ODS Graphics Designer: The Best Friend You Never Knew You Had

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November 20, 2015

Health Users' Group

AGENDA

- Introduction
- What is ODS Graphics Designer?
- Where can I find it?
- Overview of interface and graphs available
- Overview of elements that can be added to a graph
- Basic Example:
  - Scatterplot
- Advanced Example:
  - Survival Analysis
- Other features within ODS Graphics Designer

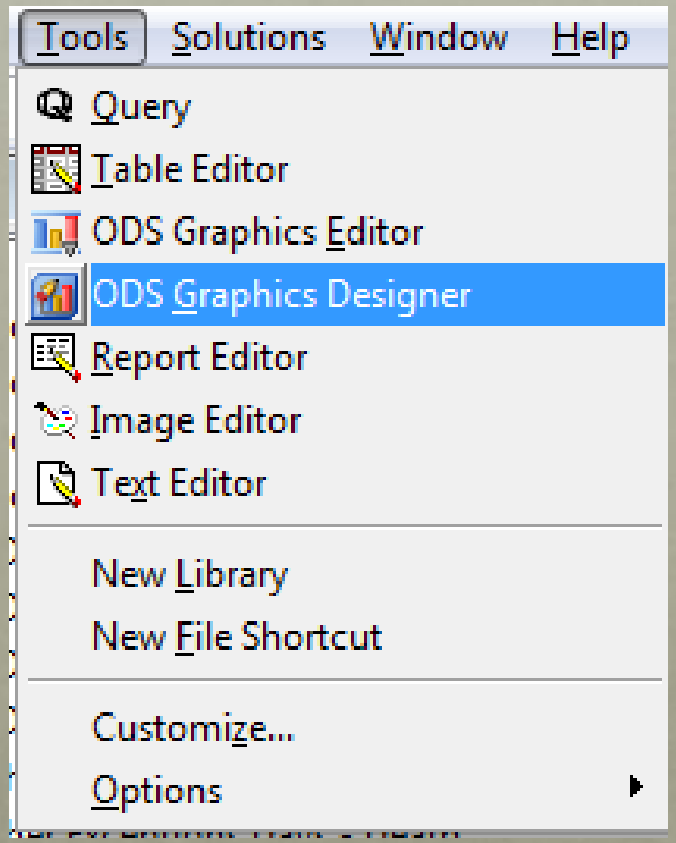
WHAT IS ODS GRAPHICS DESIGNER (OGD)?

- From the ODS Graphics Designer (3.4) Documentation:
  - *The SAS ODS Graphics Designer is an interactive graphical application that you can use to create and design custom graphs. The designer creates graphs that are based on the Graph Template Language (GTL), the same system that is used by SAS analytical procedures and SAS ODS Graphics procedures. The ODS Graphics Designer provides a graphical user interface for designing graphs easily without having to know the details of templates and the GTL…Using point-and-click interaction, you can create simple or complex graphical views of data for analysis. The ODS Graphics Designer enables you to design sophisticated graphs by using a wide array of plot types…*[1]
- What is ODS Graphics Designer to me?
  - Highly flexible and extremely versatile SAS interface that allows me to perform everything from "quick and dirty" data validation to highly complex presentation-worthy analyses
  - I've been using SAS for about 4 years, and OGD was the first module I felt truly comfortable with

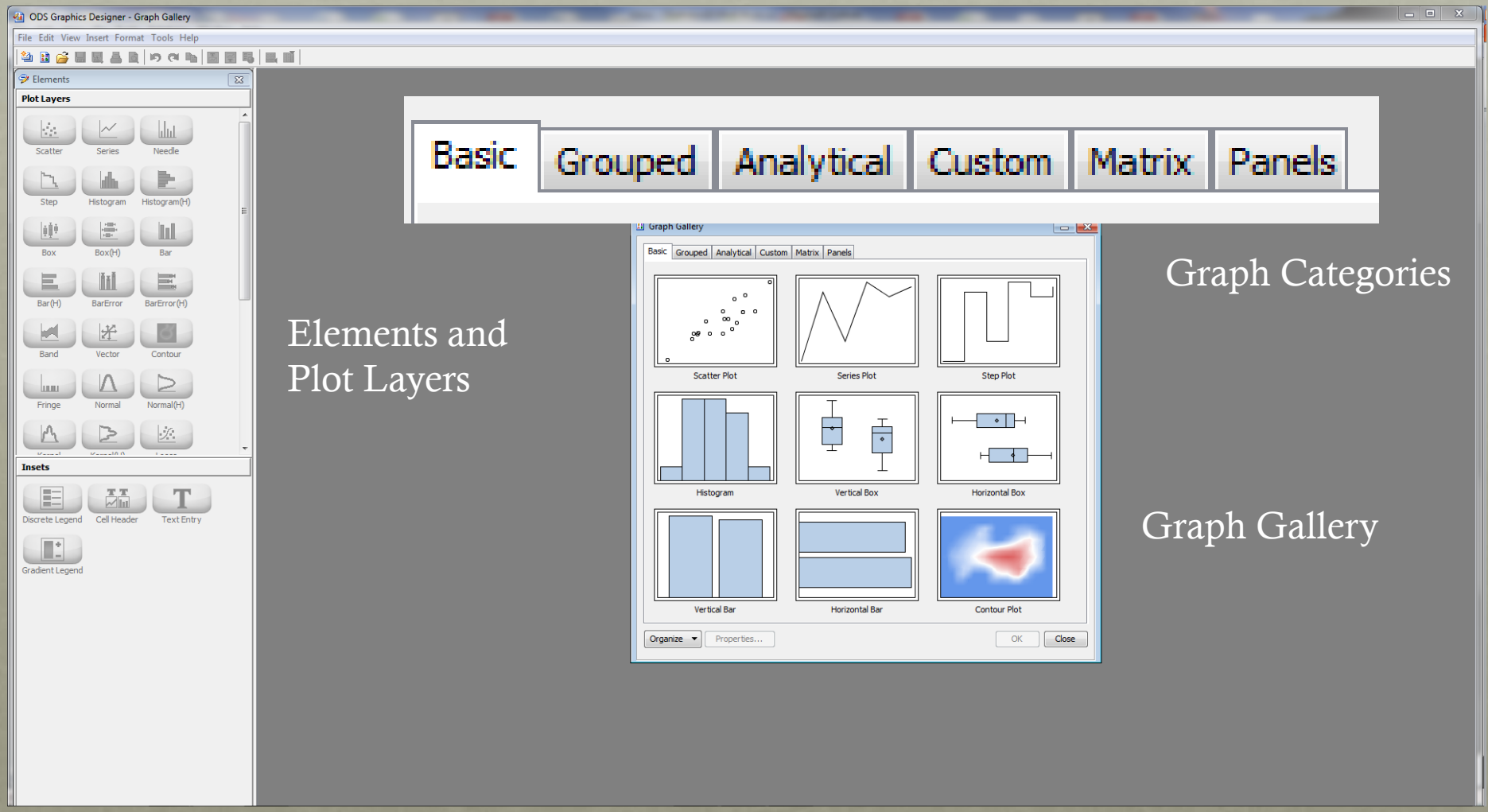
[1] – From ODS Graphic Designer User's Guide 3.4 http://support.sas.com/documentation/cdl/en/grstatdesignug/66518/PDF/default/grstatdesignug.pdf

WHERE CAN I FIND ODS GRAPHICS DESIGNER?

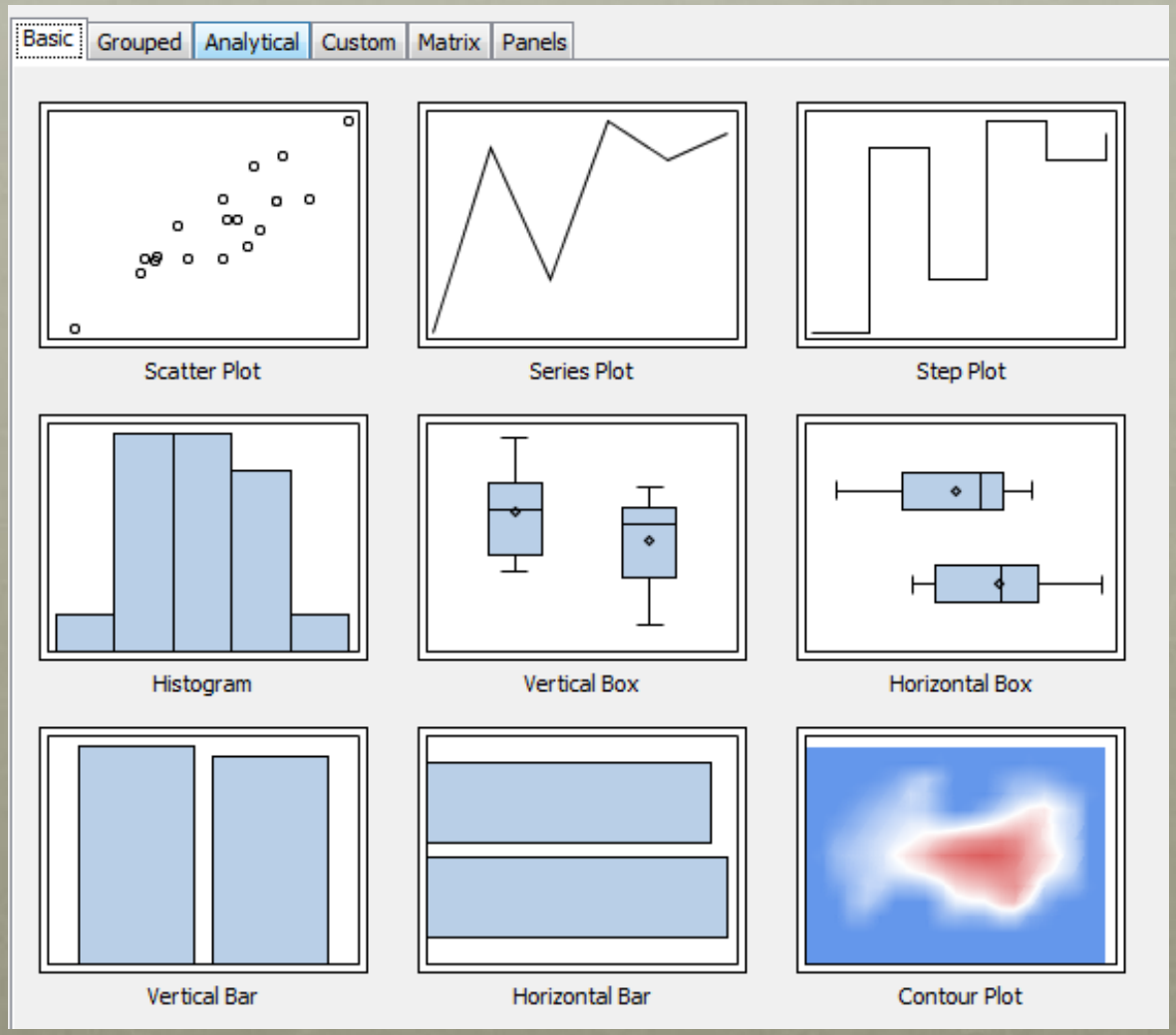
- In order to use OGD, SAS/Graph is required
- Under TOOLS, click ODS Graphics Designer; alternatively, you can type *%sgdesign* in the SAS window and execute.



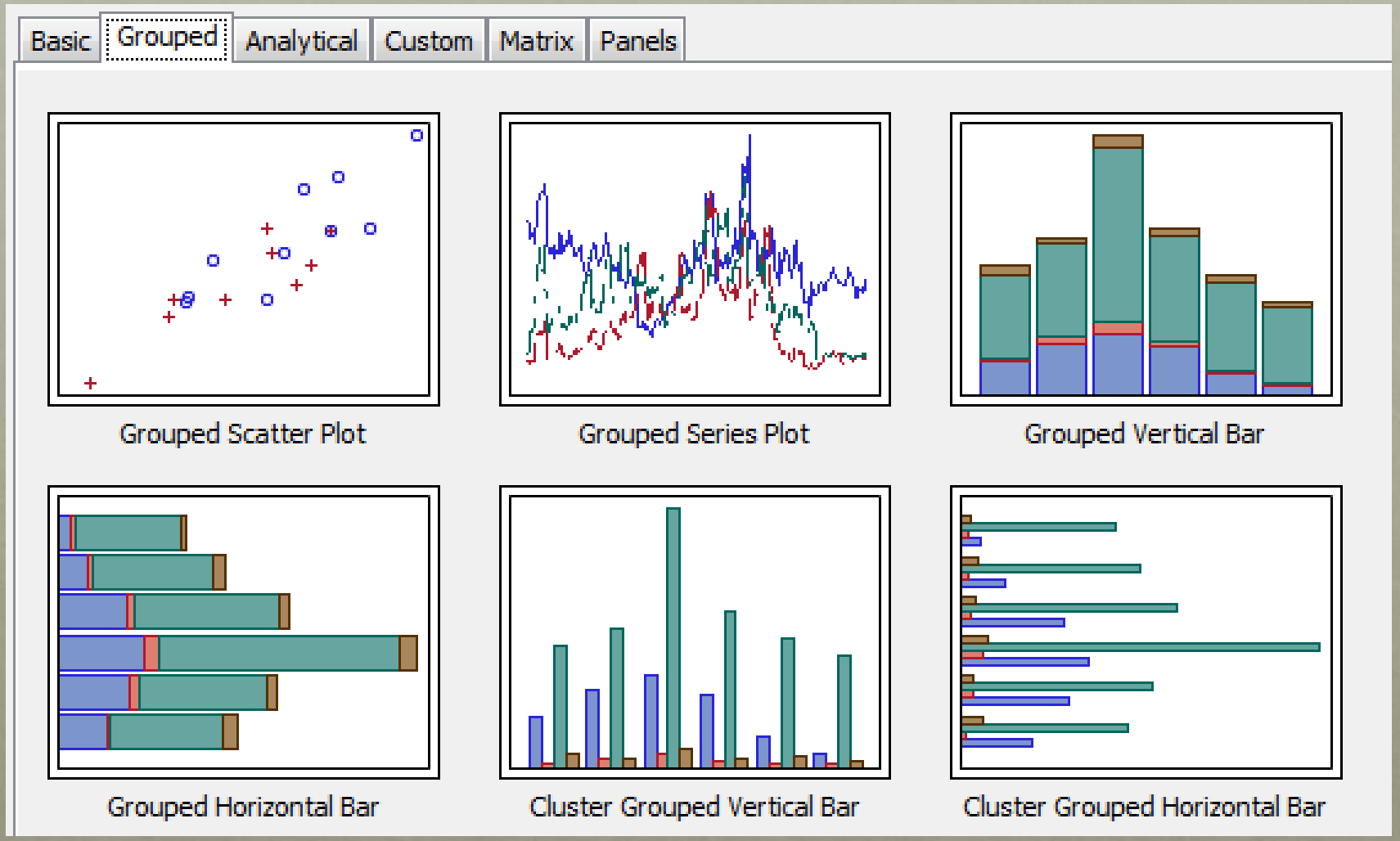
OVERVIEW OF INTERFACE AND GRAPHS AVAILABLE



