Installing FGDCGeoAge for Use in ArcInfo Workstation

Font Types

The FGDCGeoAge font has been created in both PostScript (Type 1) and TrueType versions, and each of these font types has been formatted for use on Windows and UNIX systems (UNIX systems can use the same font files that have been formatted for Windows), as well as on Macintosh systems.

ArcInfo Workstation can use either PostScript or TrueType fonts; however, fonts must be located in a special ArcInfo fonts directory for use in ArcInfo Workstation. In addition, fonts in ArcInfo Workstation usually are accessed through a "textset," and a separate "fontindex" file also is required. This document discusses the additional files needed and steps required for installation of the FGDCGeoAge font on either a Windows or UNIX system, for use with ArcInfo Workstation.

Font Types Used by Windows Systems -- Windows systems can use either Postscript or TrueType fonts, and both types of fonts will work in ArcInfo Workstation run on Windows. However, using PostScript fonts in ArcInfo Workstation allows the option of embedding the fonts in EPS files that are generated with the ArcInfo "postscript" command, which means that the type will remain editable as text when the EPS file is opened in a graphics program such as Adobe Illustrator. If TrueType fonts are used in ArcInfo Workstation, all type will be "contoured" (outlined) when the "postscript" command is issued, which means that the type in the EPS file will no longer be editable as text.

Font Types Used by UNIX Systems -- UNIX systems can use font files formatted for Windows systems, either the PostScript or TrueType versions, and both types of fonts will work in ArcInfo Workstation. However, the same results are achieved on UNIX systems as on Windows systems when the "postscript" command is issued in ArcInfo Workstation. If TrueType fonts are used, all type specified as TrueType will be "contoured" (outlined) and will no longer be editable as text in the EPS file; if PostScript fonts are used, all type specified as PostScript can be embedded in the EPS file, which means that the text will remain editable.

Textset "geofont.txt"

A textset is a file used by ArcInfo Workstation to access and display fonts. Each font (or variety thereof) is assigned a textsymbol number in a textset (or textsets); thus, to access a particular font, a textset name and textsymbol number is specified. In addition, each textsymbol in a textset may contain other parameters, such size, color, and spacing, that can modify the way a font is displayed.

The ArcInfo textset "geofont.txt" that is included in this publication was built by adding the FGDCGeoAge fonts to a copy of the standard textset "font.txt" that is installed with ArcInfo software. In "geofont.txt," the first 29 textsymbols refer to the Agfa Intellifont fonts that are distributed with ArcInfo; textsymbols 42 and 44 refer to the PostScript and TrueType versions of the FGDCGeoAge font, respectively (see "Appendix I" for the contents of "geofont.txt").

Older Versions of "geofont.txt" -- If you have an older version of the textset "geofont.txt" installed on your system, it should be replaced with the one that is included in this publication; however, doing so will remove your access to two previously released "legacy" geologic age symbol fonts, Stratagem and GeoAge, both of which have been superceded by the FGDCGeoAge font. The FGDCGeoAge font contains most of the same geologic age symbols that are in these legacy fonts; however, a few age symbol characters in FGDCGeoAge are not in the same keyboard positions as in Stratagem and GeoAge, and so some age symbols specified by these legacy fonts might not display or print correctly (or at all). Therefore, if you have a map project that uses either of these two legacy fonts, you should consider retaining a copy of the older version of "geofont.txt" in the workspace(s) for your older map projects; in addition, you also will need to retain your existing fontindex file and append it with the reference information for FGDCGeoAge (see discussion in next section).

Fontindex File

When a font is specified in ArcInfo Workstation, a fontindex file is used to associate the font (its name, internal font ID number, and other parameters) with the pathname to the actual font files. The fontindex file is read automatically by ArcInfo Workstation at startup to initialize installed fonts, allowing the fonts to be accessed either by specifying a font name or ID number or by specifying a textset and a textsymbol number in that textset.

