3-D Maps, Geospatial Data and Projections using MATLAB

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MATLAB Mapping Toolbox provides tools and utilities for analyzing geographic data and creating map displays. You can import vector and raster data from shapefile, GeoTIFF, SDTS DEM, and other file formats, as well as Web-based data from Web Map Service (WMS) servers. The toolbox lets you customize the imported data by subsetting, trimming, intersecting, adjusting spatial resolution, and applying other methods. Geographic data can be combined with base map layers from multiple sources in a single map display. With function-level access to all key features, you can automate frequent tasks in your geospatial workflow. The more important features are de next: Making Three-Dimensional Maps Shading and Lighting Terrain Maps Surface Relief Shading Colored Surface Shaded Relief Relief Mapping with Light Objects Draping Data on Elevation Maps Draping Geoid Heights over Topography Draping Data over Terrain with Different Gridding Working with the Globe Display Displaying a Rotating Globe Customizing and Printing Maps Graphic Scales Thematic Maps Using Colormaps and Colorbars Contour Colormaps Printing Maps to Scale Manipulating Geospatial Data Manipulating Vector Geodata Geographic Interpolation of Vectors Calculating Polygon Area Overlaying Polygons with Set Logic Cutting Polygons at the Date Line Building Buffer Zones Data Grids as Logical Variables Using Map Projections and Coordinate Systems Cylindrical Projections Conic Projections Azimuthal Projections Projection Aspect Projection Parameters Accessing, Computing, and Inverting Map Projection Creating Web Map Service Maps

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