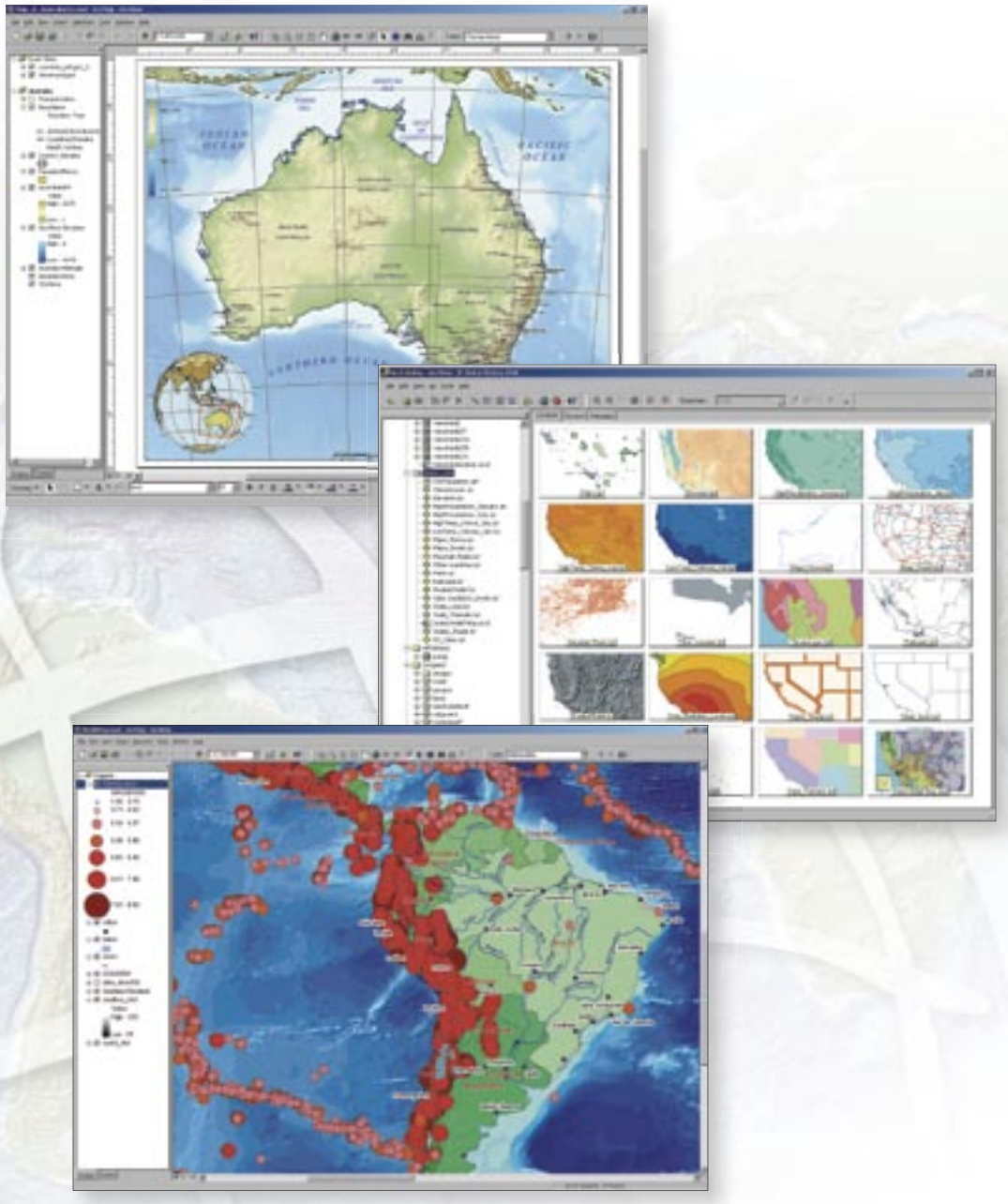
ArcView® 9

Desktop GIS for Mapping, Data Integration, and Analysis

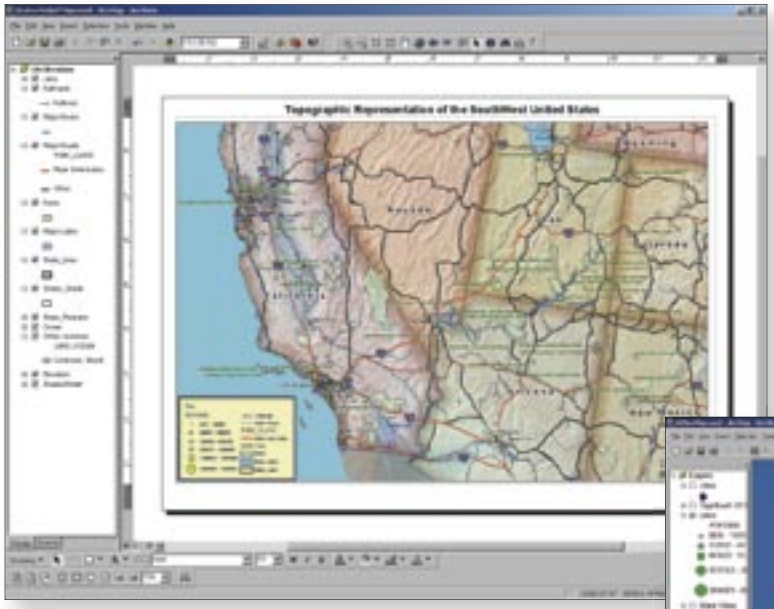


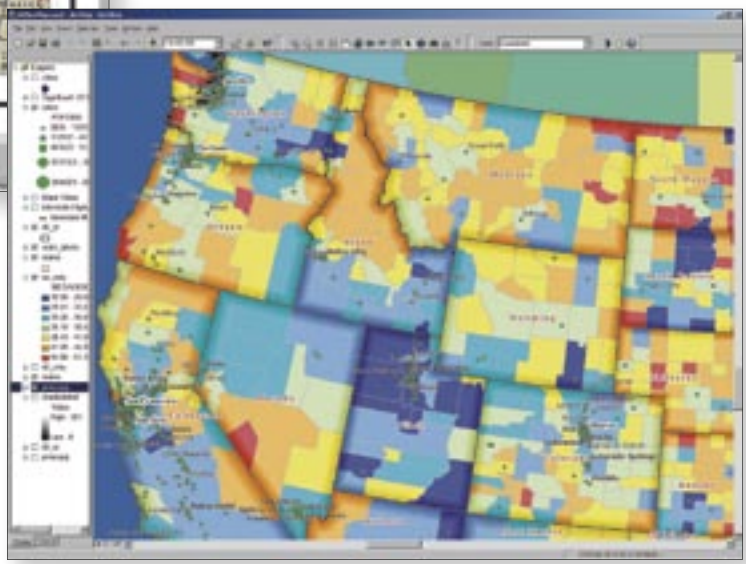
ArcGIS™ ESRI

ESRI®

ArcView®

Desktop GIS for Mapping, Data Integration, and Analysis





ArcView® is full-featured geographic information system (GIS) software for visualizing, managing, creating, and analyzing geographic data. Using ArcView, you can understand the geographic context of your data, allowing you to see relationships and identify patterns in new ways. ArcView helps tens of thousands of organizations make better decisions and solve problems faster.

With ArcView, you can

- Leverage geographic data to make better decisions.
- View and analyze your spatial data in new ways.
- Build new geographic data sets quickly and easily.
- Create publication quality maps.
- Manage all your file, database, and Internet data resources from a single application.
- Customize the user interface around the tasks that you need to accomplish.

Why Use ArcView?

Most data has a geographic component that can be tied to a place: an address, postal code, global positioning system location, census block, city, region, country, or other location. ArcView lets you visualize, explore, and analyze geographic data, revealing patterns, relationships, and trends that are not readily apparent in databases, spreadsheets, or statistical packages.

GIS for Everyone™

ArcView is a powerful tool for the management, display, query, and analysis of spatial information. ArcView is an exceptional stand-alone desktop GIS as well as the entry point to ArcGIS®, an integrated and scalable family of GIS software products. The ArcGIS family of products represents the most comprehensive and flexible suite of GIS software available on the market today. ArcGIS reflects ESRI's more than 30 years of experience in providing high-quality GIS software and related services.

