

## What's New in SAS/STAT 9.2

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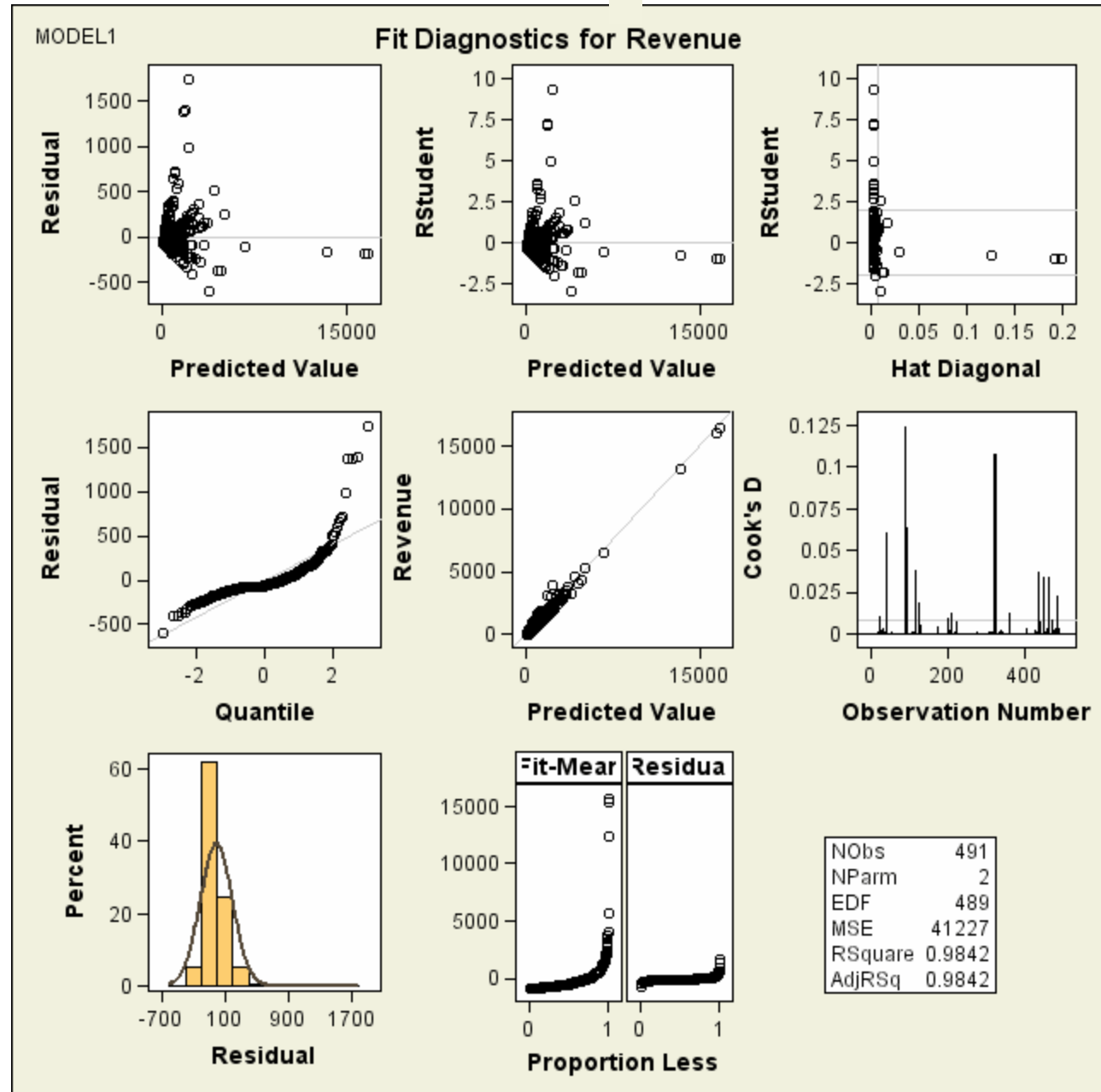
# Overview

- ODS Statistical Graphics
- Stat Studio
- New Procedures
- Enhancements
- (A brief look at 9.2 Graph Enhancements)

