



ITÄ-SUOMEN YLIOPISTO, KUOPIO



Maanantai 26.11.

- 09:15 - 09:35 Mitä iloa SAS -osaamisesta?
- 09:35 - 12:00 SAS -ohjelmoinnin perusteet
- 12:00 - 13:00 Lounas
- 13:00 - 14:30 SAS -ohjelmoinnin perusteet
- 14:30 - 16:00 Harjoitukset osa I

Tiistai 27.11.

- 09:15 - 09:35 8 askelta analytiikkaan
- 09:35 - 12:00 SAS -ohjelmoinnin perusteet
- 12:00 - 13:00 Lounas
- 13:00 - 13:15 Analytiikan case-esimerkkejä
- 13:15 - 15:00 SAS -ohjelmoinnin perusteet
- 15:00 - 16:00 Harjoitukset osa II

Keskiviikko 28.11.

- 09:15 - 09:30 SAS e-Learning & Analytics U
- 09:30 - 10:30 SAS -ohjelmoinnin perusteet
- 10:30 - 12:00 Harjoitukset osa III

Kurssin aikana käydään läpi oheiset luvut kirjasta:

Chapter 1: Getting Started Using SAS Software

- 1.1. The SAS Language
- 1.2. SAS Data Sets
- 1.3. DATA and PROC Steps
- 1.4. The Data Step's Built-in Loop
- 1.5. Choosing a Mode for Submitting SAS Programs
- 1.6. Windows and Commands in the SAS Windowing Environment
- 1.7. Submitting a Program in the SAS Windowing Environment
- 1.8. Reading the SAS Log
- 1.9. Viewing Your Results
- 1.10. SAS Data Libraries
- 1.11. Viewing Data Sets in the Viewtable Window

Chapter 2: Getting your Data into SAS

- 2.1. Methods for Getting Your Data into SAS
- 2.2. Entering Data with the Viewtable Window
- 2.3. Reading Files with the import Wizard
- 2.4. Telling SAS Where to Find Your Raw Data
- 2.5. Reading Raw Data Separated by Spaces
- 2.6. Reading Raw Data Arranged in Columns
- 2.7. Reading Raw Data Not in Standard Format
- 2.8. Selected Informats
- 2.14. Controlling Input with Options in the INFILE Statement
- 2.15. Reading Delimited Files with the DATA Step
- 2.18. Temporary versus Permanent SAS Data Sets
- 2.19. Using Permanent SAS Data Sets with the LIBNAME Statement





Chapter 3: Working with Your Data

- 3.1. Creating and Redefining Variables
- 3.2. Using SAS Functions
- 3.3. Selected SAS Character Functions
- 3.4. Selected SAS Numeric Functions
- 3.5. Using IF-THEN Statement
- 3.6. Grouping Observations with the IF-THEN / ELSE Statements
- 3.7. Subsetting Your Data
- 3.8. Working with SAS Dates
- 3.9. Selected Date Informats, Functions, and Formats

Chapter 4: Sorting, Printing, and Summarizing Your Data

- 4.1. Using SAS Procedures
- 4.2. Subsetting in Procedures with the WHERE Statement
- 4.3. Sorting Your Data with PROC SORT
- 4.5. Printing Your Data with PROC PRINT
- 4.6. Changing the Appearance of Printed Values with Formats
- 4.7. Selected Standard Formats
- 4.8. Creating Your Own Formats Using PROC FORMAT
- 4.10. Summarizing Your Data Using PROC MEANS
- 4.11. Writing Summary Statistics to a SAS Data Set
- 4.12. Counting Your Data with PROC FREQ

Chapter 5: Enhancing Your Output with ODS

- 5.1. Concepts of the Output Delivery System
- 5.6. Creating RTF Output

Chapter 6: Modifying and Combining SAS Data Sets

- 6.1. Modifying a Data Set Using the SET Statement
- 6.2. Stacking Data Sets Using the SET Statement
- 6.4. Combining Data Sets Using a One-to-One Match Merge
- 6.11. Using SAS Data Set Options
- 6.14. Changing the Observations to Variables Using PROC TRANSPOSE

Chapter 8: Visualizing Your Data

- 8.1. Concepts of ODS Graphics
- 8.5. Creating Scatter Plots
- 8.6. Creating Series Plots
- 8.7. Creating Fitted Curves

Chapter 9: Using Basic Statistical Procedures

- 9.1. Examining the Distribution of Data with PROC UNIVARIATE
- 9.2. Creating Statistical Graphics with PROC UNIVARIATE
- 9.8. Examining Correlations with PROC CORR
- 9.9. Creating Statistical Graphics with PROC CORR

sas.com/analyticsu
akademia@sas.com

