

Description

The `spmatrix` command creates, imports, manipulates, and exports **W** spatial weighting matrices. Listed below are the sections describing the `spmatrix` command.

Creating standard weighting matrices

`spmatrix create`
`spdistance`

Create standard matrix
Calculator for distance between places

Creating custom weighting matrices

`spmatrix userdefined`
`spmatrix fromdata`
`spmatrix spfrommata`
`spmatrix matafromsp`
`spmatrix normalize`

Custom creation using a user-defined function
Custom creation based on variables in the dataset
Get weighting matrix from Mata
Copy weighting matrix to Mata
Normalize matrix

Manipulating weighting matrices

`spmatrix dir`
`spmatrix summarize`
`spmatrix drop`
`spmatrix copy`
`spmatrix save`
`spmatrix use`
`spmatrix note`
`spmatrix clear`

List names of weighting matrices in memory
Details of weighting matrix stored in memory
Drop weighting matrix from memory
Copy weighting matrix to new name
Save spatial weighting matrix to file
Load spatial weighting matrix from file
Set or list note
Drop all weighting matrices from memory

Importing and exporting weighting matrices

`spmatrix export`
`spmatrix import`

Export weighting matrix in standard format
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

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