

SAS

1: Basic Concepts

- Overview
- Introduction
- SAS Programs
- SAS Libraries
- Referencing SAS Files
- SAS Data Sets
- Variable Attributes

2: Referencing Files and Setting System Options

- Overview
- Referencing Files
- Verifying Librefs
- Other Formats
- Viewing the contents of SAS Libraries
- Setting SAS System Options
- Viewing System Options
- Additional System Options

3: Editing and Debugging SAS Programs

- Overview
- SAS Program Layout
- Interpreting Error Messages
- Correcting Errors
- Resolving Common Problems
- Additional Features

4: Creating List Report

- Overview
- Types Of Reports
- Creating a Basic report
- Identifying Observations
- Selecting Observations
- Sorting Data
- Generating Column Totals
- Specifying Titles and Footnotes
- Assigning Descriptive Labels
- Formatting Data Values

Using Permanently Assigned Labels and Formats
Additional Features

5: Creating SAS Datasets from Raw Data Files

Overview
Raw Data Files
Steps To Create Raw Data Sets
Referencing a Raw Data File
Writing a DATA step Program
Submitting a DATA step Program
Creating and Modifying Variables
Subsetting Data
Reading Instream Data
Steps to create Raw Data File
Additional Features

6: Understanding DATA Step Processing

Overview
How SAS Processes Programs
Compilation Phase
Execution Phase
Debugging a DATA Step
Testing Your Programs

7: Creating and Applying User-Defined Formats

Overview
Introduction to PROC FORMAT
Invoking PROC FORMAT
Defining a Unique Format
Associating User-Defined Formats with Variables

8: Creating Enhanced List And Summary Reports

Overview
Creating a Default List Report
Selecting Variables
Selecting Observations
Defining Variables
Defining Column Attributes
Defining Column Headings
Specifying Column Justification
Enhancing the Heading's Appearance
Defining Variable Usage

9: Producing Descriptive Statistics

Overview
Producing Frequency Tables
Creating Two-Way Tables
Creating N-Way Tables
Changing the Table Format
Suppressing the Table Information

Chapter 10: Producing HTML Output

- Overview
- Opening and Closing ODS Destinations
- Using options to Specify Links and Paths
- Changing the Appearance Of HTML Output
- Additional Features

11: Creating and Managing Variables

- Overview
- Creating and Modifying Variables
- Assigning Values Conditionally
- Subsetting Data

12: Reading SAS Datasets

- Overview
- Using BY-Group Processing
- Reading Observations Using Direct Access
- Detecting the End Of the Data Set
- Additional Features

13: Combining SAS Datasets

- Overview**
- One-to-One Reading
- Concatenating
- Interleaving
- Simple Match Merging
- Match Merge Processing

14: Transforming Data with SAS Functions

- Overview
- General Form Of SAS Functions
- Converting Data with Functions
- Manipulating SAS Data Values with Functions
- SAS Date Functions
- Modifying Character Values with Functions
- Modifying Numeric Values with Functions

15: Generating Data with DO Loops

- Constructing DO Loops
- DO Loop Execution Counting Iterations Of DO Loops
- Decrementing Do Loops
- Nesting Do Loops
- Conditionally Executing Do Loops
- Creating Samples

16: Processing Variables With Arrays

Overview
Creating One-Dimensional Array
Expanding Your Use of Arrays
Creating Temporary Array Element
Understanding Multidimensional Array

17: Reading Raw Data in Fixed Fields

Overview
Identifying Standard and Non Standard Numeric Data
Choosing and Input Style
Record Formats

18: Reading Free Format Data

Overview
Reading Free Format Data
Reading Missing Values
Modifying List Input
Reading Non Standard Values
Mixing Input Styles

19: Reading Date and Time Values

Overview
How SAS Stores Date Values
How SAS Stores Time Values
Using Dates and Times in calculations

20: Creating a Single Observation From Multiple Records

Overview
Reading Multiple Records Non-Sequentially
Line Pointer Control
Execution Of the Data Step

21: Creating a Multiple Observations from Single Record

Overview
Reading Repeating Blocks Of Data
Completing The Data Steps
Data Step Processing Of Repeating Blocks of Data