



LibreOffice
The Document Foundation

Font Management for Document Interoperability in LibreOffice

Italo Vignoli

Using Default Fonts

Microsoft Aptos (Microsoft 365)

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Liberation Sans (LibreOffice)

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Using Replacement Fonts

Microsoft Aptos (Microsoft 365)

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Microsoft Aptos (LibreOffice)

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All Started with a Blog Post

08 Sep 2020

LibreOffice Tips & Tricks: Replacing Microsoft Fonts

Posted in [Tips & Tricks](#) By [Italo Vignoli](#) On September 8, 2020

Fonts are one of the main culprits of LibreOffice interoperability problems with Microsoft Office documents, when viewed from the end user's point of view. In fact, Microsoft Office documents are often using one of the default fonts – either the old “[Core Fonts for the Web](#)” (deprecated in 2002, but still in use) or the new “[ClearType Fonts](#)” (launched in 2000, and now adopted by Windows and Office) – which are not always available in LibreOffice, as they are proprietary and cannot be distributed with open source software. Also, in the case of ClearType fonts, the license is strictly connected to the Windows and/or Office license, so to legitimately use them with LibreOffice you need a Windows license where they are included.

When LibreOffice opens a Microsoft Office document, it will replace the fonts which are not available with one of the default Liberation fonts, which are metrically compatible with Arial (Liberation Sans), Courier New (Liberation Mono) and Times New Roman (Liberation Serif), but will have an impact on the visual appearance of the document if they replace a different font (in this case, the user will usually start to complain loudly about LibreOffice, without even checking if the contents are still there...).

To reduce the impact of this problem, which cannot be eliminated, at least until users stop using fonts creatively, LibreOffice offers a specific feature, a font replacement table that can be configured according to the user's needs, and is among the program's options. If the table is configured correctly, LibreOffice replaces the fonts with those metrically compatible – or simply more similar – defined by the user, and this in most cases will prevent the document from looking different. Luckily, there is a large number of free open source fonts available, with some specifically developed to replace Microsoft fonts as in the case of [Croscore Fonts](#), from several online repositories. I suggest [Google Fonts](#), as the website provides not only the font files but also all the associated legal resources, including the license.

My LibreOffice font replacement table, which has been developed over the years, includes the following font pairs (the first is replaced by the second, which is installed on my Linux PCs): Arial -> Arimo, Calibri -> Carlito, Cambria -> Caladea, Consolas -> Inconsolata, Courier New -> Cousine, Franklin Gothic -> Libre Franklin, Georgia -> Neuton, Gill Sans -> Cabin, Impact -> Oswald, Palatino -> Crimson Text, Perpetua -> Lustria, Times New Roman -> Tinos, Twentieth Century -> Spartan, and Verdana -> PT Sans. This is how it looks in LibreOffice:

What is LibreOffice?

LibreOffice is a free and private office suite, compatible with Microsoft Office / 365. It is open source and has regular updates with new features and improvements.



