Modifying Your Graphs

Although ODS Graphics is designed to automate the creation of high-quality statistical graphics, on occasion you might need to modify your graphs. You can make permanent changes by modifying the graph template. You can make immediate, ad hoc changes by using the ODS Graphics Editor, which provides a point-and-click interface. You can enable editing with this command:

```ods listing sg=on;```

**PLOTS= Option**

Each statistical procedure that supports ODS Graphics has a PLOTS= option that is used to select graphs and specify options. The PLOTS= option has a common overall syntax for all statistical procedures, but the specific global plot options, plot requests, and plot options vary across procedures. Syntax:

```
PLOTS < (global-plot-options) > < = plot-request < (options) > >
PLOTS < (global-plot-options) > < = plot-request < (options) > > < ... plot-request < (options) > > >
```

Examples:

```
plots=all
plots=none
plots=residuals
plots=residuals(smooth)
plots=(trace autocorr)
plots=(unpack)
```

Most graphical details are controlled either by graph templates or by styles, not by the PLOTS= option.

For more information, see:

For complete information, see the SAS® 9.2 documentation at http://support.sas.com/v9doc
ODS Graphics Overview

You can enable ODS Graphics by specifying the following statement:

```sas
ods graphics on;
```

ODS Graphics remains enabled until you disable it with the following statement:

```sas
ods graphics off;
```

- **The ODS destination** specifies where you see your graphs.
- **A graph template** determines how a specific graph is constructed. A graph template is a SAS program written in the Graph Template Language (GTL) that provides instructions for creating the graph.
- **An ODS style** controls the overall appearance.
- **A style template** is a program that sets colors, fonts, and overall appearance.

Example Statements and Options

```sas
ods trace output notes; / quit;
ods graphics off; image_dpi=300 / ods graphics on;
```

ODS Graphics remains enabled until you disable it

```sas
proc reg plots=all; / quit;
```

**PROC SGSCATTER**

PROC SGSCATTER creates a rectangular display of graphs.

```sas
proc sgscatter options; / run;
```

**PROC SGPROCEDURE**

PROC SGPROCEDURE creates a matrix of graphs, with one graph for each combination of levels of a list of classification variables.

```sas
proc sgpanel options; / run;
```

**PROC SGPLOT**

PROC SGPLOT creates single-cell plots with a variety of plot and chart types.

```sas
proc sgplot options; / run;
```

**PROC SGSCATTER**

PROC SGSCATTER creates a rectangular display of graphs.

```sas
proc sgscatter options; / run;
```

**PROC SGPANEL**

PROC SGPANEL creates a matrix of graphs, with one graph for each combination of levels of a list of classification variables.

```sas
proc sgpanel options; / run;
```

**SG Procedure Examples**

```sas
title 'Cars by Make'; proc sgpanel data=sashelp.cars; panelby make / rows=2 columns=3; run;
```

```sas
title 'Student Weight by Student Height'; proc sgplot data=sashelp.class noautolegend; pspline y=weight x=height; run;
```