

**THE
POWER
TO KNOW®**

New (Useful & Cool) Features of Enterprise Guide 4.3

James Waite – SAS Training Specialist (BI)

Agenda

- Focus of Enhancements
- Programming Features
- Great references
- Demo
- Q & A

Focus of Enhancements

- Some interface niceties
- Programming interface
- Programming interface
- Programming interface

Preview Data

The screenshot displays the SAS software interface. On the left, a navigation pane shows the 'General' settings panel selected. The main area shows the 'General' settings for the project, with several options checked or unchecked. Below the settings, a data preview window is open, showing a table of data from the 'THEDATA' project. The table has three columns: 'Name', 'Member Type', and 'Index'. The data is as follows:

Name	Member Type	Index
SHOES	Data	
SP_CUSTOMER_ORDERS	Data	
SP_PRODUCT_ORDERS	Data	

A context menu is open over the 'SHOES' row, showing options: 'Icons', 'Views', 'Details', and 'Show detail pane'. The 'Views' option is currently selected. In the bottom right corner, a 'Members' pane is visible, showing a tree view with 'Sales', 'Stores', and 'Subsidiary'.

(Just Some) Programming Features

- Syntax Suggestion and Autocomplete
- Integrated Help Documentation
- Enhanced Process Flows (i.e Autoexec)
- Hot Keys
- Automatic Code Formatting
- Code Analyzer

Syntax Suggestion and Autocomplete

```

/* summarize the data across a category and store */
/* the output in an output data set */
proc means data=&data &stat noprint;
  var &measure;
  class &category &report / mi|;
  output out=summary &stat=&
run;

/* store the value of the meas
/* the row count into a macro
/* later in the report */
proc sql noprint;
select &measure, _FREQ_ into :o
from summary where _TYPE_=0;
select count(distinct &category) into :categ
quit;

```

```

/* summarize the data across a category and store */
/* the output in an output data set */
proc means data=&data &stat noprint;
  var &
  class
  output
run;

/* store
/* the ro
/* later
proc sql

```

Autocomplete List 1: ASCEND, ASCENDING, DESCEND, DESCENDING, EXCLUSIVE, GROUPINTERNAL, MISSING, MLF, ORDER=

Autocomplete List 2: category, categorycount, data, measure, measureformat, n, numobs, overall, report

Integrated Help Documentation

```

/* Create PDF Report */
/*****
ods listing close;
ods pdf file = 'C:\Demonstrations\User Groups\Van2011\EG Shoes
proc

```

Keyword: ODS PDF

Context: [ODS] ODS PDF statement

Alias or equivalent option/name for: ODS PRINTER

Opens, manages, or closes the specified destination (PRINTER, PS, PCL, PDF), which produces printable output.

Syntax:

(1) ODS PRINTER|PS|PCL|PDF <(<ID=>identifier)> <action>;