# ODS Statistical Graphics (ODS Graphics)

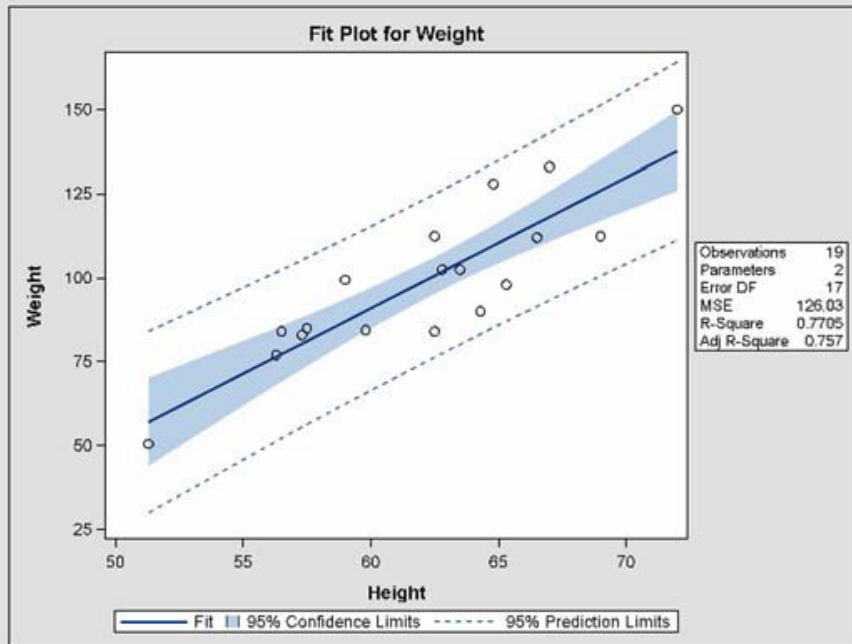
- 9.1 Experimental in 24 procedures
- 9.2 Default output in over 50 procedures

# Proc Reg



The REG Procedure  
 Model: MODEL1  
 Dependent Variable: Weight

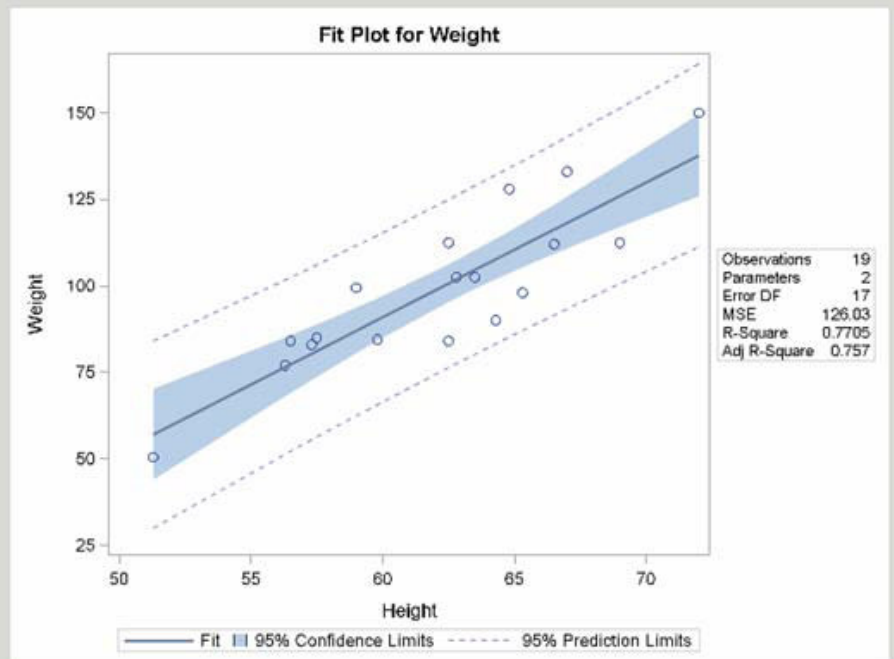
Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t
Intercept	1	-143.02692	32.27459	-4.43	0.0004
Height	1	3.89903	0.51609	7.55	<.0001



- You can modify graphs by changing their underlying templates, which are supplied by SAS and are written with PROC TEMPLATE and the Graph Template Language (GTL).

