



S-PLUS for ArcView 3.2 GIS®



S-PLUS for ArcView GIS is a powerful extension to ESRI's ArcView GIS software. With S-PLUS for ArcView GIS, you have easy access to comprehensive and modern statistics and graphics for use with your GIS and spatial data.

S-PLUS is the choice of leading professionals at major organizations because it combines leading-edge statistical functionality with the ability to create stunning, publication-quality graphics.

S-PLUS for ArcView GIS integrates the powerful statistics and publication-quality graphics of S-PLUS into ArcView GIS.

Stunning, Publication-Quality Graphs

With S-PLUS for ArcView GIS, you benefit from over eighty 2D and 3D publication-quality graph types available in S-PLUS. With so many options, you can choose the graph type which best represents your data. S-PLUS graphics are easily edited so you have complete control over every detail—just point-and-click to modify any feature of your graph.

Unique and Powerful Trellis Graphics

The unique visualization techniques in S-PLUS, such as Trellis graphics, offer you a powerful new way to explore your GIS data. With Trellis graphics, you can immediately discover important relationships between two or more variables by segmenting the relationship based on a conditioning variable. By comparing the graphical representation for subsets of your conditioning variable, you gain new insight into your data.

Classical and Modern Statistical Methods

You get more out of your data with the powerful S-PLUS statistical functionality. With over 4,200 functions, S-PLUS has a complete range of classical and modern statistical methods. Use S-PLUS functions to explore your data, find hidden outliers or exceptional values, or spot trends. You can learn more, get better results, and make better decisions.

Cutting-edge Spatial Statistics

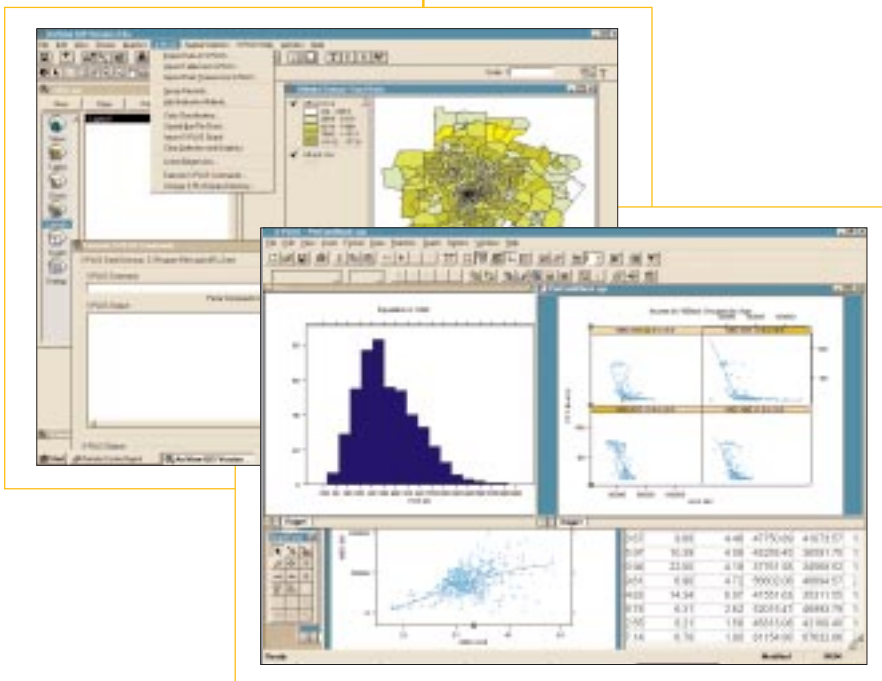
Additionally, S-PLUS for ArcView GIS provides access to spatial statistics in S+SpatialStats, an add-on module to S-PLUS. With S+SpatialStats, users can easily access comprehensive spatial data analysis and spatial statistical modeling tools for geostatistical data, lattice data, and spatial point patterns.

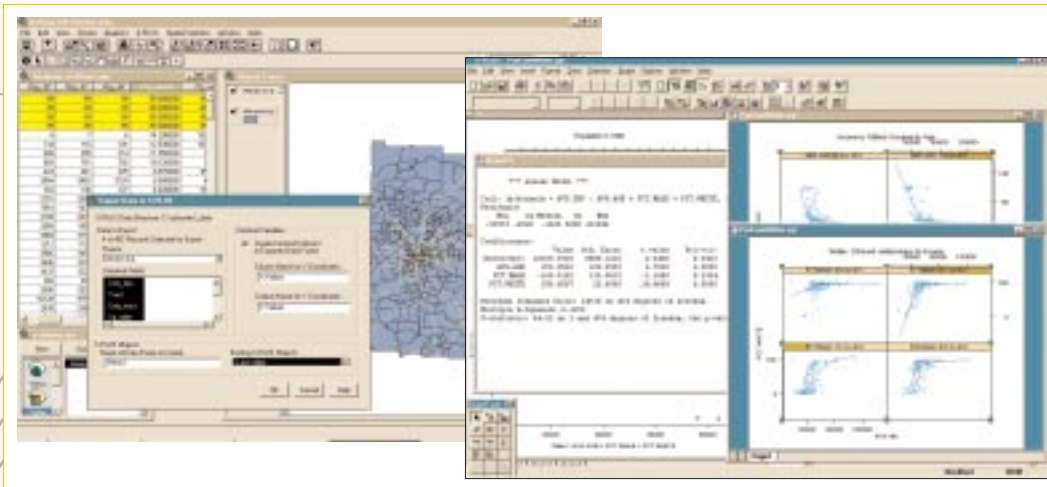
Easily Transfer Data and Results

S-PLUS for ArcView GIS makes it easy to transport data and results between the two products. Seamlessly move ArcView GIS tabular data to S-PLUS data frames and then return your graphics and analytical results to the ArcView GIS environment. S-PLUS objects are directly accessible from ArcView GIS.

For simple or complex projects, for novice or advanced analysts, S-PLUS for ArcView GIS offers the ability to quickly and easily extract valuable meaning from your GIS data.

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In addition to standard S-PLUS statistics, S-PLUS for ArcView GIS allows you to access spatial statistics available in S+SpatialStats. The powerful statistical functionality and publication-quality graphics available in S-PLUS can significantly enhance the analysis of your GIS data.

Features

- Fit linear regression models in ArcView GIS using data from themes or data frames
- Plot bar and pie charts in ArcView GIS based on S-PLUS data
- Export attribute data to S-PLUS (optionally calculate polygon centroid coordinates)
- Import S-PLUS data to ArcView GIS tables or point themes
- Import S-PLUS graphs onto a layout
- Basic S-PLUS command line interface from within ArcView GIS
- Preserve groupings and selections made in ArcView GIS for in-depth analysis in S-PLUS
- Graph Creation wizard

With the S+SpatialStats module:

- Spatial autocorrelation illustrates global relationships between variable values as a consequence of their location
- Local spatial association can highlight localized clusters of data that are spatially correlated
- Spatial regression depicts relationships between variables for each spatial unit, given their spatial locations as represented by a neighborhood structure
- Model variables may be selected from themes or S-PLUS data sets
- Supports Moran's I index and Geary's c measures of correlation
- Build neighbor weight matrices based on adjacency as well as distance between sampling units

System Requirements

- S-PLUS for ArcView GIS requires the S-PLUS data analysis package
- ArcView GIS 3.0a to 3.2 only
- S+SpatialStats module for additional spatial statistics methods (optional)
- Pentium processor with 96MB of memory running Microsoft Windows NT, ME, 95, 98, 2000.

