

PHUSE 2013 – WHAT'S NEW IN SAS 9.4

SOME HANDS ON EXAMPLES



Read User Text

Preserve the SAS Environment between SAS Sessions

Improve Performance

Increase Security

View SAS Data Sets By Using JMP

<http://supportprod.unx.sas.com/documentation/onlinedoc/base/index.html>

Process Encoded Data

Enhance Your SAS Output

Create Customized Attributes for Data Sets and Variables

Manage Locale Information in a Data Set

Read ZIP Files

Write JavaScript Object Notation (JSON)

Write to a SharePoint Document Library

Enhanced ODS Statistical Graphs

Process Time and Datetime Values By Using Time Zones

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ADDITION OF HP ANALYTICS PROCEDURES TO SAS® ANALYTICS RUNNING ON SINGLE SERVER

SAS/STAT	SAS/ETS	SAS/OR	SAS Enterprise Miner	SAS Text Miner	SAS Forecast Server
HPLOGISTIC HPREG HPLMIXED HPNLMOD HPSPLIT HPGENSELECT	HPCOUNTREG HPSEVERITY HPQLIM	HPLSO Select features in OPTMILP OPTLP OPTMODEL	HPREDUCE HPNEURAL HPFOREST HP4SCORE HPDECIDE	HPTMINE HPTMScore	HPFORECAST
Common Set (HPDS2, HPDMDB, HPSAMPLE, HPSUMMARY, HPIMPUTE, HPBIN, HPCORR)					

- No additional charge for “like for like” hardware
- New in June release
- Common set of HP procedures will be included in each of the individual SAS Analytics products
- SAS recommends that customers desiring to run these procedures on more than 16 cores should move to an MPP architecture due to diminishing performance returns on adding additional cores.
- Single server must have correctly sized addressable RAM for in-memory processing of HP Procedures.

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PHUSE 2013 WRITING OUTPUT TO POWERPOINT

In SAS 9.4, you can write SAS/Graph output directly to a Powerpoint slide! You do this using "ods powerpoint", and the rest of your syntax remains mostly the same.

```
ods powerpoint file="&name..ppt"  
style=htmlblue;
```

New Styles : Dove and Raven

```
ODS HTML path=odsout  
body="dove.htm" style=dove;
```

```
ODS HTML path=odsout  
body="raven.htm" style=raven;
```

The alpha color name syntax is 'Arrggbbaa' where rr, gg, bb are the hex values for the level of red, green, blue (same as before), and aa is the hex values for alpha. An alpha value of 00 is completely transparent, and FF is completely solid. In the V9.4 example below, I use 'A1464F4aa' (blue) and 'AFFFFF0077' (yellow) as the colors.

```
data circle_anno; set circle_anno;
  xsys='2'; ysys='2'; hsys='3'; when='a';
  length function style $8 color $20 text
$20;
  function='pie'; position='5'; rotate=360;
  style='psolid';
  if zipcode=75201 then color='a1464F4aa';
  else color='aFFFFF0077';
  output;
  style='pempty'; color='brown'; output;
run;
```

CREATING GIF ANIMATIONS

Previously, you could create nice dev=png graphs, with anti-aliasing and alpha-transparent colors ...

but if you wanted gif animations you had to do without anti-aliasing and alpha-transparent colors. Now in SAS 9.4, you can create gif animations with those features!

```
/* New 9.4 syntax ... */  
options dev=sasprtc  
printerpath=gif animduration=.2  
animloop=0  
    animoverlay=no animate=start  
nocenter;
```

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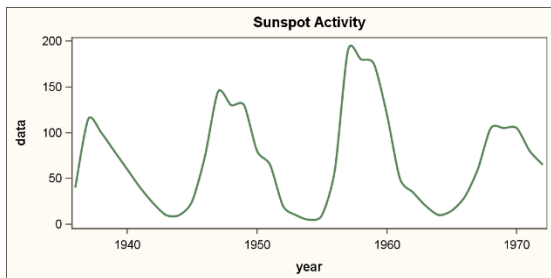
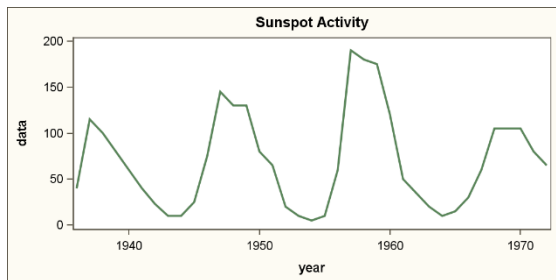
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Jittering is the act of adding random noise to data in order to prevent overplotting in statistical graphs.

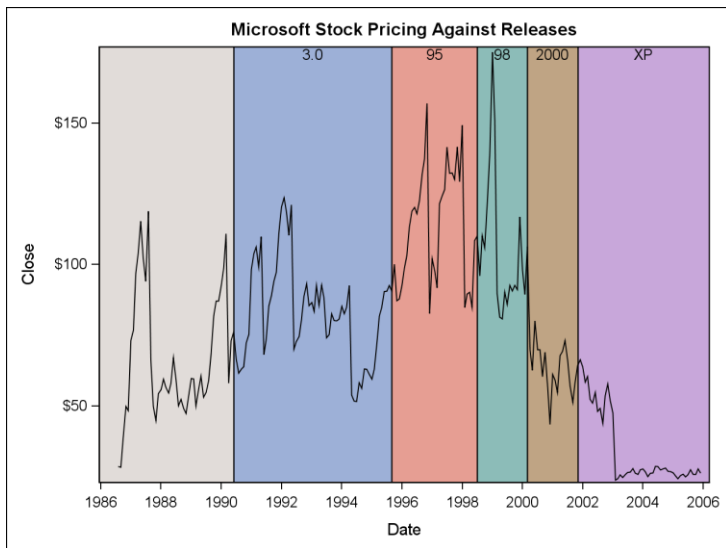
```
proc sgplot data=sashelp.cars;  
  where type ne 'Hybrid';  
  scatter x=mpg_city y=type / jitter  
         filledoutlinedmarkers  
         markerattrs=(size=9 symbol=circlefilled)  
         markeroutlineattrs=(thickness=0)  
         markerfillattrs=graphdata1  
         dataskin=sheen;  
  
  xaxis grid;  
  yaxis display=(nolabel) offsetmin=0.12;  
run;
```

PHUSE 2013 SMOOTH CONNECT



```
proc sgplot data=sunspot;  
  series x=year y=data /  
  smoothconnect  
  lineattrs=(thickness=2);  
run;
```

PHUSE 2013 BLOCK STATEMENT



```
proc sgplot data=events;  
    block x=date block=release /  
    transparency=0.25;  
    series x=date y=close;  
run;
```

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PHUSE 2013 READING .ZIP FILES

```
/* **** */
/* The syntax parameters for wzunzip are: */
/* */
/* specify the location of the downloaded add-on */
/* -o = overwrite existing file */
/* -c = display contents of file to screen */
/* name of zip file */
/* name of file inside of zip to be read */
/* */
/* Note the contents of the zipped file are read */
/* directly, no extraction is performed. */
/* **** */
```

```
filename foo pipe "C:\Program Files\WinZip\wzunzip.exe"
               -o -c
               C:\fusion26011_1_data.zip
               testfile.txt';
```

PHUSE 2013 ONE MORE THING

<http://webeditor.unx.sas.com:9080/SASWebEditorDev/>

THANK YOU



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