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# SAS Stat Studio

- SAS Stat Studio provides a new, dynamic, interactive interface to SAS/IML software
- Benefits
  - Program easily and efficiently.
  - Create your own modules or use routines from a predefined library.
  - Perform interactive exploratory analyses.
  - Formulate and implement genetic algorithm optimizations.
  - Take advantage of automatic memory management and matrix sizing.
  - ... check out [www.sas.com/technologies/analytics/statistics/iml/](http://www.sas.com/technologies/analytics/statistics/iml/)

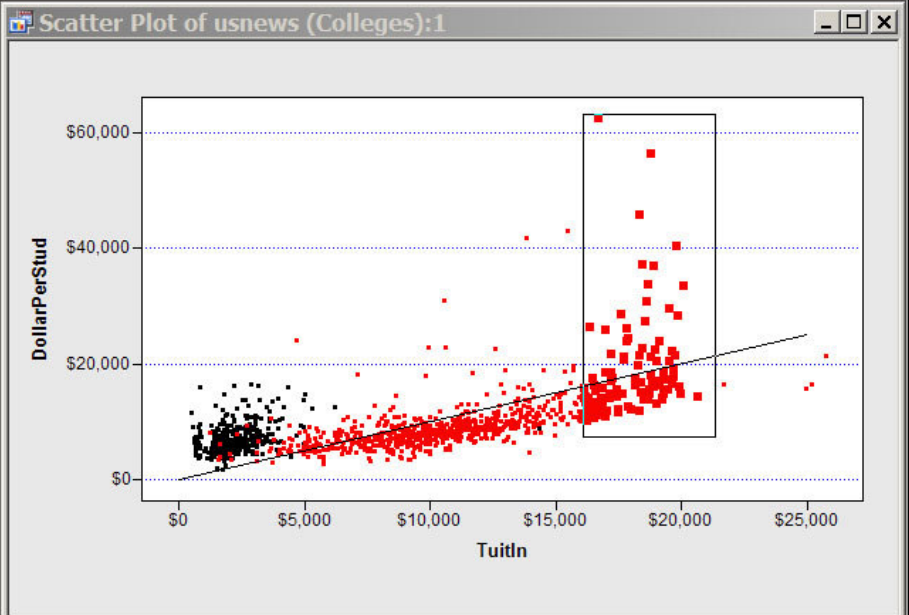
```

declare DataObject dobj;
dobj = DataObject.CreateFromFile( "usnews.sas7bdat" );

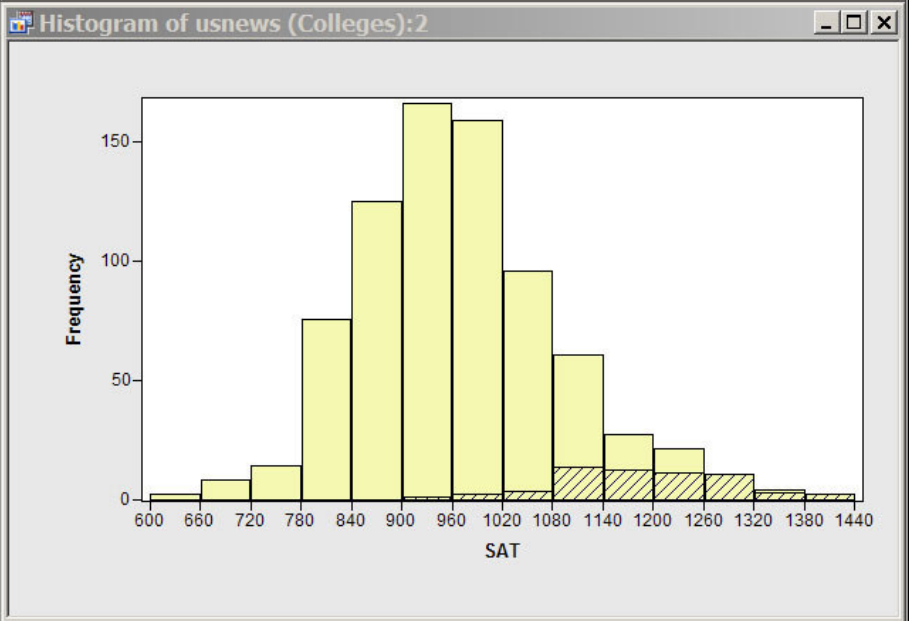
/* Change observation colors:  BLACK & RED */
run ColorCode( dobj, "PubPriv", {0 0 0, 255 0 0}, 2 );

/* Create a scatter plot and change attributes */
declare ScatterPlot plot;
plot = ScatterPlot.Create( dobj, "TuitIn", "DollarPerStud" );
plot.ShowAxisReferenceLines( YAXIS );
plot.SetObsLabelVar( "College" );
/* add y=x line */
plot.DrawUseDataCoordinates();
plot.DrawLine( 0, 0, 25000, 25000 );

/* Create another plot that is linked to the first */
declare Histogram hist;
hist = Histogram.Create( dobj, "SAT" );
hist.SetWindowPosition(0, 50, 100, 50);
    
```



