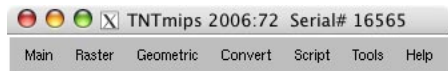


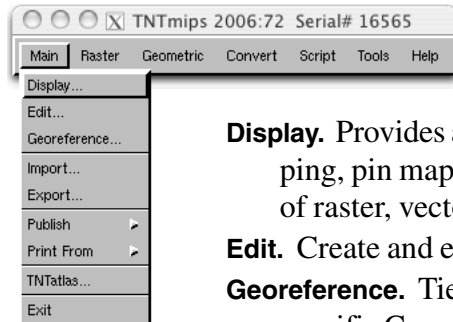
System

Overview of TNTmips Menubar



The TNTmips menu is organized to provide rapid access to the most often used processes and minimize the number of cascading levels you need to traverse to locate any process. The menu categories are Main, Raster, Geometric, Convert, Script, Tools, and Help. The full menu structure is provided on the attached TNTmips® Menu sheet and on our web site at www.microimages.com/documentation/cplates/72menu72.pdf. The arrowhead symbol (▶) used below indicates a cascading menu.

Main



The Main menu is for the most frequently used processes in TNTmips. Publish, Print From, and Exit are also on this menu since printing tasks and exiting are on the first menu in most applications.

Display. Provides all your visualization needs including making map layouts, printing, theme mapping, pin mapping, measuring, sketching, and database manipulations with any combination of raster, vector, shape, CAD, TIN, and geodatabase materials in 2D or 3D.

Edit. Create and edit all object types.

Georeference. Tie your geodata to the real world by establishing the geographic coordinates in a specific Coordinate Reference System for identifiable features.

Import. Bring spatial data in other file formats into the TNT product format. You can also establish links to many popular data formats and use the data in both TNT and the program that created it.

Export. Convert geodata objects from TNT format to other external spatial data formats.

Publish. ▶ Processes for electronically publishing your results for FREE use in TNTAtlas, TNTsim3D, or an AVI movie viewer.

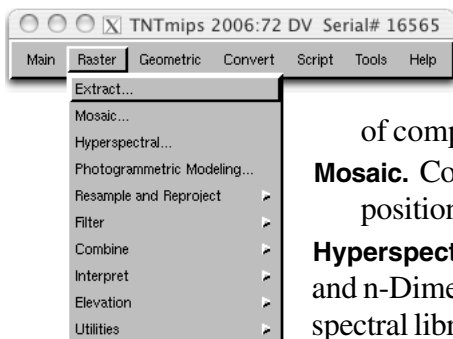
Print From. ▶ Lets you print using saved output from the display process (print rasters, print files, and layouts).

TNTAtlas. Opens TNTAtlas for X windows.

TNTsim3D. Launches TNTsim3D (Windows only) so you can fly over Landscape Files created in TNTmips.

Exit. Closes the TNTmips menubar. If other processes are open, they remain open.

Raster



The Raster menu gives access to those processes that deal specifically with the preparation and analysis of rasters including images, DEMs, and GIS layers.

Extract. Lets you copy all or part of an existing raster choosing from a variety of compression methods if desired.

Mosaic. Combine rasters into a single raster object using georeference information or manual positioning.

Hyperspectral. View and analyze hyperspectral imagery using the HyperSpectral Explorer and n-Dimensional Visualizer among other tools. Generate image spectra and compare with spectral libraries.


Photogrammetric Modeling. Generate orthophotos from a source photograph and DEM or from a stereo pair of photographs.

Resample and Reproject. ▶ Provides processes that change the cell size or geometry of raster objects.

Filter. ▶ Includes a variety of filtering processes including spatial, frequency, and morphological filtering, applying contrast, thresholding, thinning lines and more.

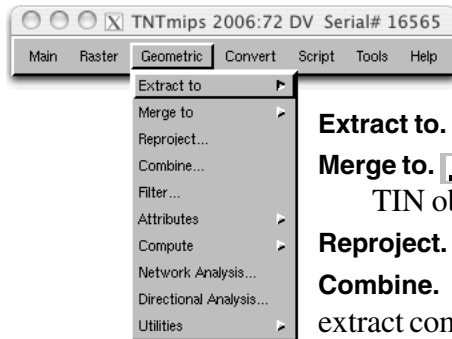
Combine. ▶ Access processes that combine information from multiple rasters, such as Principal Components, contrast matching, and color conversion.

Interpret. ▶ Choose from interactive and automatic classification and other interpretive raster outputs.


Elevation.  A variety of processes that require raster elevation models as input.

Utilities.  Miscellaneous raster processes including pyramiding, automatic DRG trimming, and raster creation by scanning using the TWAIN protocol.

Geometric



The Geometric menu includes processes that use geometric objects (vector, CAD, shape, and TIN) as input. Some of these processes will use any geometric object as input and others require a specific type.


Extract to.  Extract from any geometric object type to create a vector or CAD object.


Merge to.  Merge any combination of geometric objects to create a new vector, CAD, or TIN object.

Reproject. Warps georeferenced vector data to any selected Coordinate Reference System.

Combine. Performs various logical combinations of vector objects, such as intersect and extract completely inside.

Filter. Provides various filtering operations for vector objects with a test option available.

Attributes.  Includes processes that generate database tables with a variety of types of information. The Standard Attributes process will operate on vector, CAD, and TIN objects. All other processes create attributes for vector objects only, although Transfer Attributes will take input from raster, vector, or CAD sources and some other processes use rasters for input.

Compute.  Provides processes that create new geometric objects. The input and/or output may be one or more geometric object types.

