

# STAT 5110/6110: SAS Programming and Applications

## 8-B. SAS Graphics - Advanced

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# Outline

- 1 Paneled graph
- 2 Matrix of plots
- 3 Specify image properties

# Paneled Graph

We may plot more than one graph in one plot.

```
proc sgpanel data = data-set;  
  panelby variable / options;  
  plot-statement  
run;
```

options include

- **columns** = number of columns
- **rows** = number of rows
- **spacing** = number of pixels between rows and columns

# Matrix of Plots

```
proc sgscatter data = data-set;  
  matrix list-of-variables / options;  
  plot list-of-variables * list-of-variables;  
run;
```

- options in matrix statement can be **diagonal = (histogram normal)** request histogram and normal curve density.
- use either matrix or plot, but not both

# Specifying Image Properties

```
ods graphics / options;
```

Options include

- `reset` resets options to their default
- `height` = image height in cm, in, px, ...
- `width` = image width in cm, in, px, ...
- `imagename` = image filename
- `imagefmt` = graph format, bmp, jpeg, pdf, png, ps, tiff, ...

# More Options

Location of image files

```
ods destination-name gpath = 'path';
```

Other options include

- `file` = save all images in one file
- `dpi` = specifies image resolution for pdf
- `image_dpi` = specifies image resolution for html, listing, rtf