



MapInfo ProViewer

Version 8.5

USER GUIDE

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June 2006

Introduction to MapInfo ProViewer

Welcome!

Congratulations on your choice of MapInfo ProViewer, the easy way to see, print, and share electronic desktop maps. This convenient map viewer opens MapInfo tables created using MapInfo products such as MapInfo Professional, MapX, or MapXtreme and displays them in Map and Browser windows. It also opens MapInfo workspaces and recreates Map, Browser, Graph, and Layout windows exactly as they were created in MapInfo Professional. Using this product you can display and print maps and workspaces created in any version of the MapInfo product line.

The purpose of this chapter is to familiarize you with the basics of MapInfo ProViewer and provide resources for you to become familiar with it. You can also get installation assistance from MapInfo Technical Support, if necessary, using information in this document.

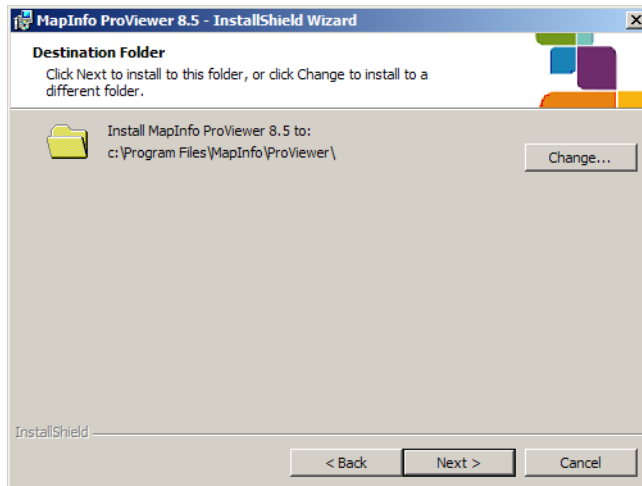
Sections in this Chapter:

- ♦ Installing MapInfo ProViewer4
- ♦ What's New in MapInfo ProViewer?5
- ♦ Displaying a Map in MapInfo ProViewer8
- ♦ A Brief Tour of the World.wor Workspace9
- ♦ A Brief Tour of the World.wor Workspace9
- ♦ Getting Online Help13
- ♦ Getting Technical Support.13
- ♦ Want to do MORE?.13

Installing MapInfo ProViewer

To install MapInfo ProViewer:

1. Click the **Start** button and click **Run** and type or browse to the ProViewer **setup.exe** file. Click the **OK** button to begin the installation. The **Welcome** screen displays.
2. Click **Next** to continue to the **License Agreement** dialog box.
3. Click **I accept the Terms** and click **Next** to display the **Customer Information** dialog box. Complete these fields with appropriate entries to continue.
4. Click **Next** to display the **Destination Folder** dialog box.



5. In this dialog box, click **Next** to accept the default path or click **Change** to select a new path. The **Ready to Install** dialog box displays.
6. Click **Install** to begin the file transfer. The **Installing** dialog box displays. You are prompted to register ProViewer on the MapInfo.com web site.
7. You are prompted to display the readme document. Click **OK** to view the readme; click **Cancel** to end. The **InstallShield Wizard Completed** dialog box displays.
8. Click **Finish** to complete the installation of MapInfo ProViewer.

Note: When you open MapInfo ProViewer for the first time, it takes a few minutes to configure the application on your desktop. Please be patient during this process.

MapInfo ProViewer now sets up separate application data files for each user. This is called a "per-user installation" and it occurs the first time a new user runs ProViewer on a new computer. The application data files include the Pen Styles file, the Custom Symbols files, the Graph Support files, and the Thematic Legend Templates.

What's New in MapInfo ProViewer?

This section contains information about the new features of ProViewer and a history of the previous changes to the ProViewer product.

What's New in MapInfo ProViewer 8.5

More Room on the Status Bar. We have enlarged the Status Bar cursor location and file name fields to ensure that this information is more readable. We have also simplified the coordinate entry to display in decimal degrees.

Printing Large Images Improved. Customers printing large images (such as destination page size D, E, or A0) previously reported problems using MapInfo ProViewer. Some of the printing problems stemmed from a 28,000 pixel limitation that we have addressed in this version of MapInfo Professional. MapInfo no longer supports the Windows 95 or 98 operating systems, which allowed us to remove this restriction.