THE GRAPH GALLERY – BASIC PLOTS



THE GRAPH GALLERY – GROUPED PLOTS



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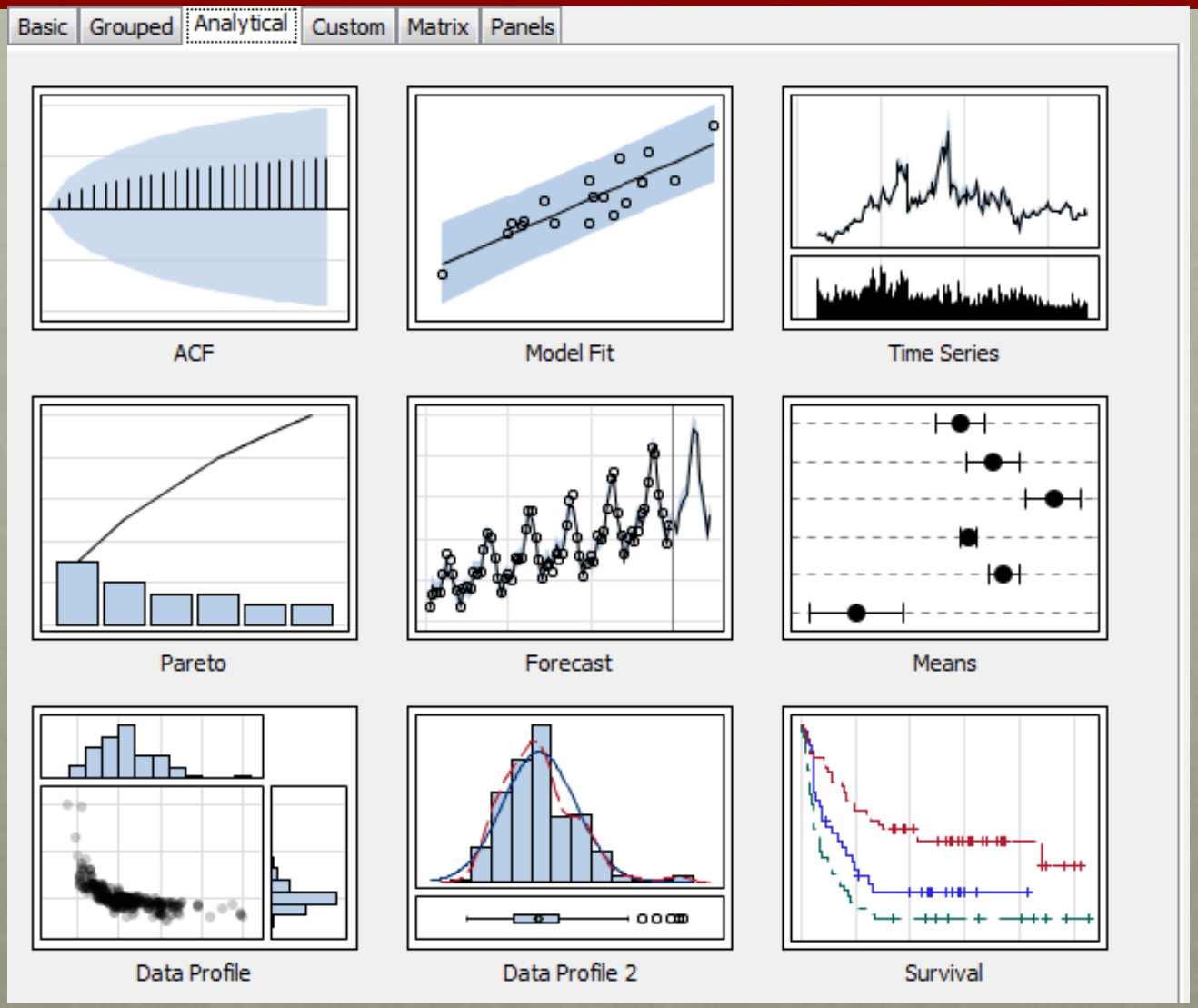

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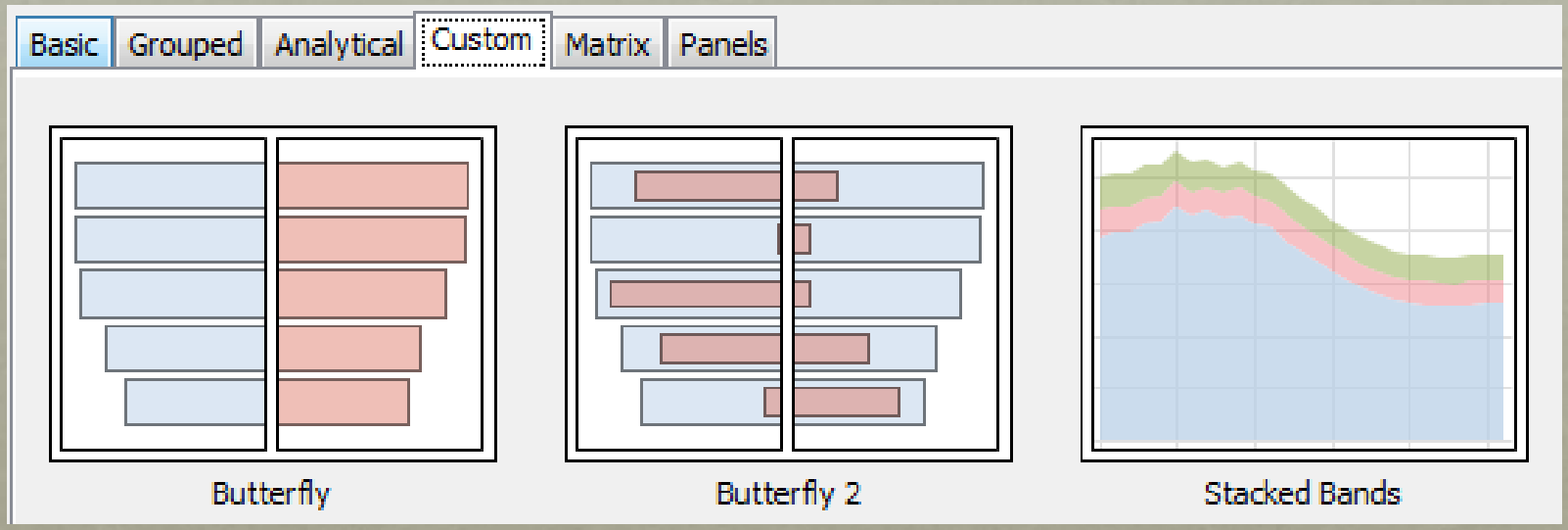

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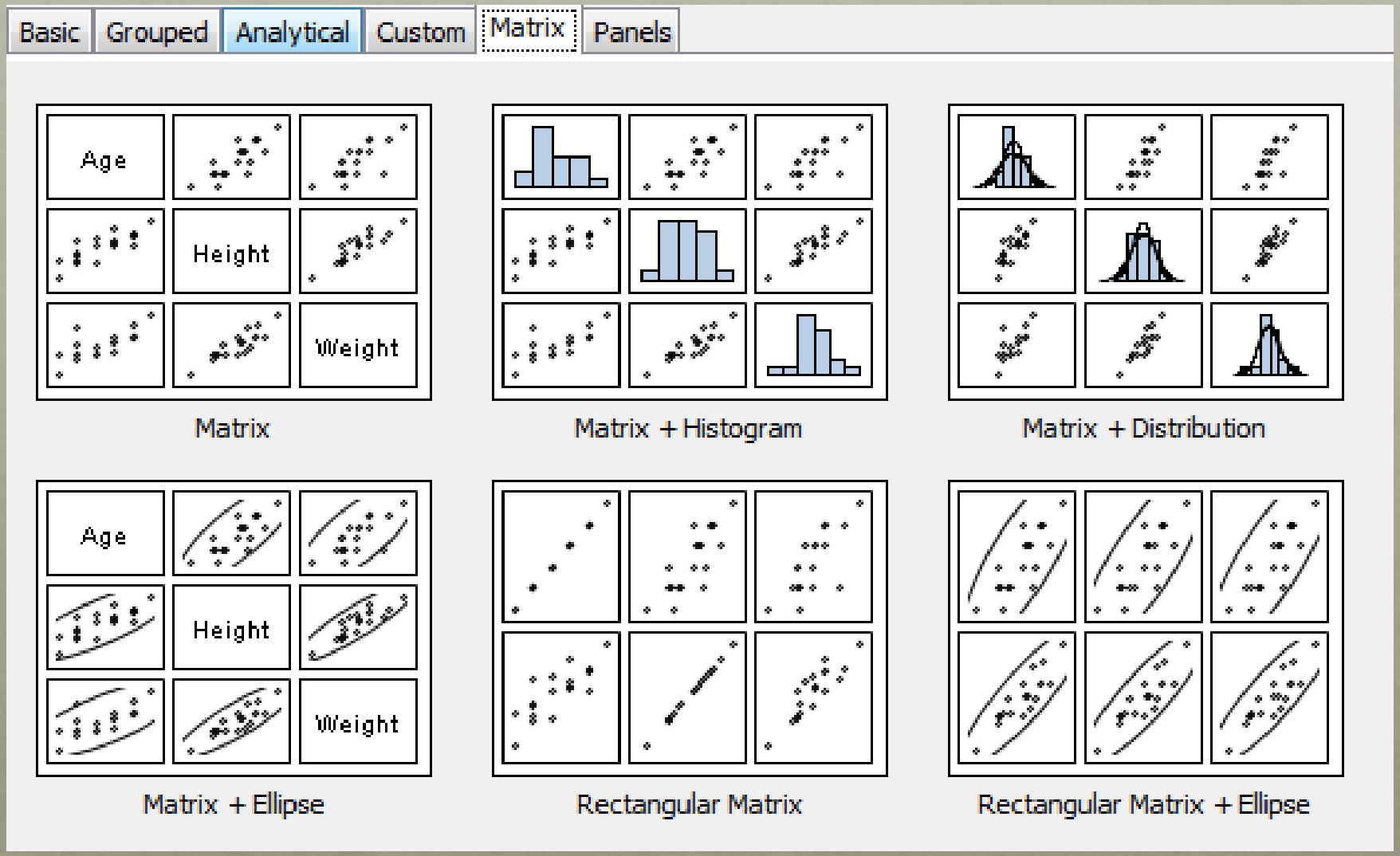

