

Enhanced Editor *Enhanced*

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"Come out of the desert of ignorance to the OASUS of knowledge"

Notes

Before presentation

Load examples

outcome code description.xls

Import the Keyboard Macro

Testdata

Template

Launch SAS twice

Have you ever wished SAS® did more of your work?

- It should ...
 - make it easier to write and debug code.
 - be easier to read code.
 - find mistakes before the code is run.
 - remember where files are.
 - do some of the boring stuff.
 - **Why not even write some programs!**



Have you ever wished SAS® did more of your work?

It should:

Make the code easier to read

Make it easier to write code

Find mistakes before run the is code run

Remember where files are

Do some of the boring stuff

Why not even write some programs!

Change the scenery

- Open the windows
 - Arrange the Program, Log and Output windows
 - Have SAS® start up this way every time



Notes:

Tools, Options, Preferences

Check **“Save settings on exit”**

At the same time:

set **Recently used file list** to 30

uncheck **“Confirm exit”**

Exit SAS®... restart SAS®

Return to **Tools, Options, Preferences**

Uncheck **“Save settings on exit”**

Colour Your World

- Change the editor colours
 - Make **/*comments*/** stand out
 - Highlight Error prone syntax
 - **“Strings”**
 - **%Macro** elements
- Just remember less is more!



Notes:

Tools, Options, Enhanced Editor... Appearance

Reduce the Clutter

- Focus on the problem code by collapsing and expanding code
- Bookmark a line of code before checking some other part of the code to find the way back



Notes:

Collapse and Expand code

Collapse all code sections
Number pad –

Alt + Ctrl +

Expand all code sections
Number pad +

Alt + Ctrl +

Click the + plus or – minus in the margin to expand or collapse one section

Bookmark lines of code

Bookmark the current line (toggle)

Ctrl + F2

Go to the next bookmark

F2

Getting Around

- Hands free Auto scrolling
- Select columns
- Use the “Command Window”
 - %put _all_ to print macro variables in the log.



Notes:

Auto scrolling

On mice with a roller button press down on the roller button to engage the auto scroll.

Moving the mouse up; scrolls up. The higher you move the mouse the faster the scrolling.

Moving the mouse down; scrolls down. The lower you move mouse the faster the scrolling.

Selecting columns

with the mouse

ALT + left mouse button

with the keyboard

SHIFT + arrow keys

Command window

%put _all_ variable	Print every type of macro
%put _automatic_	Print automatic macro variables
%put _user_	Print user defined macro variables
%put _global_	Print global macro variables
%put _local_	Print local macro variables

Where is that file?

- Non-SAS[®] files can be accessed from SAS[®]
- SAS[®] can remember where they are for the next time



Notes:

Right Click **File Shortcuts, New...**

New File Shortcut, Change the **Name** field leave **Method** field as DISK

Method Information, use the browse button to select the file.

To use the shortcut from the **explorer window**, **Active File Shortcuts** select the Icon for the file.

Stop deleting your code

- On the toolbar move the “Submit” button away from the “Clear” button
- Add your own buttons to the toolbar



Notes:

Moving buttons

Tools, Customize..., Customize tab

Scroll down to the “Submit” button

Use the arrow to move the button along the toolbar

Add a Tool

Tools, Customize..., Customize tab

Add Tool Icon

Command ODSresults; clear; clear log; WnExtedit;

Help text Clear the log and output windows, then return to the edit window.

Tip text Clear Log and Output

Change Icon Pick an Icon

Let's get SAS® to help write the code

- Keyboard Macros
 - At its simplest this is a key stroke recorder
 - Program repetitive editing tasks
- Abbreviations
 - Abbreviations are keyboard macros but are not created the same way
 - For snippets of code and templates



Notes:

Keyboard macros steps

Tools, Keyboard Macro, Record New Macro.

Do one cycle of the task

Tools, Keyboard Macro, Stop Recording

Keyboard macro name: Give it a temporary name **DEL**

Click **Assign keys**

Click **Press new shortcut key:** any key not used!

Do the rest of the repetitive task

Delete the macro

Tools, Keyboard Macro, Macros...

Select the temporary macro Click **delete**

Keyboard macro example

use "Outcome Code Description.xls" to create a format

Abbreviations steps

Select and copy (**Ctrl + C**) a snippet of SAS® code

Tools, Add Abbreviations...

Abbreviation: Give it a short easy to remember name **dnull**

Paste (**Ctrl + V**) the snippet of SAS® code into the text window

When ever the key word is typed SAS® will ask if you want the code snippet included in the code.

Abbreviations Example

```
data _null_; set ; run;
```

That's all Folks

- Arranged windows are easier to see.
- Colour coding can highlight mistakes.
- Using all the interface features shorten the writing and debugging tasks.
- Explorer shortcuts remember where files are.
- Keyboard macros do repetitive tasks
- Abbreviations write programs.



Summary

Arranged windows are easier to see

Colour coding can highlight mistakes

Explorer shortcuts remember where files are

Keyboard macros do repetitive tasks

Abbreviations write programs

More information can be found ...

- Using the Enhanced Editor
 - Press F1 while in the editor window
- SAS® Online Help
- SUGI Papers
- SAS Support Website
 - WWW.SAS.COM follow the support link
 - Search for “Keyboard macros”
- Office colleagues
- Just try it out for yourself



Notes:

Creating Code Templates in the SAS® Enhanced Editor Using Abbreviations and User Defined Keywords

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