

Convert Photo Table to Vector Points

The TNTmips Database to Vector Conversion process allows you to convert the photo locations in a geotagged photo database table into an ordered set of vector points connected by a line. The records in the source table are also transferred to the vector point database and attached to the relevant points. Thus when you display the resulting vector object, you can set the DataTip for points to show the image thumbnail temporarily when you pause the mouse cursor over a point, or simultaneously display all of the photo thumbnails as point symbols. As one

example, the map illustration below shows the general route (red line) of a tour of historic homes and other buildings, with each numbered stop showing the building's photo thumbnail centered on its location (thumbnail as point symbol).

Line generation is optional in the Database to Vector Conversion process. You set the point order for generating the line connecting the photo points by choosing an appropriate numeric field in the photo database table. Choosing the Date and Time field orders the photo points by their acquisition date and time.

If you wanted to connect the photo points in some other particular order, you could use the Display or Database Editor process to add an integer field to the source table and manually assign the desired numeric order value to each record, then choose this field to order the points in the conversion process. In the historic tour example, the tour photos were acquired in the desired order along the tour route, so the Date and Time field was chosen to order the line points.

Southeast Lincoln Historic Tour

1. Roberts House,	3158 Sheridan Blvd
2. W.F. Hitchcock House	2733 Sheridan Blvd
3. Woods House	2501 Sheridan Blvd
4. F. M. Spalding House	2221 Sheridan Blvd
5. Yost House	1900 S 25th Street
6. Maple Lodge	2030 Euclid Street
7. Ryons-Alexander House	1835 Ryons Street
8. Elias Dial House	2033 S 16th Street
9. James D. Calhoun House	1130 Plum Street
10. O.J. Burckhardt House	1236 Washington Street
11. Morris Weil House	1149 S 17th Street
12. Phillips Castle	1845 D Street
13. Clark-Leonard House	1937 F Street
14. Little-Atwood House	740 S 17th Street
15. Tilereth Israel Synagogue	344 S 18th Street
16. Rock Island Railroad Depot	1940 O Street
17. Sheldon House	2525 N Street
18. R.O. Stake House	145 S 28th Street

Database To Vector Conversion

Database... HistoricTour.rvc / Database
Table: HistoricTour (1)
Reference System... MGS84 / Geographic
Coordinate Format: Decimal Degrees Dimensions: 2D
X Field: Longitude East West
Y Field: Latitude North South
Z Field: Units: meters
 Generate Lines Point Order Field: Date and Time
 Optimize vector for faster drawing
 Generate 'Element ID' tables
 Remove Zero Points
Run... Exit

Vector Layer Controls

Object: Points Lines Polygons Nodes Labels 3D
Select: All Specify... Style: Image Thumbnail Specify...

Turn on the toggle to generate a line connecting the photo points, then select the field in the table to determine the point order.

To use the photo thumbnails as point symbols, choose Image Thumbnail from the Style menu on the Points panel of the Vector Layer Controls window.

Vector object with photo points and connecting red line created using the Database to Vector Conversion process, in layout including a reference map layer, stop number labels, and other annotation.