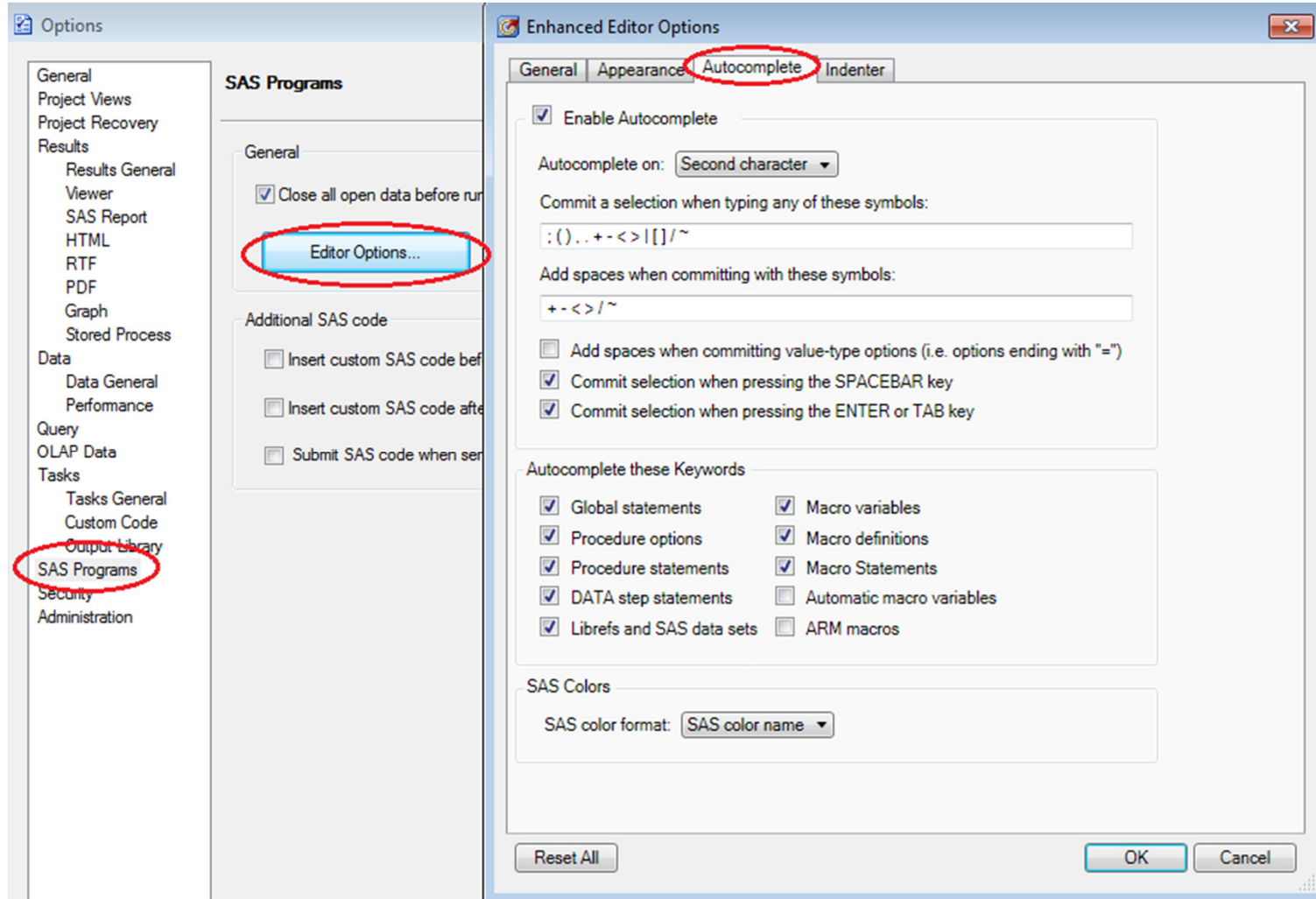
(2) ODS PRINTER|PS|PCL|PDF <(<ID=>identifier)> <option(s)>;

```

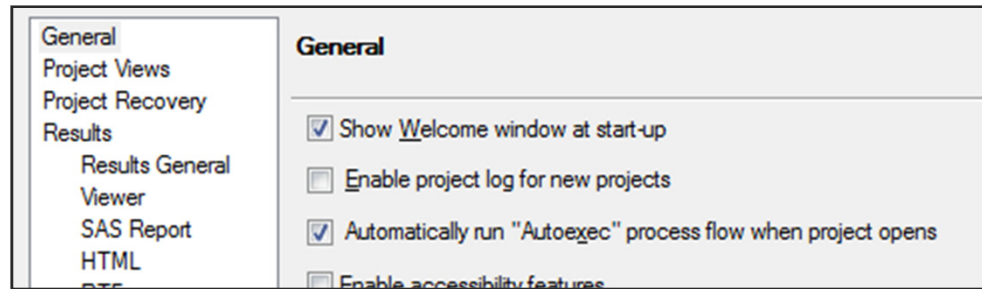
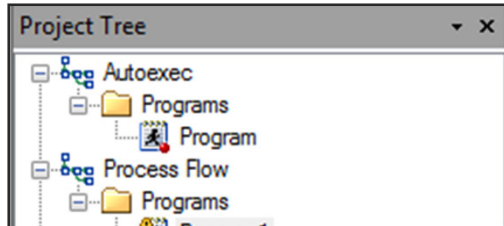
    display "Number of Stores";
define Product / display "Product";
define Sales / Sum
    "Sales";
define AverageSalesPerStore / Sum "Avg Sales per Store";

