

The following was presented at DMT'12
(May 20-23, 2012).

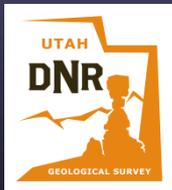
The contents are provisional and will be
superseded by a paper in the
DMT'12 Proceedings.

See also earlier Proceedings (1997-2011)

<http://ngmdb.usgs.gov/info/dmt/>

US Topo Annotation and Font Replacement Issues

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Utah Geological Survey



2012 Digital Mapping Techniques
Champaign, Illinois
May 20-23

US Topo Font Replacement

What is the issue?

US Topo Font Replacement

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- Licensed commercial fonts are currently used on US Topo maps

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- US Topo annotations are problematic for end-users without these fonts

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- US Topo annotations are problematic for end-users without these fonts
- ArcGIS automatically replaces missing fonts with Arial, which adversely changes the map layout

US Topo Font Replacement

What is the issue?

- Licensed commercial fonts are currently used on US Topo maps
- US Topo annotations are problematic for end-users without these fonts
- ArcGIS automatically replaces missing fonts with Arial, which adversely changes the map layout
- Are suitable alternatives distributed with Windows?

US Topo Font Replacement

US Topo Fonts

- **Souvenir** and **Univers** are commercial fonts

US Topo Font Replacement

US Topo – ITC Souvenir Medium

Souvenir

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84), Projection and
1 000-meter grid: Universal Transverse Mercator, Zone 12S
10 000-foot ticks: Utah Coordinate System of 1983 (south
zone), Arizona Coordinate System of 1983 (west zone)

Bookman Old Style

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Palatino Linotype

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Times New Roman

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Adobe Garamond Pro

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Calisto MT

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Georgia

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Cambria

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US Topo Font Replacement

US Topo – ITC Souvenir Medium

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US Topo Font Replacement

US Topo – Univers 55

Univers 55

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Myriad Pro

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Arial

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Segoe UI

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Tahoma

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US Topo Font Replacement

US Topo – Univers 55

Univers 55

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zone), Arizona Coordinate System of 1983 (west zone)

US Topo Font Replacement

US Topo Fonts

- **Souvenir** and **Univers** are commercial fonts
- Suggested replacements are **Georgia** and **Arial**

US Topo Font Replacement

Souvenir

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Georgia

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World Geodetic System of 1984 (WGS84), Projection and

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Univers55

Produced by the United States Geological Survey

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Arial

Produced by the United States Geological Survey

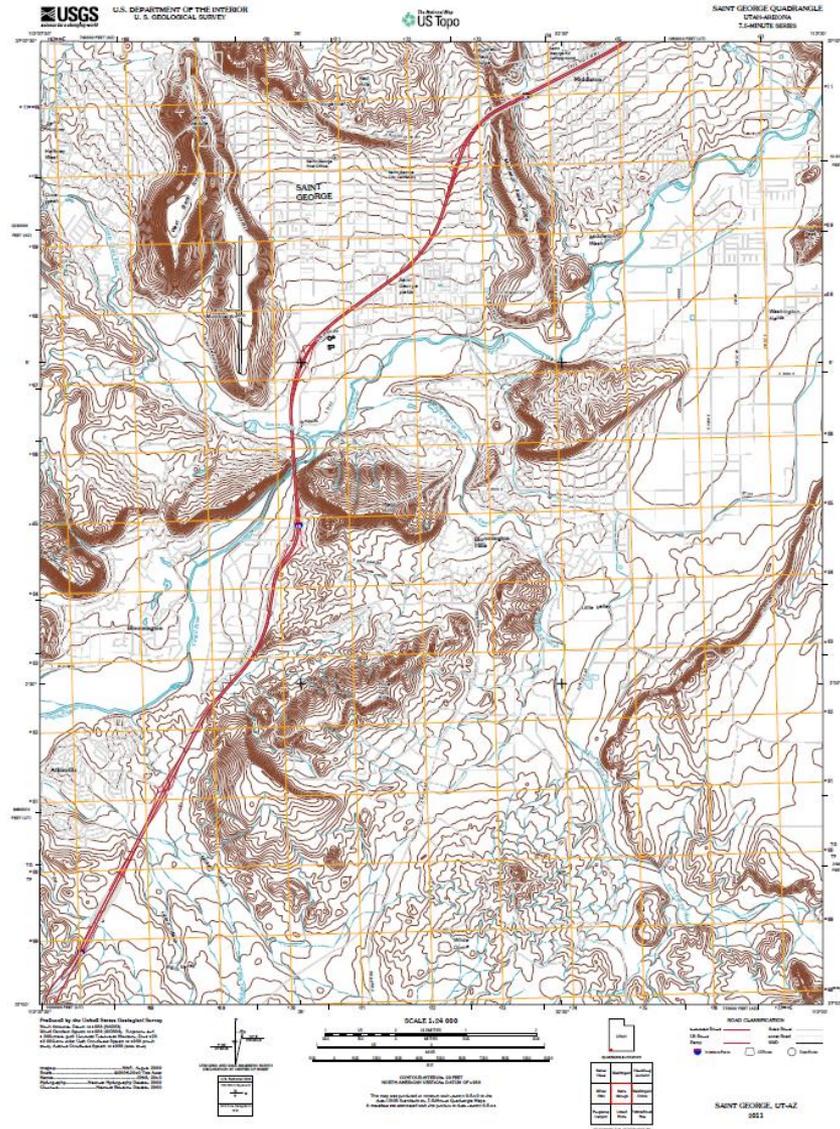
North American Datum of 1983 (NAD83)

