GRASS GIS: Vascular Distribution of Grass Species by the GRASS GIS Team

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ABSTRACT

The support of PostGIS 2 Topology in GRASS GIS 7 is as follows:

- Points are stored in isolated nodes (containing no data).
- Vertices are stored as objects (id, x, y, z, 0).
- Lines are stored as edges (with id, start, end, right, 0).
- Areas are stored as faces (with id = 0, 0, 0).
- Isles are stored as faces (with id = 0, 0, 0).

Figure 3: Extended PostGIS Topology structure

Other Improvements & Additions

- v.distance: Calculates distance from points, lines, or areas to points, lines, or areas.
- v.overlay: Performs overlay analysis on vector layers.
- v.parallel: Creates a parallel vector layer.
- v.random: Generates random vector data.

Figure 1a: Basic and derived topological elements in GRASS GIS 7

Figure 5: On-Farm-Water-Storage Lidar survey and Depth-Volume-Area surveying [Chemin 2011]

References