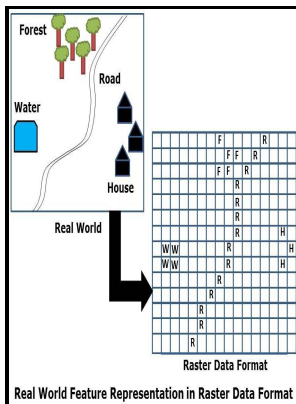


GIS modeling in raster

J. Wiley - GIS Modeling in Raster



Description: -

- Geographic information systems. GIS modeling in raster

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Notes: Includes bibliographical references (p. 191-196) and index.

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The following image shows the difference in cell sizes, area, and number of cells for two configurations of the same total area: Cells may either have a value 0-infinity or no value null, or no data. An inference function understands the trained model data file and provides the inferencing logic.

The GIS Spatial Data Model

Thematic maps can also result from geoprocessing operations that combine data from various sources, such as vector, raster, and terrain data. In the example below, if the raster is in a Universal Transverse Mercator UTM projected coordinate system and has a cell size of 100, the cell location at 5,1 would be 300,500 East, 5,900,600 North. Alternatively, the raster graphic can reference a database management system wherein open-ended attribute tables can be used to associate multiple data values to each pixel.

What is raster data?—Help

Depending on the type of features they represent, and the purpose to which the data will be applied, layers will be one of 2 major types. Whereas with vector data, each point, node, and vertex has an explicit and absolute coordinate location, raster cells are georeferenced relative to the layer's coordinate origin. You can use individual raster functions, or you can use the to combine multiple raster functions into processing chains, or raster function templates, using the visual programming tools.

What is raster data?—Help

The dimension of the cells can be as large or as small as needed to represent the surface conveyed by the raster dataset and the features within the surface, such as a square kilometer, square foot, or even square centimeter.

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