MapInfo Professional Evolution!

A long history of improvement

This presentation covers what is new in all of the MapInfo Pro releases since v9.0!
MapInfo Pro Release History

A feature release every year for more than 25 years
MapInfo Pro version 9.0 added

Universal translator – support for
- AutoCAD DWG/DXF
- ArcSDE, Geodatabase (MDB)
- MicroStation Design
- Spatial Data Transfer Standard (SDTS)
- Vector Product Format Coverage (VPF)

Time based analysis - Support for Date/time and Time data formats

Civil contingency fonts added

Secure WMS and WFS connections via HTTPS

MapBasic now free (prior to v9.0, the MapBasic development environment was an added cost)
MapInfo Pro version 9.5 added

Improved map display - support for translucency and anti-aliasing

MapCAD – comprehensive “CAD like” data creation and editing tools

WFS-T (Web Feature Service with Transaction support)

Improved installation and activation
  • Workgroup installations
  • Support for proxy server based networks
  • Silent installation and activation

Improved labelling

Object processing performance improvements – Combine and Buffering

RDBMS performance improvements – progressive cache and more
MapInfo Pro version 9.5: Introduced the MapCAD Toolbox

- Copy Object to stamp
- Replace object from stamp
- Paste Style
- Calculate Angle
- Split Region
- Snap to Lines
- Add Nodes
- Mirror Vertically
- Move
- Measurement
- Align Vertically
- Fillet/Chamfer
- Polar Append
- Perpendicular
- Circle from three points
- Create lines from database
- Circle from Center and R or D
- Help
- Paste object from stamp
- Copy style
- Select Objects By Style
- Create Parallel
- Calculate Direction
- Settings for Snap to Lines
- Mirror Horizontally
- Create Line / Polyline
- Rotate
- Align Horizontally
- Line Intersection
- Intersect Arcs
- Right Angle
- Text in Table
- Arc from three points
- Create polylines from database
- Settings
- Exit MapCAD
MapInfo Pro version 10.0 added

Support for Access and Excel 2007 data formats
Support for SQL Server 2008, PostgreSQL and PostGIS
New interactive scale bars
More modern menu and toolbars
All new interactive Layer Control window
Object processing performance improvements (erase and split)
Produced Layered PDF
MapInfo Pro version 10.5 added

Search metadata catalogs (CSW Support)
Direct open of Google KML format
Microsoft Bing maps support (Bing aerial and hybrid)
Support for the Microsoft Excel and Access 2010 formats
Multiple style overrides makes layer control less cluttered and easier to navigate
Improved user interface
- New toolbars, icons and cursors
- More dockable windows – including new Table List window
Produce layered and/or geo-registered PDF maps.
- Include attribute data in PDF.
Performance improvements with RDBMS
MapInfo Pro version 11.0 added

All new Browser window – easy sorting, multiline support, rich keyboard control, improved output and much more.

Choice of British or American English for distance units when creating output.

Increased use of memory when running on a 64 bit operating system (note this is not a 64 bit version – see v12.5 and later).

MWS format workspace support - create maps for MapXtreme and Spectrum.

MapInfo Pro Premium Services introduced
• Access to Bing roads and a look up (move map to) feature.
Improvements in v10.0, v10.5 and v11.0

- New Layer control - v10.0
- Table List window - v10.5
- Quickly zoom maps to any location - v11.0*
- Access background street mapping with the click of a button – v11.0*
- All new Browser window – v11.0
- Improved menus and toolbars - v10.5

*Part of the Premium Service option
MapInfo Pro v11.5 added

New Legend Designer window
Improvements to the Browser window
New Workspace Resolver: Open workspaces with missing tables
SQLite support
WFS v1.1 support
Additional symbol fonts and fill patterns
Google Earth Enterprise Tile Server support
Oracle Connect support
Improved support for using multiple displays
Support for SQL Server 2012
MapInfo Professional v11.5

Create and edit MapInfo Manager metadata.

Improved support for multiple screens.

All new Legend Designer Window.

New Browser window quick access toolbar.

Sort and filter with just a few clicks.
New Browser window (v11.0 and v11.5)

- Reapply (refresh) a sort or filter (needed when adding or editing data)
- Choose the text style for the Browser
- Add a new row
- Pick the fields to include
- Click a column header to sort. Right click for sorting and filtering
- Handy tip: Click in a cell to edit, double click to select a word and triple click to select the entire contents of the cell.

Sort and Filter menu

Select Menu
MapInfo Pro v12.0 added

“Smart” labelling – many enhancements
Improved Scale Bar
Improved Legend Designer
New user interface for working with database systems
Improved SQL Server support (geography data type)
Upgraded universal translator
Layer control enhancements
Support for wider data records (64,500 bytes)
Built-in notifications for patch releases
MapCAD improvements
Some Details on Labelling Improvements added in version 12.0

Labeling Lines:
• Combine curved & rotated labels
• Option for alternative placement along polylines
• Click and drag to move curved labels

Labeling Regions:
• Confine to region boundary
• Place outside region with callouts
• Font reduction to fit in region

General:
• Control priority of labels across layers
• Use secondary abbreviation column when label will not fit
MapInfo Pro v12.5 added

Released both a 32 bit and, for the first time, a full 64 bit version.

64 bit version has an all-new ribbon based user interface

All new Layout Designer

Improved performance: Multi-threading of key object processing operations

Additional data format support
  • Read support for GML 2.1.2, 3.1.1 and 3.2.1
  • Write support for GML SF-0 (simple features)
  • Read/write support for ESRI Geodatabase

Released 2014
New Layout Designer – Active Map and Browser windows

Work directly with your Map and Browser windows without leaving the Layout page!