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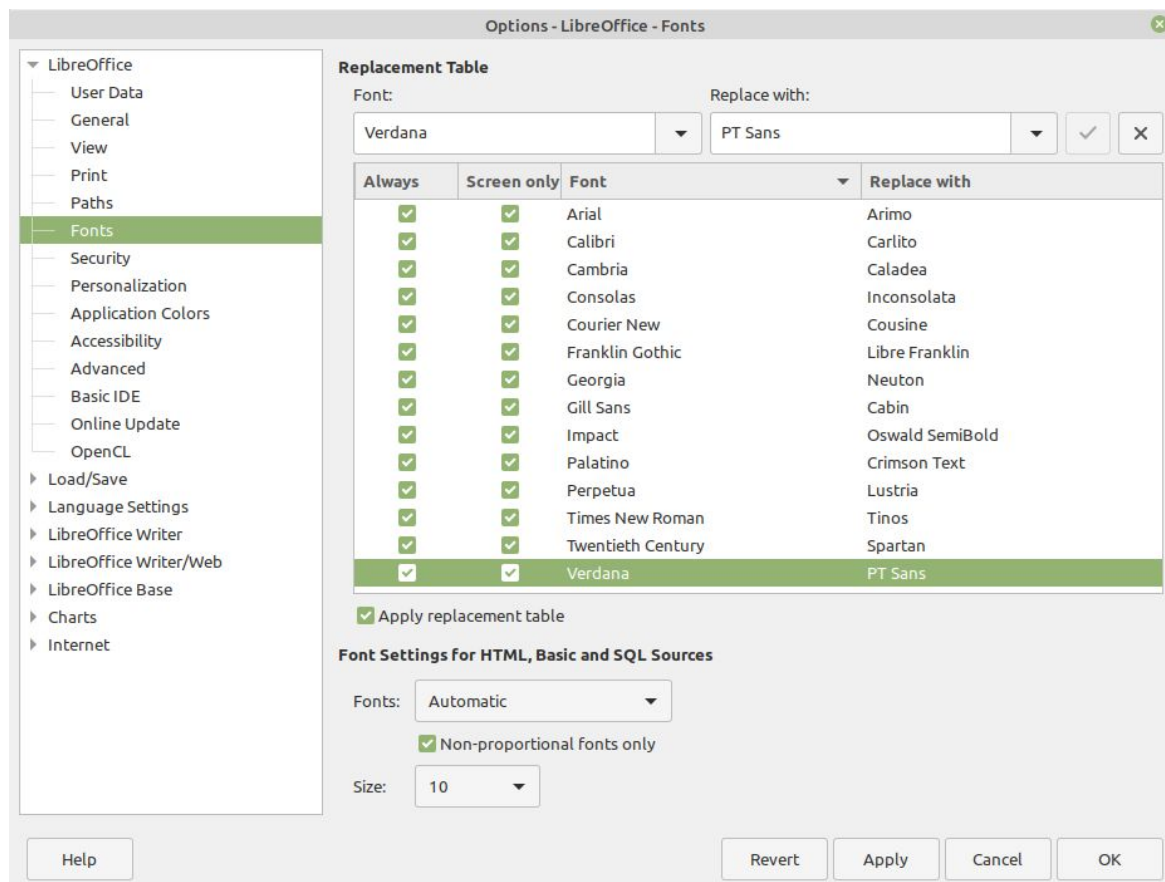
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- 2025-11-05 Wednesday
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My Font Replacement Table



Jean-François Nifenecker's Extension



LibreOffice
The Document Foundation

Extensions, Documentation and Templates repository



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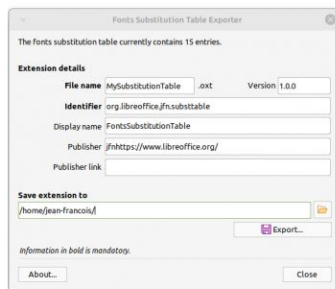
FontsSubstTableExporter

A tool to create an extension embedding the fonts replacement table, for easy duplication or backup.

[Configuration](#)

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latest release: 2 years ago



Description

Fonts substitution table exporter can create a settings extension from the current fonts replacement table, as displayed in **Tools > LibreOffice > Fonts**.

Installing the created extension just duplicates the template machine settings to the target one.

This extension may also be used as a means of backing that configuration up.

Exported Extension



FontSubstTable

Sets a fonts substitution table values.

Configuration

Extensions

Writer

Download latest

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Description

An extension idea, gathered from Italo Vignoli's <https://blog.documentfoundation.org/blog/2020/09/08/libreoffice-tt-replacing-microsoft-fonts/>

LibreOffice proposes a fonts replacement table, where you may define which libre font will replace proprietary ones that might come in documents from other software or systems. This table is visible and may be set in the **Options** dialog (**LibreOffice** > **Fonts** subtree). The selected replacement fonts look similar to the original ones. Moreover, some libre fonts are metric-compatible with their proprietary counterparts, which means that texts looks similar with both.

The replacement settings are the ones Italo's article lists, namely:

- Arial → Arimo
- Arial Narrow → Liberation Sans Narrow⁴
- Calibri → Carlito
- Cambria → Caladea
- Consolas → Inconsolata
- Courier New → Cousine
- Franklin Gothic → Libre Franklin
- Georgia → Neuton
- Gill Sans → Cabin
- Impact → Oswald
- Palatino → Crimson Pro
- Perpetua → Lustria
- Times New Roman → Tinos
- Twentieth Century → Spartan
- Verdana → PT Sans

Croscore Fonts

Croscore fonts

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Crosextra fonts

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From Wikipedia, the free encyclopedia

"Cousine" redirects here. For the island, see [Cousine Island](#).

