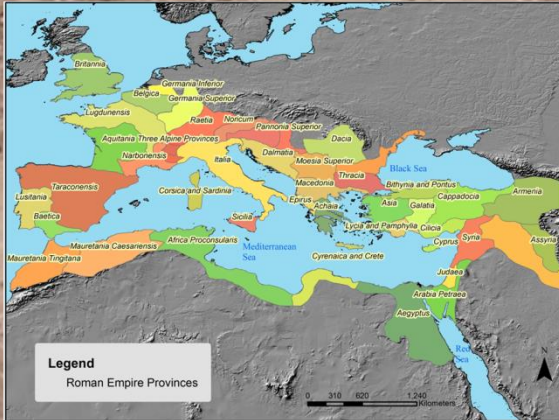


GIS Day 2014

Additional Resources

Larry Theller



Additional GIS Resources

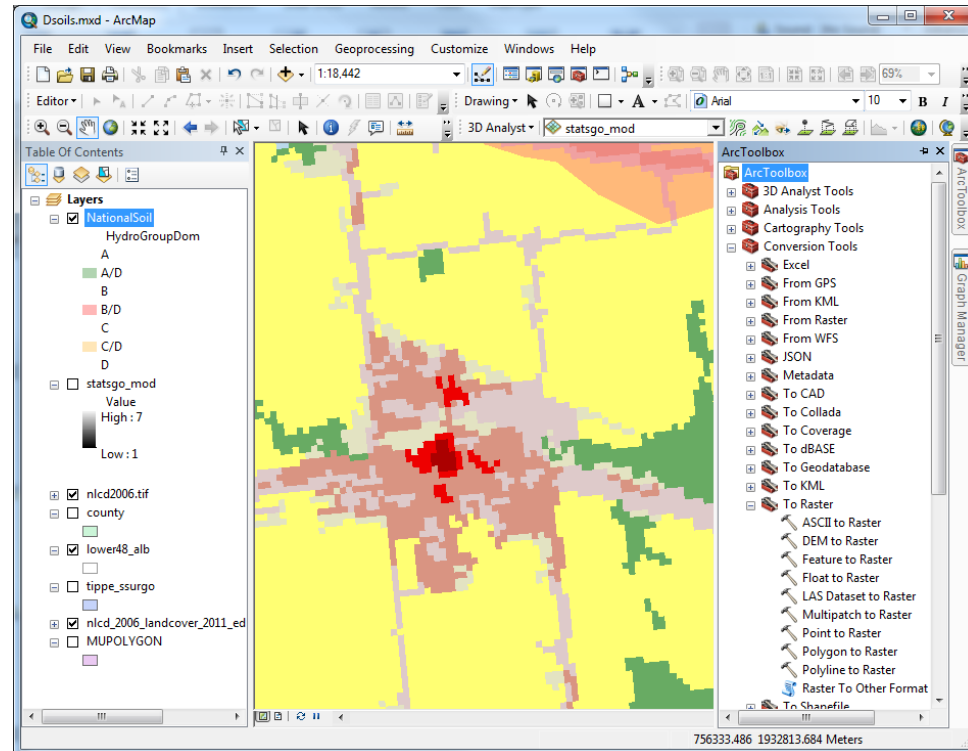
- Free ArcGIS Software (Purdue student license)
- GIS Listserv - a campus connection
- Free Training from ESRI for Purdue Students

ArcGIS Student License

- Seek and register a code.
- Download either 10.1 or 10.2
- ArcInfo Advanced level
- Full Extensions: Spatial, network, 3D, geostatistical
- Good for 12 months.
- Windows only.

Purdue Student License

- Email: theller@purdue.edu
- Or email: biehl@purdue.edu
- Or email: kongn@purdue.edu



GIS Listserve

- Messages about jobs and data.
- Sometimes promotes webinars.
- Moderated list
- Email: theller@purdue.edu

- Introduction
 - Creating 3D surfaces
 - Surface feature types
 - Mass points
 - Breaklines
 - Replace polygons
 - Clip polygons
 - Hard or soft surface feature types
 - Create a TIN
 - Create a terrain dataset
 - Creating 3D features
 - Creating 3D features using surface values
 - Creating 3D features using an attribute value
 - Extruding between surfaces
 - Create 3D features from 2D features
 - Review
 - Exam
 - Evaluation
 - What's next

The WellFormationTops layer displays in 3D space and represents the top of each geologic formation.

