

Map Design



The TNTgis products include a full suite of interactive map design tools to aid you in styling and layout for maps of any type, complexity, and map scale. Interactive layout tools let you add map grids, automatic scale bars, legends, annotation text, and index maps with fine control over the positioning of each element in the layout. Maps can be designed for hardcopy printing, electronic delivery as an atlas, or both. Hardcopy layouts also can be rendered to PDF for easy electronic distribution. Complex map design can be accomplished in TNTmips, TNTedit, and TNTview.

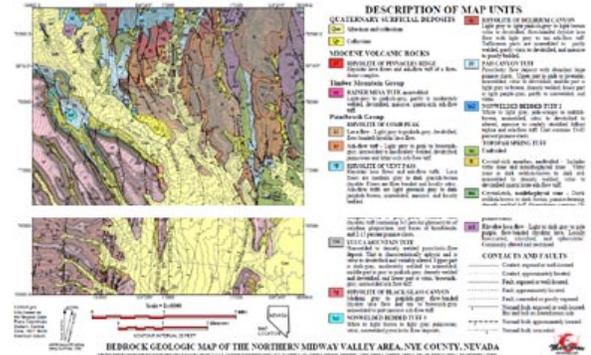
Map Design Highlights:

- Design layouts for electronic atlases to be viewed at any scale or fixed-scale hardcopy layouts
- Overlay map and image components in any number of coordinate reference systems to match a target reference system
- Incorporate any combination of raster, vector, shape, CAD, TIN, terrain, and pin map layers in one or more logical groups for your map
- Include layers in a wide variety of external formats without importing (e.g., JP2, MrSID, GeoTIFF, shapefile, DGN, DXF, geodatabases)
- Include map and image components published on the Internet as web tilesets or by a Web Map Service (WMS) and/or ArcIMS
- Add map grids in one or more projections with control over coordinate display format
- Add scale bars that automatically adjust to changes in map scale
- Add multiple scale bars using different units, with full control over bar length, intervals, and labels
- Add complex legends for multiple layers with automated generation of style samples and full control over sample size, text styles, and legend layout
- Incorporate index maps and detailed map insets at appropriate scales
- Attach layout components to the page or to other components and precisely position each component
- Use geographic attachment to organize many layers into logical groups and still obtain precise geographic overlay
- Incorporate 3D perspective groups and anaglyph stereo images
- Apply borders, background colors, and drop-shadows to layout components
- Interactively scale logos and other nongeoreferenced objects
- Create templates for use with maps in a series
- Render complete complex map layouts to PDF with embedded georeference

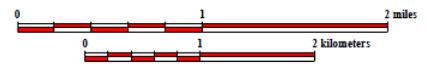
Free TNTAtlas for Windows and Mac

The free TNTAtlas program for Windows and Mac lets you view maps created in TNTmips in their original form with no size restrictions. You turn individual layers on and off and view all database information associated with the layers.

For more information see: [Technical Guides on Map Design](#), [Making Map Layouts tutorial](#), and [discipline-specific Map Design tutorials](#) at the MicroImages website.



Portions of a geologic map layout prepared in TNTmips



Scale bars using different units

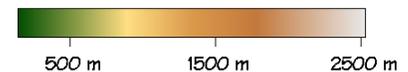
MIOCENE VOLCANIC ROCKS

pr RHYOLITE OF PINNACLES RIDGE
Rhyolitic lava flows and ash-flow tuff of a flow-dome complex.

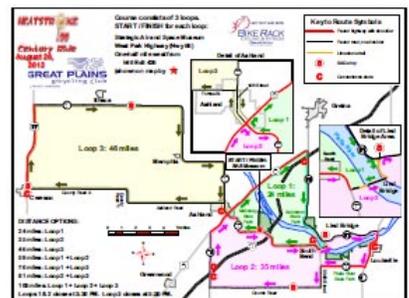
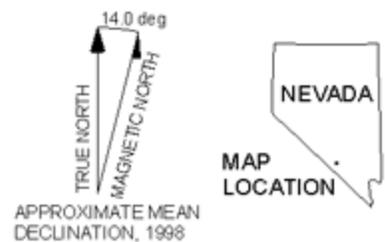
Timber Mountain Group

mt RAINIER MESA TUFF, nonwelded
Light-gray to pinkish-gray, partly to moderately welded, devitrified, massive, quartz-rich ash-flow tuff.

Detailed legends for maps



Continuous color scale and color scale range legends for raster layers



Complex map layout rendered to PDF