

ArcGIS™ Spatial Analyst

ArcGIS 3D Analyst™

ArcGIS Geostatistical Analyst

ArcPress™ for ArcGIS

ArcGIS StreetMap™ USA

MrSID™ Encoder for ArcGIS

ArcGIS™ Extensions

Optional ArcGIS Extensions

Specialized GIS Analysis

Try Optional ArcGIS Extensions Free for 30 Days!

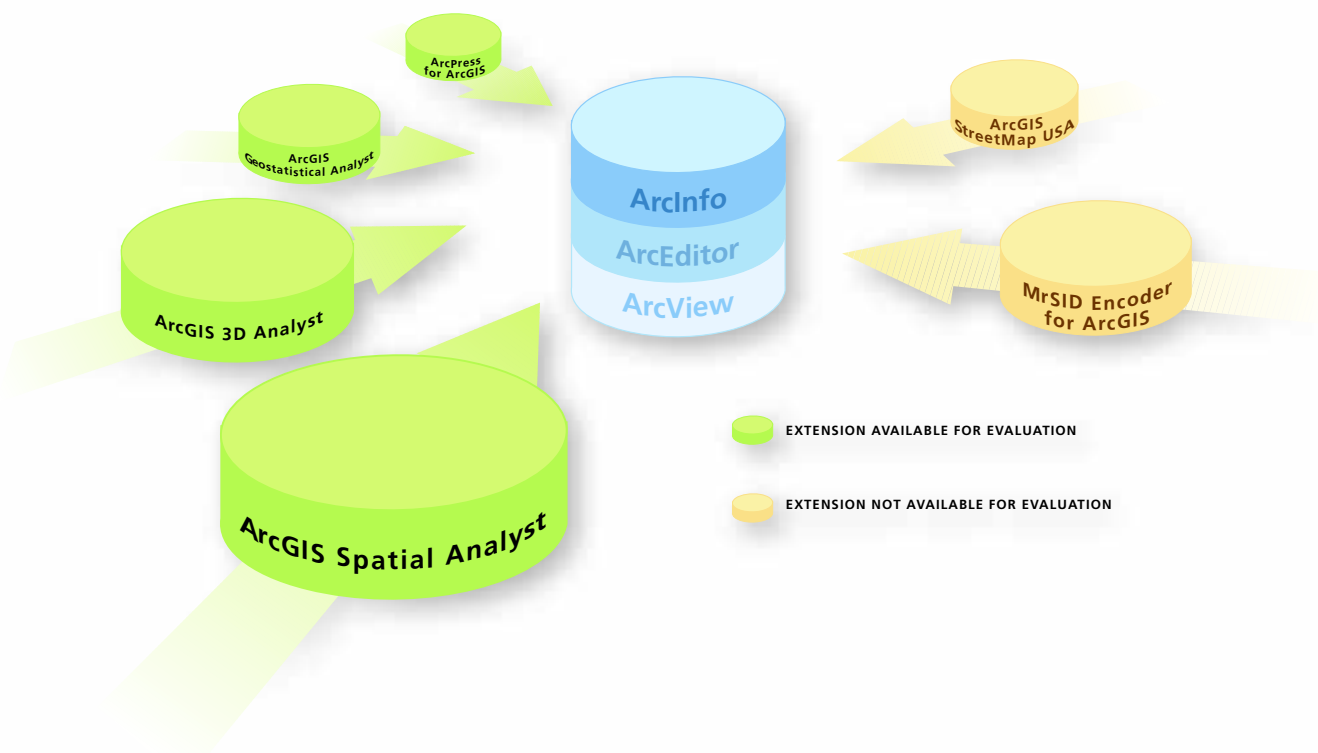
ESRI® ArcGIS™ is a family of software products built on a common architecture that form a complete geographic information system (GIS). This architecture supports a series of extensions that dramatically extend the functional capabilities of ArcGIS. All of the optional extensions can be used with each of the ArcGIS Desktop software products including ArcView®, ArcEditor™, and ArcInfo™.