	31	College	State	PubPriv	SATM
[107]			Nom	Nom	Nom
491	■ x²	Harding University	AR	2	5
492	■ x²	Grand Canyon University	AZ	2	4
493	■ x²	Prescott College	AZ	2	
494	■ x²	Azusa Pacific University	CA	2	4
495	■ x²	Biola University	CA	2	5
496	■ x²	California Baptist College	CA	2	4
497	■ x²	California Institute of Technology	CA	2	7
498	■ x²	California Lutheran University	CA	2	4
499	■ x²	United States International University	CA	2	4
500	■ x²	Chapman University	CA	2	5
501	■ x²	Claremont McKenna College	CA	2	6
502	■ x²	Harvey Mudd College	CA	2	7
503	■ x²	Pitzer College	CA	2	5
504	■ x²	Pomona College	CA	2	7
505	■ x²	Scripps College	CA	2	5
506	■ x²	College of Notre Dame	CA	2	
507	■ x²	Holy Names College	CA	2	4
508	■ x²	Dominican College of San Rafael	CA	2	4
509	■ x²	La Sierra University	CA	2	4
510	■ x²	University of La Verne	CA	2	4
511	■ x²	Menlo College	CA	2	4



# New Procedures

- GLIMMIX (full release)
- GLMSELECT
- QUANTREG
- BGENMOD, BLIFEREG, BPHREG
- MCMC
- HPMIXED
- SEQDESIGN, SEQTEST

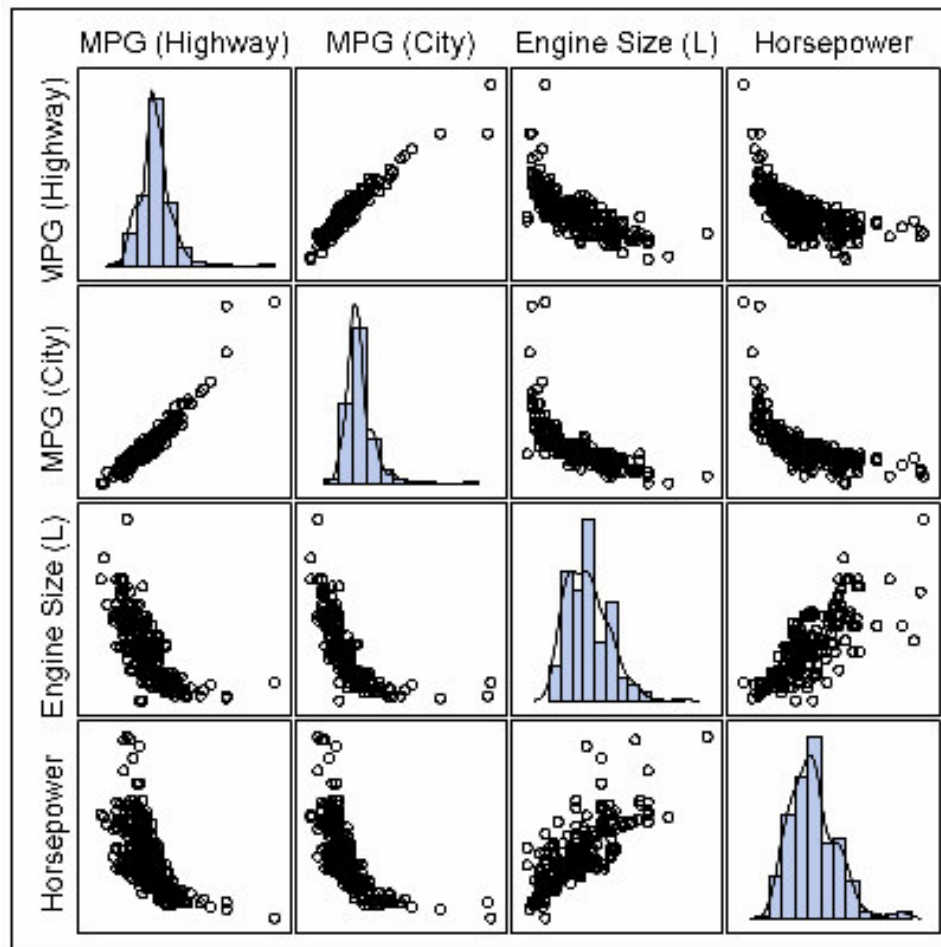
# Enhancements

- TTEST – added crossover analysis
- Jackknife and BRR variance estimation and domain analysis
- POWER now provides power for additional analyses.
- GENMOD
- PHREG
- ... Many more  
[support.sas.com/documentation/cdl/en/whatsnew/61982/HTML/default/statugwhatsnew.htm#](http://support.sas.com/documentation/cdl/en/whatsnew/61982/HTML/default/statugwhatsnew.htm#)

