spmatrix — Categorical guide to the spmatrix command

Description

The `spmatrix` command creates, imports, manipulates, and exports $\mathbf{W}$ spatial weighting matrices. Listed below are the sections describing the `spmatrix` command.

Creating standard weighting matrices

spmatrix create	Create standard matrix
spdistance	Calculator for distance between places

Creating custom weighting matrices

spmatrix userdefined	Custom creation using a user-defined function
spmatrix fromdata	Custom creation based on variables in the dataset
spmatrix spfrommata	Get weighting matrix from Mata
spmatrix matafromsp	Copy weighting matrix to Mata
spmatrix normalize	Normalize matrix

Manipulating weighting matrices

spmatrix dir	List names of weighting matrices in memory
spmatrix summarize	Details of weighting matrix stored in memory
spmatrix drop	Drop weighting matrix from memory
spmatrix copy	Copy weighting matrix to new name
spmatrix save	Save spatial weighting matrix to file
spmatrix use	Load spatial weighting matrix from file
spmatrix note	Set or list note
spmatrix clear	Drop all weighting matrices from memory

Importing and exporting weighting matrices

spmatrix export	Export weighting matrix in standard format
spmatrix import	Import weighting matrix in standard format

Reference

Baum, C. F., and S. Hurn. 2021. *Environmental Econometrics Using Stata*. College Station, TX: Stata Press.

Also see

[SP] **Intro** — Introduction to spatial data and SAR models