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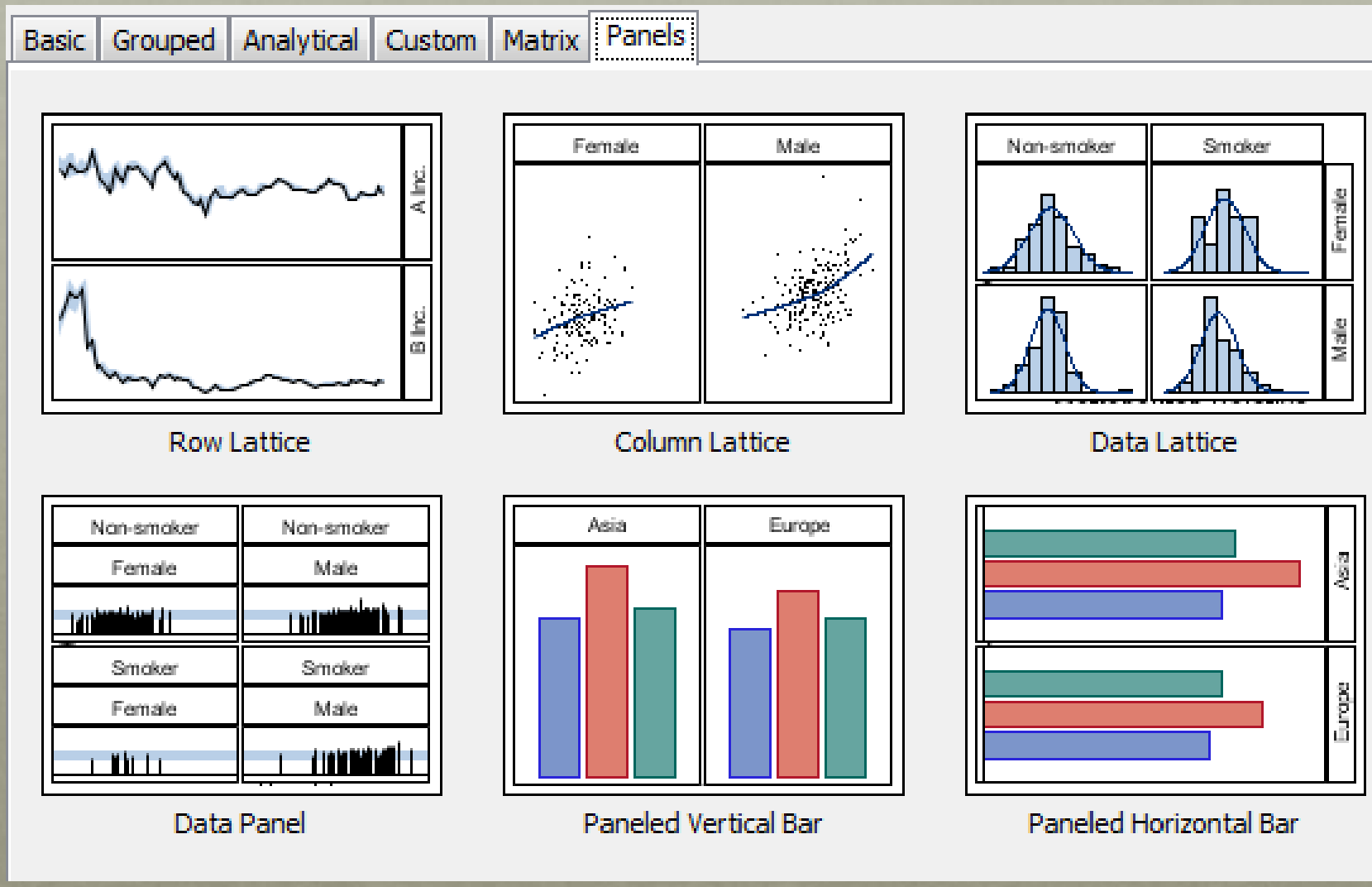
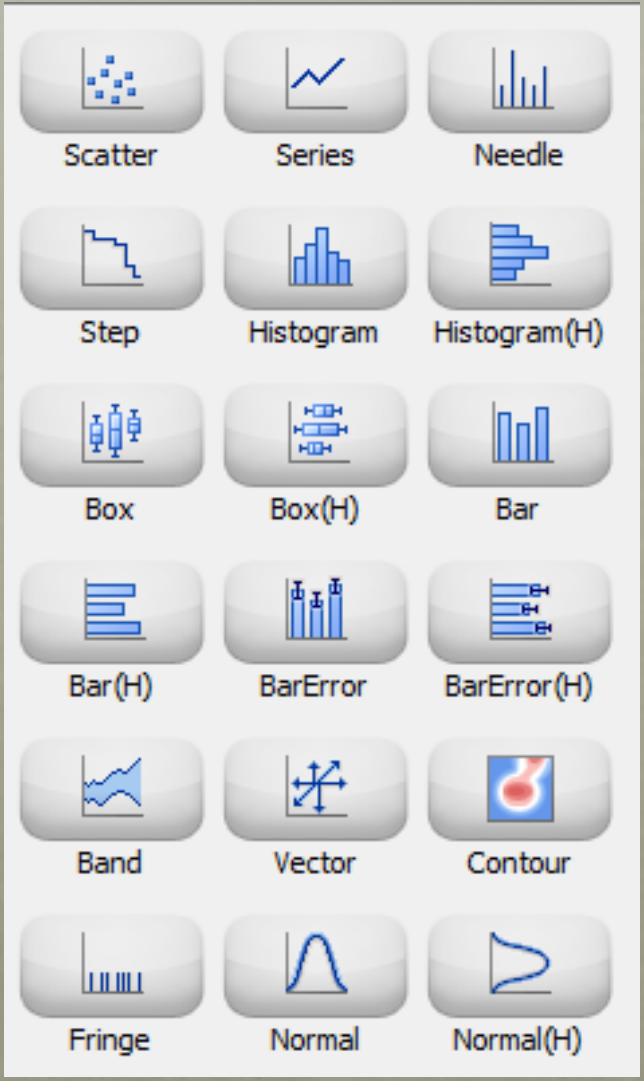
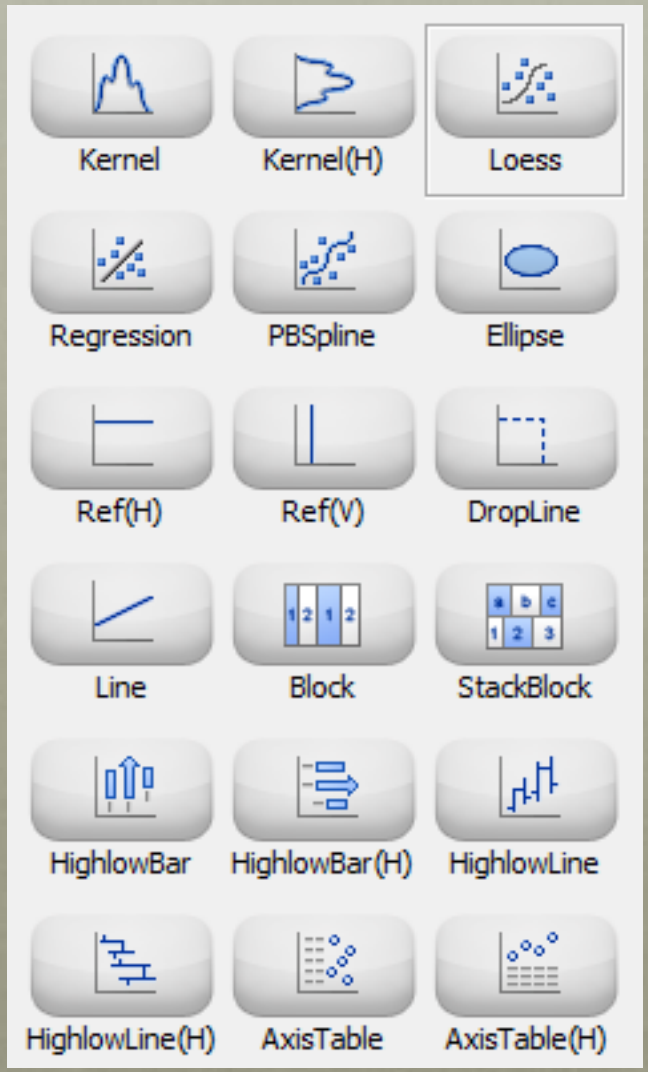
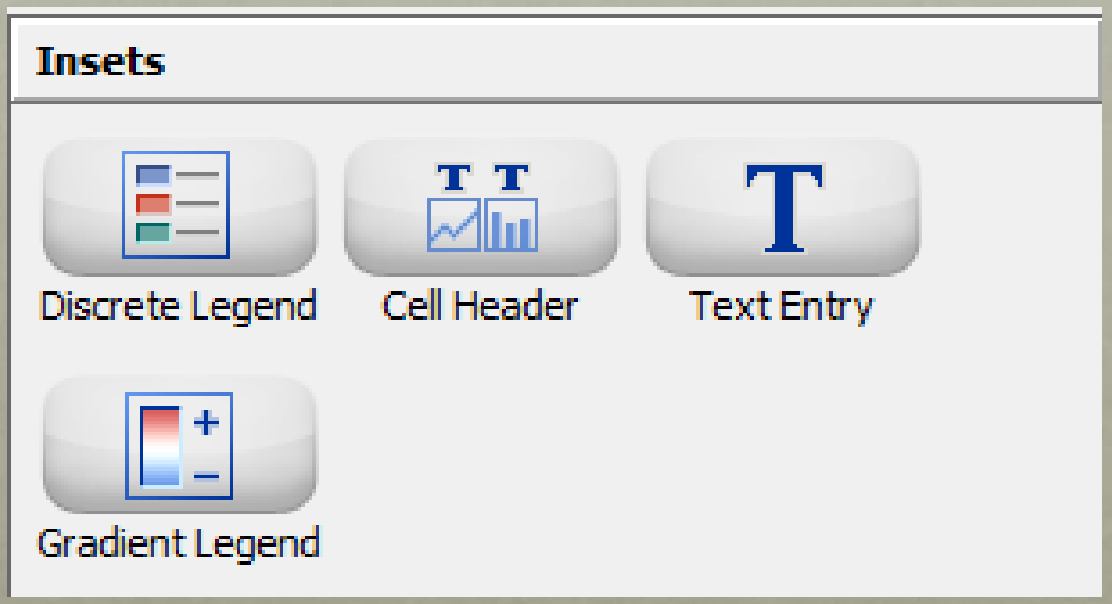


Overview of elements that can be added

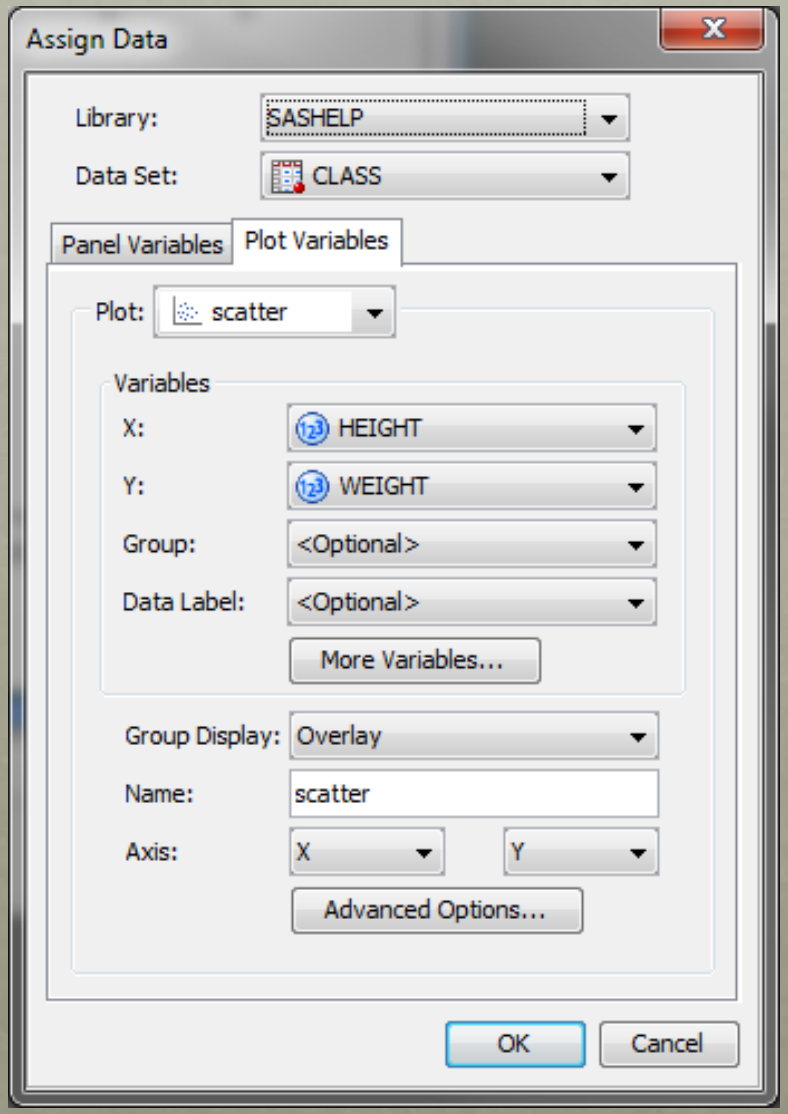




ELEMENTS THAT CAN BE ADDED



BASIC EXAMPLE - SCATTERPLOT



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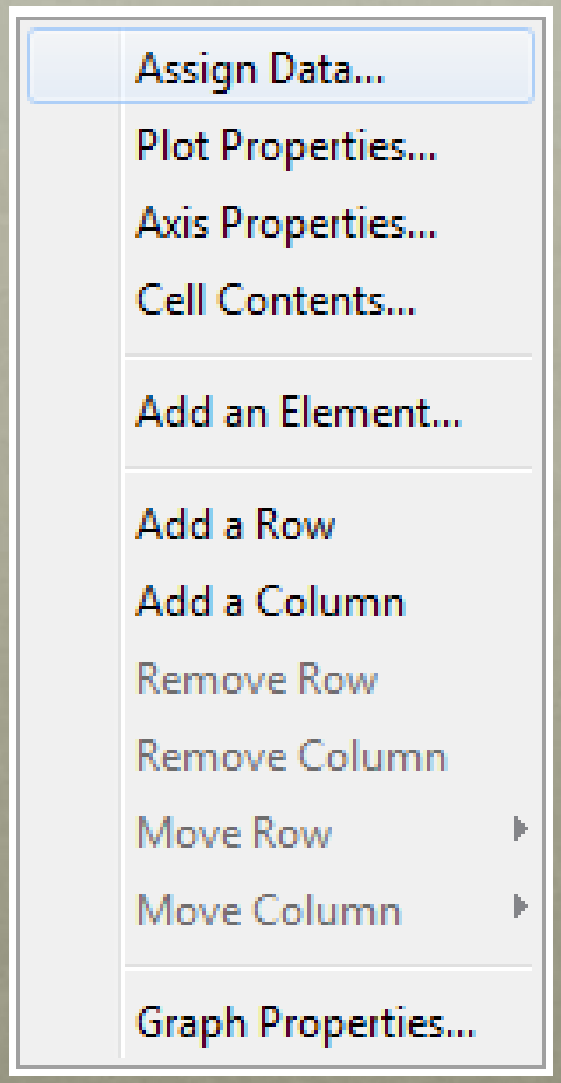

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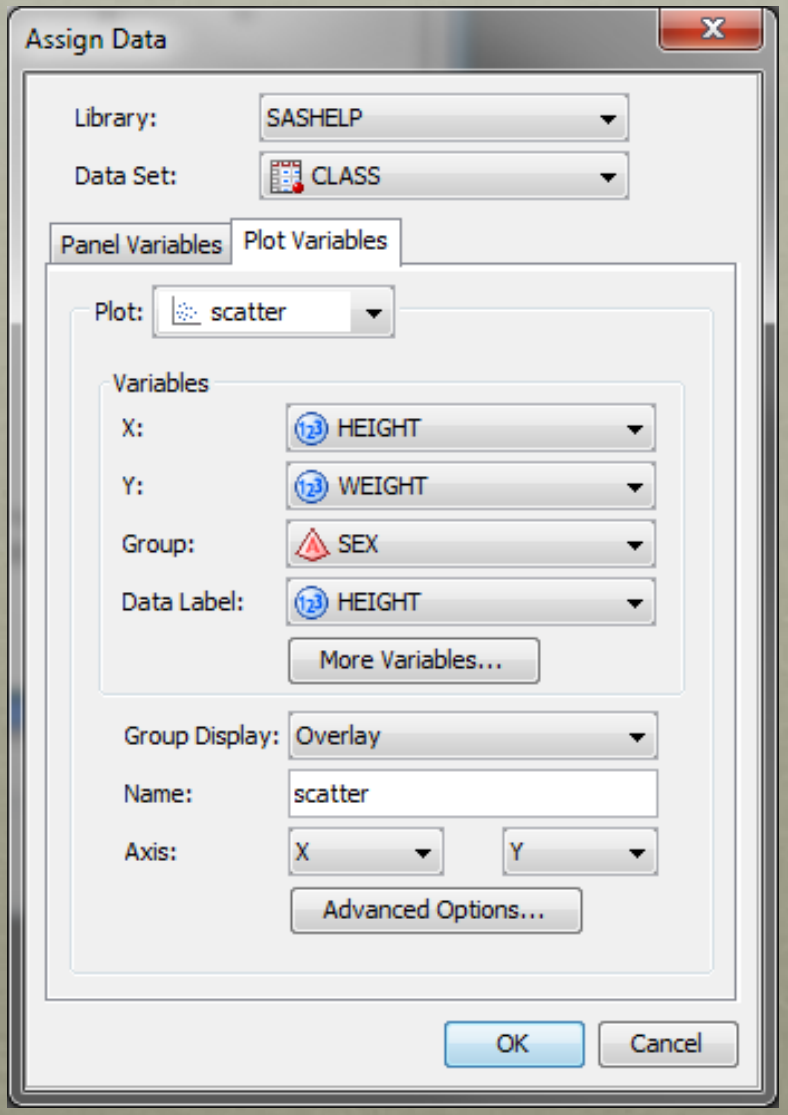

