

Program findfont

—

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Rolf Niepraschk;

1 Introduction

The Lua program `findfont` is a program for searching installed fonts which are usable for Lua^ATeX and Xe^ATeX. The already existing Lua program `luaotfload-tool` can also be used for searching, but the search-interface is somewhat cryptic.

1.1 Syntax

The syntax is

```
findfont [...] <font>
```

where [...] are optional arguments, either in short or long form which, of course, can be mixed:

```
parameter handling
-q,--quiet
-h,--help
-o,--otfinfo (default 0)
-i,--info (default 0)
-v...          Verbosity output
-m,--max_string (default 90)
<font> (string)
```

For example:

```
findfont times
findfont palatino -o 3
findfont -i 3 -m 50 arial
```

1. `-q`: quiet;
2. `-m <columns>`: How many columns are used for the font with full path. This can be really long, but with e.g. `-m 50` the length is limited to 50 characters.
3. `-o <number>`: For the font with the given number from the font list the program `otfinfo` is called for some general font informations.
4. `-i <number>`: For the font with the given number from the font list the existing font styles are listed.

2 How it works

`findfont` uses the data file `luaotfloadtool-names.lua` which is created by Lua^ATeX. If it is missing it will be created by `findfont` itself. The name of the font should be in lowercase characters and must not be the complete name. A time for finding all fonts with time in its names is sufficient.

3 Examples

```
bash-3.2$ findfont segoe
```

We are using Lua 5.3

Check for file /usr/local/texlive/2021/texmf-var/luatex-cache/generic/names/luatload-names

1.	Segoe UI Symbol.ttf	segoeuisymbol	/Users/voss/Library/Fonts/Segoe/Segoe UI Symbol.ttf
2.	Segoe_Print.ttf	segoeprint	/Users/voss/Library/Fonts/Segoe/Segoe_Print.ttf
3.	Segoe_Print_Bold.ttf	segoeprint	/Users/voss/Library/Fonts/Segoe/Segoe_Print_Bold.ttf
4.	Segoe_Script.ttf	segoescript	/Users/voss/Library/Fonts/Segoe/Segoe_Script.ttf
5.	Segoe_Script_Bold.ttf	segoescript	/Users/voss/Library/Fonts/Segoe/Segoe_Script_Bold.ttf
6.	Segoe_UI.ttf	segoeui	/Users/voss/Library/Fonts/Segoe/Segoe_UI.ttf
7.	Segoe_UI_Bold.ttf	segoeui	/Users/voss/Library/Fonts/Segoe/Segoe_UI_Bold.ttf
8.	Segoe_UI_Bold_Italic.ttf	segoeui	/Users/voss/Library/Fonts/Segoe/Segoe_UI_Bold_Italic.ttf
9.	Segoe_UI_Italic.ttf	segoeui	/Users/voss/Library/Fonts/Segoe/Segoe_UI_Italic.ttf

```
bash-3.2$ findfont -m 40 libertinus
```

We are using Lua 5.3

Check for file /usr/local/texlive/2021/texmf-var/luatex-cache/generic/names/luatload-names

1.	LibertinusKeyboard-Regular.otf	libertinuskeyboard	/usr/local/texlive/2021/te...Regular.otf
2.	LibertinusMath-Regular.otf	libertinusmath	/usr/local/texlive/2021/te...Regular.otf
3.	LibertinusMono-Regular.otf	libertinusmono	/usr/local/texlive/2021/te...Regular.otf
4.	LibertinusSans-Bold.otf	libertinussans	/usr/local/texlive/2021/te...ns-Bold.otf
5.	LibertinusSans-Italic.otf	libertinussans	/usr/local/texlive/2021/te...-Italic.otf
6.	LibertinusSans-Regular.otf	libertinussans	/usr/local/texlive/2021/te...Regular.otf
7.	LibertinusSerif-Bold.otf	libertinusserif	/usr/local/texlive/2021/te...if-Bold.otf
8.	LibertinusSerif-BoldItalic.otf	libertinusserif	/usr/local/texlive/2021/te...dItalic.otf
9.	LibertinusSerif-Italic.otf	libertinusserif	/usr/local/texlive/2021/te...-Italic.otf
10.	LibertinusSerif-Regular.otf	libertinusserif	/usr/local/texlive/2021/te...Regular.otf
11.	LibertinusSerif-Semibold.otf	libertinusserif	/usr/local/texlive/2021/te...emibold.otf
12.	LibertinusSerif-SemiboldItalic.otf	libertinusserif	/usr/local/texlive/2021/te...dItalic.otf
13.	LibertinusSerifDisplay-Regular.otf	libertinusserifdisplay	/usr/local/texlive/2021/te...Regular.otf
14.	LibertinusSerifInitials-Regular.otf	libertinusserifinitials	/usr/local/texlive/2021/te...Regular.otf

```
bash-3.2$ findfont -i 9 sego
```