A New Era

ArcView is the most widely used desktop GIS software in the world because it provides an easy way for everyone to use geographic data. With a large array of symbols and cartographic capabilities, you can easily create high-quality maps. ArcView makes data management and editing painless tasks that can be accomplished by anyone in your organization. Virtually any geographic data provider can make data available in ArcView software-compatible format. Because data can be integrated from almost any source, projects can get started right away with data that is available locally or on the Internet.

Geography Is Key

GIS is the technology that brings information together. By linking spatial data with other information, GIS has the power to help you solve problems you encounter every day. GIS can be used to track customer sales, analyze crime patterns, route delivery trucks, display soil types, find the best location for an expanding business, and much more.

The Premier GIS Solution

More than 500,000 copies of ArcView are in use worldwide. ArcView helps thousands of organizations understand spatial relationships in their data, make better decisions, and solve problems faster. ArcView can create intelligent, dynamic maps using data from a wide range of popular data sources. ArcView includes tools and data you can use immediately to perform state-of-the-art GIS analysis and map creation.

Who Uses ArcView?

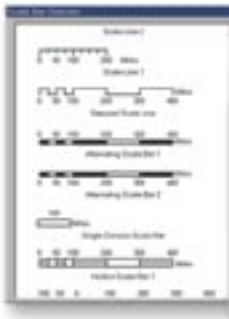
ArcView helps thousands of organizations understand spatial relationships in their data, make better decisions, and solve problems faster. ArcView is used by people around the world in a wide range of industries and applications.