Four of these extensions can be evaluated at no cost with no obligation for 30 days—ArcGIS Spatial Analyst, ArcGIS 3D Analyst™, ArcGIS Geostatistical Analyst, and ArcPress™ for ArcGIS. The evaluation software for these four extensions is included on the ArcView 8.1 Evaluation CD. To request this CD, visit the ESRI Web site at www.esri.com/extensions.

Training

Tutorials and data are included with the software. Training is also available for most of the optional extensions. For more information on instructor-led/classroom training, ESRI's online Virtual Campus training courses, and ESRI Press self-study workbooks, visit www.esri.com/training.

➔ www.esri.com/extensions



ArcGIS Spatial Analyst

Advanced GIS Spatial Analysis Using Raster and Vector Data

ArcGIS Spatial Analyst provides a broad range of powerful spatial modeling and analysis features. You can create, query, map, and analyze cell-based raster data; perform integrated raster/vector analysis; derive new information from existing data; query information across multiple data layers; and fully integrate cell-based raster data with traditional vector data sources.



ArcGIS Spatial Analyst features include the following:

- Convert features (point, line, or polygon) to rasters.
- Create raster buffers based on distance or proximity from features or rasters.
- Generate density maps from point features.
- Create continuous surfaces from point features.
- Derive contour, slope, view-shed, and aspect maps and hillshades of these surfaces.
- Perform map algebra—Boolean queries and algebraic calculations.
- Perform neighborhood and zone analysis.
- Carry out discrete cell-by-cell analysis.
- Perform grid classification and display.
- Use data from standard formats including TIFF, BIL, IMG, USGS DEM, SDTS, DTED, and many others.



TRY ArcGIS Spatial Analyst!

➔ www.esri.com/spatialanalyst



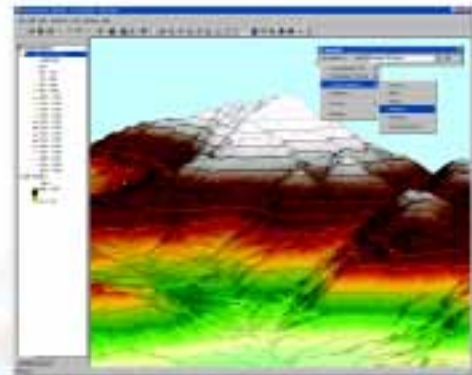
ArcGIS 3D Analyst

*Three-Dimensional Visualization,
Topographic Analysis, and Surface Creation*

ArcGIS 3D Analyst enables you to effectively visualize and analyze surface data. Using 3D Analyst, you can view a surface from multiple viewpoints, query a surface, determine what is visible from a chosen location on a surface, and create a realistic perspective image draping raster and vector data over a surface.

ArcGIS 3D Analyst features include the following:

- Build surface models from any data.
- Perform interactive perspective viewing, including pan and zoom, rotate, tilt, and fly-through simulations, for presentation and analysis.
- Model real-world surface features such as buildings.
- Model subsurface features—wells, mines, groundwater, and underground storage facilities.
- Generate three-dimensional surfaces on-the-fly from attributes.
- Apply data normalization and exaggeration on-the-fly.
- Drape two-dimensional data on surfaces and view in three dimensions.
- Calculate surface area, volume, slope, aspect, and hillshade.
- Generate contours as two-dimensional or three-dimensional shapes.
- Perform view-shed and line-of-sight analysis, spot height interpolation, profiling, and steepest path determination.
- Use any data supported in ArcGIS including CAD, shapefiles, ArcInfo coverages, and images.
- Query three-dimensional data based on attribute or location.
- Export data for display on the Web using VRML.



TRY ArcGIS 3D Analyst!
➔ www.esri.com/3danalyst



ArcGIS Geostatistical Analyst

*Statistical Tools for Data Exploration,
Modeling, and Advanced Surface Generation*

ArcGIS Geostatistical Analyst provides a powerful suite of tools for spatial data exploration and optimal surface generation using sophisticated statistical methods. Geostatistical Analyst allows you to create a surface from data measurements occurring over an area where collecting information for every possible location would be impractical. From improving estimation of temperature values, assessing environmental risks, or predicting the existence of any geophysical element, ArcGIS Geostatistical Analyst gives anyone with spatial data the ability to investigate, visualize, and create optimal surfaces. Geostatistical Analyst enables you to take advantage of these tools and techniques in a friendly and dynamic user interface.