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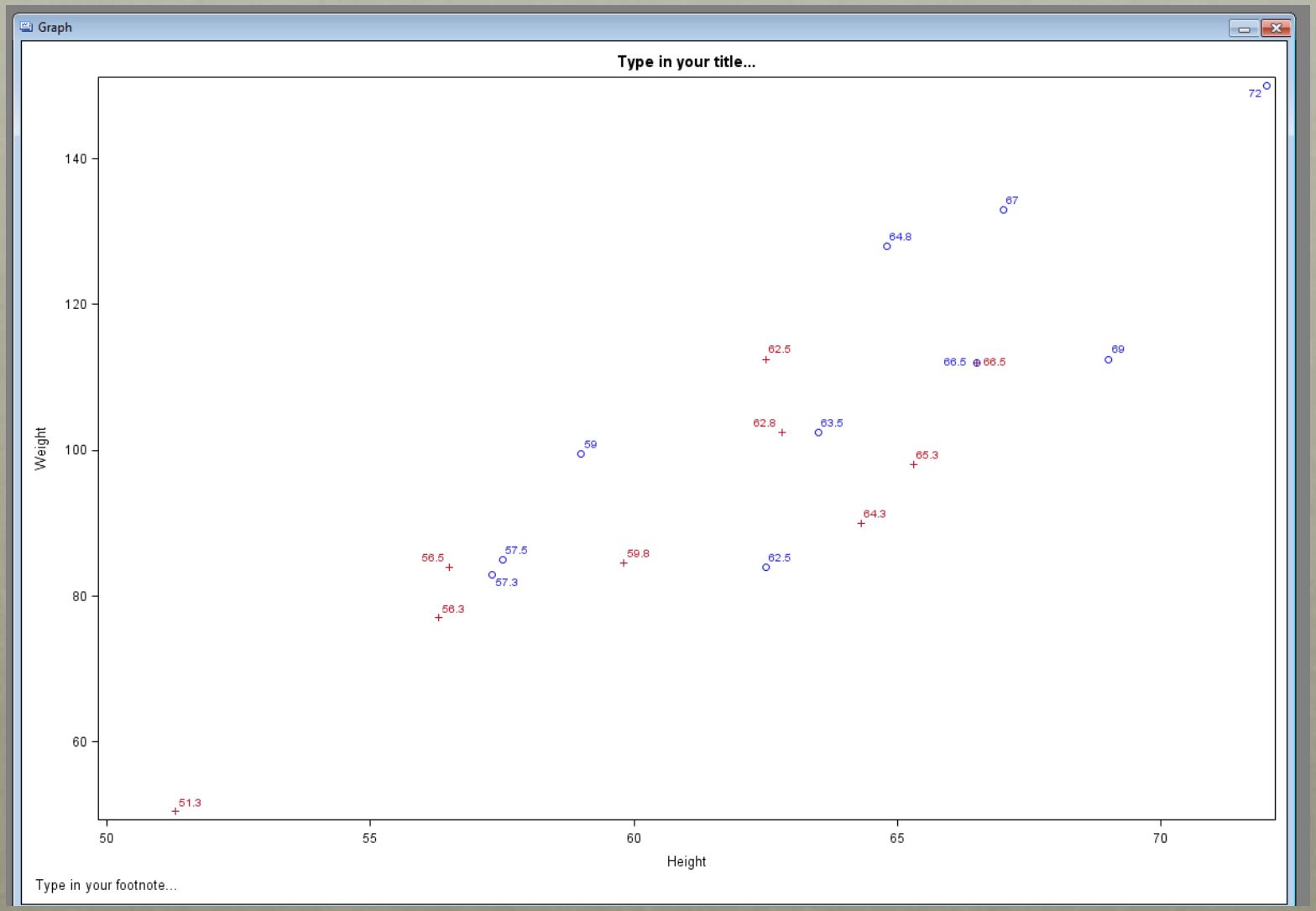
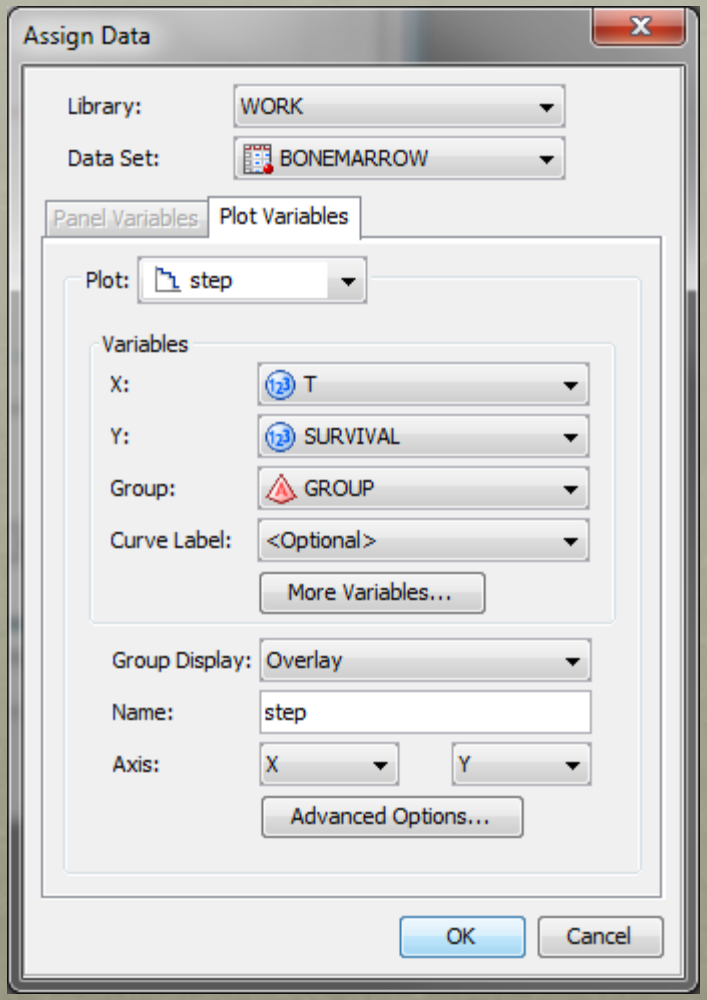


ADVANCED EXAMPLE – SURVIVAL ANALYSIS



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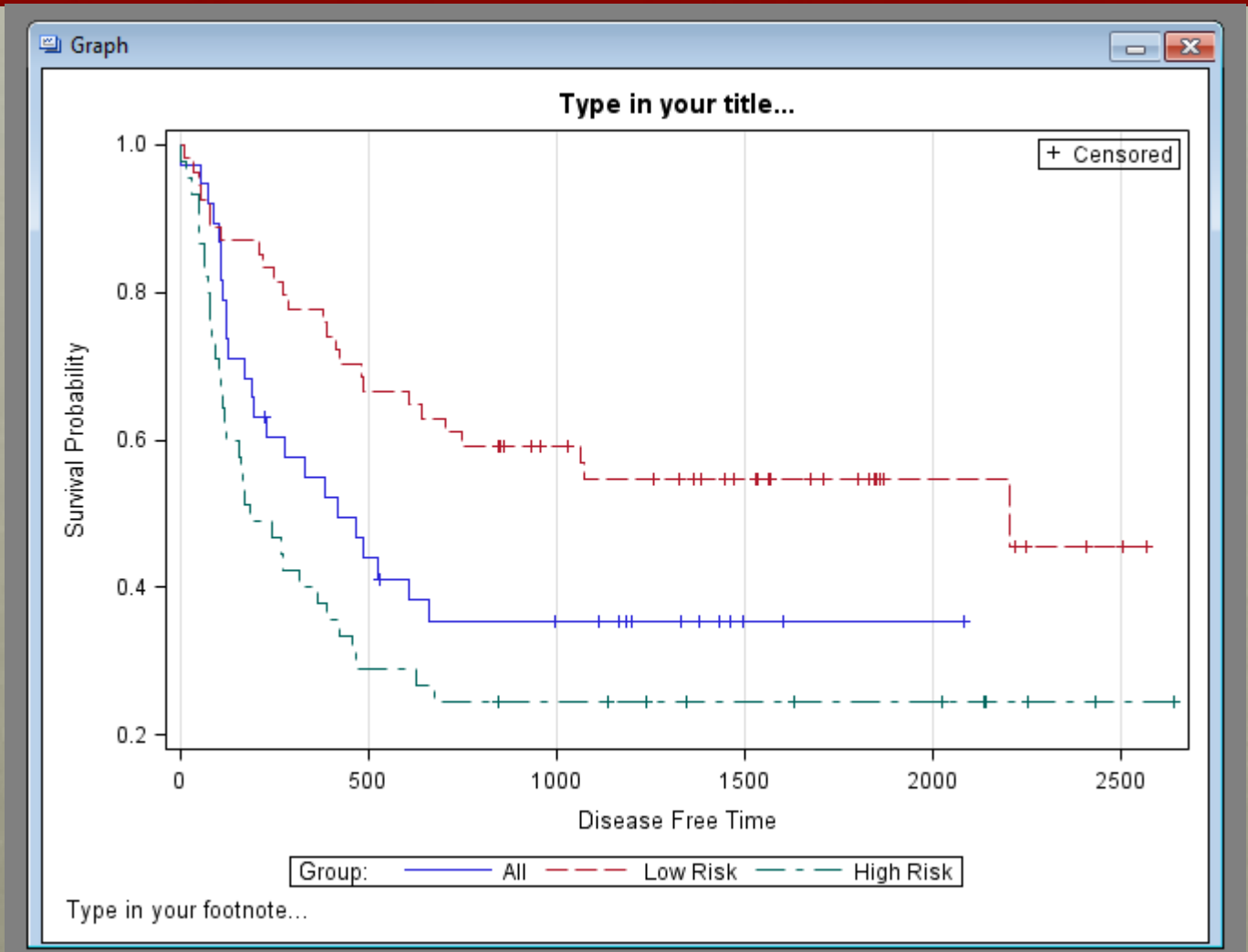
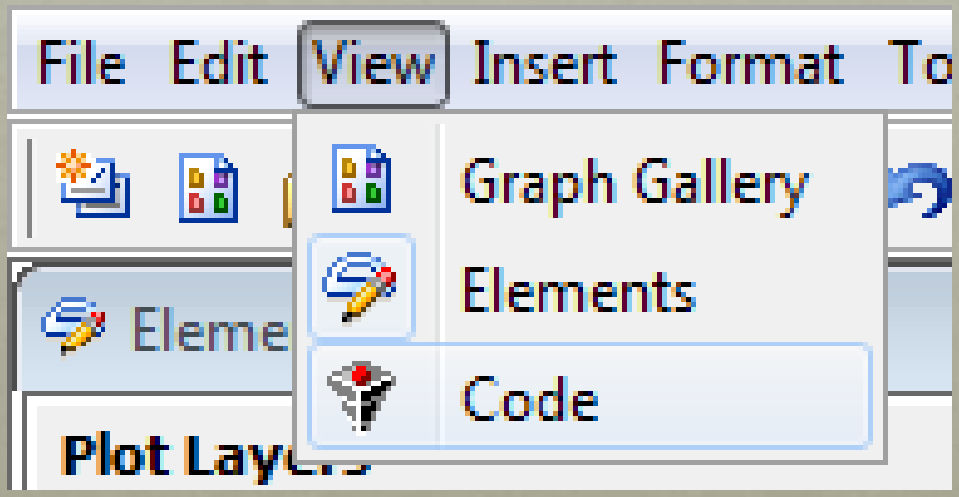


OTHER FEATURES WITHIN ODS GRAPHICS DESIGNER - CODE!



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  entryfootnote halign=left 'Type in your footnote...';
  layout lattice / rowdatarange=data columndatarange=data rowgutter=10 columngutter=10;
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      scatterplot x=_T5 y=_CENSORED3 / name='scatter2' legendlabel='Censored' markerattrs=(symbol=PLUS );
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endgraph;
end;
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run;
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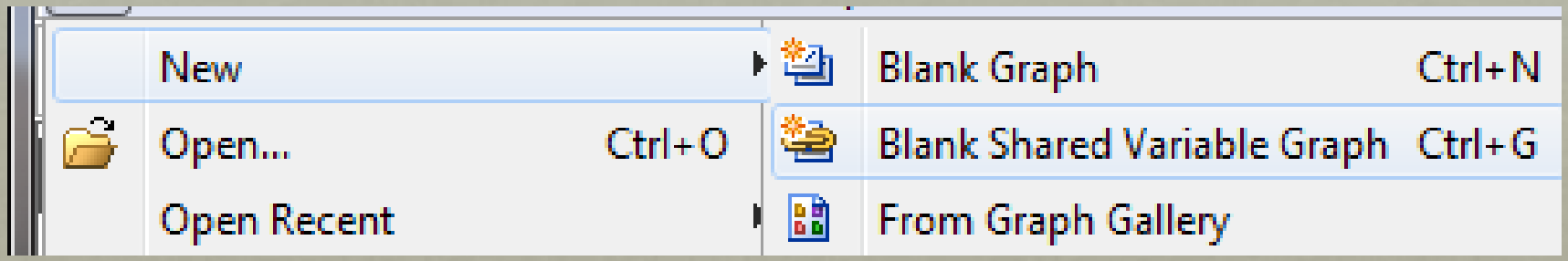
OTHER FEATURES – SHARED VARIABLE GRAPHS



