MapObjects ™

*Embeddable GIS and Mapping Components
for Application Developers*

MapObjects

Embeddable GIS

Mapping and GIS Components for Application Developers

MapObjects™ is a powerful collection of mapping and geographic information system (GIS) components from Environmental Systems Research Institute, Inc. (ESRI). MapObjects consists of an ActiveX™ Control (OCX) and over thirty programmable ActiveX Automation Objects that let application developers add dynamic mapping and GIS capabilities to applications. MapObjects can be used with a variety of industry-standard programming environments, such as Visual Basic®, Delphi®, Visual C++®, and others, so you can build applications quickly and easily.

"MapObjects' seamless integration with the development environment, highly polished appearance and behavior, and ability to quickly create working applications makes it an exciting package."

James A. Farley,
Technical Director,
Center for Advanced Spatial Technology

GIS by ESRI at Work in Your Applications

Because MapObjects is from ESRI®, the world leader in GIS, you can be assured that you are getting industry-standard, technologically superior mapping and GIS components. MapObjects enables application developers, data publishers, and Spatial Database Engine™ (SDE™) developers, as well as "in-house" developers, to add dynamic, data-driven maps and GIS capabilities to Windows 95® and Windows NT® applications. By using MapObjects you can

• Pan and zoom through multiple map layers.

• Perform spatial analysis and queries.

• Display data using classifications, graduated symbols, labeling, and dot density.

• Display a wide variety of image formats.

• Use relational databases and SQL queries.

• Perform address geocoding.

• Track real-time events (GPS).

• Spatially enable your Web site.

MapObjects includes a large collection of sample applications complete with source code so you can start building applications immediately. Excellent hard-copy documentation includes "Building Applications with MapObjects," "MapObjects Programmer's Reference," and "Getting Started with MapObjects."

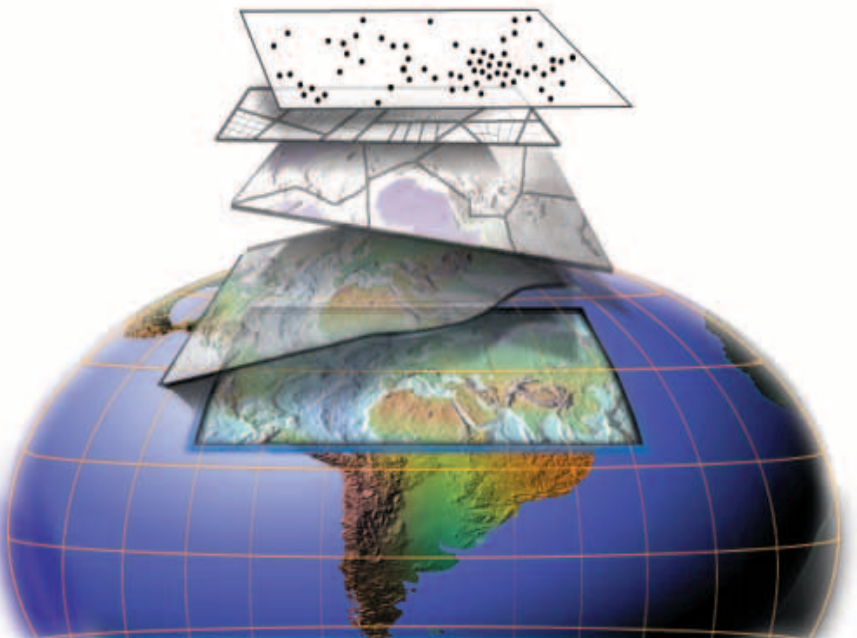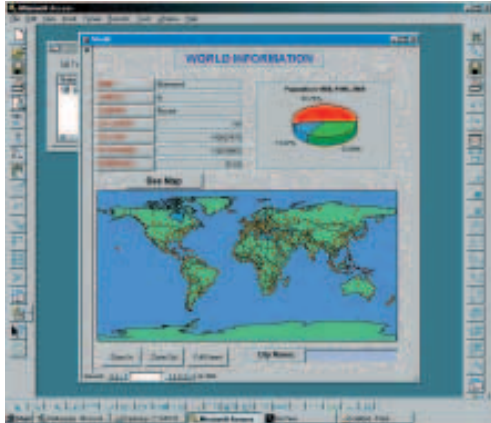## For Use in Standard Programming Environments

MapObjects is built on the Microsoft® ActiveX architecture, the key software integration architecture in the desktop computing industry today. The MapObjects ActiveX Control can be plugged into a wide variety of popular development frameworks, such as Visual Basic, Access, Delphi, Visual C++, PowerBuilder®, Visual FoxPro™, and others.