The **ChromeOS core fonts**, also known as the **Croscore fonts**, are a collection of three **TrueType font families**: **Arimo** (**sans-serif**), **Tinos** (**serif**) and **Cousine** (**monospace**). These fonts are metrically compatible with **Monotype Corporation's** **Arial**, **Times New Roman**, and **Courier New**, the most commonly used fonts on **Microsoft Windows**, for which they are intended as open-source substitutes.^{[1][2]}

Google licenses these fonts from [Ascender Corporation](#) under the [Apache License 2.0](#).^{[3][4][5]}

The fonts were originally developed by [Steve Matteson](#) as Ascender Sans and Ascender Serif, and were also the basis for the [Liberation fonts](#) licensed by [Red Hat](#) under another open source license.^[2] In July 2012, version 2.0 of the Liberation fonts, based on the Croscore fonts, was released under the [SIL Open Font License](#).^[6]

The fonts are also available at the [Noto fonts](#) repository at [GitHub](#).^[7]

Crosextra fonts [\[edit \]](#)

In 2013, Google released an additional Crosextra (ChromeOS Extra) package, featuring Carlito (which matches Microsoft's [Calibri](#)) and Caladea (matching [Cambria](#)).^[8] These two fonts are respectively metric-adjusted versions of [Lato](#)^[9] and [Combo](#),^[10] both available at [Google Fonts](#).

See also [\[edit \]](#)

- **Droid**, a font family by the same font designer
- **Liberation fonts**, related metric-compatible font families also made by Ascender Corporation

References [\[edit \]](#)

Arimo

Arimo
Aa Ee Rr
Bb Gg Jj **A**
Frequency

abcdefghijklmnopqrstuvwxyz
0123456789

Category

Sans serif

Classification

Neo-grotesque

Foundry

Ascender Corporation

License

Apache License 2.0

Variations

Liberation Sans

Website

fonts.google.com

/specimen

Metrically
compatible with

Arial
Helvetica

Tinos

Tinos
Aa Ee Rr

Google Fonts

Font

Font

Icons

Knowledge

FAQ

Google Fonts

Search fonts

Sort by
Trending

Filters

Readability
How type influences readability

Material design guidelines
Styling text

Optimize font loading
Achieve faster page load times

Google Fonts API
Get started with web fonts

Self-hosting web fonts
Get the most out of self-hosting

International
Conf. need

1898 of 1898 families

About these results

Grid

Table

Roboto Variable (3 axes) | Christian Robertson, Paratype, Font Bureau

Everyone has the right to freedom of thought, conscience and religion; this right

Stack Sans Text Variable (1 axis) | Koto

Everyone has the right to freedom of thought, conscience and religion;

Stack Sans Headline Variable (1 axis) | Koto

Everyone has the right to freedom of thought, conscience and religion; this

Open Sans Variable (3 axes) | Steve Matteson

Microsoft Aptos Font

Microsoft Aptos Fonts

Microsoft Aptos fonts for local installation.

Important! Selecting a language below will dynamically change the complete page content to that language.

Select language

English

Download

Expand all | [Collapse all](#)

Details

Version: 4.40	Date Published: 6/4/2024
File Name: Microsoft Aptos Fonts.zip	File Size: 2.8 MB

Microsoft Aptos fonts for local installation for use in applications that do not have access to the Office Font Service.

> System Requirements

> Install Instructions



Microsoft Core Fonts for the Web

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Core fonts for the Web

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From Wikipedia, the free encyclopedia

Core fonts for the Web was a project started by [Microsoft](#) in 1996 to create a standard pack of fonts for the [World Wide Web](#). It included the [proprietary](#) fonts [Andalé Mono](#), [Arial](#), [Arial Black](#), [Comic Sans MS](#), [Courier New](#), [Georgia](#), [Impact](#), [Times New Roman](#), [Trebuchet MS](#), [Verdana](#) and [Webdings](#), all of them in [TrueType](#) font format packaged in executable files (".exe") for [Microsoft Windows](#) and in [BinHexed Stuff-It](#) archives (".sit.hqx") for [Macintosh](#). These packages were published as [freeware](#) under a proprietary license imposing some restrictions on distribution.^[1]

Microsoft terminated the project in 2002,^{[2][3]} but because of the license terms, the distributed files are still legally available from some third-party websites. Updated versions of the fonts produced since 2002 have not been published as freeware and are usually available only after purchasing a license or as a part of some commercial products.^{[4][5]}

Overview [edit]

The fonts were licensed to Microsoft by [Monotype Corporation](#) or designed for Microsoft by Microsoft's own font designers or external designers.^[*citation needed*] The fonts were designed to:

- Be highly legible on screen;
- Offer a wide range of typographic "timbres" within a small number of typefaces; and
- Support extensive internationalisation.^[*citation needed*]