Better Support for GRD Files. MapInfo Professional 8.5 added a new preference that allows you to display Vertical Mapper GRD maps as grid files and not as raster files. Vertical Mapper creates GRD/TAB files that display using the raster handler. The new preference contains a Grid option, so you can view Info tool information about 3D GRD maps.

Raster Image Reprojection Enhanced. In MapInfo Professional, we added automatic image reprojection for registered raster data such as satellite and aerial photo images, scanned maps, grids, seamless tables and WMS data. Previously, map professionals were restricted to reprojecting the vector maps. You are now able to view maps created using this feature.

AirPhoto Raster Handler Upgraded. We have incorporated the latest AirPhoto Raster Handler 4.23 into the 8.5 release of MapInfo Professional. You are now able to review map files created with this new AirPhoto format.

Coordinate System Enhancements. The following are the coordinate system enhancements for this version:

- **ETRS-based Coordinate Systems Added.** We have added the following ETRS-based projections to our PRJ file: Transverse Mercator Zone 26-39, Lambert Conformal Conic, and Azimuthal Equal Area.
- **Lithuanian and Latvian Coordinate Systems Added.** We have added the following Latvian Coordinate Systems to the PRJ file: LKS-92, and Longitude/Latitude (LKS-92). We have added EPSG codes to the following Lithuanian Coordinate Systems: LKS-94, Baltija-92, Longitude / Latitude (LKS-94) and KS-1942 Zone 4.
- **Estonian Coordinate System Added.** We have added the following Estonian Coordinate System L-EST 97.
- **Swedish Coordinate System Added.** We have added Swedish Coordinate Systems for Aviation maps.
- **South African Coordinate System Zones Added.** We have added several Gauss Kruger Coordinate System zones.

New Help System Enhancements. We have updated the MapInfo Professional Help System to provide new functionality that you may already be using in other Microsoft products.

- **Reading help topics gets easier.** When you click in a help topic you can use the mouse wheel to scroll up and down through the topic as you read. This is the quick way to get through help topics and move on to getting your work done.
- **Type too small? Zoom in!** If you press and hold the **Ctrl** key while you use the mouse button to scroll through a topic, the type displays in a larger font so you can read the text clearly.
- **Access to the most current MapInfo Professional documentation is easier!** At the bottom of each help topic, there is a web address that takes you to the MapInfo web page. From there you can get the latest MapInfo Professional documentation or peruse documentation for other MapInfo products. You must be connected to the Internet for this feature to work.
- **Can't find a favorite topic? Save it in the Favorites tab!** You can store topics you refer to all the time on a Favorites tab, which persists from session to session.

To save a favorite topic in the Favorites tab:

1. Open the Help System by doing one of the following:
Click **Help** in a dialog box
Select **Help > MapInfo Professional Help Topics**
2. Click the **Search** tab and display the topic you want to save.
3. Click the **Favorites** tab and click **Add**. The Help System adds the topic to the list.

Features Added in Previous Versions of ProViewer

8.0

Autoscroll now more consistent. The **T** key is now used to toggle Autoscroll on and off. It used to be that **A** turned Autoscroll on and **T** turned Autoscroll off.

More Nodes. Increased the number of nodes permitted per object for regions, polylines, and multipoints.

Added support for the ASRP version 1.2 raster format.

Added New Datums, Projections and Ellipsoids including:

- Chinese Coordinate Systems
- Guernsey Grid Coordinate System
- Hellenic Geodetic Reference System
- Baltic Projections (Lithuanian and Latvian)
- New Zealand Geodetic Datum 2000
- New Belgian Coordinate System
- Additional British National Grid Coordinate System

New Grid Handler. Added the Arc Grid Handler to support the use and display of ESRI grid files.

7.8

Improved File Handling. Open MapInfo Professional 7.8 workspaces and table files. This includes .tab files referencing ESRI Shapefiles and table files containing new projections.

WFS and WMS Support. View workspaces and .tab files that reference Web Map Service (WMS) and Web Feature Service (WFS) layers.

Large Crosshair Selection. Support for selecting nodes more precisely.

Supports Larger Excel Files. Open .tab files that reference larger Excel files (more than 32K rows).

Enhanced Centroid Snap Capabilities.

Enhanced 3DMap Viewing. Improved PrismMap lighting.

Removed 255K character limit in Layout and Map windows in workspaces.

Upgraded raster handlers. Upgraded the LeadTools to version 13, MrSID SDK (3.2) to provide support for MG3 files and updated the current raster handlers to handle multi-threading; specifically for ECW and the Government handlers (ADRG, ASRP, CADRG, CIB, NITF).