Two fontindex files are included in this publication. The first, "fontindex_fgdc4," is a complete, stand-alone fontindex file that can be used "as-is" to replace the default file that is installed with ArcInfo software or

another pre-existing fontindex file. However, replacing your pre-existing fontindex file will remove your access to any custom or legacy fonts that you may have installed previously. If you have modified your existing fontindex file to include other custom or legacy font references, it is best to not replace that file but, instead, to add the reference information for FGDCGeoAge to that existing file. The reference information for the FGDCGeoAge font is contained in the second fontindex file, "fontindex_fgdc4_append," that is included in this publication. Use a text editor to append the contents of "fontindex_fgdc4_append" to the end of your existing fontindex file (see "Appendix II" for the contents of "fontindex_fgdc4_append").

Files Included in this Publication

Included in this publication are the following files, which are needed to use the FGDCGeoAge geologic age symbol font in ArcInfo Workstation:

Description	File/Folder Name	Comment
Font folder:	fgdcgeoage	directory containing font files
Font files:	FGDCGA__.TTF	TrueType version of FGDCGeoAge
	FGDCGA__.FON	PostScript version of FGDCGeoAge (bitmap file)
	FGDCGA__.PFB	PostScript version of FGDCGeoAge (font binary file)
	FGDCGA__.PFM	PostScript version of FGDCGeoAge (font metrics file)
Textset:	geofont_fgdc4.txt	to be renamed as "geofont.txt"
Fontindex files:	fontindex_fgdc4	complete, stand-alone fontindex file; to be renamed as "fontindex"
	fontindex_fgdc4_append	contains only references to the FGDCGeoAge font that can, if needed, be added to a pre-existing fontindex file

Installing the FGDCGeoAge Font and Associated Files for Use in ArcInfo Workstation

Both Windows and UNIX systems have font directories at the system level. However, ArcInfo Workstation does not use any font files stored in either the Windows or UNIX system *Fonts* directory; in addition, other applications ignore the font files in the ArcInfo Workstation *fonts* directory. Therefore, font files must be installed in two places to serve both ArcInfo Workstation and other applications.

Before installing any files, examine the contents of the directories in the *$ARCHOME* installation locations given below to see if any of the files already exist. If they do, rename the original files to preserve them (for example, rename "fontindex" to "fontindex_original").

Copy the "Source File" to the "Installation Location" shown below; when copying a file, replace the *$ARCHOME* variable with the pathname to your own ArcInfo Home Directory (in other words, where your ArcInfo Workstation software is installed -- on a typical Windows system, this will be *C:\ArcGIS\arcexe9x*). If the "Source File" differs from the "Name" below, rename the "Source File" to the name given under "Name."

Description	Source File	Name	Installation Location	Pathname After Installation
Fontindex file:	fontindex_fgdc4[1]	fontindex	*$ARCHOME/locale/c/*[2]	*$ARCHOME/locale/c/fontindex*
Textset:	geofont_fgdc4.txt	geofont.txt	*$ARCHOME/symbols/*[3]	*$ARCHOME/symbols/geofont.txt*
Font folder:	fgdcgeoage[4]	fgdcgeoage	*$ARCHOME/fonts/*	*$ARCHOME/fonts/fgdcgeoage/*[5]

[1] use either this file or a pre-existing fontindex file that has had the reference information for the FGDCGeoAge font (from "fontindex_fgdc4_append") added to it

[2] the fontindex file can only be found by ArcInfo Workstation if it resides in this directory

[3] geofont.txt will be accessible to all users and all workspaces if it resides in this *symbols* directory -- it also can be placed in a particular workspace, but it will be accessible only to that workspace

[4] do not remove the font files from this folder, and do not rename this folder -- install the font folder containing the font files "as-is" to preserve pathnames given in fontindex file

[5] individual font files will reside in the *fgdcgeoage* directory

After installing the files, you will need to quit and then restart ArcInfo Workstation before using the new font(s). It should not be necessary to restart your computer; however, if you do experience problems after installing the font(s), it is best to restart your computer.