- Pan and Zoom
- Adjust layers
- Modify labels
- Set the scale
- Add layers
- Edit objects

Prepare maps for printing more quickly and easily than ever before.

Also work directly with Browser windows without leaving the Layout canvas!
### MapInfo Pro v15.0 and v15.2

<table>
<thead>
<tr>
<th>Theme</th>
<th>Improvement</th>
<th>v15.0 (32 bit)</th>
<th>v15.2 (64 bit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creating output</td>
<td>Improvements to the Layout Designer</td>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>System</td>
<td>Support for touch screens</td>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>Performance</td>
<td>Improvement to Update, Append and other operations</td>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td>Data access</td>
<td>Unicode Support</td>
<td>☑️</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Support native tables (and database cache) larger than 2 GB</td>
<td>☑️</td>
<td>☑️</td>
</tr>
<tr>
<td></td>
<td>GeoPackage Support (Q1 2016)</td>
<td></td>
<td>☑️</td>
</tr>
<tr>
<td>Interoperability</td>
<td>Integration with the Spectrum Global Geocoding module</td>
<td></td>
<td>☑️</td>
</tr>
</tbody>
</table>

Released 2015
First release to support Windows 10
MapInfo Pro v15.2 Layout Designer Improvements

- Multi-page Layout with previews and easy navigation.
- Add dynamic graticules to your map.
- Rotated images
- Symbol, polyline and polygon annotations
- Support for scale bars on Layout canvas (outside of map window)
New Extended TAB file format

- Support for files larger than 2 GB in size
- Unicode (UTF-8 or UTF-16) character set support
  - Use data with different character sets.
- Performance improvements in v15.2 also help make it practical to work with larger files.
## Examples of performance improvements in MapInfo Pro v15.2

<table>
<thead>
<tr>
<th>Number of rows in table</th>
<th>SQL Query</th>
<th>Number of rows in result</th>
<th>Time v12.5.4</th>
<th>Time v15.2</th>
<th>Table size (.dat file)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13,000,000</td>
<td>Value &gt; 80,000</td>
<td>2,600,000</td>
<td>4 hrs 12 min</td>
<td>1 min</td>
<td>347 MB</td>
</tr>
<tr>
<td>1,240,000</td>
<td>Group = &quot;Business Services&quot;</td>
<td>97,800</td>
<td>35 sec</td>
<td>14 sec</td>
<td>1.9 GB</td>
</tr>
<tr>
<td>15,250,000</td>
<td>Employee count &gt;= 500</td>
<td>26,284</td>
<td>not possible</td>
<td>3 min 12 sec</td>
<td>21.5 GB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of rows in table</th>
<th>Map Query</th>
<th>Number of rows in result</th>
<th>Time v12.5.4</th>
<th>Time v15.2</th>
<th>Table size (.dat file)</th>
</tr>
</thead>
<tbody>
<tr>
<td>602,000</td>
<td>Boundary select tool within 100km circle</td>
<td>253,000</td>
<td>3 min 32 sec</td>
<td>20 sec</td>
<td>1.7 GB</td>
</tr>
<tr>
<td>602,000</td>
<td>Invert the above selection</td>
<td>349,000</td>
<td>6 min 36 sec</td>
<td>5 sec</td>
<td>1.7 GB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rendering of point objects</th>
<th>Version 12.5.4 (64 bit)</th>
<th>Version 15.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>WorldPlaces (675,000 points - global)</td>
<td>1 minute 50 seconds</td>
<td>11-15 seconds</td>
</tr>
</tbody>
</table>
Using the 32 bit and 64 bit versions

The new 64 bit MapInfo Pro was built with backwards compatibility in mind.

- Data and workspaces from earlier versions can be used.
- MapBasic applications are also supported. Some will run without modification, some will require changes.
- The same serial number and access code will unlock both the v15.0 and v15.2 releases of MapInfo Pro.
- You can install and run both side-by-side on the same computer.
MapInfo Pro Advanced – next generation raster GIS

• MapInfo Pro add-on for version 15.2
• Grid support in Spectrum Spatial and MapXtreme
• An SDK for custom applications

• **Multi Resolution Raster (MRR)** – an innovative new grid format and high performance engine
  – Great performance with very large grid files.
  – Efficiently displays data at all zoom levels ("pyramiding")
  – Support for both numeric, classified and imagery data.
  – Multi-resolution raster format allows variable size grid cells for improved efficiency.
  – Multiple variables in a single grid (fields and bands).

For MapInfo Pro v15.2 only
MapInfo Pro Advanced

- Added tab to MapInfo Pro
- Gallery controls to provide easy to understand access to powerful features
- Property panes for more advanced control
- Grid info and properties
MapInfo Pro Advanced summary of capabilities

- Create grids from points (interpolation and modeling)
- Powerful display options – color gallery and hill shading
- Import/Export grids from a variety of formats
- Combine (merge), resize, reproject, classify/reclassify and clip grids
- Take advantage of multi spectral imagery
- Combine raster grids of different cell sizes into a single grid
- Update points, lines and regions with data from your grids
- Grid calculator for querying, filtering and performing grid math
- Calculate slope, aspect and curvature grids
- Contouring
- Create grids from region data (rasterize)
- Calculate viewsheds and cross-sections
MapInfo Pro free trial download


Note that this download page has both

- Version 15.0 (our latest 32 bit release)
- Version 15.2 (our latest 64 bit release)

The free trial includes MapInfo Pro Advanced.
Want to learn more?

Lots more information is available from our monthly journal of tips, tricks and techniques.

http://web.pb.com/mapinfopro-archive/
Thank you