World Geodetic System of 1984 (WGS84), Projection and

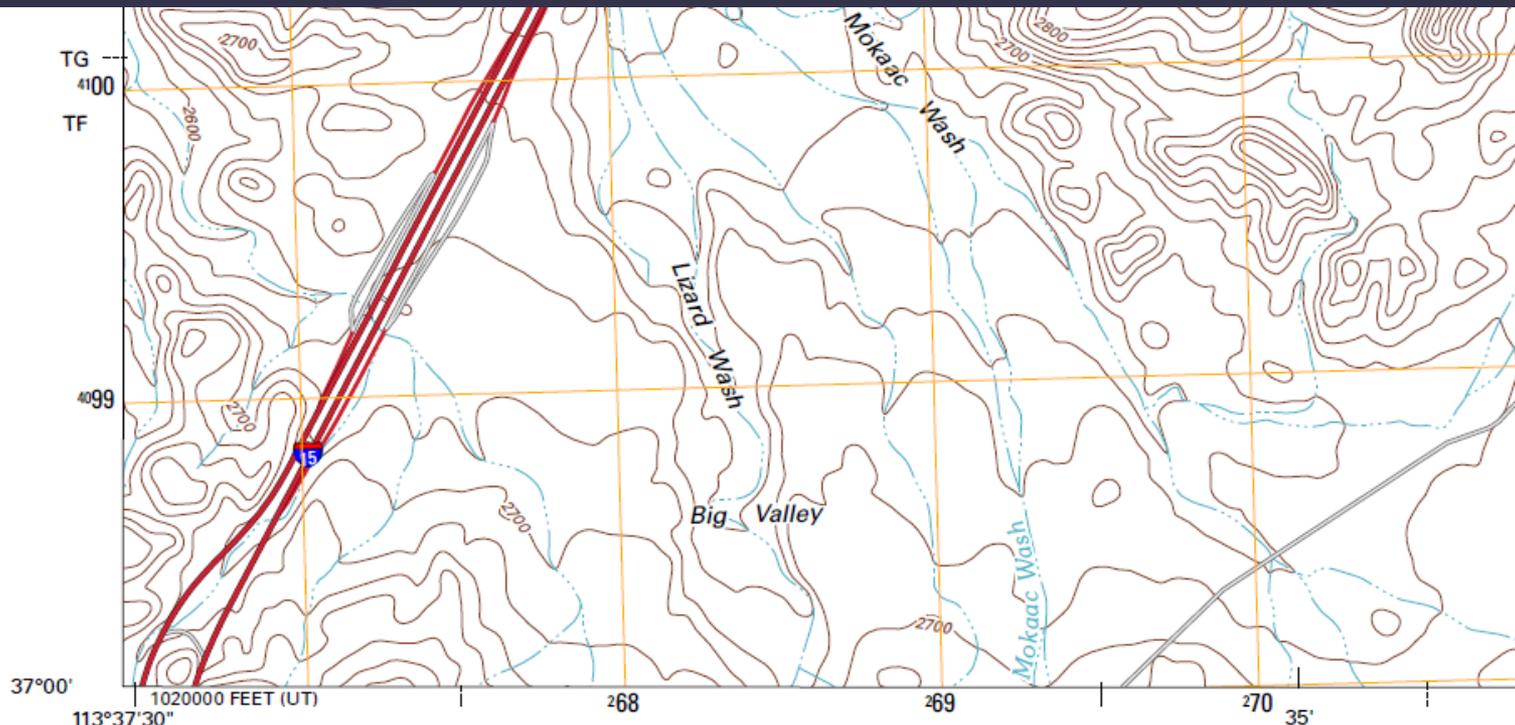
1 000-meter grid: Universal Transverse Mercator, Zone 12S