Step 4: Create TIN surfaces for geologic formations

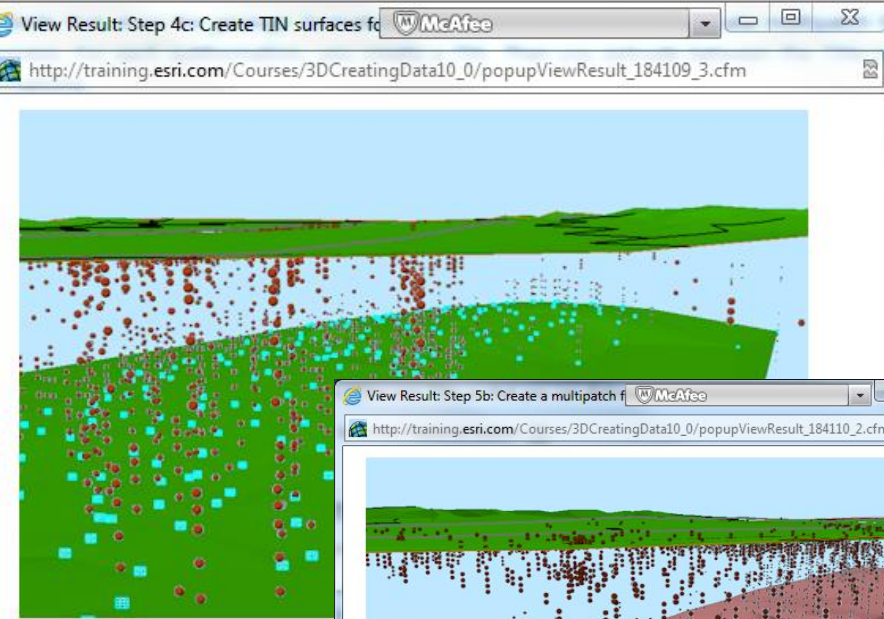
The WellFormationTops layer contains a series of points representing the top of each geologic formation. This is a simple two-step process where you'll create TINs for two of the surfaces.

You'll create a multipatch that represents the top of each geologic formation.

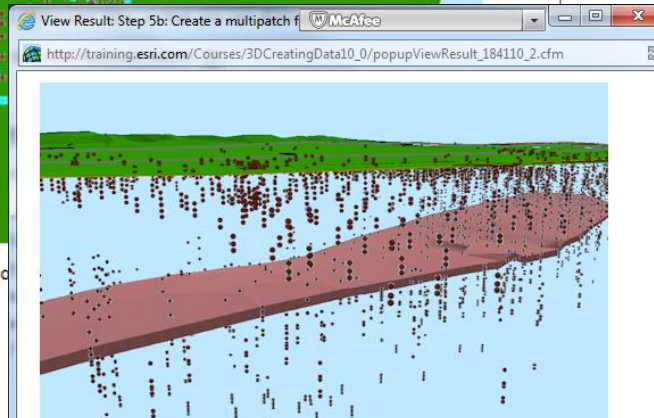
- From the Selection menu, click Selection > Select By Attributes > Query Builder.
- Create a new selection from the Query Builder dialog box.
- Click OK.

You'll see a series of points selected in the 3D scene.

- Now you'll create a TIN surface from the selected points.
- Search for and open the Create TIN Surface tool.
- Output TIN: ..\Student\3D\TIN Surfaces\WellFormationTops
- Spatial Reference: NAD_1983_Contiguous_US
- Input Feature Class: WellFormationTops
- Click OK.
- Navigate your scene to see the results.



View Result: Step 4c: Create TIN surfaces for geologic formations



View Result: Step 5b: Create a multipatch from TIN surfaces

Virtual Courses – Long and short

- Learning ArcGIS Desktop
- Solving Spatial Problems Using ArcGIS
- 3D Analysis of Surfaces and Features Using ArcGIS
-
- 3D Visualization Techniques Using ArcGIS
- Building Models for GIS Analysis Using ArcGIS

Virtual Courses – Long and short

- Creating and Integrating Data for Natural Resource Applications
- Using Lidar Data in ArcGIS
- Advanced Techniques for Cartographic Representations
- Performing Spatial Interpolation Using ArcGIS
- Python Scripting for Geoprocessing Workflows

Virtual Courses – Long and short

- Basics of Map Projections
- Deriving Rasters for Terrain Analysis Using ArcGIS
- Exploring Spatial Patterns in Your Data Using ArcGIS
- Managing Lidar Data Using Terrain Datasets
- Introduction to the Hazus-MH 2.0 Storm Surge Model

Virtual Courses – Long and short

- Basics of Python (for ArcGIS 10)
- Managing Lidar Data Using LAS Datasets
- Loss Estimation Using the Hazus-MH 2.0 Earthquake Model
- Introduction to Surface Modeling
- The 15-Minute Map: Creating a Basic Map in ArcMap

Virtual Campus

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- Or email: biehl@purdue.edu
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The End