- City and county governments manage local zoning, land use, and property tax assessments.
- Law enforcement teams track and analyze crime incidents.
- Real estate developers locate new commercial development sites.
- Fire and rescue services officials map fire spread, property damage, and resource allocation.
- Utility companies map services and customers.
- Bankers map mortgage loans.
- Marketing professionals analyze demographic data to target advertising expenditures.
- Environmental agencies visualize pollution in 2D or 3D.
- Military commanders analyze tactical plans.

Key Features

Built with an intuitive Windows®-based graphical user interface, ArcView is simple and easy to use and includes exceptional online help and extensive documentation. ArcView can be used out of the box but can also be customized by developers using industry-standard programming languages.

With ArcView, you can create intelligent, dynamic maps using data from a wide range of sources. ArcView includes tools and data you can use immediately to perform state-of-the-art GIS analysis and map creation.



Scale Bar Selector

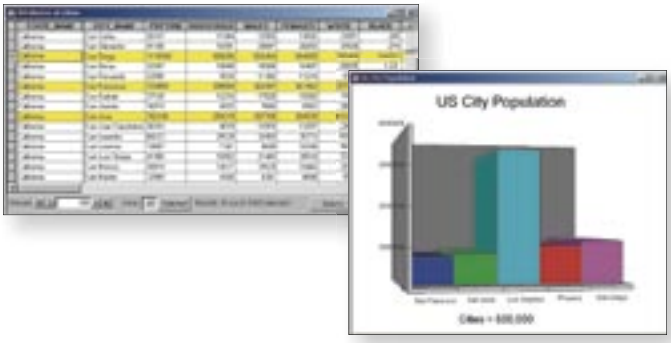
Extensive Data Use and Management

ArcView makes it easy to integrate all types of data for visualization, mapping, query, and analysis. More than a decade ago, ArcView pioneered the ability to directly read data, and today it is a universal integration system. A number of tools are also included in ArcView to manage, create, and organize geographic data, tabular data, and metadata.

Legend Wizard

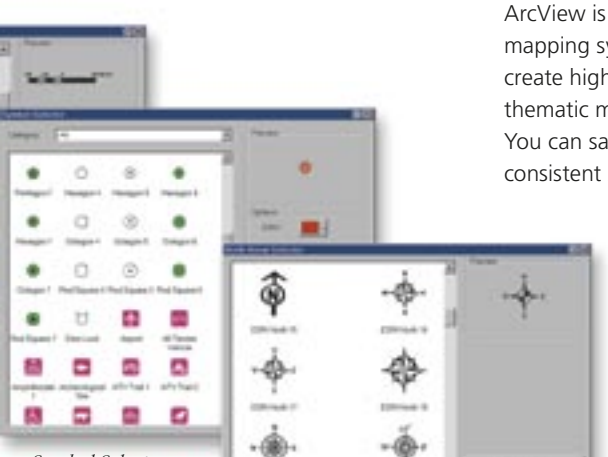
Rich Suite of Data Editing Tools

ArcView provides a rich environment for data capture and editing. ArcView can be used for all aspects of the GIS project cycle including data capture and maintenance, integration, analysis, mapping, and visualization.



Quality Mapping

With ArcView, you can author maps using easy-to-use wizards and an extensive suite of map elements. ArcView is more than a simple desktop mapping system; it can be used to create high-quality topographic and thematic maps suitable for publication. You can save time and create a consistent style in your maps using predefined map templates. Completed maps can be printed, exported, saved, or embedded in other documents or applications.



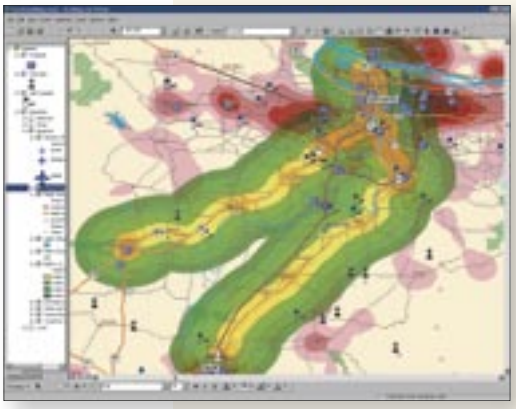
Symbol Selector

North Arrow Selector

Spatial Analysis

ArcView includes a set of map analysis tools and procedures that help you analyze geographic information including evaluating suitability and capability, estimating and predicting, and interpreting and understanding spatial information.

ArcView includes a set of highly interactive tools for performing spatial and attribute analysis. These include tools for selection based on attribute values and location as well as basic overlay tools for calculating relationships between various data sets.



ArcView includes tools for tasks ranging from data import/export, data validation, and data analysis. All of these tools can be used in interactive dialogs, visual models, command lines, and scripts. The ModelBuilder™ in ArcView allows you to easily build complex models of any of the geoprocessing tools including models such as site location and suitability analysis.