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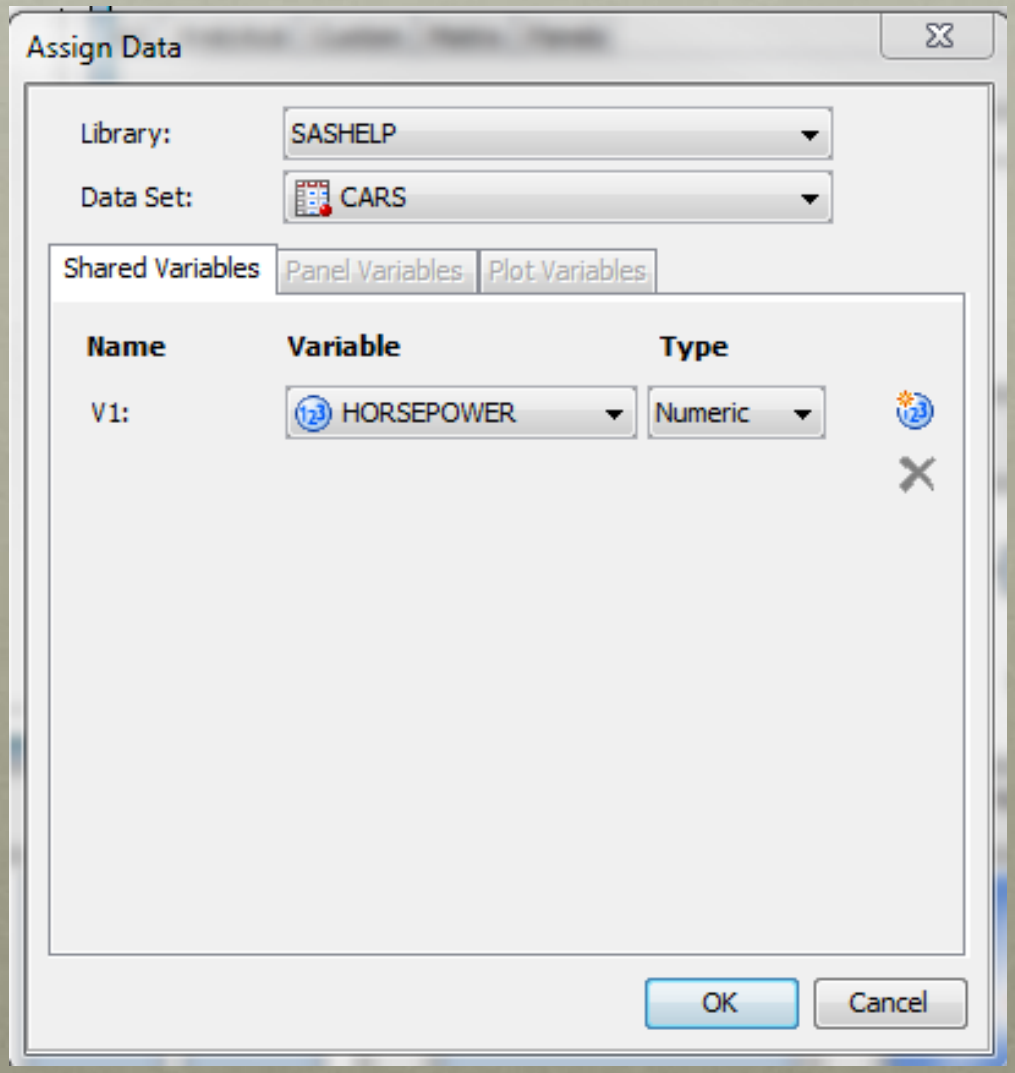
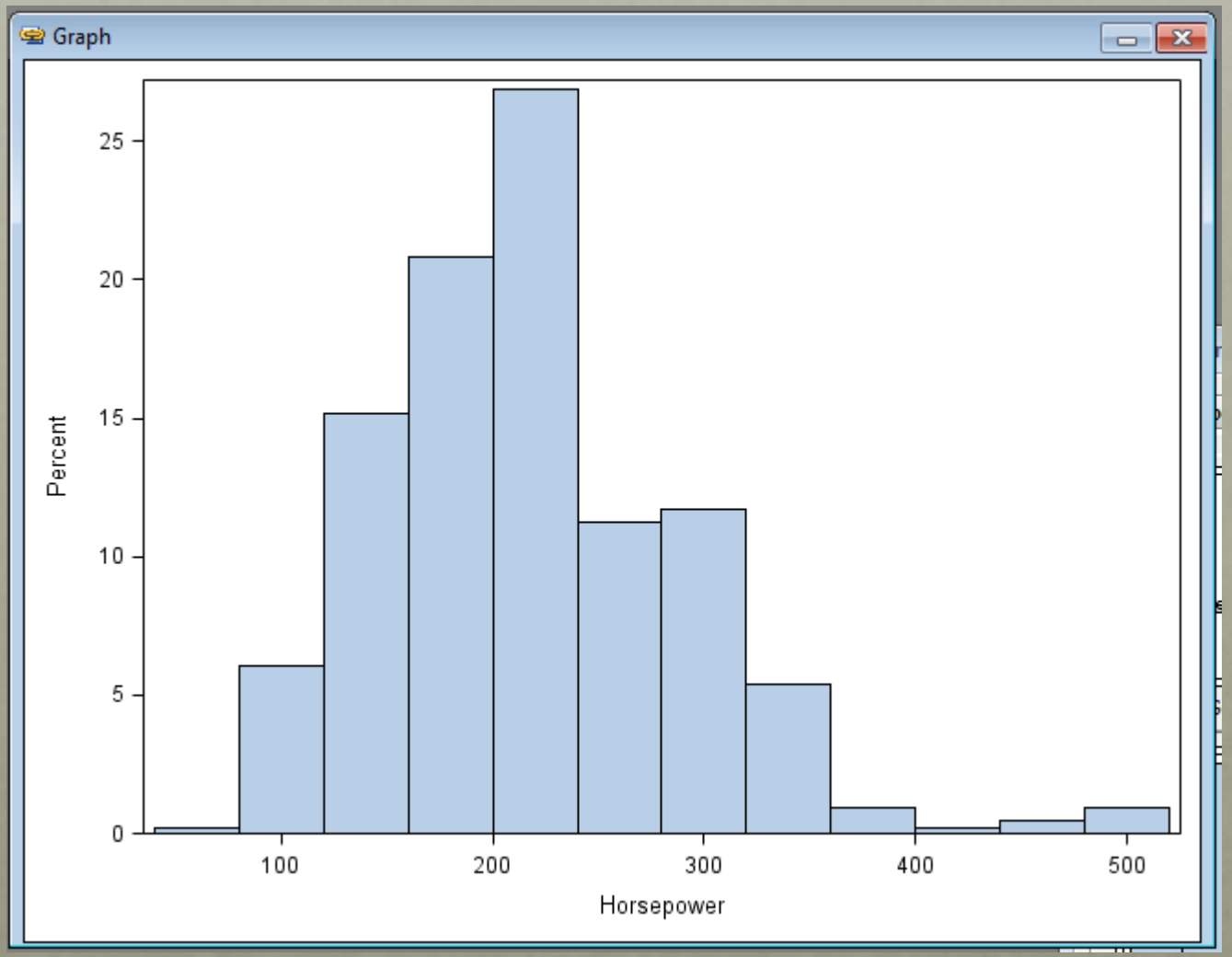


Other Features – Shared Variable Graphs



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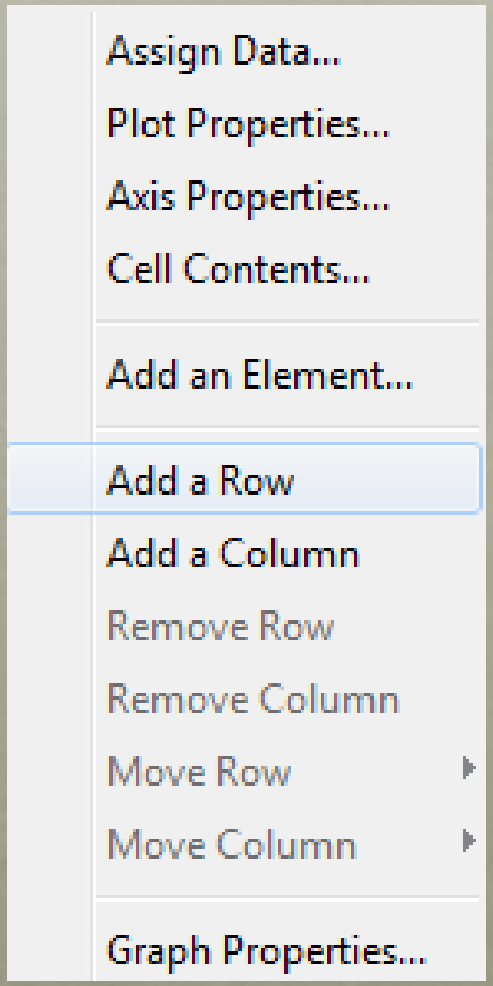

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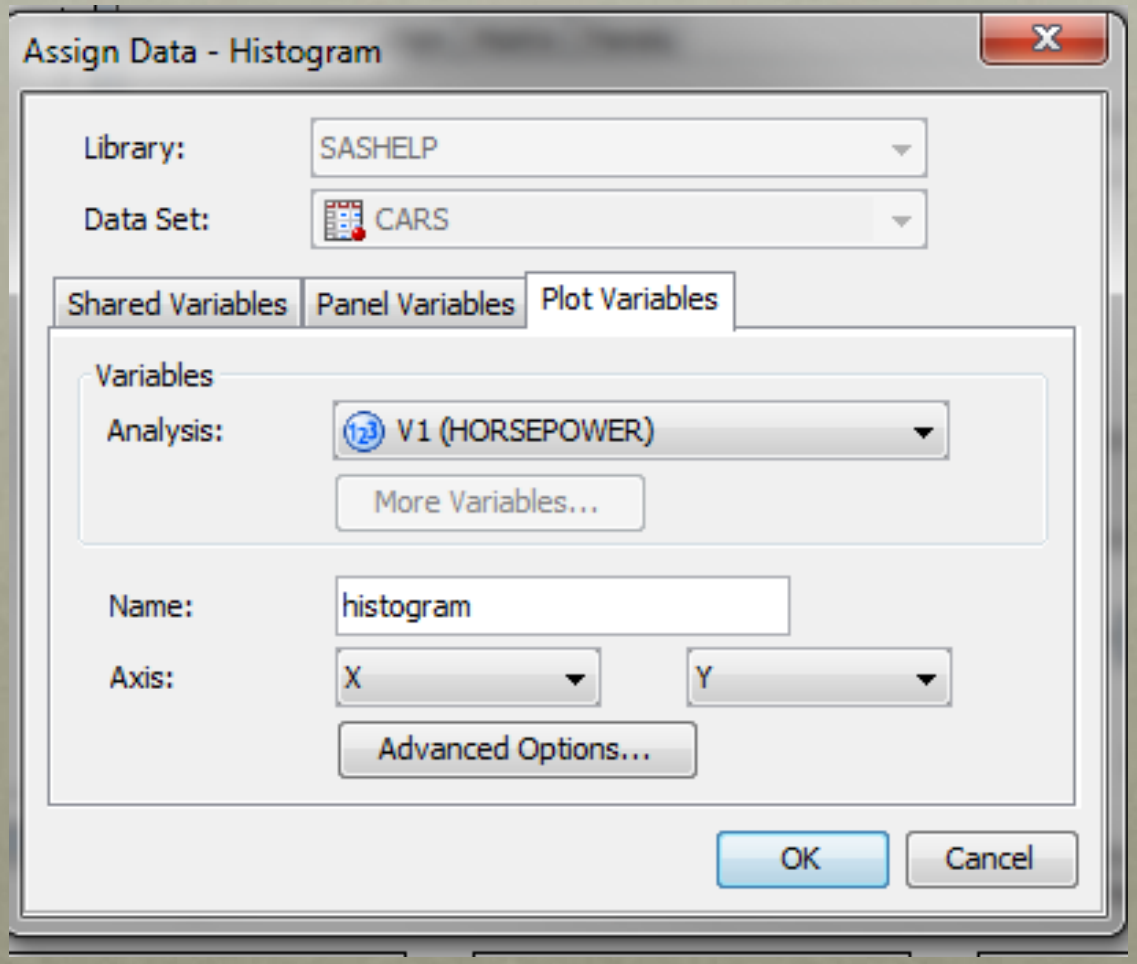

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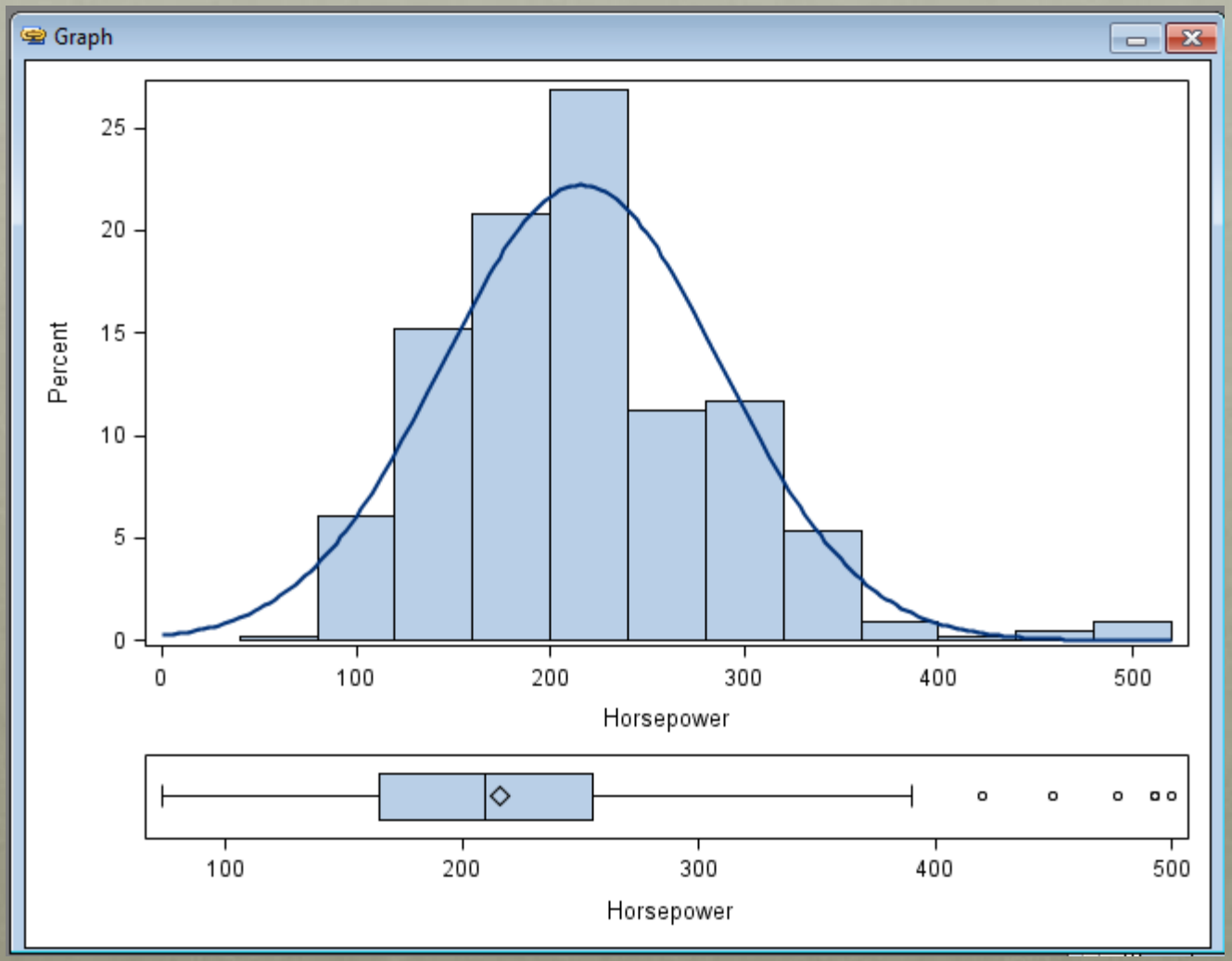

