Edit the Editor: Creating *Keyboard Macros* in SAS® Enterprise Guide®

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What’s in it for you?

- Programmers repeat actions when editing
- Takes same time and effort each instance
- Learn how to create **keyboard macros**
Goal: Comment to end of line

```sas
proc print data=sashelp.class; /*(obs=5) double;*/
var age height weight;
run;
```
Four steps

1. Recording keystrokes
2. Editing keyboard macros
3. Assigning shortcuts
4. Sharing keyboard macros
1. Recording keystrokes
Start recording

- Program > Editor Macros > Macros > Create...

- Program > Editor Macros > Record New

- Ctrl+Shift+R
[typing]

```sas
proc print data=sashelp.class; /*(obs=5) double;*/
  var age height weight;
run;
```
Stop recording

- Program > Editor Macros > Stop Recording

- Ctrl+Shift+R
2. Editing keyboard macros
Open macro

- Program > Editor Macros > Macros
- Ctrl + Shift + M
Edit macro

Edit Keyboard Macro

- Keyboard macro name: CommentEOL
- Keyboard macro description: Comment to End Of Line
- Command category: All
- Commands:
  - Autocomplete abbreviations
  - Autocomplete color
  - Autocomplete data set
  - Autocomplete data set variable
  - Autocomplete format
  - Autocomplete informat
  - Autocomplete library
  - Autocomplete macro function
  - Autocomplete SAS function
  - Autocomplete statistics keyword
- Keyboard macro contents:
  - Insert character ('\n)
  - Insert character ('"')
  - Move caret to end of line
  - Insert character ('”')
  - Insert character ('/')
- Command description:

Buttons:
- Edit
- Delete
- Move up
- Move down

OK Cancel
3. Assigning shortcuts
Open macro

- Ctrl + Shift + M
Assign keys

- \textit{shortcut key}] > Assign
Demonstration: Comment to end of line

```sas
proc print data=sashelp.class; /*(obs=5) double;*/
  var age height weight;
run;
```
4. Sharing keyboard macros
Export | Import

- Program > Editor Macros > Macros > Export...
- Program > Editor Macros > Macros > Import...
- Other[s] must assign shortcut keys to macros
Conclusions

- Take note of actions you repeat when editing
- Record keyboard macro/edit/assign shortcut
- Use keyboard macros to save time and effort
- **Share keyboard macros** with others
Demo: Abbreviation macros

- **Program > Add Abbreviation Macro...**

- **Ctrl+Shift+A**

- Type abbreviation in SAS program
- `<Enter>` to insert the text
Demo: Sample keyboard macros

- Available upon request
- Import Keyboard Macro File [*.kmf]
- Use/modify/share at your discretion