Key Features

- Easy-to-use interface.
- Integration of maps, tables, graphs, reports, and multimedia.
- Cartographic wizards.
- High-quality map composition.
- Powerful yet easy-to-use labeling and text tools.
- Thousands of industry/application-specific symbols.
- Geographic hot links to additional data.
- Advanced analysis capabilities.
- Analysis tools for operations such as buffer, dissolve, merge, clip, intersect, and union.
- Address matching (geocoding).
- Projection on the fly (raster and vector data).
- Geographic data editing tools.
- Create and browse metadata.
- Data conversion utilities.
- Use data directly from Internet.
- Integrate a wide variety of data sources including image and computer-aided design data.
- Seamless client/server access to data warehouses.
- More than seven CDs of spatial data.
- Enhanced report writing using Business Objects Crystal Reports®.
- Self-paced tutorials.
- Detailed, easy-to-follow user manuals.
- Comprehensive online help.
- Completely customizable.
- Includes Visual Basic® for Applications (VBA) for customization.
- Comprehensive developer environment.
- Intensive modeling environment
- Expand analysis capabilities using optional extensions.
- Support for displaying, editing, and linking tabular data.

Platforms

ArcView 9 software runs on

- Microsoft® Windows NT® 4
- Microsoft Windows 2000
- Microsoft Windows XP

Application Development

Specialized Solutions

Mapping and GIS professionals and developers can leverage the power of ArcView to develop custom applications. ArcView includes the tools you need to create specialized solutions for your mapping and GIS applications.

ArcView includes three levels of customization. The simplest of these does not require any programming. Users can easily personalize the look and feel of ArcView with standard user interface capabilities. For example, toolbars can be turned on and off, and tools can be moved or removed.

The second level of customization involves using the built-in VBA scripting capabilities to add new menus, tools, and work flows to the ArcView applications. VBA is a very good choice for small- to medium-sized applications that use or extend existing ArcView applications and/or functions.

The third level of customization allows for custom tools, applications, and new functionality to be added to ArcView. ArcView is built on a technology framework known as ArcObjects™. ArcObjects is a collection of software components that developers can use to build custom applications. Developers can work with ArcObjects using Visual Basic, .NET Visual C++®, Delphi™, or any standard COM-compliant language.

ArcView Customization

Personalize the User Interface

- Drag and drop customization.
- Dockable toolbars.
- Add and remove buttons and menu items.

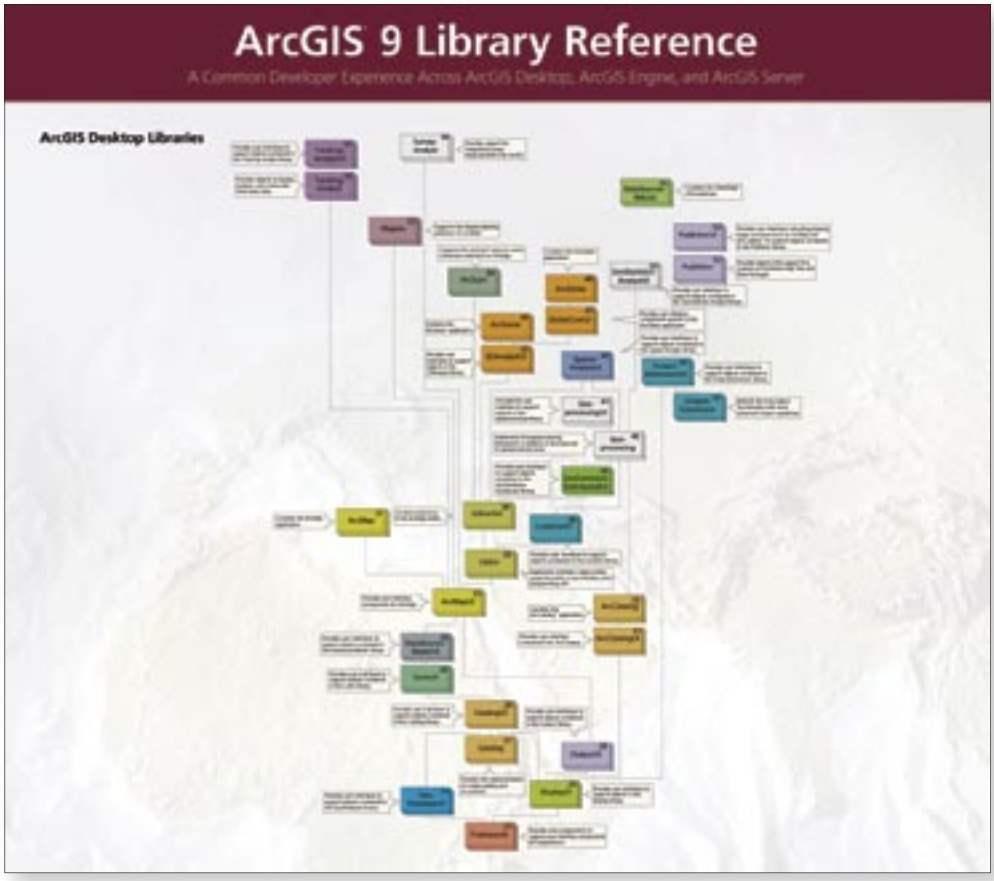
Customize Applications

- Add custom scripts for actions.
- Use built-in VBA.

