

**Boston Area SAS® Users Group (BASUG) Announcement  
On-Line Webinar Meeting**

**Wednesday, August 26, 2020  
Noon – 1:30 PM**



BASUG is thrilled to announce the next webinar of our 2020 webinar series, featuring SAS rock star Russ Lavery. Russ is famous throughout the global SAS community for his Animated Guide® presentations, which leverage animations to illustrate and explicate complex SAS processes.

This webinar is FREE to attend. A browser and a willingness to learn are all that are required to join us.

	<b>Agenda</b>
<b>11:45+ AM</b>	<b>Join the Webinar</b>
<b>12:00 PM</b>	<b>Welcome</b>
<b>12:05 PM</b>	<b>An Animated Guide® to SAS Hashing: From Your First Hash to Hash of Hashes</b> by Russell Lavery, Contractor for Numeric Resources
<b>1:25 PM</b>	<b>Closing</b>

This is a **FREE** event!

[Click here to register for the Webinar](#)

Registration is required to attend this webinar. Click the above link to register now (or at any time before 11:45 AM on the day of the meeting). After registering you will receive a confirmation email containing a link to join the webinar.

On the day of the webinar, please join a few minutes early to allow time to connect and familiarize yourself with the Zoom webinar platform. The webinar will begin promptly at 12:00.

Questions? Contact our meeting coordinators, Karen Wallace and Quentin McMullen at [Event Organizers](#).

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## Abstract and Speaker Biography

### **An Animated Guide<sup>®</sup> to SAS Hashing: From Your First Hash to Hash of Hashes**

*by Russell Lavery, Contractor for Numeric Resources*

Hashing is one of the fastest “table lookup” techniques, not just in SAS<sup>®</sup>, but in any programming language. Hashing should be part of the tool kit of every programmer who deals with large files. This animated talk, because it **shows** the data moving between the program data vector (PDV) and the hash table, reduces the mental complexity of the topic and makes hashing more understandable. This talk will start with the details of hash “under the covers” and proceed through some of the applications of hashing as a programming technique, concluding with a hash of hashes.



**Russ Lavery** is a frequent and multiple award-winning presenter at SAS Users Groups. He has presented all over the U.S., in Europe, and in Asia. He is a contractor and lives outside of Philadelphia. His hobbies include SAS, statistics, reading, salsa, bachata and tai chi.

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### **BASUG Contacts**

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