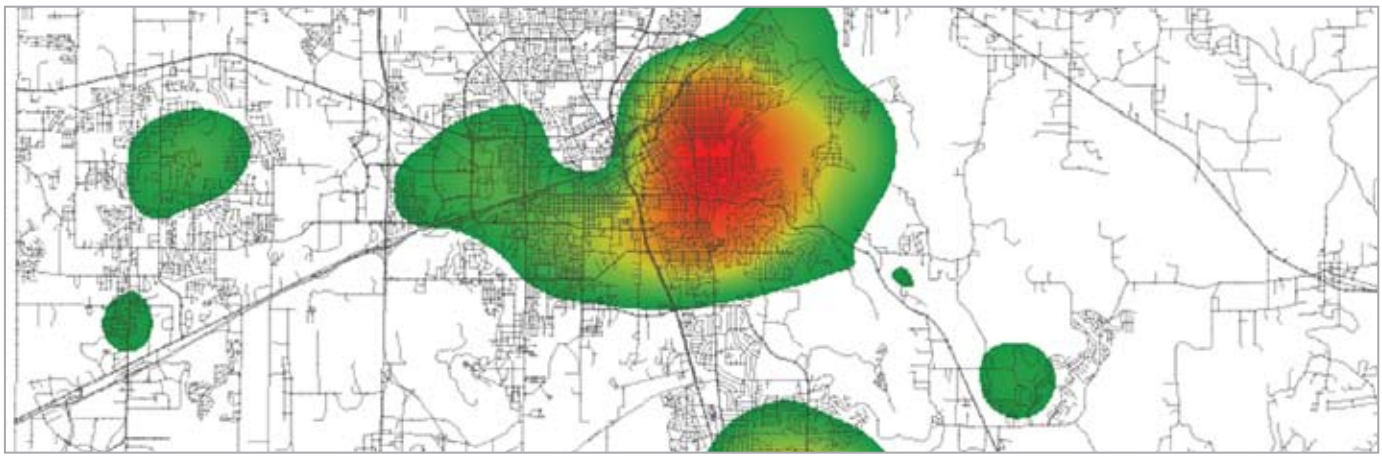
→ PRODUCT SHEET

GeoMedia® Grid



EASILY ANALYZE RASTER (GRID DATA)

Intergraph's GeoMedia® Grid provides you with seamless integration of vector and grid data formats for viewing and analysis. For example, most databases of urban features, such as street center lines, building footprints, utilities, and jurisdictional boundaries, use the vector point-line-polygon representation. However, the grid format can be used to augment these representations by extracting new information, giving you the ability to better understand spatial relationships. With GeoMedia Grid, you can take advantage of the strengths of both data formats without having to worry about data conversion and translation issues. You can easily apply the analysis and modeling techniques that best suit your specific needs.

GeoMedia Grid is ideally suited for complex spatial analysis, such as site location (locating the best site); corridor planning (finding the best path between multiple locations); and hot spot detection (spatial clustering of sparse points). Combining the strengths of vector geographic information systems (GIS) with the power of grid analysis tools, GeoMedia Grid enables you to seamlessly apply grid workflows from within GeoMedia, improving your data operability and expanding your data viewing facilities.

KEY FEATURES

GeoMedia Grid includes a number of key features:

- More than 45 grid analysis commands
- Fully customizable (access to every grid object through automation)
- Integrated grid editing facilities
- Grid-to-feature class conversion
- Feature class-to-grid conversion
- Grid re-projection (support for all GeoMedia projections and datums)
- Grid layer-to-warehouse attribute connectivity
- 3D visualization (including free fly and flight path modes)
- Grid layer map algebra through a map calculator

GEOMEDIA GRID TOOLKIT

GeoMedia Grid offers a full range of grid tools tightly integrated with GeoMedia. With this professional analysis toolkit you can explore spatial relationships in new and dynamic ways. You can access an expanded set of grid utilities, including surface processing, surface visualization, hot spot detection, and viewshed analysis. Examples are highlighted below.

- Figure 1 highlights GeoMedia Grid's shaded relief, blending, and isoline generation commands. The representation is based upon DEM data of Mount St. Helens.

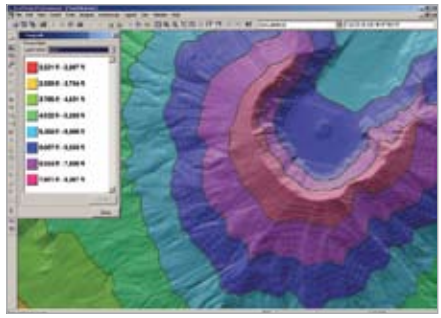


Figure 1 – Surface Processing

- Figure 2 was created using GeoMedia Grid's density interpolation and 3D view command. The representation is based upon a surface layer of crime locations, or hot spots.

Figure 2 – Surface Visualization

- Figure 3 features GeoMedia Grid's density interpolation and legend view commands. The representation is thematic surface incident locations. Red denotes higher concentration, whereas blue denotes lower concentration.

Figure 3 – Hot Spot Detection (Surface)

- Figure 4 was created using GeoMedia Grid's group and legend view commands. The group command is used to create choropleth maps. Grid areas can be converted to vector feature classes using the raster-to-vector command.

Figure 4 – Hot Spot Detection (Areas)

VIEWSHED ANALYSIS

Viewshed analysis is a fundamental technique in raster-based GIS. It has many applications in resource development and tourism. For example, resource forest companies can use viewshed analysis to help plan their cut blocks to those areas that cannot be viewed from highways or urban areas.

- Figure 5 features the IDW interpolation and legend view commands in GeoMedia Grid. The representation is a DEM. Dark green denotes lower areas, whereas light green denotes higher areas.

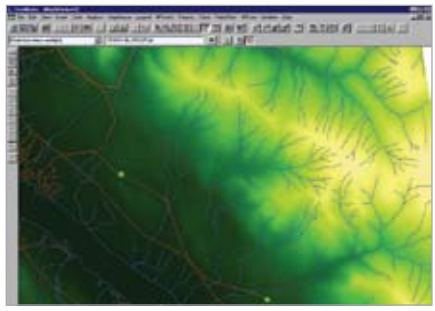


Figure 5 – Viewshed Analysis

- Figure 6 was created using GeoMedia Grid's IDW viewshed, shaded relief, and blending commands. The representation is a viewshed. Dark green denotes areas that can be seen from the three vantage points.

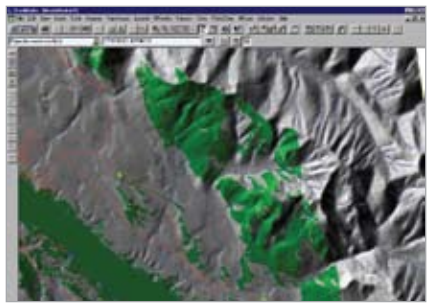


Figure 6 – Viewshed Analysis

ABOUT INTERGRAPH

Intergraph Corporation is the leading global provider of spatial information management (SIM) software. Security organizations, businesses and governments in more than 60 countries rely on the company's spatial technology and services to make better and faster operational decisions. Intergraph's customers organize vast amounts of complex data into understandable visual representations, creating intelligent maps, managing assets, building and operating better plants and ships, and protecting critical infrastructure and millions of people around the world.

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