

MapInfo Professional

Introduction to Intermediate 64-bit Course Outline

THE BASICS

- Theory - Understanding how a GIS system works and the relationship between a map and its linked information.
- Terminology - An explanation of the terms used by MapInfo and common phrases and expressions used by the GIS.
- Data - Descriptions and details of all the different types of data MapInfo consumes.
- Starting off - How to open data in MapInfo, both individually or as a set of layers.

MAP AND BROWSER WINDOWS

- The ribbon and galleries - Replacing toolbars, adding short-cuts and setting a few defaults.
- Opening layers - Tables, workspaces and tile-servers.
- Browser views - Opening a browser, setting the views, default settings.
- Managing windows - Floating windows, docked and tabbed. What to use and why. Dual screen options.
- Navigating the maps and data - Using the spatial tools and the "Finding by" attributes.
- Co-ordinate systems - Setting projections and the British National Grid explained.
- Basic user tools (info, labels, hotlinks) - Using the basic tools and how they work.

MAP LAYERS

- Layer control or explorer - Adding named views, table list, searching, multiple windows within MapInfo, etc.
- Different types of layer - Vector or rasters, seamless tables.
- Layer properties, symbology and labels - Setting properties, style over-rides and setting labels content and styles.
- Zoom layering - Automatically turning layers on or off to increase performance.
- Grouping layers - Adding groups to assist with layer management.

PRESENTATION OF DATA

- Outputting text data - Exporting and copy/paste options.
- Maps as images - Saving images and image formats, layered PDFs, adding data to PDFs.
- Layout window and dynamic frames - Adding data to a plot. Layer control within the Layout.
- Scales and legends - Explaining scale types and methods, creating and adding a legend to the plot.
- Templates and template management - Creating, saving and using templates.

MAPPING YOUR DATA (1) - Existing Digital Data

- Handling existing data - Excel files, Access DBs. Pros and Cons of both data sources. Saving copies, dos and don'ts.
- Creating points 1 - From co-ordinate values in the data, projections and styles.
- Creating points 2 - From address data (e.g. postcodes), look up databases, solving common data issues

MAPPING YOUR DATA (2) - Creating New Data Layers

- New table structures - Adding columns, defining field types, projections, etc.
- Plotting data - Adding information to the map, drawing techniques and tips.
- Editing objects - Moving points, reshaping polygons and polylines.
- Adding attribute data - Adding text and data to the browser or via the info tool.
- Batch updates - Using update column function, copy and paste, grabbing spatial information, updates from a separate layer

SPATIAL SELECTION METHODS

- Selection tools - Select, marquee select, polygon select, radius select. Boundary select.
- Using queries - Adding as a new layer, managing queries.
- Buffers - Creating buffers, multiple buffers, cosmetic layer or new layer.

BASIC SQL

- Browser filters and sorting - Basic SQL functions directly through the browser, different results than a query.
- An overview of the SQL dialogue box - What goes in each box, what drop down list value can be used in each box.
- Querying for text, dates and numbers - Query structures and types, what's different in each type of query.
- Wildcard searches - How to find data from only a part match.
- Operators - AND, OR, LIKE. How they work and what they do.
- Database joins - Linking data together through database values. Saving workspaces with join queries.
- NEW SQL Tool - Overview of SQL enhancement: spatial aggregation with the functionality to build and execute SQL queries and statements.

THEMATIC MAPS

- What is a thematic map? What data structure requirements are there and when to create a thematic map.
- Numerical and text-based maps - Ranges or individual. Examples of both main types.
- Modifying thematic styles and legends - Changing colours, symbology and the legend descriptions.
- NEW Heatmaps - Creating heatmaps at different resolutions.

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of hard data.**

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