The elegant MapObjects object model allows developers to easily navigate the rich collection of ActiveX automation objects. These features make MapObjects easy-to-use, providing application developers with powerful GIS and mapping capabilities.

Extensive Data Included

MapObjects includes ESRI Data and Maps, an extensive collection of geographic data sets, including roads, census boundaries, ZIP Codes, states, countries, and much more, which lets you "put a map in your app" immediately.

Because MapObjects uses ESRI shapefiles, ARC/INFO® coverages, SDE layers, and a wide variety of standard image formats (such as TIFF, BMP, and more), you can use MapObjects with data you already have or with data you can get from a variety of other sources. Other databases and tables can be accessed using Microsoft's standard ODBC or Data Access Objects (DAO) interface.
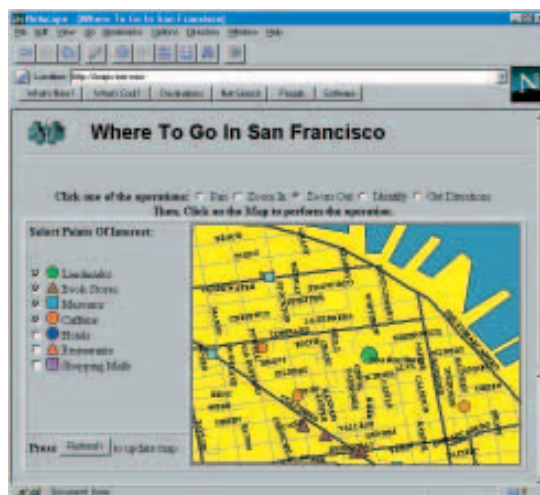
Build Web-based Mapping and GIS Applications

MapObjects Internet Map Server, an optional extension for MapObjects, is the solution for developers looking for tools to build Web-based mapping and GIS applications. The Internet Map Server extension lets developers use MapObjects to create spatially enabled Web sites for a variety of needs. The MapObjects Internet Map Server extension works with Netscape Communications™ Server or Microsoft Internet Information Server and provides all the tools you need to build custom Web mapping applications. The efficient, scalable design lets you serve dynamic maps and data quickly on a variety of architectures, whether you have a single server for Intranet use or a network of many servers to handle high-volume worldwide Internet access.

