



GeoMedia Terrain

Terrain analysis and modeling are essential for many industries – from civil engineering to real estate, from commercial aviation to military deployment. Three-dimensional models and views increase the understanding of a site and communicate its features more effectively. For example, terrain knowledge allows better evaluation of construction sites and analysis of potential views, choosing a site for a home, determining possible flight path obstructions, selecting military emplacements, and much more.

Access multiple data sources

GeoMedia® Terrain is a powerful desktop package for basic elevation processing, terrain analysis, feature generation, and 3D visualization. It integrates elevation data from a number of sources directly into the GeoMedia workspace and accepts elevation data in all datums and projections supported by GeoMedia. Accepted elevation formats are:

- USGS Digital Elevation Model (DEM)
- USGS Spatial Data Transfer Specification (SDTS)
- Intergraph grid elevation data
- Digital Terrain Elevation Data (DTED1 and 2)
- GMT defined ASCII format

Terrain on the desktop

With powerful capabilities and a familiar Microsoft Windows®-based interface, GeoMedia Terrain allows you to analyze and model elevation data right on your desktop.

3D Coordinate Readout – Display shows the elevation, slope, and aspect based on the cursor position in a MapView.

Color-Coded Elevation – Display a color-coded representation of elevations over a selected area of a model using a full palette of 256 colors.

Shaded Relief – Display a gray-scale shaded representation of a model showing how the sun illuminates elevations.

Profile View – Generate a profile view of an elevation between two points or along a selected feature. The view can be tailored for vertical exaggeration, line colors, and weights.

Contour Generation – Create cartographic-quality contour features with user-specified intervals. Contours may include index label preferences and depression checks.

Slope-Polygon Generation – Create slope polygons from user specified ranges as features in a GeoMedia warehouse. Create spatial queries to locate areas of significant slope.

Aspect Polygon Generation – Create aspect polygons as features in a GeoMedia warehouse. Create displays or queries to indicate direction of terrain slope.

Visibility Polygon Generation – Create polygons indicating both visible and invisible areas from a user-specified viewpoint. Visibility polygons from different viewpoints can be intersected to detect locations hidden from view.

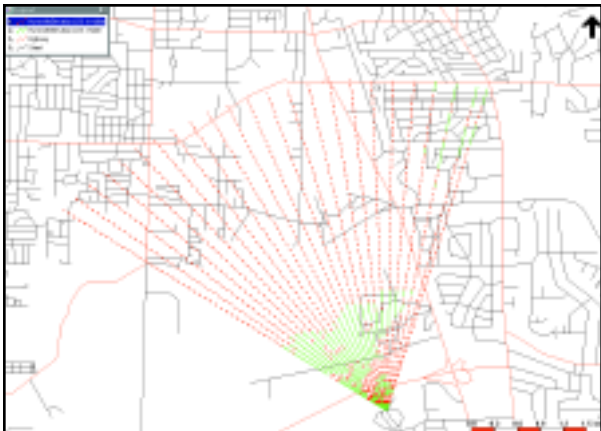
Generate realistic terrain models and flythroughs

GeoMedia Terrain software includes the ActiveTerrain modeling tools and real-world objects for easy desktop creation of 3D terrain models. You can generate models from elevation data, drape orthorectified imagery and maps over the model, and apply synthetic textures to create a realistic representation of the terrain.

ActiveFlight lets you view and dynamically fly through the 3D terrain models you create. You can fly through wireframe or image-draped models and 3D models of vehicles, buildings, and equipment in three different navigation modes: Free Roam, Fixed Height, or Terrain Avoidance. You can link the flythrough viewpoint to the 2D GeoMedia MapView to correlate your geographic location.

Bridge the gap between technology and productivity

Providing a comprehensive set of services for the open computing environment, Intergraph Mapping and Geospatial Solutions helps you get the most from your investment. Intergraph's experienced staff and consultants deliver professional services that include system integration, consulting, project services, and implementation.



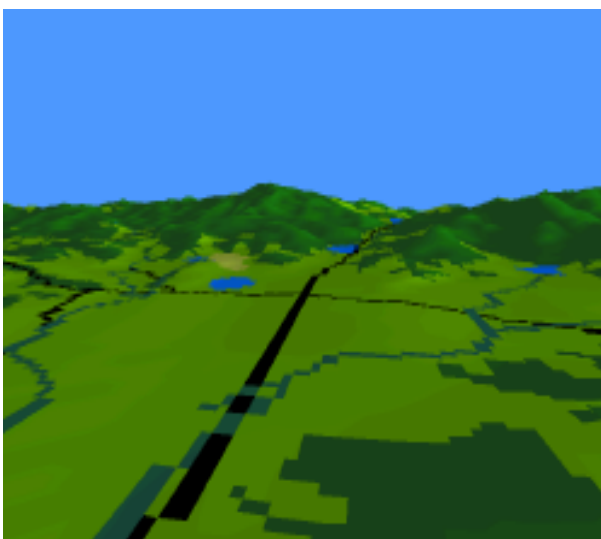
A Visibility Fan shows the visible or hidden portions of multiple Line-of-Sight rays from a specific viewpoint.

GeoMedia: Open from the start

As a founding and strategic member of the Open GIS Consortium (OGC™), Intergraph is a visible force in ongoing OGC initiatives for industry standards, and spearheads interoperability in the GIS and IT marketplace. Intergraph Mapping and Geospatial Solutions is committed to open systems solutions and data interoperability.

The Intergraph Solution

With 35 years of technology innovation to its credit, Intergraph understands the business challenges customers face every day. Our unique combination of pioneering technology and comprehensive professional services makes Intergraph Mapping and Geospatial Solutions the leading provider of customized geospatial solutions for local, regional, and national government entities; transportation and mapping agencies; utilities and communications companies; commercial remote sensing and photogrammetry organizations; military and intelligence agencies; educational institutions; and more.



A 3D Perspective view is created by draping the contents of a MapView window over the triangulated elevation model.

For more information, visit our Web site at <http://imgs.intergraph.com>.

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