10 000-foot ticks: Utah Coordinate System of 1983 (south zone), Arizona Coordinate System of 1983 (west zone)

US Topo

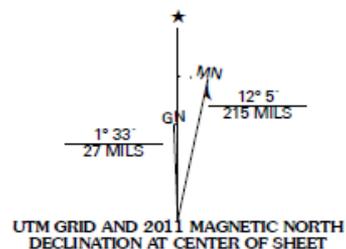


US Topo Fonts – Souvenir and Univers



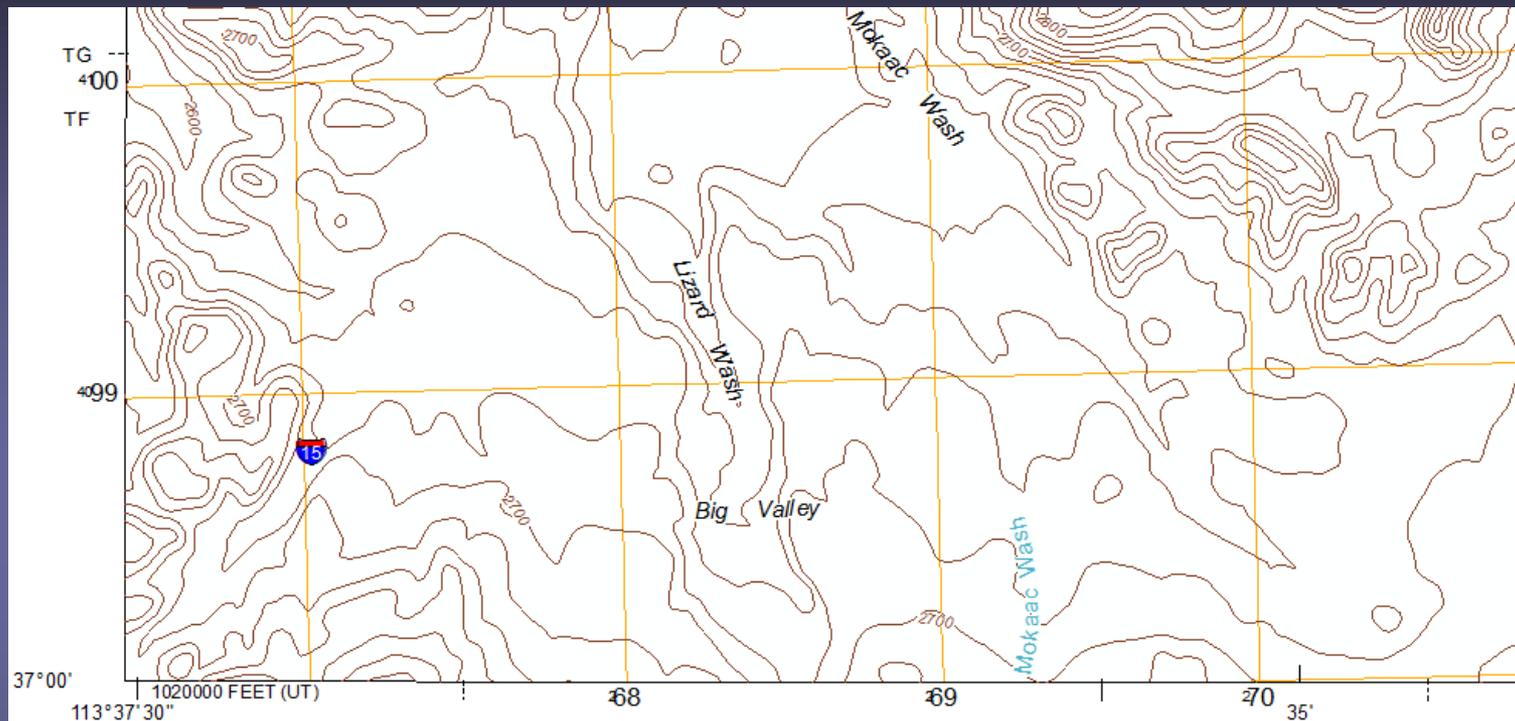
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Imagery.....NAIP, August 2009
 Roads.....©2006-2010 Tele Atlas
 Names.....GNIS, 2010
 Hydrography.....National Hydrography Dataset, 2009
 Contours.....National Elevation Dataset, 2000