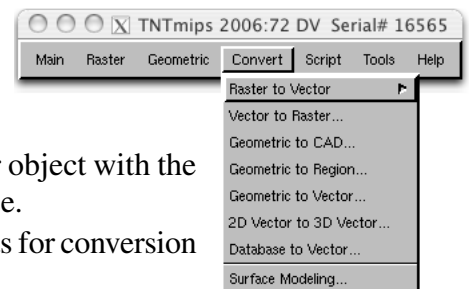
Network Analysis. A process that operates on vectors with polygonal or planar topology to calculate routing and allocation solutions.

Directional Analysis. Determines directional properties of vector objects generating a Rose Diagram and new vector object.

Utilities.  Choose between vector validation and optimization.

Convert

These processes convert between object types and include the specialized object conversions accomplished by Surface Modeling.



Raster to Vector.  Choose between Auto-Boundaries and Auto-Trace.

Vector to Raster. Create a raster object from selected elements in a vector object with the optional use of a reference raster to determine the output raster cell size.

Geometric to CAD. Select any number and combination of geometric objects for conversion to CAD objects.

Geometric to Region. Select any number and combination of vector, shape, or CAD objects for conversion to region objects.

Geometric to Vector. Select any number and combination of geometric objects for conversion to a vector object.

2D Vector to 3D Vector. Use an elevation raster to insert Z coordinates into a 2D vector object.

Database to Vector. Create point elements in a vector object using coordinates in the database table.

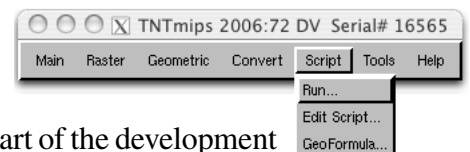
Surface Modeling. Does a variety of object type conversions related to elevation. For example, contouring creates vector contours at specified intervals from an elevation raster or TIN object and Surface Fitting generates an elevation raster from input vector lines, vector points, or a TIN object.

Script

Create and run scripts using MicroImages' geospatial scripting language (SML).

Run. Run an already saved SML script.

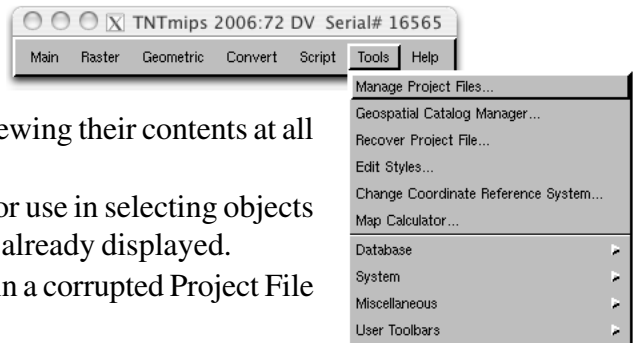
Edit. Create new SML scripts and edit existing scripts. Test run scripts as part of the development process.



GeoFormula. Perform data fusion using GeoFormulas with a saved raster result.

Tools

These tools let you manipulate Project Files and provide a number of utilities that work across object types.



Manage Project Files. Provides a number of functions for manipulating and maintaining Project Files, as well as viewing their contents at all levels.


Geospatial Catalog Manager. Creates a geographic catalog for use in selecting objects that have similar geographic extents to objects you have already displayed.


Recover Project File. Identifies intact objects and subobjects in a corrupted Project File and copies them to a new Project File.


Edit Styles. Create and edit styles for drawing geometric objects outside of the Display process. The style object created/edited can be a subobject of a geometric object or a main level style object.


Change Coordinate Reference System. Change Coordinate Reference System (CRS) parameters that were incorrectly entered during georeferencing, import, or linking.

Map Calculator. Computes equivalent coordinates from one CRS to another.

Database.  Edit databases independently of any other process, attach attributes by geographic location or cell value, copy database tables between databases, and generate database reports.

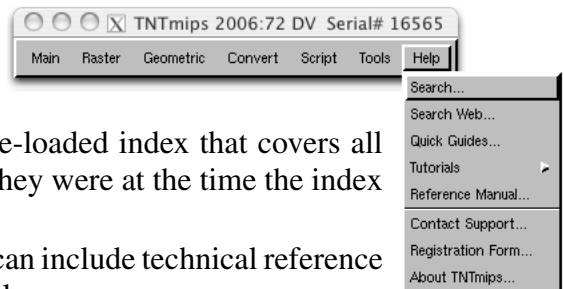
System.  Set up system parameters including preferences, fonts, default printer and X-Y digitizer, and enable options purchased from MicroImages after your key was programmed.

Miscellaneous.  Edit text files, attach metadata, use the Inspect Files utility, convert text files from one encoding to another, and conduct timing tests.

User Toolbars.  Toggles open the sample toolbar provided with TNTmips and provides a process so you can create and edit your own custom toolbars.

Help

The Help menu provides a variety of methods to get help using the TNT products both from the materials you have installed on your machine and from MicroImages' technical support team.



Search. Opens the Search page in Adobe Reader that uses a pre-loaded index that covers all tutorials, Quick Guides, and the online reference manual as they were at the time the index was generated.

Search Web. Takes you to MicroImages' Site Search page so you can include technical reference color plates and release notes content in your searched materials.

Quick Guides. Opens the Quick Guides booklet in Adobe Reader.

Tutorials.  Provides access to the tutorial Overview page and also directly to each tutorial booklet.

Reference Manual. Opens the Online Reference Manual cover page so you can choose the desired volume of the manual or quickly search it and other pre-indexed reference materials.

Contact Support. Opens the Error Report / New Feature Request Form. This form helps you provide all information needed to solve problems you may encounter using the TNT products. You can select necessary data using the form and it will automatically be sent with the report.

Registration Form. All new users are strongly encouraged to register their TNT products. Our software support engineers use this information so they can quickly give you help that takes your complete system environment into account.

About TNTmips. Opens a Product Information window with the product version and issue date, contact information, and copyright information.