These design goals and the fonts' broad availability made some of them extremely popular with web designers. However, these proprietary fonts (or some of them) are not distributed with some modern operating systems by default (e.g. in [Android](#), [Ubuntu](#), [FreeBSD](#), [OpenBSD](#), [OpenSolaris](#) or some [Symbian](#) versions)^{[6][7]} and they are substituted by other fonts (e.g. by [free software](#) fonts, such as [Liberation fonts](#), [Ghostscript fonts](#),^[8] [Droid fonts](#), [DejaVu fonts](#) and others). All of these fonts^[*which?*] in their latest versions are installed by default in the latest versions of [Mac OS X](#) (i.e. [Mac OS X 10.4](#) and newer), but older versions of [Mac OS X](#) did not install some of them by default (e.g. [Andalé Mono](#), [Impact](#)) and even older versions of [Mac OS](#) also did not include many of them (e.g. [Arial](#)).^{[4][9][10]} Some of these fonts are also not installed by default in [iOS](#) (i.e. [Andalé Mono](#), [Comic Sans MS](#), [Arial Black](#), [Webdings](#)).^[11]

Core fonts for the Web *Microsoft*

Products	Packaged TrueType fonts: Andalé Mono Arial Arial Black Comic Sans MS Courier New Georgia Impact Times New Roman Trebuchet MS Verdana Webdings
Country	Microsoft
Established	1996
Disestablished	2002
Status	Defunct
Website	TrueType core fonts for the Web 🔗 at the Wayback Machine (archived 2002-01-24)

Appearance hide

Text

- ☐ Small
- ☒ Standard
- ☐ Large

Width

- ☒ Standard
- ☐ Wide

Color (beta)

- ☐ Automatic
- ☒ Light
- ☐ Dark

Microsoft ClearType Fonts



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Typography

Overview

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OpenType

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Resources ▾

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> OpenType font development

> OpenType spec

> Script development specs

▾ ClearType

Overview

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> Legacy font technologies

> Tools

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ClearType Font Collection



The ClearType Font Collection is the result of a successful collaboration of both designers and engineers working together with respect, flexibility, and curiosity. ClearType fonts were conceived from the outset as a marriage of technology and the best in design expertise! This improves the appearance of text on certain types of monitors through the use of subpixel rendering technology.

The ClearType Font Collection listed below were first shipped with both Windows Vista and Office 2007 and have been part of Windows ever since.

- [Constantia](#)
- [Corbel](#)
- [Calibri](#)
- [Cambria](#)
- [Candara](#)
- [Consolas](#)

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Method and apparatus for improving the quality of displayed images through the use of user reference information

Abstract

The present invention relates to methods and apparatus for increasing the perceived quality of displayed images. This is achieved in a variety of ways including the use of a plurality of device specific display characteristics when preparing images for display. It is also achieved through the monitoring of display device and/or ambient light conditions, e.g., on a periodic basis, and using the obtained information when controlling display output. Another approach to improving the perceived quality of displayed images involves the use of information relating to a specific user's ability to perceive image characteristics such as color. By customizing display output to an individual user's own physical perception capabilities and/or viewing characteristics it is possible to enhance the image quality perceived by the individual viewer as compared to embodiments which do not take into consideration individual user characteristics.

Images (24)

Classifications

G09G5/005

Adapting incoming signals to the display format of the display terminal

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Engineering & Computer Science

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US6624828B1

United States

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Inventor:

Bodin Dresevic, William Hill, Gregory Hitchcock, Leroy B. Keely, John C. Platt, J. Turner Whitted

Current Assignee:

Microsoft Corp

Worldwide applications

1999

US

US

2000

WO

AH

EP

JP

Application US09/364,648 events ⓘ

1999-07-30

Application filed by Microsoft Corp

1999-07-30

Priority to US09/364,648

2003-09-23

Application granted

2003-09-23

Publication of US6624828B1

2019-07-30

Anticipated expiration

Status

Expired - Lifetime

Show all events

▼

Info:

Patent citations (54), Non-patent citations (49), Cited by (145), Legal events, Similar documents, Priority and Related Applications

External links:

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Abstract

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■ **G09G5/005** Adapting incoming signals to the display format of the display terminal

- Engineering & Computer Science 🔍
- Theoretical Computer Science 🔍

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Useful Links

- Blog Post:
<https://blog.documentfoundation.org/blog/2020/09/08/libreoffice-tt-replacing-microsoft-fonts/>
- Google Fonts:
<https://fonts.google.com/>
- Microsoft Aptos:
<https://www.microsoft.com/en-us/download/details.aspx?id=106087>

Useful Links

- Windows/Mac Installation:
<https://faqs.skillcrush.com/article/275-downloading-installing-a-font-on-your-computer>
- Linux Installation:
<https://www.linux.com/topic/desktop/how-manage-fonts-linux/>
- Extension:
<https://extensions.libreoffice.org/en/extensions/show/41990>
- Extension Downloader:
<https://extensions.libreoffice.org/en/extensions/show/42001>

Thanks

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