7.0

New Microsoft Windows like File open Dialog with support for My Documents, Desktop etc.

TAB File referencing a shape file support

Built in ECW, MrSid, JPEG 2000, ADRG, CADRG, CIB and NTIF raster format support for files that are referenced by TAB files.

6.5

Invert Selection

Display 3D Prism maps created and saved in workspaces with MapInfo Professional 6.5

Display translucent raster images and grid files saved in workspaces with MapInfo Professional 6.5.

6.0

Display and manipulate (rotate, pan, zoom, print, info tool) 3D Map views saved in workspaces with MapInfo Professional 6.0.

Launch URLs and documents associated with objects with the HotLink tool. HotLink settings specified and saved as metadata with MapInfo Professional 6.0.

Select map objects with marquee, radius, and existing or freehand polygons.

Select graph objects.

Support all workspace printer settings.

Support ECW compressed image files.

Support Vertical Mapper grid files.

Support Windows 2000 and Office 2000.

5.5

Displaying coordinates in Degree, Minute, Seconds in the Status Bar by cursor location (by clicking on the status bar).

You can display coordinates in degrees, minutes, seconds (e.g., 75 degrees 12' 48") or in decimal degrees (e.g., 75.213458 degrees). The default for displaying coordinates is decimal degrees.

MrSID Raster Handler, The MrSID raster handler allows you to open and display raster images compressed in the MrSID format. You can install the MrSID raster handler during the ProViewer 5.5 installation process or at a later date using the ProViewer CD. A sample .sid file and a raster image of Paris are included. MrSID format image handler software is licensed from Schlosser Geographic Systems, Inc.

Oracle8i Spatial is a new implementation of a spatial database from Oracle Corporation. It has some similarities to the previous Oracle SDO implementation, but is significantly different. Oracle8i Spatial maintains the Oracle SDO implementation via a relational schema Intersolv. You will be able to open Oracle8i Linked Tables

Snap cursor support for the snap settings for a window (mapper and layout).

Distance/Area using calculation method will display when double clicking on an object:

Spherical - Spherical calculations are used for distance methods which attempt to keep the measurement on the curved surface of the earth. The data is first converted to Latitude/Longitude and then a calculation is produced. Non-Earth projections cannot use spherical calculations.

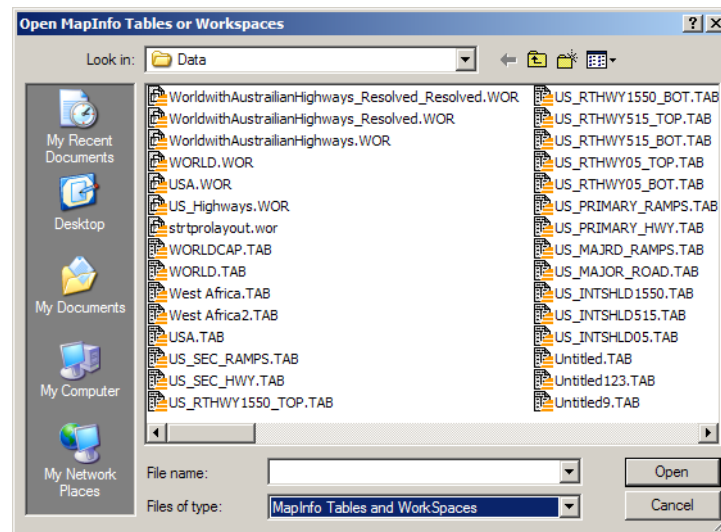
Cartesian - Cartesian methods are used to perform calculations on data projected onto a flat plane. Cartesian coordinates are a pair of numbers, (x, y), defining the position of a point in a two-dimensional space by its perpendicular projection onto two axes which are at right angles to each other. Lon/Lat projections cannot use Cartesian calculations.

Displaying a Map in MapInfo ProViewer

To explore the basics of desktop mapping concepts, let's explore the World.wor workspace, which is installed with ProViewer.