```

Autocomplete – As You Like It

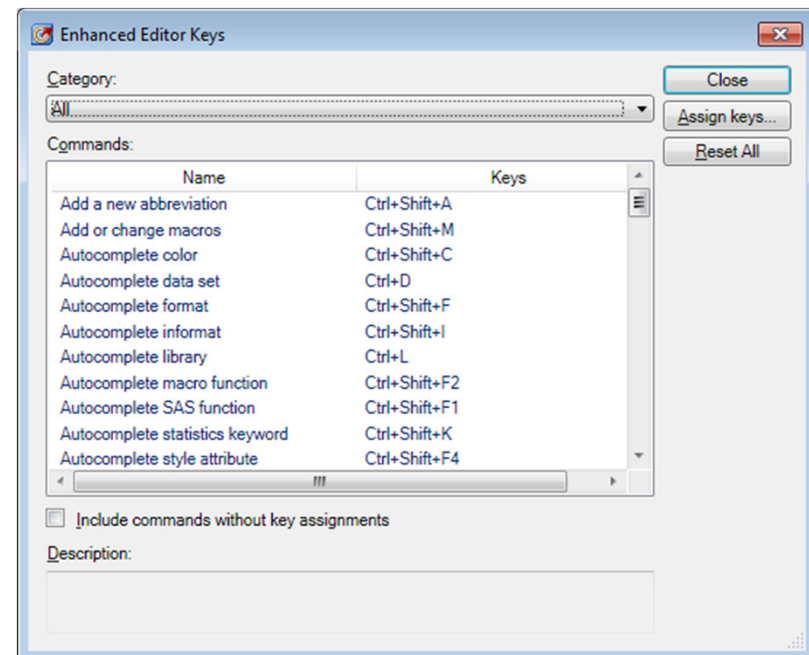


Enhanced Process Flows (i.e Autoexec)



Hot Keys

- Formats (Ctrl+Shift+F) and Informats (Ctrl+Shift+I)
- SAS Libraries (Ctrl+L)
- SAS Functions (Ctrl+Shift+F1)
- Configurable!
 - Program > Enhanced Editor Keys



Automatic Code Formatting

- Indentation
- Line Returns
- Etc.

Code Analyzer

- Runs code and creates a Process Flow
- Great for legacy code

Great References

- **New Goodies for SAS Programmers in SAS Enterprise Guide 4.3**
http://support.sas.com/documentation/onlinedoc/guide/blog/SASTalks2011_EG43_programmer.pdf
- **SAS® Enterprise Guide® 4.3: Finally a Programmer's Tool**
<http://support.sas.com/resources/papers/proceedings11/166-2011.pdf>
 - Hands-on workshop using the SHOES data from sashelp
 - Extensive coverage of new 4.3 programming features and capabilities that were introduced in 4.2 (i.e. reporting, prompting, conditional processing, etc.)
- **SAS Enterprise Guide Online Documentation**
<http://support.sas.com/documentation/onlinedoc/guide/>
- **What's New in SAS Enterprise Guide 4.3**
<http://support.sas.com/documentation/cdl/en/whatsnew/62580/HTML/default/viewer.htm#/documentation/cdl/en/whatsnew/62580/HTML/default/egwhatsnew43.htm>

Demo

- Create an EG Project based on existing code

Q & A

- Questions?

Example Code Start

```
/* Code below is a modified example of the code discussed and used more fully in the */  
/* SAS Global Forum 2011 hands-on workshop SAS® Enterprise Guide® 4.3: Finally a Programmer's Tool" */  
/* http://support.sas.com/resources/papers/proceedings11/166-2011.pdf */  
  
data Shoes_Data;  
  
set sashelp.shoes;AverageSalesPerStore = sales / stores;label AverageSalesPerStore =  
'Average Sales Per Store';run;  
  
ods listing close;  
  
  
/*****/  
  
/* Create MS Excel Workbook */  
  
/*****/  
  
ods tagsets.ExcelXP path = 'C:\Demonstrations\EG43'  
  
file='Shoes_Report.xls' style=sasweb;title "Basic Shoe Report";proc print data=Shoes_Data noobs label ;run;ods  
tagsets.ExcelXP close; ods listing;
```

Example Code Start – cont'd

```
/* Create PDF Report */
```

```
ods listing close;
```

```
ods pdf file = 'C:\Demonstrations\EG43\EG Shoes_Report.pdf';
```

```
proc report data = Shoes_Data;
```

```
column ("Location" (Region Subsidiary Stores)) Product ("Sales" (Sales AverageSalesPerStore));
```

```
define region / order "Region"; define Subsidiary / order "Subsidiary";define Stores /
```

```
display "Number of Stores";define Product / display "Product";define Sales / Sum
```

```
"Sales";define AverageSalesPerStore / Sum "Avg Sales per Store";break after region /
```

```
summarize; rbreak after / summarize;
```

```
run;
```

```
ods pdf close;
```

```
ods listing;
```