GIS/Terrain Rendering/VRML

2-D Java GIS Terrain Viewer

- **Improved performance, capabilities, and interface over initial version.**
- **Added database support and census data to enable searching for towns and other named places in New York State, and obtaining information (population, elevation, etc) about towns.**
- **Added capability to search for towns and places within a particular area or radius.**
- **Investigating the use of the new JDBC Java database interface standard and other new Java libraries and APIs.**

3-D VRML Terrain Viewer

- **Improved performance, capabilities, and interface over initial version.**
- **Added improved database support for storing terrain and other data.**
- **Improved the implementation of the level of detail to optimize the amount of data to be downloaded and displayed.**
- **Implemented polygon optimization using wavelet techniques and texture mapping of polygons in order to reduce the of number of polygons to be downloaded and rendered, while maintaining good image quality.**
- **Investigating possible useful features of VRML 2.0, and integration with the Java GIS program.**