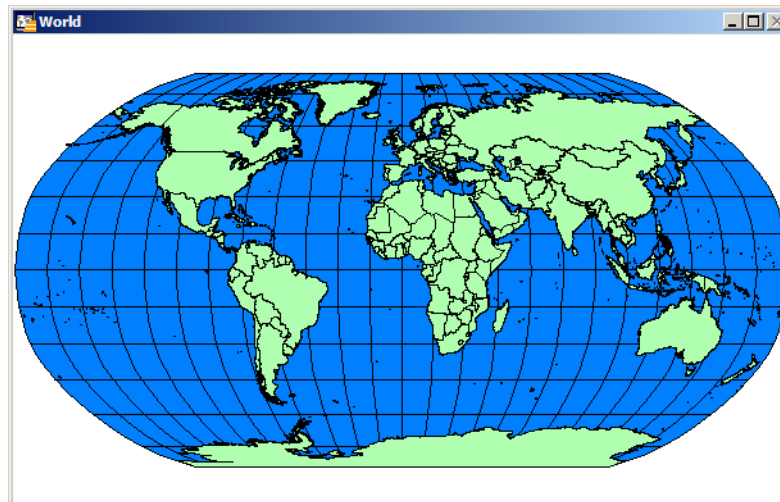
To display a map in the ProViewer product:

1. Click the **Start** button, select the **All Programs, MapInfo and MapInfo ProViewer** to display the **ProViewer** window.
2. Click the  button or from the **File** menu, select **Open** button to display the **Open MapInfo Tables or Workspaces** dialog box.



Note: You cannot open .MWS files created with MapInfo Professional in ProViewer.

3. Click the **Data** directory and click **Open**.
4. Click the **World** directory and click **Open**.
5. Select the **World.wor** entry and click **Open** to display the World workspace.

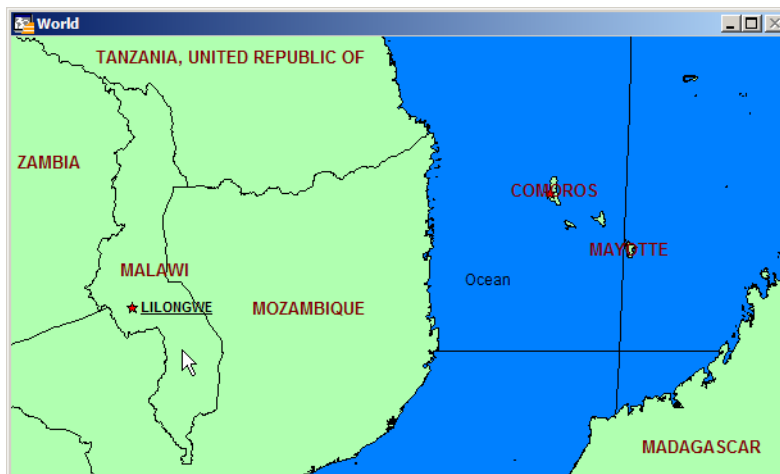


A Brief Tour of the World.wor Workspace

Use the World.wor to review the map layers and experiment with these icons to become familiar with their functionality. You can think of a workspace as a map with transparencies stacked on top of it. Each layer contains data that pertains to the entire map. For example, World.wor includes the Ocean, the Countries, and the World Capitals layers.

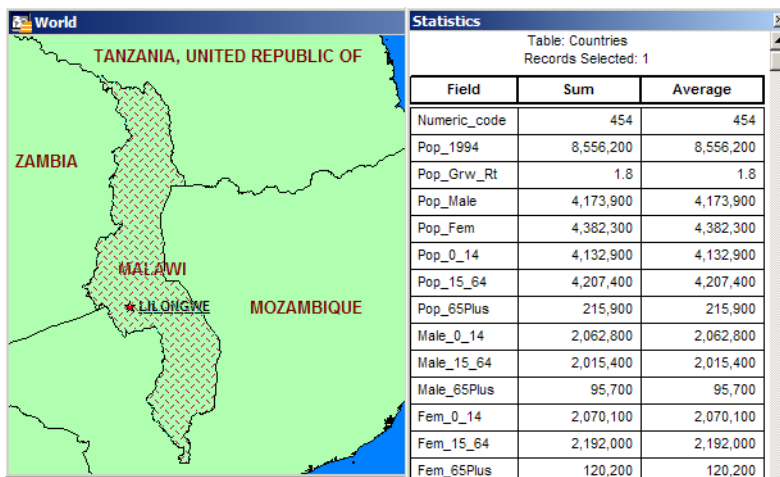
Using the Select Icon

This is the  **Select** tool's default cursor. Position the cursor over any region to display the name of the region. There are several selection icons that allow you to select map features and group regions for display. See the Help System for more about the specific properties of each icon.