Extend the Applications

- Add custom tools using COM.
- Use any COM-compliant programming language: VB, .NET C++, Delphi, etc.

Visit www.esri.com/arcobjects for sample code, technical documents, and object model diagrams.



ArcGIS Extensions

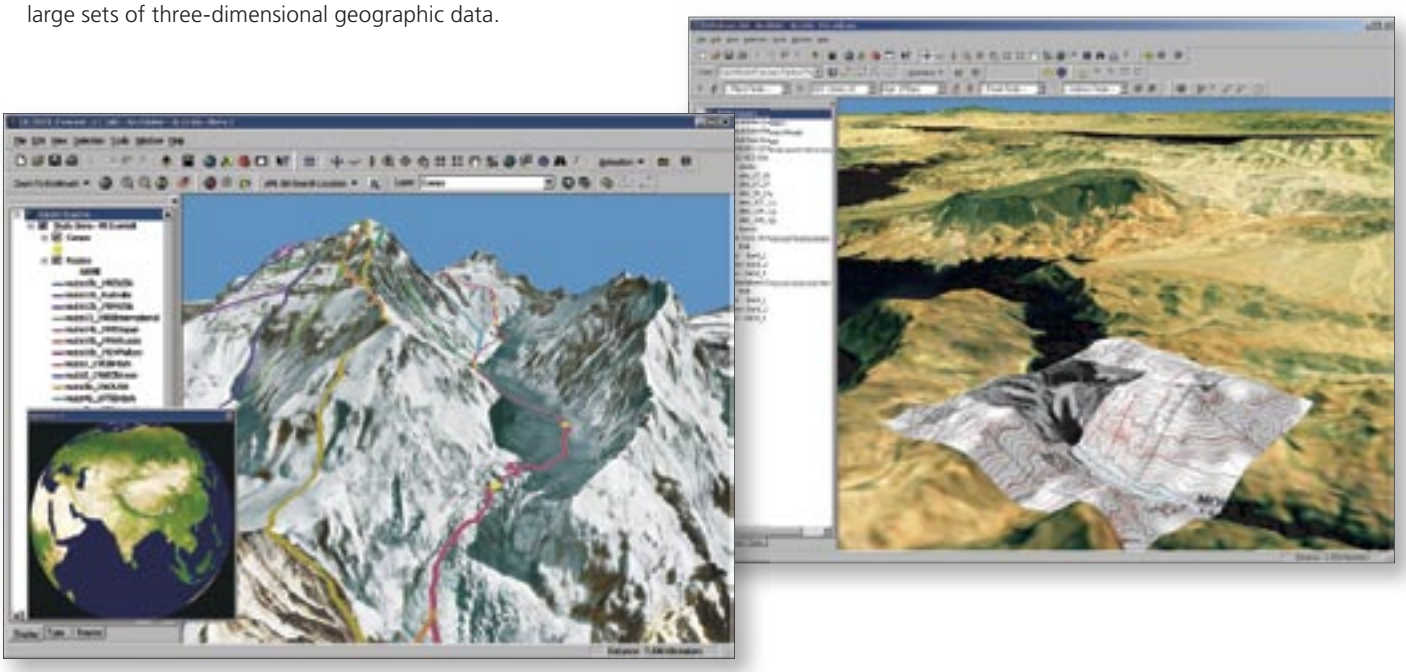
Specialized GIS Analysis

ArcGIS 3D Analyst

Three-Dimensional Visualization and Analysis

ArcGIS 3D Analyst™ is an ArcGIS Desktop extension that enables users to effectively visualize 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 by draping raster and vector data over a surface. 3D Analyst provides tools for viewing multiple layers of three-dimensional data and for creating and analyzing surfaces. It also has the ability to seamlessly manage and visualize, at a local or global perspective, extremely large sets of three-dimensional geographic data.

As part of the ArcGIS family of products, ArcView features an extensive software architecture that delivers a scalable platform for GIS. This architecture allows a series of modules (extensions) to be added, mixed, and matched to dramatically extend the functional capabilities of ArcView.

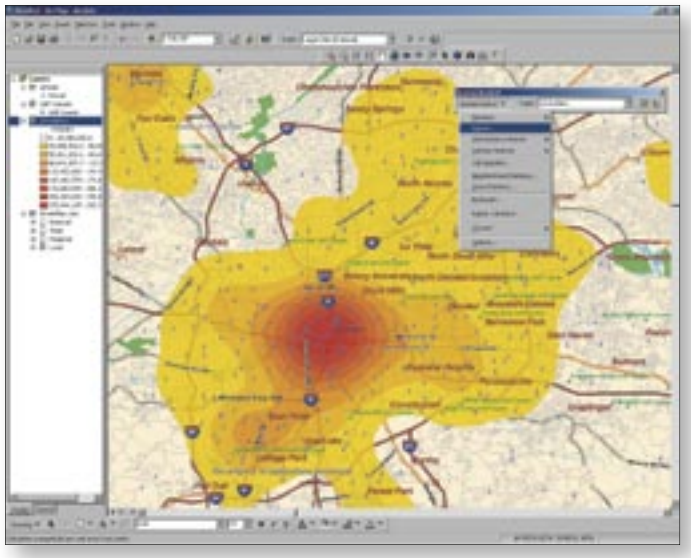


ArcGIS 3D Analyst

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.