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Appendix I - Contents of "geofont.txt"

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Textsymbol[1]	Font#	Font Style[2]	Spacing[3]	Font Type[4]	Color	Name
1	94021	SS	P	Intel	Black	Univers Medium Plain
2	94022	SS	P	Intel	Black	Univers Medium Italic
3	94023	SS	P	Intel	Black	Univers Medium Bold
4	94024	SS	P	Intel	Black	Univers Medium Bold Italic
5	94027	SS	P	Intel	Black	Univers Extrabold Plain
6	93709	SS	P	Intel	Black	Triumvirate Plain
7	93710	SS	P	Intel	Black	Triumvirate Italic
8	93711	SS	P	Intel	Black	Triumvirate Bold
9	93712	SS	P	Intel	Black	Triumvirate Bold Italic
10	93726	SS	P	Intel	Black	Triumvirate Condensed Plain
11	93727	SS	P	Intel	Black	Triumvirate Condensed Italic
12	93728	SS	P	Intel	Black	Triumvirate Condensed Bold
13	93729	SS	P	Intel	Black	Triumvirate Condensed Bold Italic
14	93713	S	P	Intel	Black	Times
15	93714	S	P	Intel	Black	Times Italic
16	93715	S	P	Intel	Black	Times Bold
17	93716	S	P	Intel	Black	Times Bold Italic
18	92506	SS	P	Intel	Black	Omega Plain
19	92507	SS	P	Intel	Black	Omega Italic
20	92510	SS	P	Intel	Black	Omega Bold
21	92511	SS	P	Intel	Black	Omega Bold Italic
22	92532	S	P	Intel	Black	Placio Plain
23	92533	S	P	Intel	Black	Placio Italic
24	92534	S	P	Intel	Black	Placio Bold
25	92535	S	P	Intel	Black	Placio Bold Italic
26	92950	S	N	Intel	Black	Courier Plain
27	92951	S	N	Intel	Black	Courier Italic
28	92952	S	N	Intel	Black	Courier Bold
29	92953	S	N	Intel	Black	Courier Bold Italic

42	4555570	SS	P	PS	Black	FGDCGeoAge
44	1570	SS	P	TT	Black	FGDCGeoAge

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[1] Symbol(s) 1–29:   Standard fonts from "font.txt" (distributed with ArcInfo software by ESRI)
       "   30-35:   Reserved for legacy geologic age symbol font Stratagem (PostScript and TrueType versions)
       "   36-41:   Reserved for legacy geologic age symbol font GeoAge (PostScript and TrueType versions)
       "   42:   FGDCGeoAge geologic age symbol font (PostScript version)
       "   44:   FGDCGeoAge geologic age symbol font (TrueType version)

[2] Font Style: SS = sans-serif font; S = serif font
[3] Spacing: P = proportionally spaced; N = not proportionally spaced
[4] Font Type: PS = PostScript; TT = TrueType; Intel = Intellifont (Agfa Compugraphics)

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Appendix II - Contents of "fontindex_fgdc4_append"

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/* Lines to Append to "fontindex" file for ARC/INFO Workstation v9.x
/* Fonts referenced in this section are:
/*  FGDCGeoAge 1.0  (Postscript & TrueType)
/* =====================================================

/* ----------------------------------------------------
/* FGDCGeoAge fonts.  Replacement for Stratagem & GeoAge, WPG, USGS, 06.10.29
/* FGDCGeoAge group 1.0  (Mod. 06.10.29, WPG, USGS)
/* Sans serif fonts with geologic age char. in place of some standard char.
/* This fontindex section references both Postscript & TrueType fonts
/* Fonts to be stored in:  $ARCHOME/fonts/FGDCgeoage/

POSTSCRIPT 4555570 $ARCHOME/fonts/fgdcgeoage/FGDCGA__.PFB 4555570
POSTSCRIPT 'FGDC GeoAge'
   NAME = FGDCGeoAge
   FAMILY = FGDCGeoAge
   STYLE = Normal
   PS-NAME = FGDCGA__.PFB
   METRICS = FGDCGA__.PFM

TRUETYPE 1570 $ARCHOME/fonts/fgdcgeoage/FGDCGA__.TTF 1570
TRUETYPE 'FGDCGeoAgeTT'
   Name = FGDCGeoAgeTT
   Name = FGDCGeoAge
   FAMILY = FGDCGeoAge
   STYLE = Normal
   PS-NAME = FGDCGA__.PFB
   METRICS = FGDCGA__.PFM
/* ----------------------------------------------------
```