Using the Statistics Icon

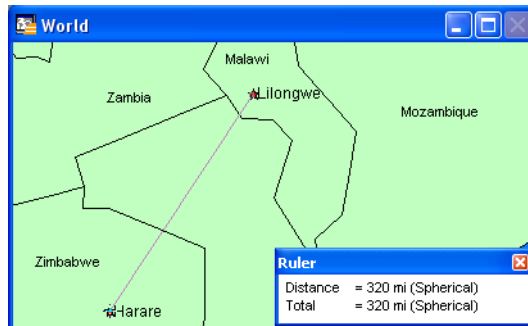
Click the  **Statistics** icon to display more about a selected country in the Statistics window.



Using the Ruler

The Ruler tool can show distance between two points on a Map window.

1. Choose the  **Ruler** button and position the cursor, which displays as a cross, anywhere on the map and click.



The **Ruler** window displays **Distance** and **Total**. As you move the cursor, the **Distance** measurement changes in the **Ruler** window.

- To measure the distance between two points, click the first point and double-click the second.
- To measure the length of a path containing two or more segments, continue the process, clicking once at the end of each segment to keep a running total of the length of the path.

Using the Zoom Options

The Zoom options give you control over the display of the Map window.

1. Open a Map window and click the  **Zoom in** button. Position the cursor anywhere on the map.

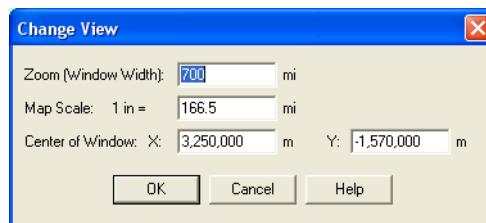


Full featured MapInfo products allow you to determine the range (for example 0 to 3 miles, 2 to 5 miles) at which each layer is visible in a Map window.

2. To see the effect of zooming click the **Zoom in** icon anywhere on the map. The map redraws at the new zoom level. Notice that the information changes in the Zoom section of the **Status Bar** to reflect a new zoom level.



3. To specify the zoom level of the map, click the  **Change View** button and enter a new zoom level.

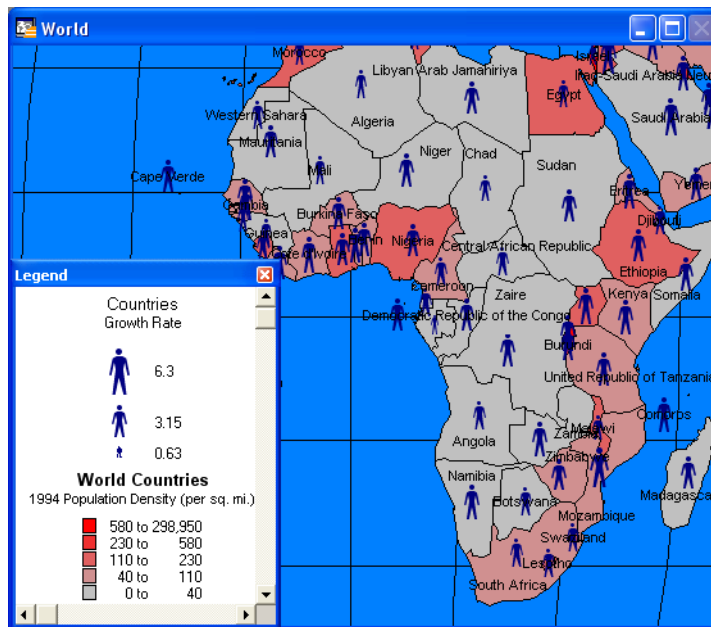


At different zoom levels, new information displays on the map reflecting the visibility of the different map layers that comprise World.wor.

Displaying the Map Legend

The map's legend explains the meaning of the different shapes, colors, and fill patterns.

1. Open a Map window and click the  **Legend** button or select the **Options** menu and the **Show/Hide Legend** command.



Note: Not all maps have legends.

2. Choose the **Map** menu option and the **Previous View** command to return the map from the beginning.

We have provided the icon descriptions, the Glossary, and the online help to support you as you navigate through more mapping adventures!

Getting Online Help

Use ProViewer's comprehensive online Help, including sections on menu commands and dialog box descriptions, to answer your ProViewer questions.

Getting Technical Support

If you encounter problems installing MapInfo ProViewer, our technical support specialists can help. Technical Support for MapInfo ProViewer is limited to installation issues. For workspace-related issues, see the MapInfo Professional user who created the workspace.