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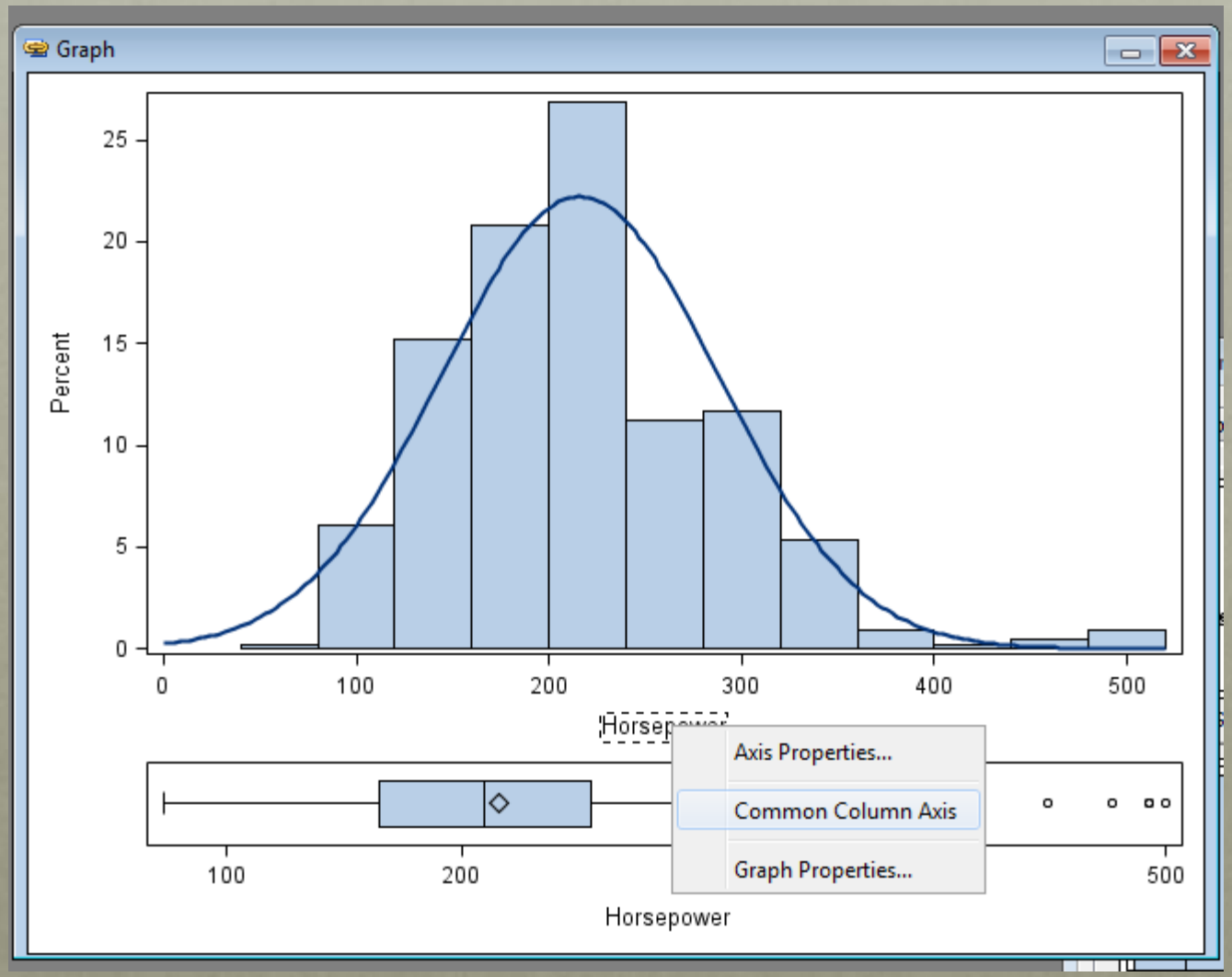

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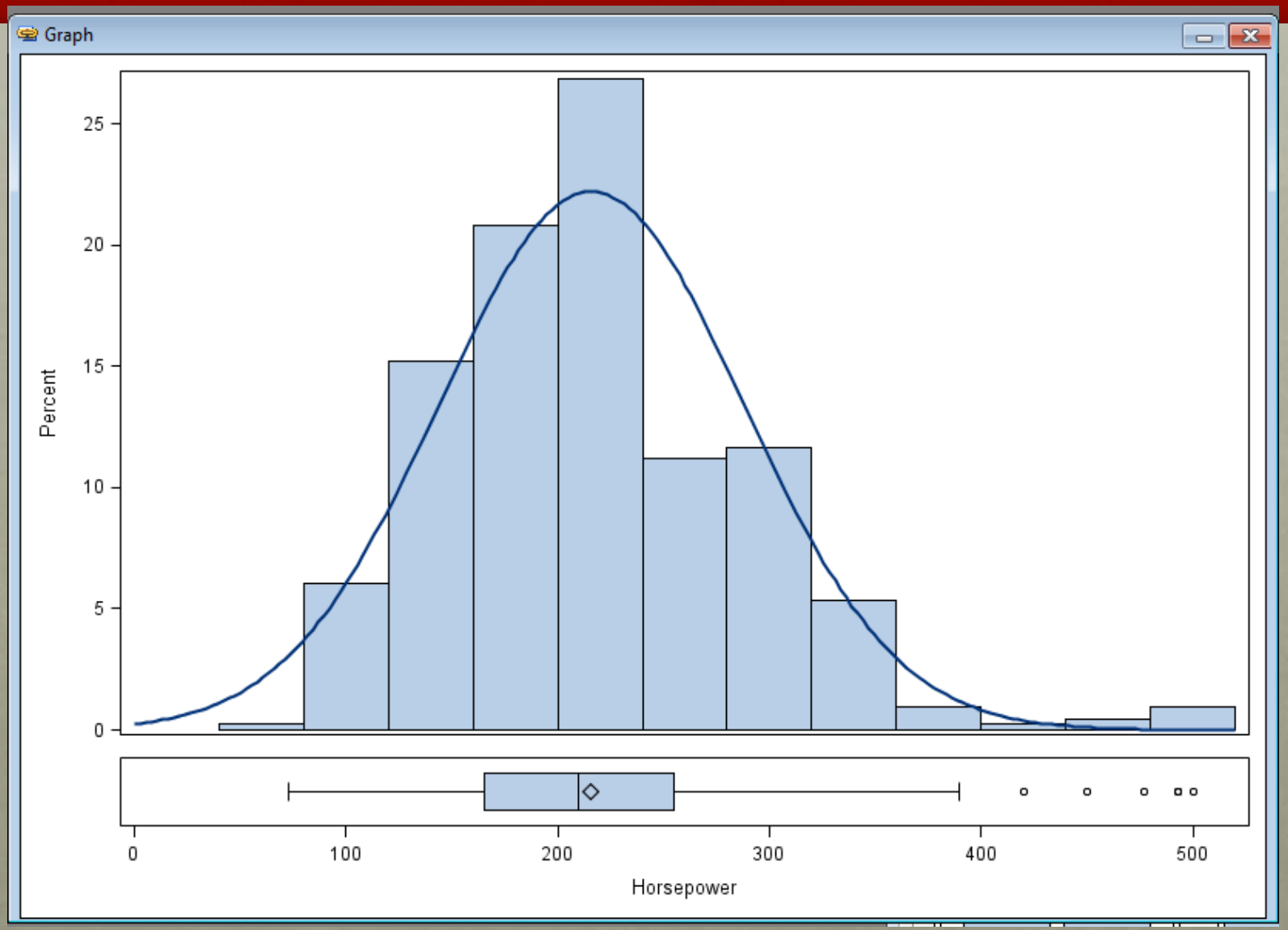

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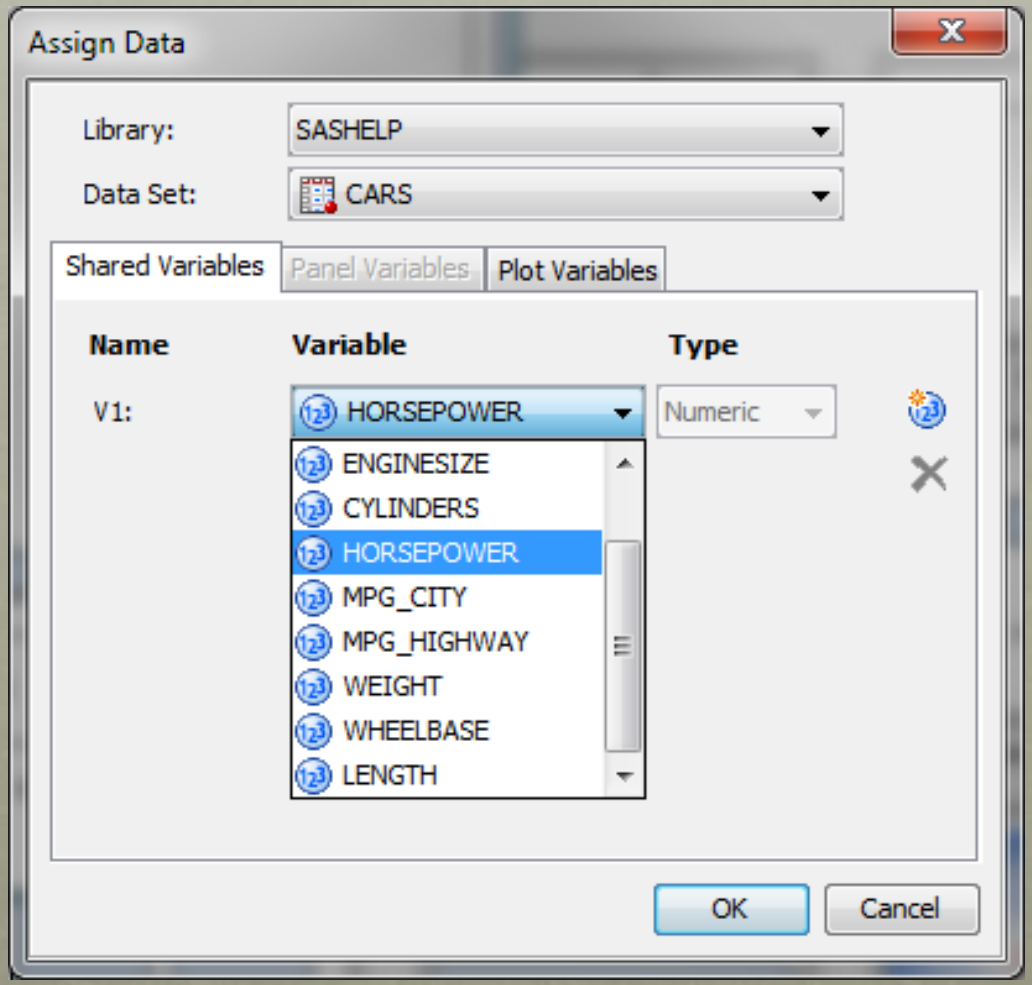

