Programming with SAS/IML(R) Software

Code:	IMLP41
Length:	0 days
URL:	View Online

This course teaches you how to use the IML procedure via the programming language. You benefit from this course if you plan to use SAS/IML for manipulating matrices, simulating data, writing custom statistical analyses, or working with R. The programs in this course require SAS/IML 12.3 or later to run.
The self-study e-learning includes:

- Annotatable course notes in PDF format.
- Virtual lab time to practice.

Skills Gained

-
- Create and manipulate matrices.
- Move data between IML matrices and SAS data sets.
- Simulate data.
- Write, store, and retrieve IML modules.
- Run SAS procedures from within IML.
- Interface with R from within IML.

Who Can Benefit

- SAS programmers, statisticians, econometricians, engineers, or others who want to use matrix algebra, simulate data, write custom statistical analyses, or work with R from IML

Prerequisites

- Before attending this course, you should:
- Have completed the SAS® Programming 1: Essentials course or understand the material within.
- Have completed the Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression course or understand the material within.
- Possess an understanding of elementary matrix algebra or linear algebra concepts and operations, including matrix dimensions, matrix addition and multiplication, matrix inversion, and scalars.

Course Details

Fundamentals of IML

-
- Creating and manipulating matrices.
- Assignment statements and operators
- accessing submatrices.

Modules, Logic, and Data

-
- Transferring data between matrices and data sets.
- Using IML modules.
- Loops and conditional logic.

Program Development

-
- Writing IML modules.
- Storage and memory.
- Efficiency and error handling.
- Calling SAS procedures from IML.

Simulating Data

-
- Random number generators.
- Monte Carlo simulation.

Working with R

-
- Setting up SAS and R.
- Transferring data between SAS and R.
- Running R analyses from IML.
- Creating R graphics from IML.

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