The gfs complutum font

Antonis Tsolomitis
Laboratory of Digital Typography
and Mathematical Software
Department of Mathematics
University of the Aegean
http://myria.math.aegean.gr/labs/dt
12 May 2006

1 Introduction

The font—and hence the package—supports only the LGR encoding and it is to be used with the greek option of the Babel package.

The fonts are loaded with
\usepackage{gfscomplutum} or \usepackage[default]{gfscomplutum}.

The latter one sets gfs Complutum as the default document font. The former defines the environment complutum and the command \textcomplutum. For example, while in Greek language
\textcomplutum{dokim’h}
produces
Докима.

x-height is adjusted so that it matches with the x-height of the gfsneohellenic package.

2 Installation

Copy the contents of the subdirectory afm in texmf/fonts/afm/GFS/Complutum
Copy the contents of the subdirectory doc in texmf/doc/latex/GFS/Complutum/
Copy the contents of the subdirectory enc in texmf/fonts/enc/dvips/GFS/Complutum/
Copy the contents of the subdirectory map in texmf/fonts/map/dvips/GFS/Complutum/
Copy the contents of the subdirectory tex in texmf/tex/latex/GFS/Complutum/
Copy the contents of the subdirectory tfm in texmf/fonts/tfm/GFS/Complutum/
Copy the contents of the subdirectory type1 in texmf/fonts/type1/GFS/Complutum/
Copy the contents of the subdirectory vf in texmf/fonts/vf/GFS/Complutum/
In your installation’s updmap.cfg file add the line
Map gfscomplutum.map
Refresh your filename database and the map file database (for example, on Unix systems run mktexlsr and then run the updmap-sys (or updmap on older systems) script as root).
You are now ready to use the fonts.

3 Usage

As said in the introduction the package covers only greek. Greek covers polytonic too through babel (read the documentation of the babel package and its greek option).
For example, the preamble
\documentclass{article}
\usepackage[english,greek]{babel}
\usepackage[iso-8859-7]{inputenc}
\usepackage{cmbright}
\usepackage[default]{gfscomplutum}

will be the correct setup for articles in Greek using Complutum for the main font.

3.1 Transformations by dvips

Other than the shape provided by the font itself, this package provides a slanted shape as well using the standard mechanism provided by dvips.

3.2 Alternative characters

There is an alternative design for tau. This is used by default as the second of two consecutive taus, as for example in Άτ/ταυ.αλτικ/υνι1F75 (Attika). This form of tau can be accessed directly with $\text{taualt}$.

4 Problems

The accents of the capital letters should hang in the left margin when such a letter starts a line. $\TeX$ and $\LaTeX$ do not provide the tools for such a feature. However, this seems to be possible with pdf$\TeX$. As this is work in progress, please be patient...
5 Samples

"Ἡρης

θυμίαμα αρώματα

Κυανέοις κόλποις ἐμψέμη, ἀερώμορφε,
"Ἡρα παμβασίλεια, Διὸς σύλλεκτρε μάκαιρα,
ψυχοτρόφους αύρας ἐμπτοῖς παρέχοντα προσημεῖς,
δυμβρώῳ μέῳ μίτηῳ, ἀμέως τροφῇ, παντογέμθελε:
χωρίς γὰρ σέθεμ σύλθῃ ὅλῳς ὑμῖν ψύχῃ ἐγχρῳ:
κοιμωμεῖς γὰρ ἄπαθι κεκραμέμη ἰέρι σεμποὶ;
πάμτωμ γὰρ κρατεῖς μοῦν ἑκτεσσι τ᾿ ἁμάσσεις
ἡρίοις ῥοῖοις τιμασσομένη κατὰ χεῖμα.
αλλὰ, μάκαιρα θεά, πολυνόμιμε, παμβασίλεια,
ἐλθοίς εὐπεμένους καλῶι γήθεμι προσώπωι.