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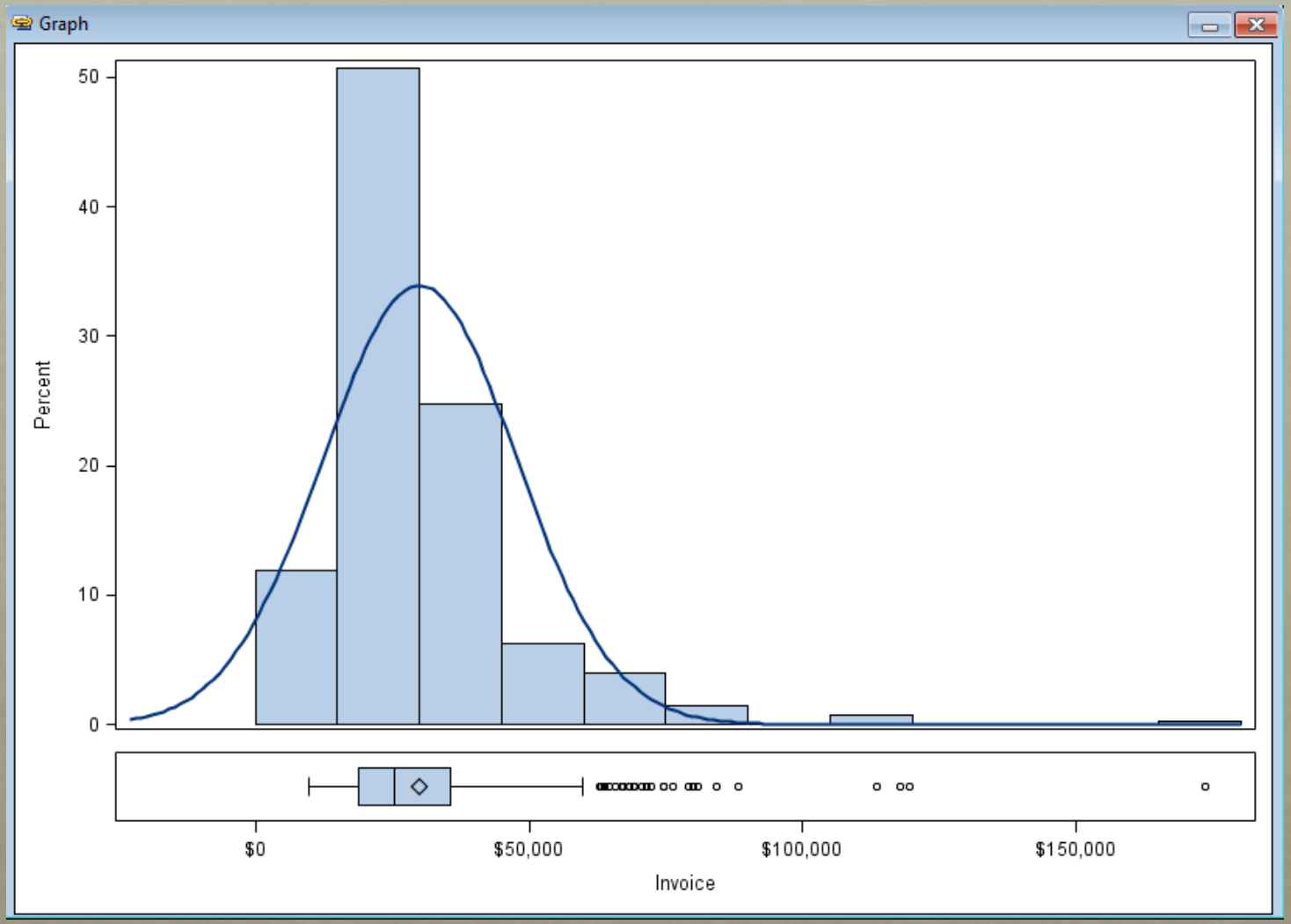
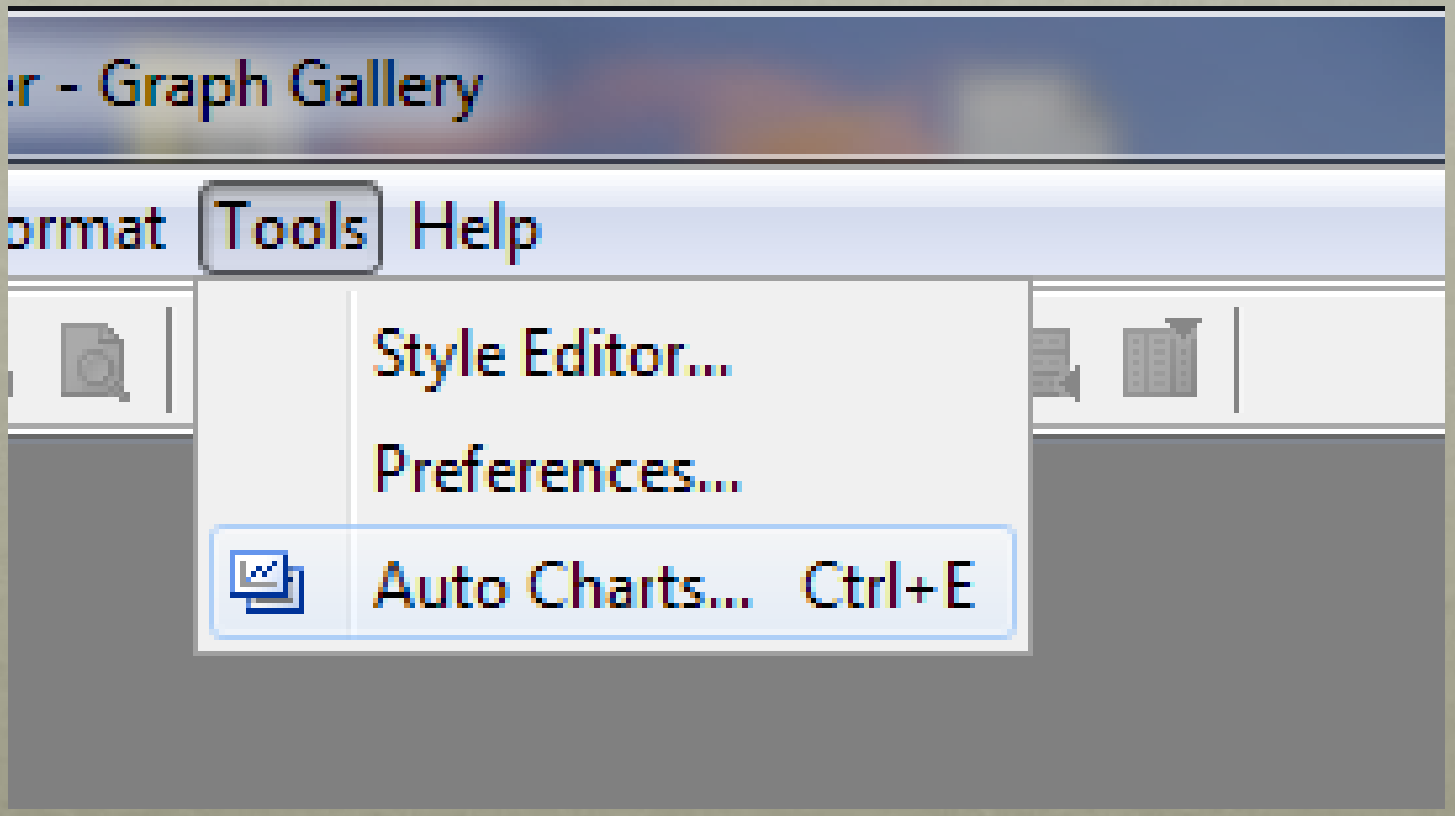


OTHER FEATURES – AUTO CHARTS



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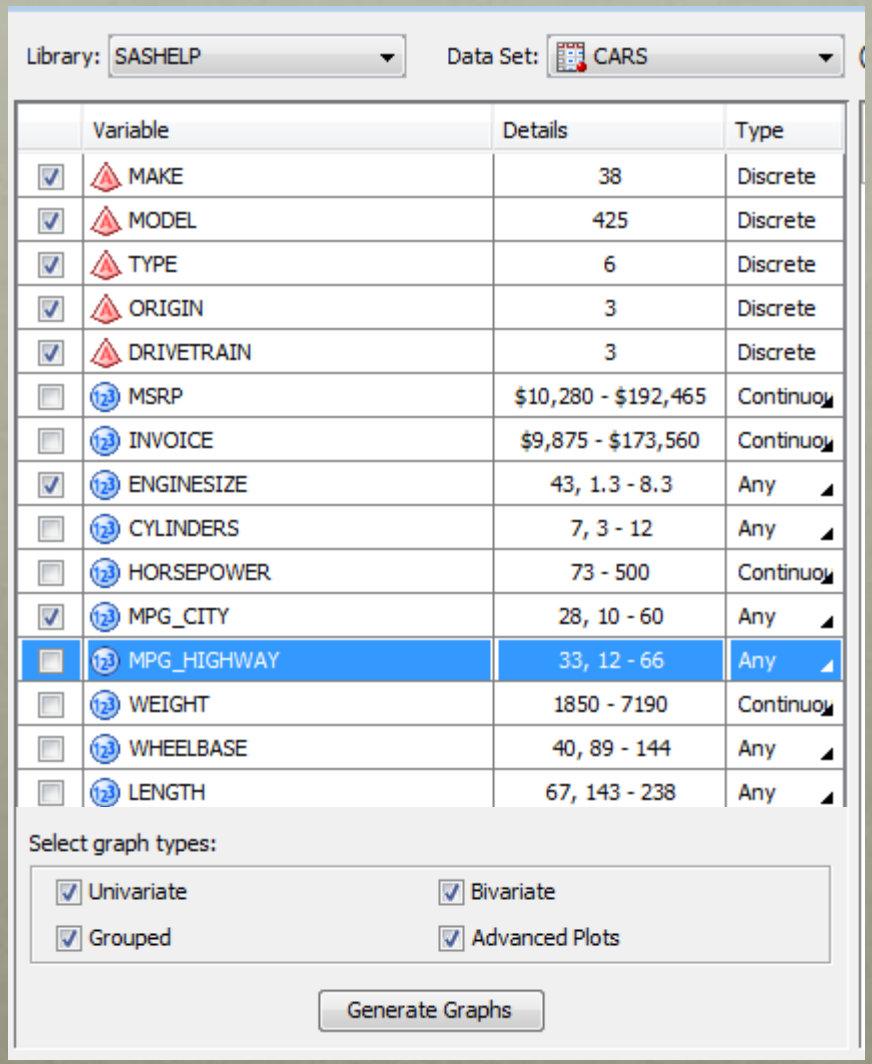

(428 observations)

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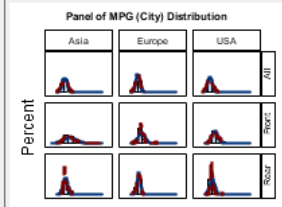