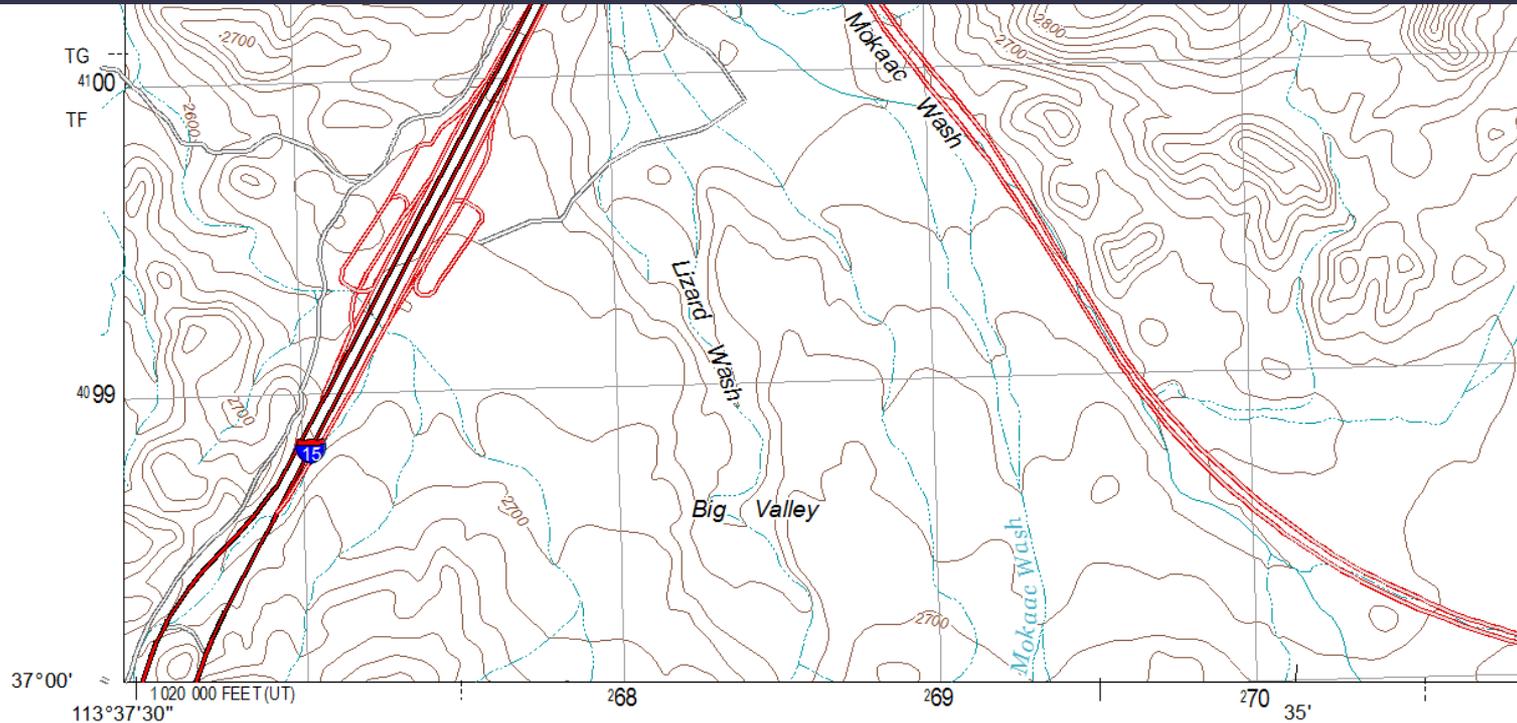
U.S. National Grid
100,000-m Square ID
TG
TF
Grid Zone Designation
12S

