

Subject **SAS Savvy December Newsletter**
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GREETINGS!

SAS Savvy December Newsletter

Happy New Year! Welcome 2018!

I hope 2018 brings you health and happiness! This year will be exciting with several great conferences to share SAS tips. The first [PhUSE US conference](#) in Raleigh, NC will be in June. I am the co-chair for the Quick Tips section. The first [SUGCDISC conference](#) will be in DC. I am on the SUGCDISC advisory committee. I hope you have the opportunity to attend at least one of these conferences. I always enjoy meeting SAS Savvy members and SAS fans!

In January, I will start my [UCSD](#) and SAS Institute India CDISC online classes again. I am excited to teach CDISC techniques to new graduates. There is still time to sign up if you are interested.

For those in Clinical Data Management or Pinnacle 21 for SDTM and ADaM compliance testing, you will be interested to learn about my new ebook, [Achieving CDISC Compliance using SAS](#). I am developing SAS techniques that can be essential for database acceptance testing, database lock testing and data checks to improve

data quality. Let me know if you are interested in learning more about the new ebook. I am also interested in identifying SAS testers.

Help spread the word about SAS Savvy. Missed the recent [SAS Savvy Open House](#)? Watch the [video recording](#) now and see what's new.

To continue to navigate SAS Savvy, you can use the standard left side menu or the new Site Mind Map which should take you to each page.

<u>SAS Job Aids</u>	<u>SAS Programming Tasks</u>	<u>Savvy Resources</u>
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These are the three levels to fit all SAS programmers. I hope these levels make it easier to find SAS papers and tips to address your questions and needs. Let me know what you think. Remember, free SAS technical support is just an e-mail away.

[Beginner SAS Programmer](#)

[Advanced SAS Programmer](#)

[Macro SAS Programmer](#)

SAS Savvy Updates

Below are updates made in December. Cannot wait till the end of the month for updates? You can subscribe to [free daily updates](#).

1. I added these great SAS papers:
 - a. [Technical Tips](#) - Know Your Data While Writing the SAS Code, Shu-Min Chuang
 - b. [Statistical Graphs](#) - Exposure-Response Plots Using SAS, Janette Garner
 - c. [CDISC](#) - Exploring Phase 1 ADaM Deriving System from SDTM, Yiwen Li
 - d. [New Clinical SAS Programmer](#) - A Programmer's Guide to Statistical Procedures, Jim Edgington
2. On the [Proc Tabulate](#) page, I added a link to this paper which shows how to use MLF option - [Using Multi-label Formats to Create Subtotals in PROC TABULATE](#), Christina Morris.
3. On the [common FAQ](#) page of Proc Tabulate, I added this question - What are popular Proc Tabulate options? See if you know the answer and let me know your favorite options.
4. On the [Proc Tabulate](#) page, I added the code and example to create population trees to see big N values for key populations as well as key categories of analysis.
5. On the [Clinical Data Management](#) page, I added these SAS papers:
 - a. CHECKING OUT-OF-RANGE DATA, Aileen Yam
 - b. Invalid: a Data Review Macro Using PROC Format Option Other=Invalid to Identify and List Outliers, Ronald Fehd
 - c. DEMOXRPT: macros for writing Exception Reports: perform range and logic checks on a data set write file of exceptions to edit and use for updates, Ronald Fehd
6. I added these great SAS papers:

- a. On [Proc Format](#) page, Formats, Informats and How to Program with Them, Ian Whitlock
- b. On [Clinical Data Management](#) page, PROC DATACHK Revisited: The DATACHK Macro, Jeffrey Abolafia, MAINTAINING QUALITY CONTROL OVER INPUT DATA WITH SAS SOFTWARE, R. Whitfield
- c. On [Proc Expand](#) page, Checking Out Your Dates with SAS, Christopher Bost

7. I added these SAS papers:

- a. [SAS Functions page](#), LAG Function Combined with Conditional Functions – Useful in Identifying Differences in Like Data, Andy Hummel, Creating Code writing algorithms for producing n-lagged variables, Matt Bates
- b [Proc SQL](#) page, PROC SQL: Tips and Translations for Data Step Users, Susan Marcella, Gail Jorgensen

8. On the [Proc Tabulate](#) page, I added an image and sample code to create population trees. These are useful table layouts to qc tables. Rows are categorical or continuous variables and columns are by variables.

9. On the [New SAS Programmer](#) page, I added a link to this paper - SAS® Programming Guidelines, Lois Levin.

10. On the [New Clinical SAS Programmer](#) page, I added a link to this paper - Industry Standard Good Programming Practice for Clinical Trials (Using SAS), Mark Foxwell

11. I added the following links to these SAS papers:

A. [New SAS Programmer](#):

- Configuring SAS to Work for You, Part 2: More Programming Shortcuts, Kim Truett
- Good Programming Practices in SAS, Jason Ford
- Notes on Programming Style, Allan Glaser
- SAS Programming Knowledge Management, Yajiang He
- Making SAS Training Stick, Christopher Bost

B. [SAS Technical Tips](#):

- Dealing with Blanks: Leading, Trailing, In-Between, Virginia Chen

12. On the [Proc Compare](#) page, I added links to these great SAS papers:

- a. Proc Compare to Validate Datasets, Angelina Cecilia Casas
- b. Demystifying PROC COMPARE : A Programming Approach, Stanley Fogleman
- c. DARE TO COMPARE Tailoring PROC COMPARE Output, Maria Reiss

13. ADaM IG 1.2 is now available for public viewing.

14. On the [Clinical Data Reporting](#) page, I added links to these great papers:

- a. Utilizing PRELOADFMT Option with User-defined Formats to Create Summary Tables, Suwen Li, Yi Hua, Daniel Li, Bob Lan
- b. Missing Categories from categorical summary report? PRELOADFMT comes to your rescue, Sapan Raval, Niraj Pandya

SAS Savvy Training

SAS Savvy training covers new SAS topics and requests. Please see the video recordings if you missed the live session. Below is the schedule for the next training sessions. As always, please [e-mail](#) me your favorite topic.

[New to Clinical Programming, No Problem!](#)

21 Feb 2018 11:00 AM • Webinar

[CDISC: What can be done with SUPPXX domains?](#)

16 May 2018 11:00 AM • webinar

Sincerely, Sunil Gupta, SAS Savvy Mentor

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