For questions concerning the installation of ProViewer, contact MapInfo Technical Support at 518/285-7283 or visit the MapInfo web site (<http://www.mapinfo.com>).

Want to do MORE?

Consider...

MapInfo Professional, the premier desktop mapping product for business and government. MapInfo Professional allows users to access their own data to see relationships between data and geography, answering questions such as ...

- Where are my best customers located?
- Where should I place my next sales office?
- How can I increase my sales?

MapInfo Professional answers these questions in a straightforward manner, reducing the time it takes to make smarter decisions.

Glossary

This section contains a list of terms we use to describe ProViewer features and capabilities.

Term	Definition
Browser	A window for viewing a table (or a database, a spreadsheet, or a text file) in tabular form.
Coordinate	An X,Y location in a Cartesian coordinate system or Longitude/Latitude location in an earth coordinate system. Coordinate systems represent locations on a map relative to other locations. Earth coordinate systems may use the Equator and the Greenwich Prime Meridian as fixed reference points. Plane coordinate systems describe a two-dimensional X,Y location in terms of distance from a fixed reference point and are usually in the first quadrant so that all coordinates are positive.
Degrees of Longitude, Degrees of Latitude, and Decimal Degrees	Degrees (longitude and latitude) are coordinates used to represent locations on the surface of the Earth. Longitude (or X coordinate) represents a location's east-west position, where any location west of the Prime Meridian has a negative X value. Latitude (or Y coordinate), represents a location's north-south position, where any location south of the Equator has a negative Y value.
Field	A field in a table corresponds to a column in a Browser. A field contains a specific type of information about an object, such as: • Name • Abbreviation • Land Area • Price • Population etc. The record for each object consists of the object's values for each of the fields in the database.
Graticule	A grid of horizontal (latitude) and vertical (longitude) lines that display on an Earth map spaced at a regular distance (for example, every five degrees, every fifteen degrees). Used to establish a frame of reference.
Latitude	The horizontal lines on a map that increase from 0 degrees at the Equator to 90 degrees at both North (+90.0 degrees) and South (-90.0 degrees) Poles. Used to describe the north-south position of a point as measured usually in degrees/minutes/seconds or decimal degrees above or below the Equator.
Legend	The part of a map that explains the meanings of different colors, shapes, or fill patterns used on a map. A legend can also include a scale.

Term	Definition
Longitude	The vertical lines on a map that run from the North to the South Poles, used to describe the east-west position of a point. The position is reported as the number of degrees East (0 to -180.0 degrees) or West (0 to +180.0 degrees) of the Prime Meridian (0 degrees). Lines of Longitude are farthest apart at the Equator and intersect at both Poles, and therefore are not parallel.
Map Scale	A statement of a measure of the map and the equivalent measure on the earth. Often expressed as a representative ratio of distance, such as 1:10,000. This means that one unit of distance on the map (for example, 1 inch) represents 10,000 of the same units of distance on the earth.
Map Window	A window that allows you to view a table as a map.
Node	An endpoint of a line object, or an endpoint of a line segment which is part of a polyline or region object.
Raster	A type of computerized picture consisting of row after row of tiny dots (pixels). Raster images are sometimes known as bitmaps. Aerial photographs and satellite imagery are common types of raster data found in GIS. A computer image can be represented in raster format or in vector format.
Record	All the information about one object in a database or a table. A record in a table corresponds to a row in a Browser.
Selection	A data item or set of data items chosen for inspection and/or analysis. In Browsers, and in Map windows, items can be placed in the selection set by clicking on them individually. Map windows also have special tools for selecting multiple items on a spatial basis.
Status Bar	A bar at the bottom of the screen that displays messages that help in using MapInfo ProViewer.
Table	MapInfo information databases are organized as tables. Tables are made up of rows and columns. Each row contains information about a particular geographic feature, event, etc. Each column contains a particular kind of information about the items in the table. MapInfo tables can contain graphic objects representing geographic objects. Such tables can display as maps.
Toolbars	MapInfo windows that contain a variety of buttons used to access tools and commands for mapping and drawing.
Vector	A coordinate-based data structure commonly used to represent map features. Each object is represented as a list of sequential x,y coordinates. Attributes may be associated with the objects. A computer image can be represented in vector format or in raster format.

Term	Definition
Workspace	A saved configuration of open MapInfo tables and windows.
Zoom Layering	A setting that determines the range (for example, 0 - 3 miles, 2 - 5 miles, etc.) at which a layer is visible in a Map window.
