

**spmatrix** — Categorical guide to the spmatrix command

## 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