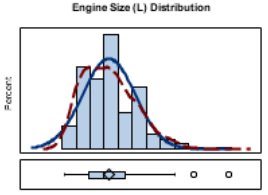

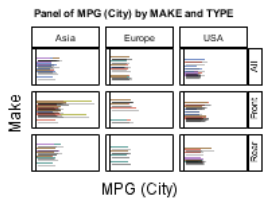

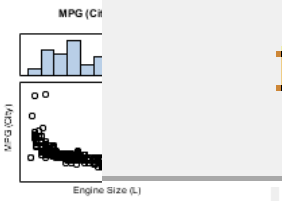

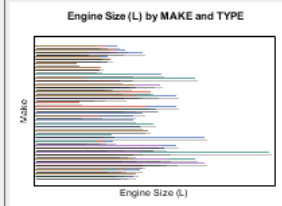

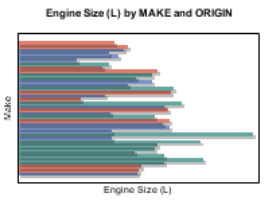

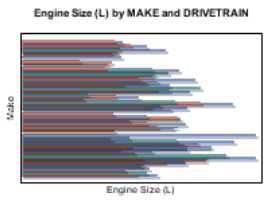

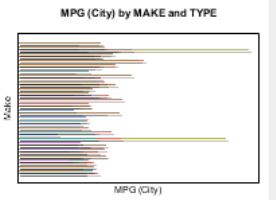

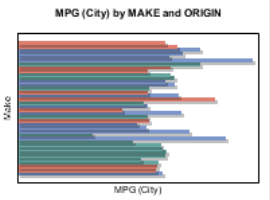

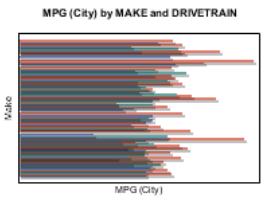

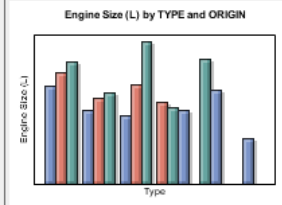

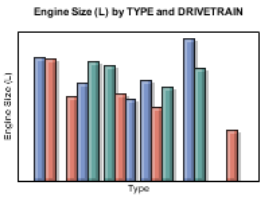

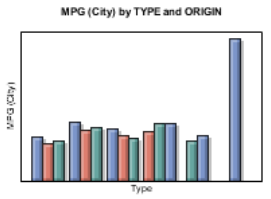

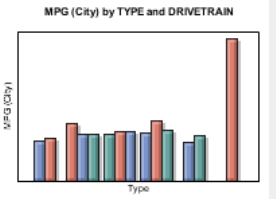

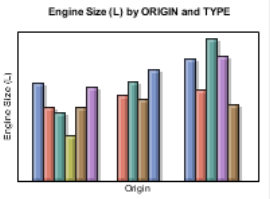

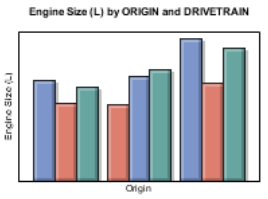

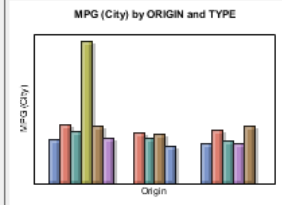

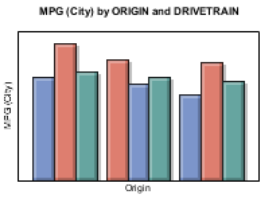

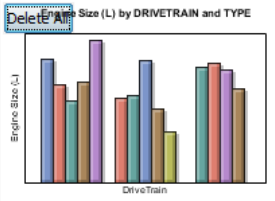

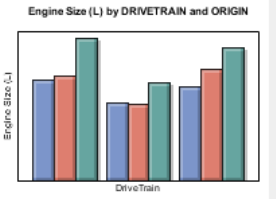

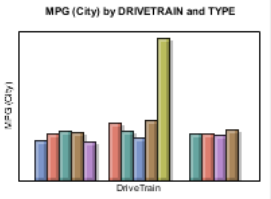

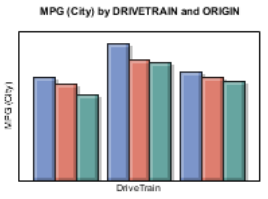

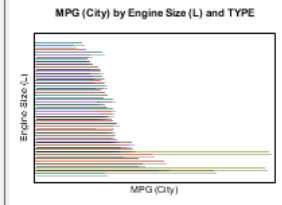

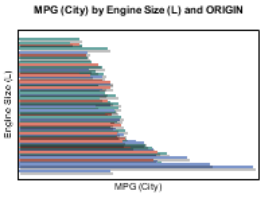

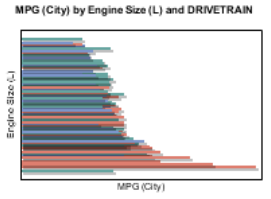

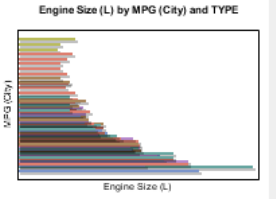

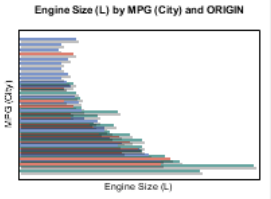

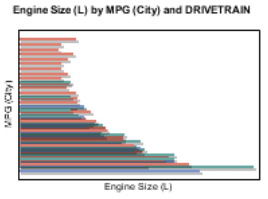

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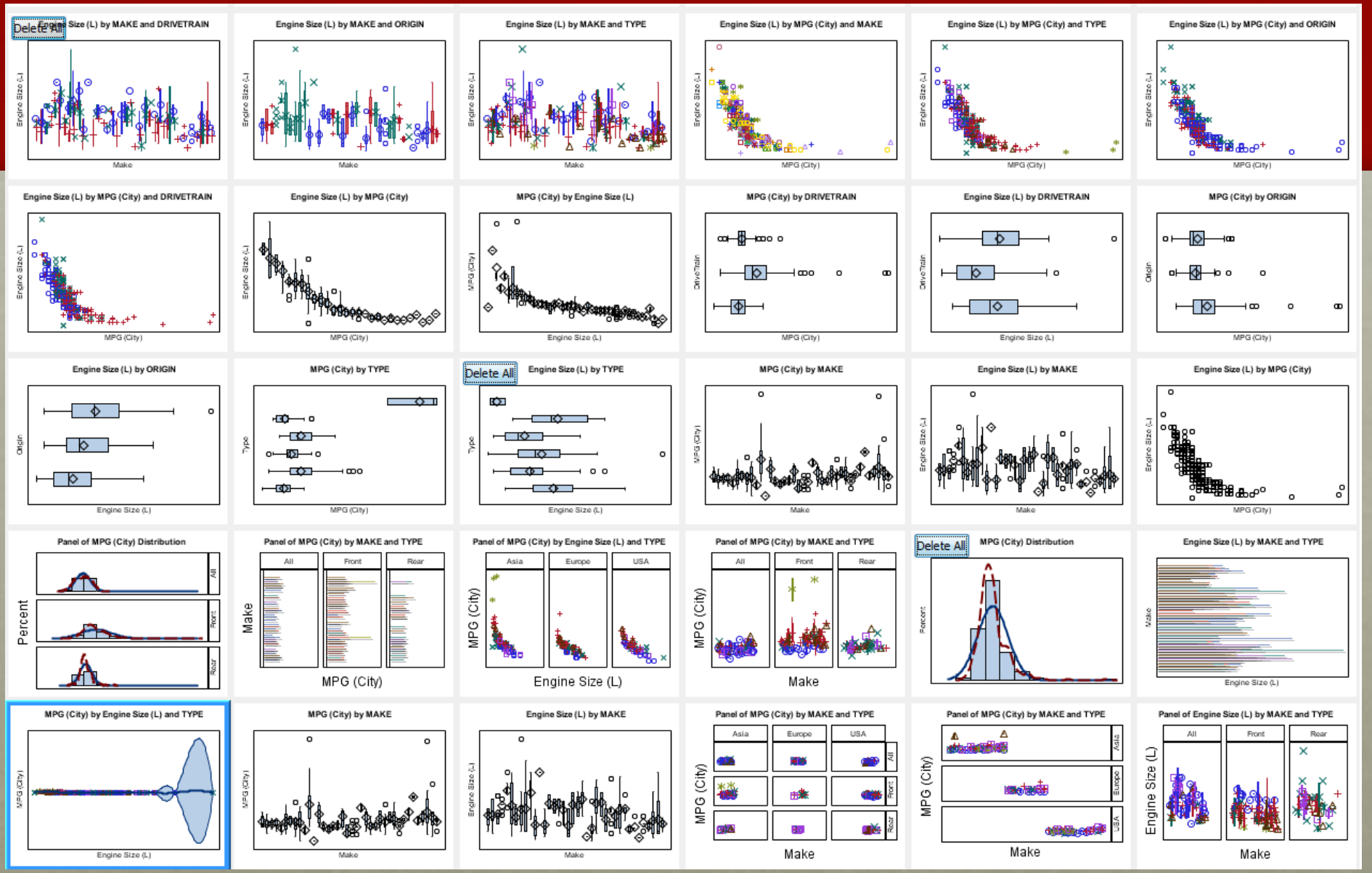
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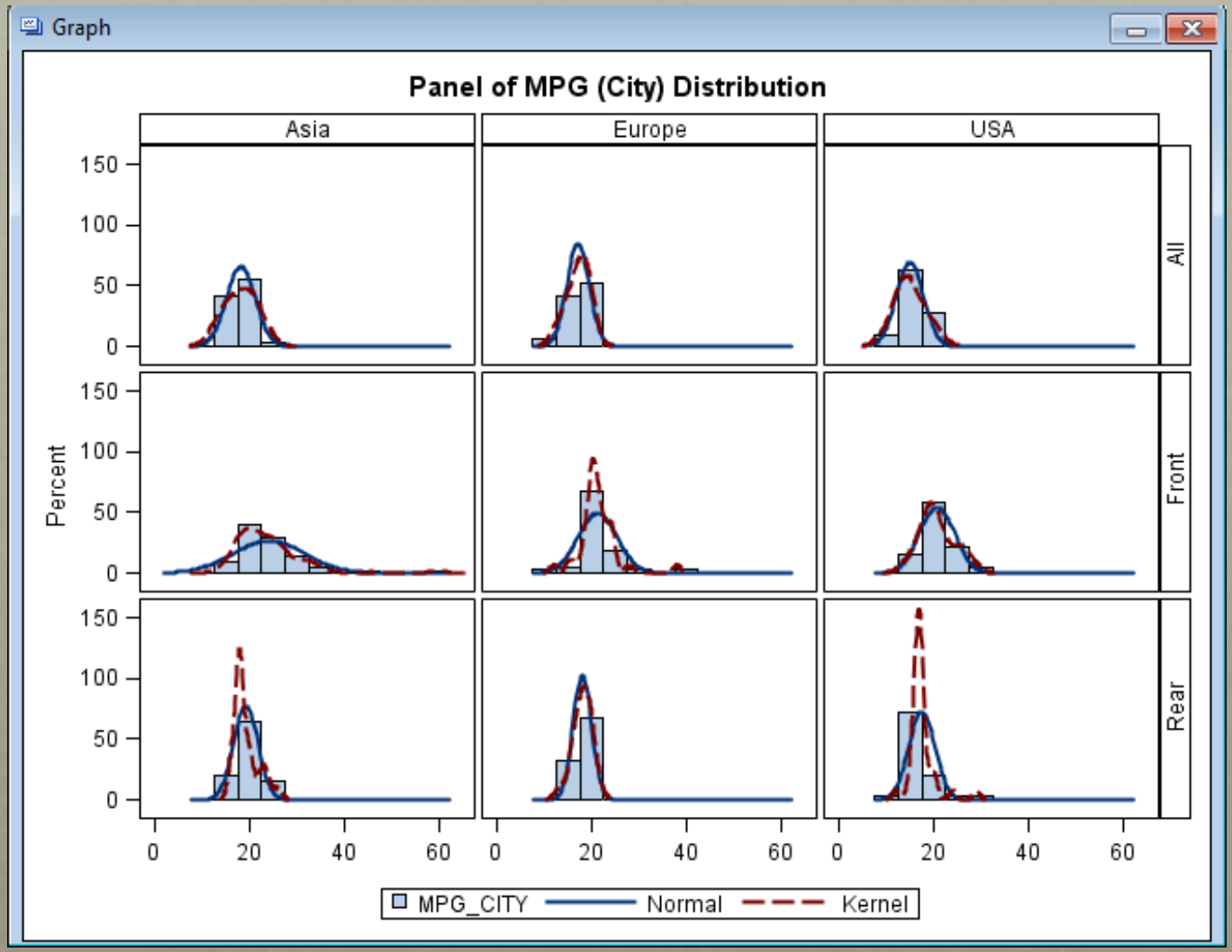
OTHER FEATURES – AUTO CHARTS



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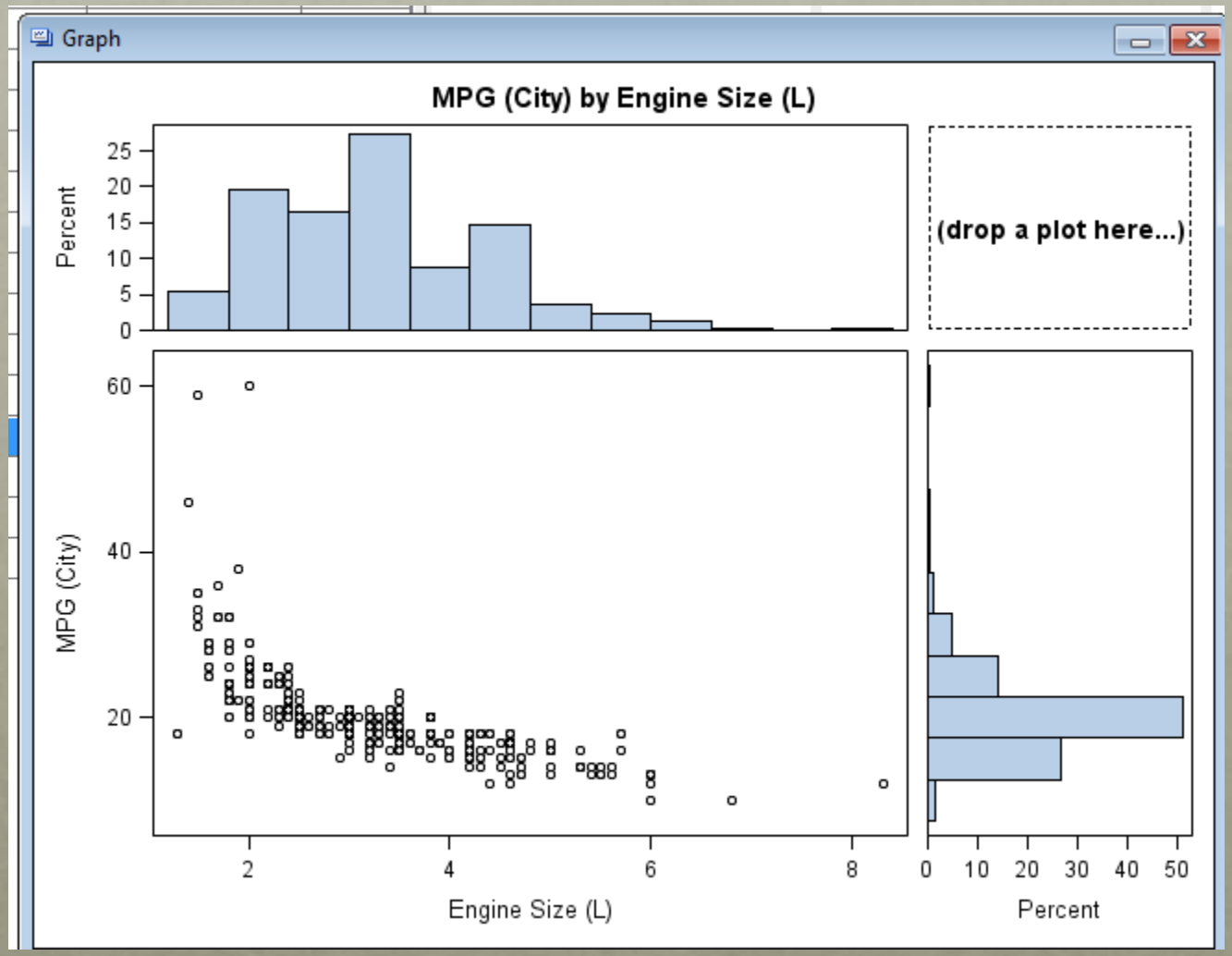

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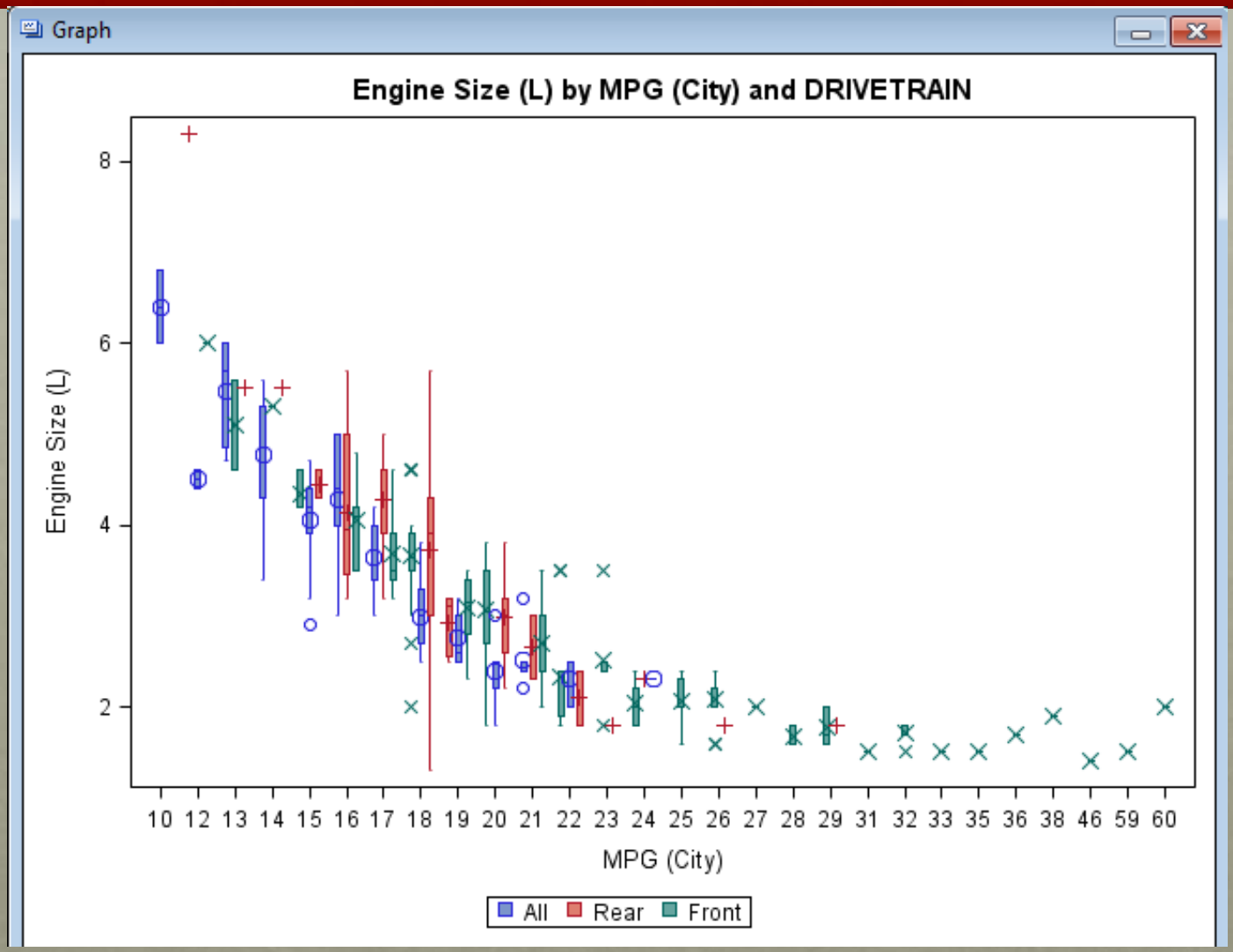

CONCLUSIONS

- ODS Graphics Designer is an extremely simple yet extraordinarily powerful tool in the SAS Toolbelt
- Allows for both “quick and dirty” data reviews and publication-quality graphics all with a few clicks
- The new features, Shared Variable Charts and Auto Charts, are a huge step in improving an already very useful product

Thanks and Contact Info

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SAS Canada (I'm the Darth Vader picture)