

TOWN OF GREENWICH, CONNECTICUT

Creating a 3D Digital Elevation Model

DEM is a digital representation of ground surface topography or terrain. It is also widely known as a digital terrain model (DTM). A DEM can be represented as a raster or as a triangular irregular network (TIN). DEMs are used often in Geographic Information Systems (GIS), and are most common basis for digitally produced relief maps.

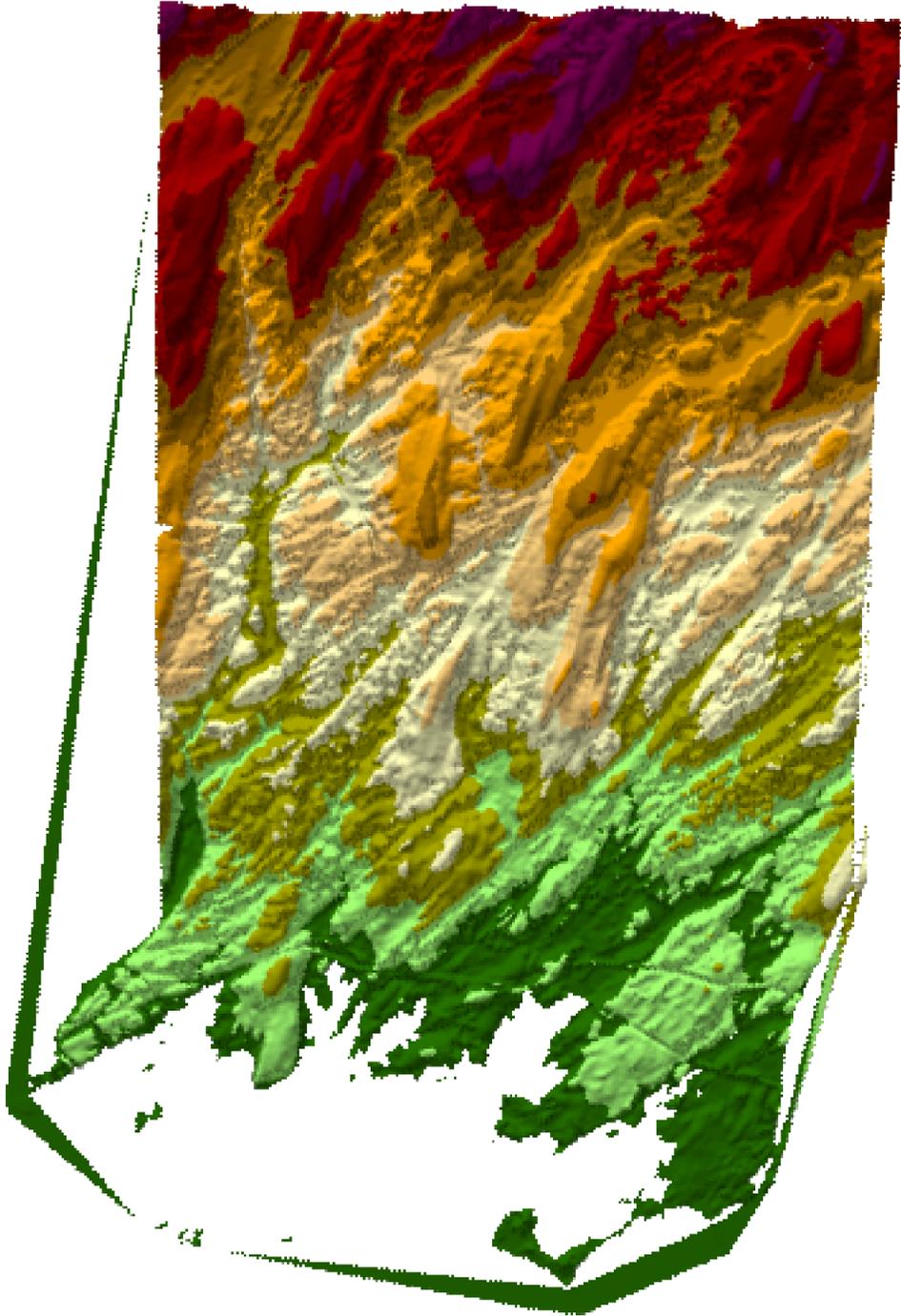
Common uses of DEMs include:

- Creation of relief maps
- Rendering of 3D visualizations
- Creation of physical models (including raised-relief maps)
- Terrain analysis

This map was generated utilizing ArcGIS 9.2 with the 3D Analyst Extension. The map simulates the sun's height (altitude) and location in the sky (azimuth) at 315 and 30 degrees. The model was generated using 10-foot intervals from Greenwich's 2-foot elevation contours. Elevation data was produced as part of the 2003 base map project which meets National Map Accuracy Standards at a scale of 1"= 40'.

Elevation in Feet

Dark Green	Under 43
Light Green	43 - 105
Olive Green	105 - 169
Yellow	169 - 229
Light Orange	229 - 286
Orange	286 - 343
Brown	343 - 398
Red	398 - 451
Dark Red	451 - 504
Purple	504 - 584



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Digital Elevation Model

0 9,500 19,000 38,000 Feet