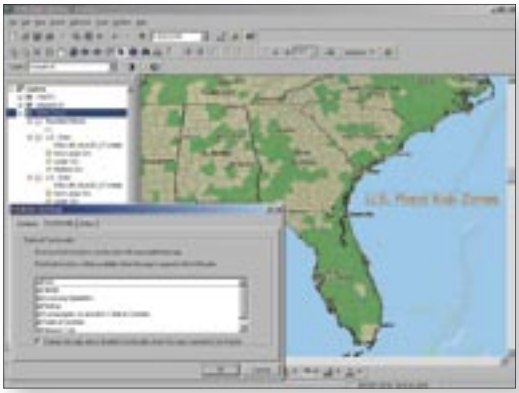
ArcGIS Spatial Analyst

ArcGIS Extensions (continued)

ArcGIS Publisher

Map and Data Publisher for ArcGIS

ArcGIS Publisher converts ESRI® map documents to published map files (PMFs). PMFs are viewable through ArcGIS Desktop products including ArcReader™, a free, downloadable product from ESRI.



ArcGIS Publisher

ArcGIS Tracking Analyst

Time-Based Data Visualization and Analysis

ArcGIS Tracking Analyst provides capabilities for sophisticated visualization, exploration, and analysis of time-related data. You can reveal time-related trends or phenomena, allowing you to see where and when an event occurred. You can "replay history" and observe how any time period (hour, day, week, month, etc.) is associated with the occurrence or location of various events. ArcGIS Tracking Analyst allows users to observe temporal data with either future time windows for mission planning or past time windows for historical analysis.

ArcGIS Tracking Analyst

Maplex for ArcGIS

Advanced Cartographic Text Placement and Labeling

Maplex for ArcGIS is an advanced cartographic text placement extension for ArcView, ArcEditor™, and ArcInfo®. Using a comprehensive set of placement options, Maplex for ArcGIS automatically positions text to a high cartographic standard. Maplex for ArcGIS generates clear, well-placed labels that minimize (or eliminate) the need for manual editing. The text is placed quickly without overlap or ambiguity and with the best aesthetic quality, reducing map production time and costs.

Maplex for ArcGIS

ArcGIS Geostatistical Analyst

Statistical Tools for 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. Through a series of easy-to-use wizards and dialogs, ArcGIS Geostatistical Analyst allows you to create a surface from a set of data measurements when collecting information for every possible location would be impractical. Whether 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.

ArcPress for ArcGIS

High-Performance Printing

ArcPress™ for ArcGIS is a print rasterizer for fast and high-quality printing and exporting of maps. ArcPress for ArcGIS transforms maps into 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.

ArcScan for ArcGIS

Raster to Vector Conversion

ArcScan™ for ArcGIS provides a powerful and easy-to-use set of tools for raster to vector data conversion. ArcScan lets you create line and/or polygon vector features directly from raster images by interactively tracing the image. ArcScan also provides batch vectorization capabilities to create vector features from a selected area or the entire image. ArcScan provides simple raster editing tools to erase or fill in areas of the raster prior to performing batch conversion to increase efficiency and minimize postprocessing.

ArcGIS StreetMap

Nationwide Address Matching, Routing, and Street Mapping

ArcGIS StreetMap™ provides nationwide address matching and street map display. ArcGIS StreetMap layers automatically manage, label, and draw features such as local landmarks, streets, parks, water bodies, and other features. ArcGIS StreetMap can geocode addresses by interactively matching a single address or by batch matching from a file of addresses.

ArcGIS Schematics

Automatic Schematic Generation for ArcGIS

ArcGIS Schematics is an innovative solution for the automation of schematic representations of ArcGIS geodatabases. ArcGIS Schematics allows for better management and visualization of virtually any linear network such as electric, gas, water/wastewater, and telecommunications.

ArcGIS Business Analyst

Advanced Business Analysis With a Complete Data Set

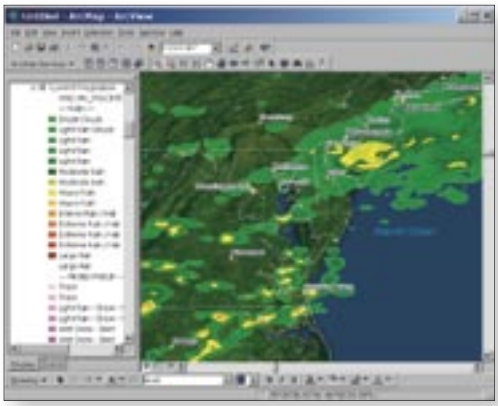
ArcGIS Business Analyst combines ESRI's leading GIS technology with extensive business, demographic, and consumer household data to assist users with mission critical business decisions such as analyzing trade area markets and competition, finding the ideal site for a new store location, or targeting direct mail. ArcGIS Business Analyst lets users perform sophisticated business analysis in one easy-to-use application.