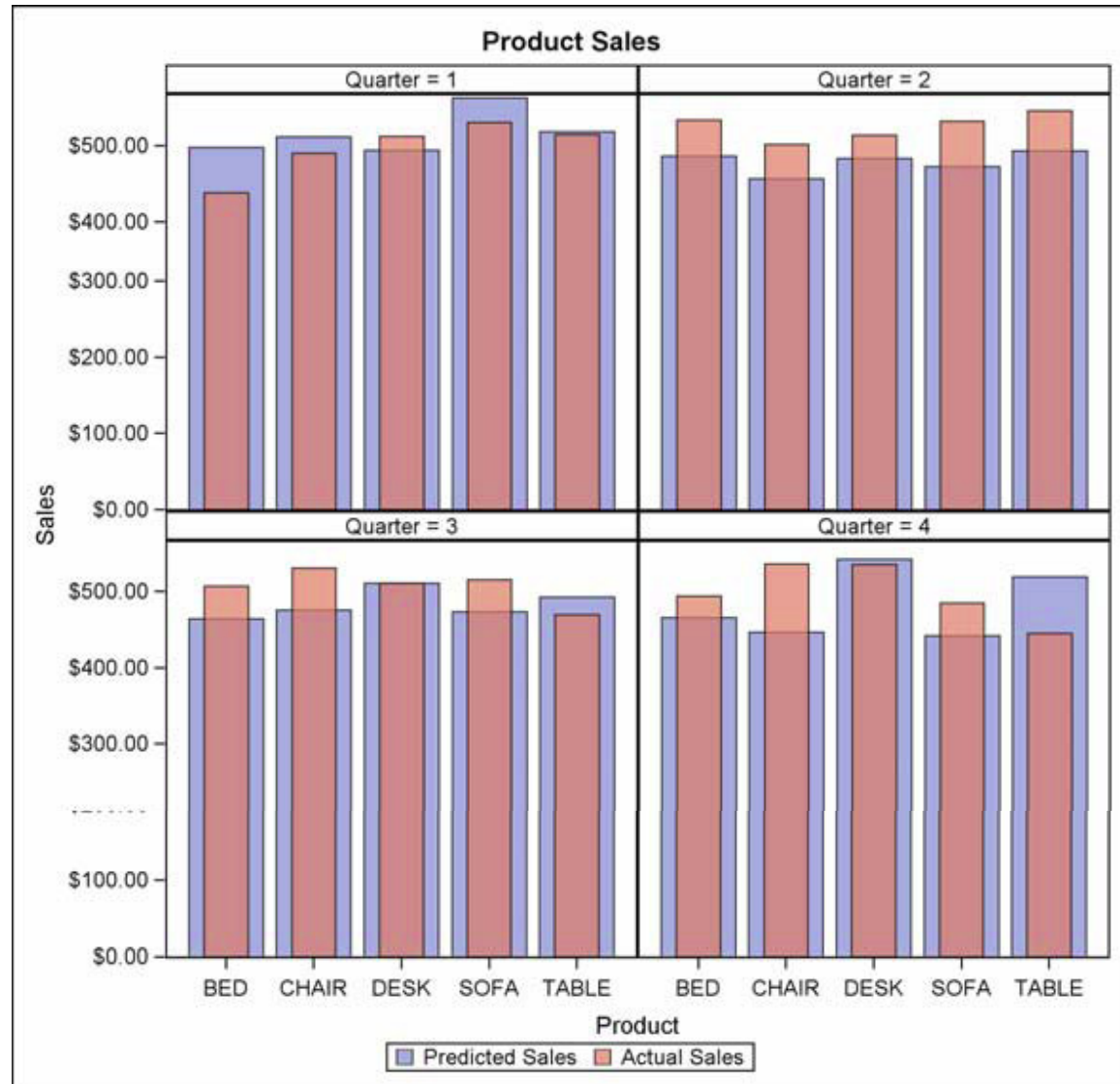
## 9.2 SAS Graph

- You can also modify graphs by changing their underlying templates, which are supplied by SAS and are written with PROC TEMPLATE and the Graph Template Language (GTL).
- Point-and-click editor for enhancing titles, labels, and other graph features.

# proc sgscatter



# proc sgpanel



# ODS Graphics Editor