ArcGIS Geostatistical Analyst features include

Interpolation techniques

- Inverse distance weighted (IDW)
- Global polynomial
- Local polynomial
- Radial basis functions include thin plate spline, spline with tension, multiquadratic, inverse multiquadratic, and completely regularized spline
- Kriging (ordinary, simple, universal, probability, indicator, and disjunctive)
- Cokriging (ordinary, simple, universal, probability, indicator, and disjunctive)

Spatial analytical tools are available in different combinations for each of the interpolation techniques.

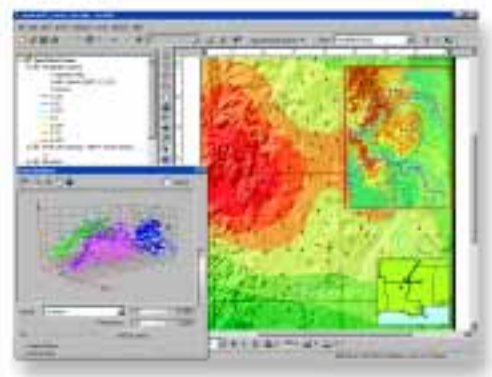
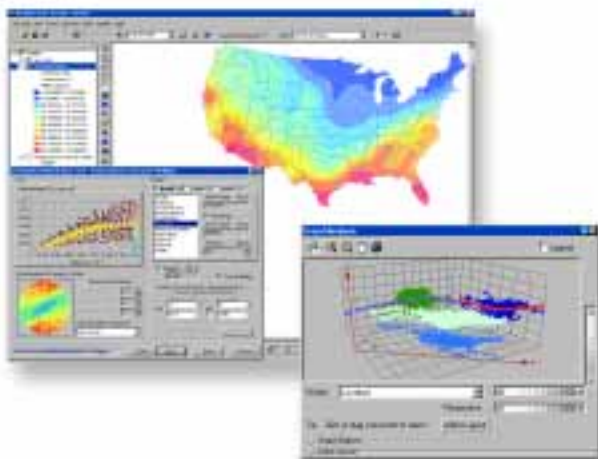
- Cross validation and validation
- Semivariograms and covariance
- Detrending
- Declustering
- Checking for bivariate normal distributions
- Data transformations
- Error modeling

Output surfaces

- Prediction map
- Error of predictions map
- Quantile map
- Probability map



TRY ArcGIS Geostatistical Analyst!
➔ www.esri.com/geostatisticalanalyst



ArcPress for ArcGIS

High-Performance Printing

ArcPress for ArcGIS is a PostScript®-based Raster Image Processor (RIP) for fast and high-quality printing and exporting of maps. ArcPress for ArcGIS translates maps into industry-standard export formats or the native language format of your printer. Because ArcPress for ArcGIS does all of its processing on your computer, you do not need to rely on the printer to interpret, translate, and store data. ArcPress for ArcGIS allows printers to do what they do best—print.

ArcPress for ArcGIS saves you money because there is no need to employ printers with extended memory, hard disks, or onboard PostScript to efficiently produce high-quality maps. It easily renders high-quality images on either high-end or low-end devices.

ArcPress for ArcGIS is easily accessed.

- Seamlessly integrated within ArcMap™
- ArcInfo Workstation print menu

ArcPress for ArcGIS features

- Supports industry-standard printers
- Renders popular bit map formats including TIFF, JPEG, PNG, and PCX
- Supports separate raster processing for even faster rendering
- Includes easy color adjustment
- Supports batch processing with simple customization

Try ArcPress for ArcGIS!
➔ www.esri.com/arcpress





ArcGIS StreetMap USA

Nationwide Address Matching and Street Map Display

ArcGIS StreetMap™ USA provides nationwide address matching and street map display for the entire United States. StreetMap layers automatically manage, label, and draw features such as local landmarks, streets, parks, water bodies, and other features. StreetMap can find nearly any address in the USA by interactively matching a single address or by batch matching from a file of addresses.