ArcGIS Business Analyst

ArcGIS Survey Analyst

Integrating and Managing Survey Data in GIS

ArcGIS Survey Analyst adds a rich suite of survey measurement-based processing and analysis tools for improving the spatial accuracy of features and determining the quality of feature locations. ArcGIS Survey Analyst enables you to work with survey observations from field notes, survey equipment, and data collectors and store the survey data directly in a GIS database. ArcGIS Survey Analyst provides the tools to support organizations in which surveyors and GIS technicians work together in a single integrated environment.



ArcWeb Services

ArcWeb Services

On-Demand GIS Data and Capabilities Over the Web

ArcWeb℠ Services give you access to both GIS content and GIS capabilities on demand when needed, eliminating the overhead of purchasing and maintaining large data sets. With ArcWeb Services, data storage, maintenance, and updates are handled by ESRI. You can access dynamic, up-to-date content and capabilities directly using ArcGIS, or you can use ArcWeb Services to build unique Web-based applications.

ArcGIS Data Interoperability

Direct Read, Transformation, and Export of Data

Jointly developed by ESRI and Safe Software, the Data Interoperability extension for ArcGIS 9 Desktop eliminates barriers for data sharing by providing state-of-the-art direct data access, data transformation, and export capabilities. This development will allow ArcGIS Desktop users to easily use and distribute data in many formats.

ArcView Support Services

A Long-Term Commitment to Your Success

ArcView Support Services

ESRI has a long-standing commitment to serving and responding to the GIS user community, which is exemplified by its breadth of support services. ArcGIS support services consist of technical maintenance programs designed to meet the needs of different types of users, software releases and updates, technical support, online support services, publications, and consulting services.

ArcView Maintenance Program

The ArcView maintenance program is a cost-effective program that includes software updates, technical support, and many other benefits. Maintenance is offered as an annual subscription, making it easy to plan for the cost of support and software updates. Users who subscribe to maintenance receive 12 months of technical support for one authorized caller and all software updates occurring during those 12 months. For more information, visit www.esri.com/avmaint.

