascending	Bar3D
Padding	Area
Border	StackedBar
Margin	StackedArea
	Line
	Line3D
	Waterfall
	Table
	SortedTable

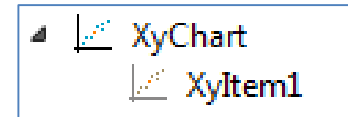
Object	
Name	Categoryitem1
Items	
Key	{orderline.category.catname.tri...}
Value	{orderline.lineitem.unitprice}
Category Key	{orderline.orders.shipfirstname.t...}




- 2 numeric values determine where to plot on X-axis and Y-axis
- Series title determines
  - Color of chart item set by series title
  - Name given in legend for the color
  - Allows "association" with other data points on same chart





- XY Chart
  - Title, xAxisTitle, yAxisTitle
  - Draw As
- XY Chart Item
  - Series Title: Determines color and legend entry for data point
  - x: What to plot on X-Axis
  - y: What to plot on Y-Axis



Value	
Title	Trigonometric Functions
Chart	
xAxisTitle	Angle/Radians
yAxisTitle	Function Value
Draw As	Area   
Padding	Polar Scatter
Border	Area
Margin	Line Step StepArea TimeSeries Table SortedTable

Object	
Name	XyItem1
Items	
Series Title	{item.series}
x	{item.x}
y	{item.y}

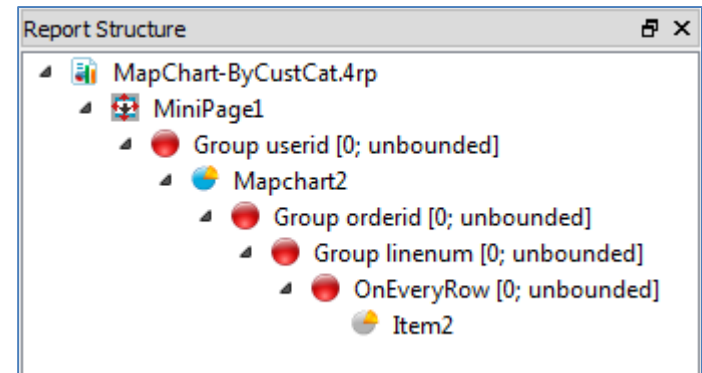
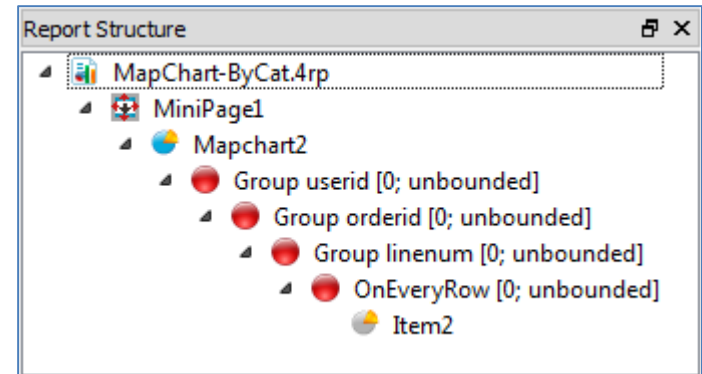
- Report Structure

- Chart

- Number of parent objects is the number of graphs you'll get

- Chart Item

- Number of chart items determined by number of unique keys
    - Where duplicate keys, values will be accumulated
    - Item object should be in lower of the key and value groups





- Exercise 1
  - Open the **original ‘Sales’ project**
  - Create a new report design using a Map Chart
  - Fix up triggers
  - Use ‘Category’ as key and ‘Price’ as value
  - Modify the ‘Sales.java’ source to generate a PDF report and run it
  - Modify the ‘Sales.java’ source to generate an Excel output and run it; comment
- Exercise 2
  - Open the **‘OrderReportJava’ demo project**
  - Check other graphs and charts in the different demo report designs
  - Open the ‘CatChart-ByCatCust.4rp’ demo report design and run it
  - Swap the property values of ‘Key’ and ‘Category Key’ in the chart item (‘CategoryItem1’)
  - Run the report again and compare to previous result