

**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

<code>spmatrix create</code>	Create standard matrix
<code>spdistance</code>	Calculator for distance between places

### Creating custom weighting matrices

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

### Manipulating weighting matrices

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

### Importing and exporting weighting matrices

<code>spmatrix export</code>	Export weighting matrix in standard format
<code>spmatrix import</code>	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