Points

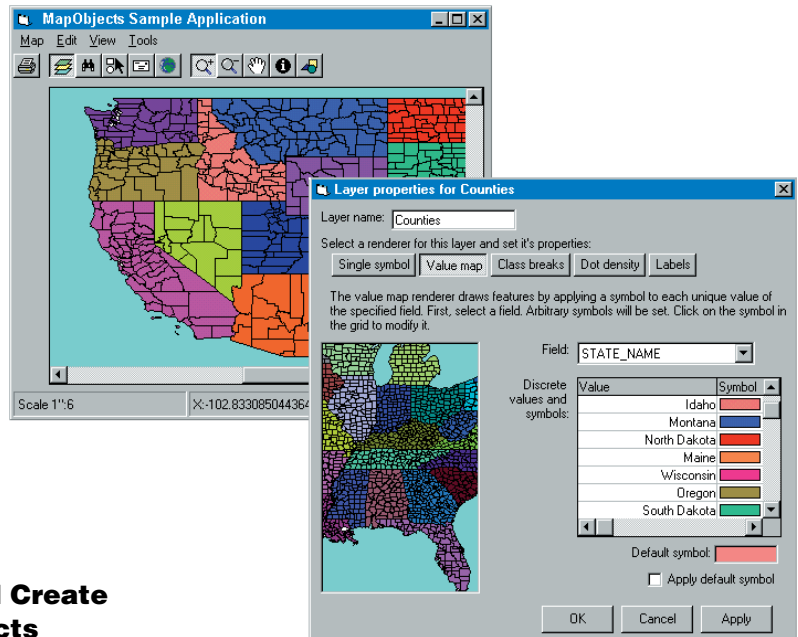**Streets**

Boundaries

Images

MapObjects Internet Map Server provides you with

- Complete Web access to MapObjects features and functions

- Efficient and scalable request broker architecture

- Support for standard Web Browser and Web Server architectures
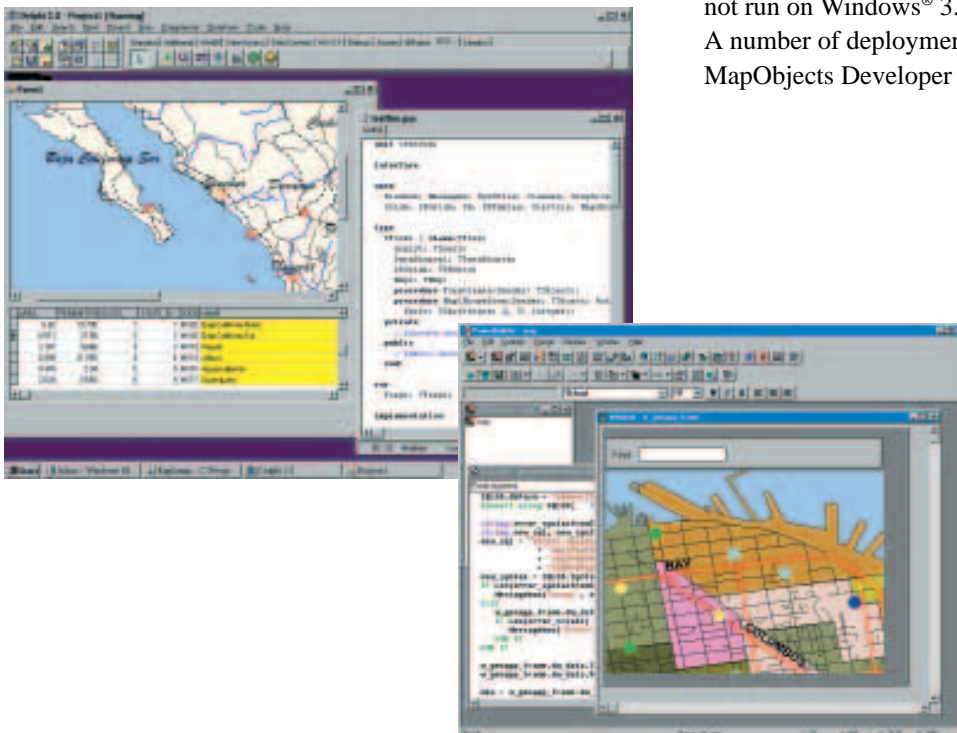
- Flexible URL request syntax

Enhance, Build, Extend and Create Applications with MapObjects

MapObjects provides the tools you need to create specialized solutions for your desktop mapping and GIS needs. You can add mapping components to enhance existing applications, build lightweight data viewing applications, or create specialized mapping and GIS programs that fulfill specific tasks and requirements.

Systems Requirements

MapObjects can be used with any development environment that supports custom controls, and requires Windows 95 or Windows NT (486/33 MHz processor, 8 MB RAM; Pentium®-based system with 16 MB RAM recommended). Applications built with MapObjects will not run on Windows® 3.x or earlier versions of Windows. A number of deployment licenses are packaged with each MapObjects Developer Kit. Call for pricing details.

For more than 25 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.

CORPORATE

ESRI

380 New York Street

Redlands, California

92373-8100 USA

Telephone: 909-793-2853

Fax: 909-793-5953

For more information or to
order MapObjects or an evaluation copy
of MapObjects, call ESRI at

1-800-447-9778

(1-800-GIS-XPRT)

Outside the United States,

contact your local ESRI distributor.

For the number of your distributor,

call ESRI at

909-793-2853, ext.1-1235

Send E-mail inquiries to
info@esri.com

Visit ESRI home page at
www.esri.com

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Alaska
907-344-6613

Boston
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California
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