Anatomy of Proc Report Statements and Options
Sunil Gupta, SASSavvy.com

Key Design Factors	Listing/Table, Formatted Dataset/Summarize, Layout (Concatenate, Nest/Across, Group), Alias/Derive Variable, Subtotals/Totals, Style
Page Style / Layout	ODS Style, Orientation (Portrait/Landscape)

Formatted Dataset	Extract Datasets from Proc Means/Proc Freq, Build Row/Section by Row/Section, Display as Proc Report Listing
Proc Report Options	nowindows nocenter missing headline headskip nofs list split='|' spacing
By Variables / Page	break after sex / < options > ; break after page / page;
Subtotal / Totals Lines	rbreak after/ ol summarize ;

Model Listing	**column** usubjid age; **define** usubjid / order; **define** age / display 'Age';
Model Summary Table	**column** sex age; **define** sex / group; **define** age / mean 'Mean Age';

Column Options	**Row** Variables **Nest** Columns , (**Group** Columns)
	Optional Optional , Required

Concatenate Columns	**column** gender age; **define** gender / display; **define** age / display;
Derive Columns	**column** (weight height bmi); **define** bmi / computed format=4.1 'BMI'; * bmi is computed from weight and height;
Alias Columns	**column** sex, (age = agen age = agemean) ; **define** sex / across center; **define** agen / analysis n; **define** agemean / analysis mean ;
Nest / Across Columns	**column** gender, age; **define** gender / across; **define** age / mean;
Column By Groups	**column** gender, (age weight); **define** gender / group; **define** age / mean; **define** weight / mean;
Row By Groups	**column** gender (age weight); **define** gender / group; **define** age / mean; **define** weight / mean;
Column Combinations	Concatenate, Derive, Alias, Nest / Across, Row / Column By Groups

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Define Options	format, 'label', style()={}, group, order, center, across (columns), analysis (num vars), noprint, width, right/left, spacing, 'label', flow
Define Summary Keywords	categorical (pctn, pctsum), continuous (n, mean, min, max, std, sum, computed, nmiss, range)

Compute Block	by group table formatting processing, derive variable, before/after <variable>, line

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compute after region;  * subtotals after by variable region ;
 region = 'Totals:';
endcomp;


compute SEX / CHAR;
 if SEX > ' ' then SEXHLD = SEX; * conditional statements are valid;
 if SEX = ' ' then SEX = SEXHLD;
endcomp;


define bmi / computed format=4.1 'BMI';
compute bmi;
 bmi = weight / (height*height) * 703;  * weight and height variables exist in input dataset;
endcomp;
```