ArcGIS StreetMap USA features

- Nationwide address matching
- Street database
- Landmark database
- StreetMap theme that displays streets and landmark features
- Exports selected StreetMap USA features
- Displays the location of an address
- Creates points from addresses in a file

Supported core geocoding functions

- Geocodes and finds a single address
- Geocodes addresses from tabular data files
- Rematches and reviews addresses with an interactive review dialog box
- Street intersection matching
- Place name alias matching
- Alternate names in reference data matching
- Allows automatic updates of the geocoded result when records in the address table are modified with the editing tool
- Controls geocoding preferences such as point distance offset, end offset, spelling sensitivity, minimum match score, multiple street intersection connectors, and automatic matching if candidates tie in score

➔ www.esri.com/streetmapusa

MrSID Encoder for ArcGIS

The MrSID™ Encoder for ArcGIS enables you to efficiently reduce the size of very large georeferenced images in ArcGIS. MrSID's ability to encode large image files into smaller-sized, high-quality MrSID files makes it ideal for use with maps, satellite images, and aerial photographs. MrSID reduces many image file sizes by at least 95 percent while maintaining the geometric accuracy of the original image. The MrSID Encoder included with ArcGIS has the ability to handle rasters up to 50 MB in size. The optional MrSID Encoder extension enables the encoding of rasters up to 500 MB in size and allows the mosaicking of multiple images into a single image file.

MrSID Encoder for ArcGIS features

- Encode images up to 500 MB
- Mosaic images into a single file

➔ www.esri.com/mrsidencoder



For more information on the ArcGIS optional extensions, visit www.esri.com/extensions

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For more than 30 years ESRI has been helping people manage and analyze geographic information. ESRI offers a framework for implementing GIS in any organization with a seamless link from personal GIS on the desktop to enterprisewide GIS client/server and data management systems. ESRI GIS solutions are flexible and can be customized to meet the needs of our users. ESRI is a full-service GIS company, ready to help you begin, grow, and build success with GIS.

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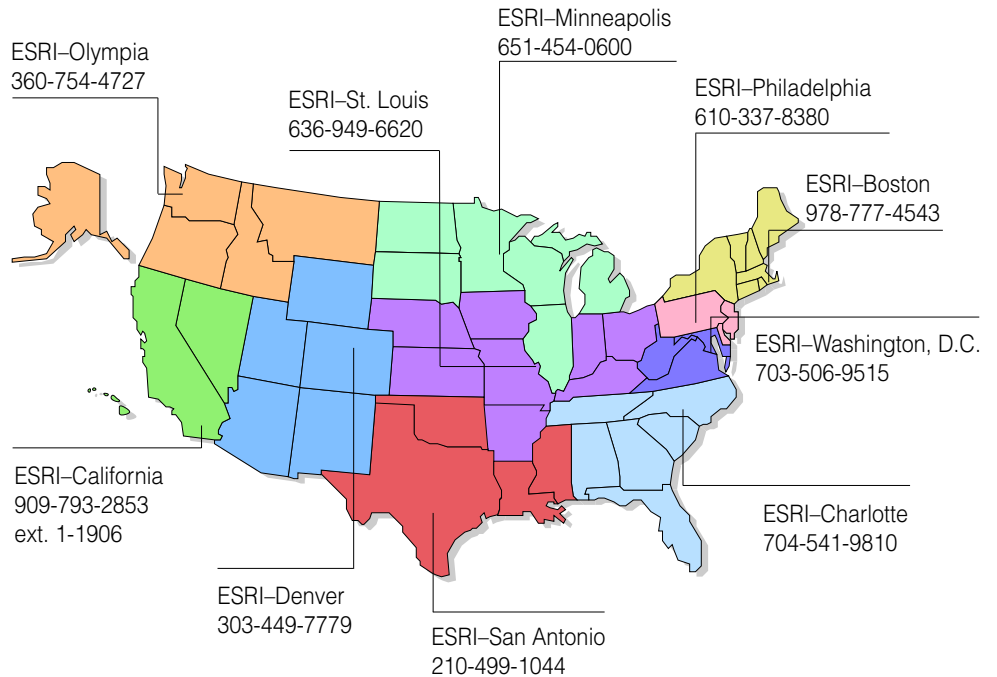
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