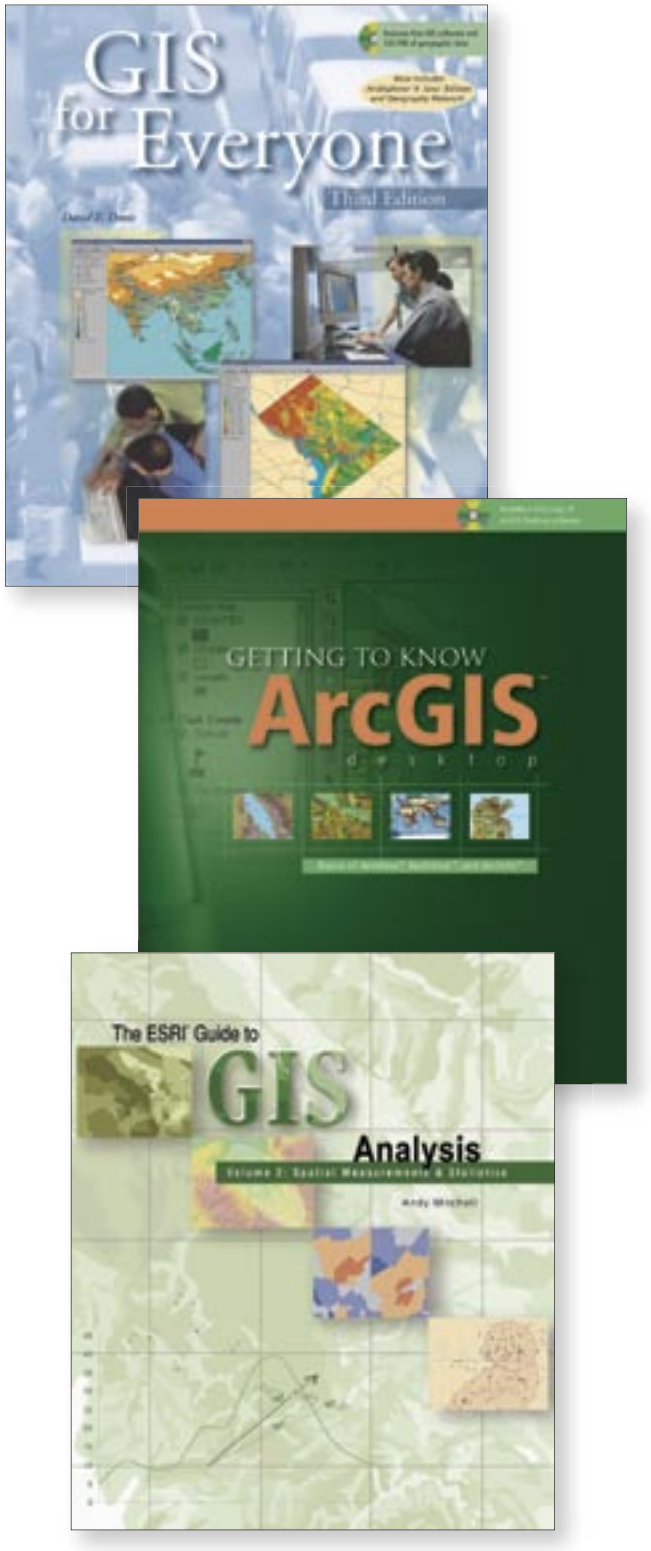
Technical Support

ESRI offers a rich array of technical support, and user community resources are available to help you meet your GIS challenges. From 24/7 technical support to user groups online and free resources available to the community, ESRI has the tools to make you successful. For more information, visit http://support.esri.com.

Training

ESRI's instructor-led courses are offered at ESRI facilities and client sites around the world. Courses are developed by education specialists who are experts in ESRI software and industry applications.

ESRI's Virtual Campus is a leader in GIS education on the Web, making GIS courses and a global GIS learning community accessible to anyone with an Internet connection.



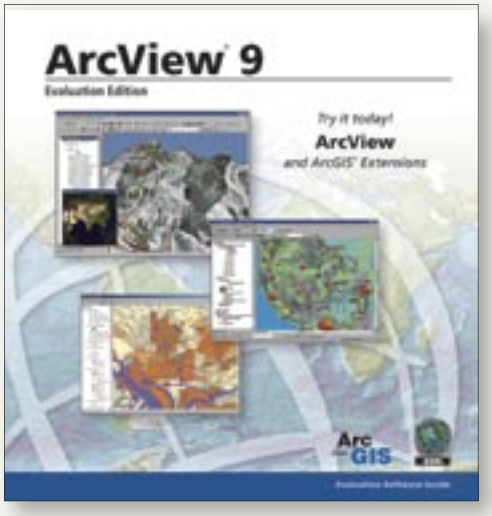
Professional Services

GIS professionals offer consulting, design, programming, and implementation services as well as database design and assistance in data publishing. For more information, visit www.esri.com/consulting.

Publications

ESRI Press books and workbooks on geographic information science, GIS technology, and GIS applications are used in formal university and corporate training programs everywhere. Publications help the first time learner as well as the professional user. Publications are available through major booksellers and from ESRI at www.esri.com/esripress.

Try ArcView 9 Today



For more information and to order the *ArcView 9 Evaluation Edition* CD set, visit www.esri.com/arcview.

For more than 30 years ESRI has been helping people manage and analyze geographic information. ESRI offers a framework for implementing GIS technology 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.

Corporate

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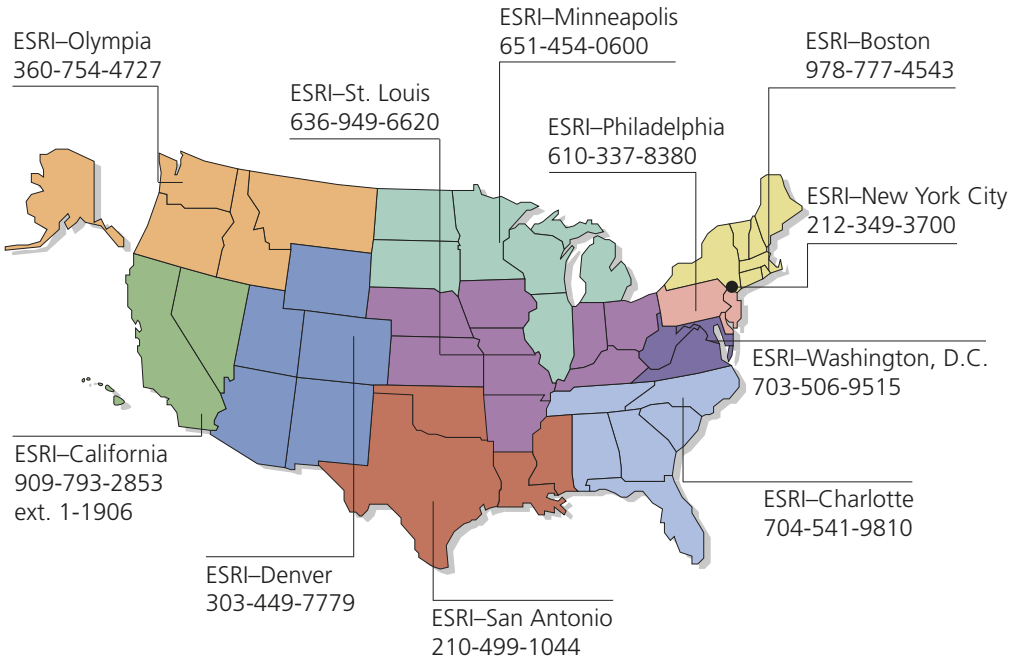

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