Missing Fonts Substituted With Arial



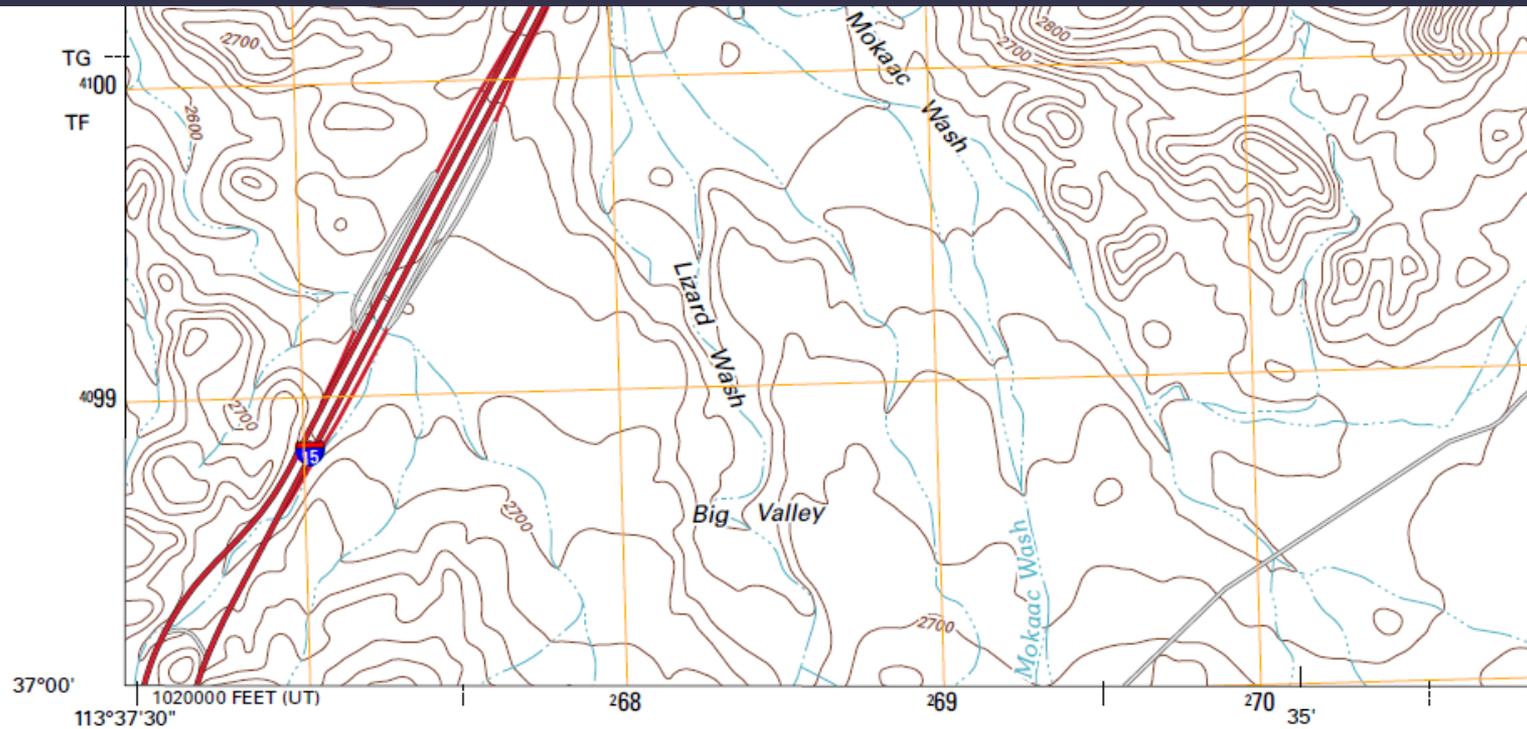
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US Topo Using Georgia and Arial



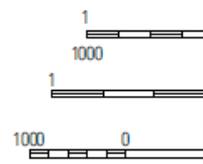
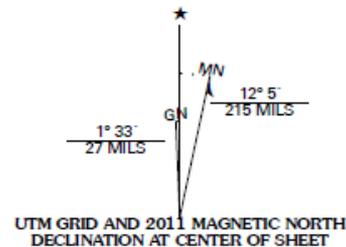
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US Topo Fonts – Souvenir and Univers



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U.S. National Grid
100,000-m Square ID
TG
TF
Grid Zone Designation
12S

US Topo Font Replacement

US Topo Fonts

Souvenir medium - *Souvenir light italic*

US Topo Font Replacement

US Topo Fonts

Souvenir medium - *Souvenir light italic*

Georgia

US Topo Font Replacement

US Topo Fonts

Souvenir medium - *Souvenir light italic*

Georgia Georgia

US Topo Font Replacement

US Topo Fonts

Souvenir medium - *Souvenir light italic*

Georgia Georgia - *Georgia italic*

US Topo Font Replacement

US Topo Fonts

Souvenir medium - *Souvenir light italic*

Georgia Georgia - *Georgia italic*

Univers - *Univers italic*

US Topo Font Replacement

US Topo Fonts

Souvenir medium - *Souvenir light italic*

Georgia Georgia - *Georgia italic*

Univers - *Univers italic*

Arial - *Arial italic*

US Topo Font Replacement

US Topo Fonts

Georgia and Arial fonts are distributed with Windows XP, Windows Vista, and Windows 7

US Topo Font Replacement

We recommend that US Topo production be modified to use standard fonts distributed with Microsoft Windows, such as Georgia and Arial, to eliminate unwanted automatic font substitution in ArcGIS.