

# Entering and Running SAS® Programs

Write and submit your own SAS programs or submit existing SAS programs. This enables JMP® to be used as a client to SAS, leveraging the depth and breadth of statistical and analytical techniques in SAS.

## Entering SAS Programs

- To bring an existing SAS program into JMP:
  - From an open JMP window, select **File > Open**.
  - Browse to the desired SAS program file, and click **Open**. The SAS file will open in the SAS Program Editor window in JMP.
- To create (or cut and paste) a new SAS program from within JMP, select **File > SAS > New SAS Program** to open the SAS Program Editor.

The SAS Program Editor is color-coded for easy reference:

- Dark Blue: PROC and DATA statements.
- Blue: Keywords.
- Magenta: Text strings.
- Green: Constants.

## Running SAS Programs

To run the SAS program from the SAS Program Editor in JMP:

- Select **Edit > Submit to SAS**. (If prompted to connect to SAS, enter the appropriate details and click **OK** – see the first note below).
- The code will be sent to SAS, and the SAS output will be returned to JMP according to the **SAS Integration** preference settings.
- To view the SAS log and/or output windows if they are not already open, select **File > SAS > Open SAS Log Window** or **File > SAS > Open SAS Output Window**, respectively.

The SAS System					
The GLM Procedure					
Class Level Information					
Class	Levels	Values			
Sex	2	F M			
Number of Observations Read		31			
Number of Observations Used		31			
The SAS System					
The GLM Procedure					
Dependent Variable: Oxy					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	698.7033020	116.4505503	18.31	<.0001
Error	24	152.6782429	6.3615935		
Corrected Total	30	851.3815448			
R-Square Coeff Var Root MSE Oxy Mean					
0.820670		5.323856	2.522220	47.37581	
Source	DF	Type I SS	Mean Square	F Value	Pr > F
Sex	1	199.8124599	199.8124599	31.41	<.0001
Age	1	68.2089251	68.2089251	10.72	0.0032
Weight	1	1.8740982	1.8740982	0.29	0.5923
Runtime	1	395.4211326	395.4211326	62.16	<.0001
RunPulse	1	33.1949352	33.1949352	5.22	0.0315
RstPulse	1	0.1917511	0.1917511	0.03	0.8636

Notes:

To submit SAS code, JMP must be connected to SAS. For information on connecting to SAS, either locally or on a server, see the **Connecting to SAS** one-page guides under **Using SAS from JMP** at [jmp.com/learn](http://jmp.com/learn). For information on setting SAS preferences, see the **Setting SAS Integration Preferences** one-page guide.