

Before presentation

Load examples

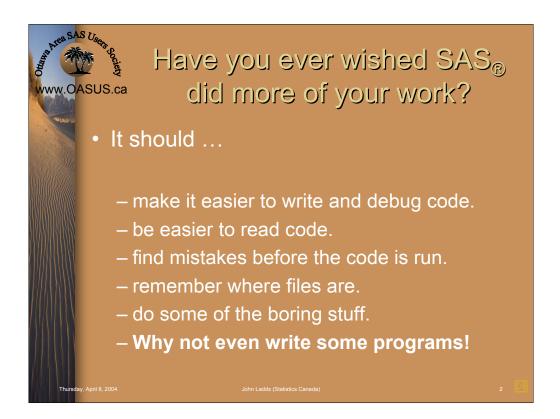
# outcome code description.xls

Import the Keyboard Macro

Testdata

Template

Launch SAS twice



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

Make the code easier to read

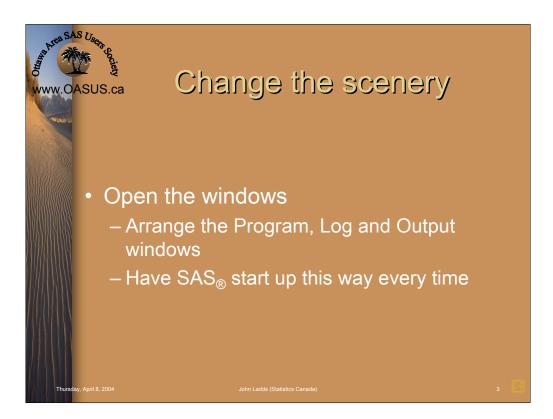
Make it easier to write code

Find mistakes before run the is code run

Remember where files are

Do some of the boring stuff

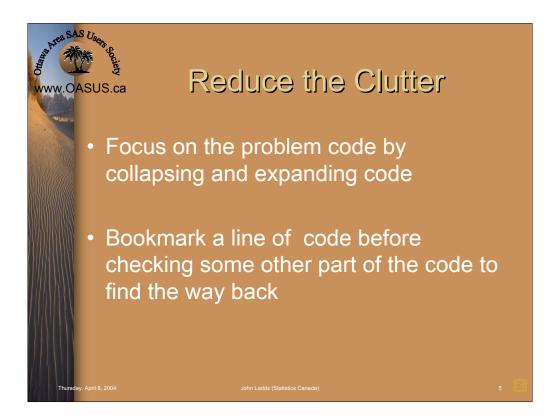
Why not even write some programs!



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"



Tools, Options, Enhanced Editor... Appearance



Collapse and Expand code

Collapse all code sections

Number pad -

Expand all code sections

Number pad +

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

Alt + Ctrl +

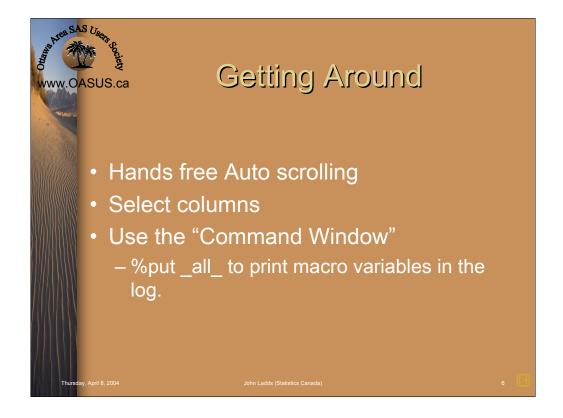
Alt + Ctrl +

Ctrl + F2

Bookmark lines of code

Bookmark the current line (toggle)

Go to the next bookmark F2



#### 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



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.



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<sub>®</sub> 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

Thursday, April 8, 2004

John Ladds (Statistics Canada

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.

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## Summary

Arranged windows are easier to see
Colour coding can high light 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<sub>®</sub> 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

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#### Notes:

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

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Practical Tips to Customize a SAS® Session Paper 240-28 SUGI 28

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