We are using Lua 5.3

Check for file /usr/local/texlive/2021/texmf-var/luatex-cache/generic/names/luatload-names

1.	Segoe UI Symbol.ttf	segoeuisymbol	/Users/voss/Library/Fonts/Segoe/Segoe UI Symbol.ttf
2.	Segoe_Print.ttf	segoeprint	/Users/voss/Library/Fonts/Segoe/Segoe_Print.ttf
3.	Segoe_Print_Bold.ttf	segoeprint	/Users/voss/Library/Fonts/Segoe/Segoe_Print_Bold.ttf
4.	Segoe_Script.ttf	segoescript	/Users/voss/Library/Fonts/Segoe/Segoe_Script.ttf
5.	Segoe_Script_Bold.ttf	segoescript	/Users/voss/Library/Fonts/Segoe/Segoe_Script_Bold.ttf
6.	Segoe_UI.ttf	segoeui	/Users/voss/Library/Fonts/Segoe/Segoe_UI.ttf
7.	Segoe_UI_Bold.ttf	segoeui	/Users/voss/Library/Fonts/Segoe/Segoe_UI_Bold.ttf
8.	Segoe_UI_Bold_Italic.ttf	segoeui	/Users/voss/Library/Fonts/Segoe/Segoe_UI_Bold_Italic.ttf
9.	Segoe_UI_Italic.ttf	segoeui	/Users/voss/Library/Fonts/Segoe/Segoe_UI_Italic.ttf

Font: segoeui

Fonttype ttf(system) --> | Regular | Bold | Italic | BoldItalic |

```
bash-3.2$ findfont -o 6 arial
```

We are using Lua 5.3

Check for file /usr/local/texlive/2021/texmf-var/luatex-cache/generic/names/luatofload-names

1.	Arial Black.ttf	arialblack	/System/Library/Fonts/Supplemental/Arial Black.ttf
2.	Arial Bold Italic.ttf	arial	/System/Library/Fonts/Supplemental/Arial Bold Italic.ttf
3.	Arial Bold.ttf	arial	/System/Library/Fonts/Supplemental/Arial Bold.ttf
4.	Arial Italic.ttf	arial	/System/Library/Fonts/Supplemental/Arial Italic.ttf
5.	Arial Narrow Bold Italic.ttf	arialnarrow	/System/Library/Fonts/Supplemental/Arial Narrow Bold Italic.ttf
6.	Arial Narrow Bold.ttf	arialnarrow	/System/Library/Fonts/Supplemental/Arial Narrow Bold.ttf
7.	Arial Narrow Italic.ttf	arialnarrow	/System/Library/Fonts/Supplemental/Arial Narrow Italic.ttf
8.	Arial Narrow.ttf	arialnarrow	/System/Library/Fonts/Supplemental/Arial Narrow.ttf
9.	Arial Rounded Bold.ttf	arialroundedmtbold	/System/Library/Fonts/Supplemental/Arial Rounded Bold.ttf
10.	Arial Unicode.ttf	arialunicodems	/Library/Fonts/Arial Unicode.ttf
11.	Arial Unicode.ttf	arialunicodems	/System/Library/Fonts/Supplemental/Arial Unicode.ttf
12.	Arial.ttf	arial	/System/Library/Fonts/Supplemental/Arial.ttf
13.	Arial.ttf	arial	/Users/voss/Library/Fonts/Arial/Arial.ttf
14.	ArialHB.ttc	arialhebrew	/System/Library/Fonts/ArialHB.ttc
15.	ArialHB.ttc	arialhebrewdeskinterface	/System/Library/Fonts/ArialHB.ttc
16.	ArialHB.ttc	arialhebrewscholar	/System/Library/Fonts/ArialHB.ttc
17.	ArialHB.ttc	arialhebrew	/System/Library/Fonts/ArialHB.ttc

Run otfinfo:6

```
Family:      Arial Narrow
Subfamily:   Bold
Full name:   Arial Narrow Bold
PostScript name: ArialNarrow-Bold
Version:     Version 2.38.1x
Unique ID:   Arial Narrow Bold : 2007
Description: Monotype Drawing Office 1982. A contemporary sans serif design, Arial contains more humanist characteristics than many of its predecessors and as such
Designer:    Robin Nicholas, Patricia Saunders
Manufacturer: The Monotype Corporation
Trademark:   Arial is a trademark of The Monotype Corporation in the United States and/or other countries.
Copyright:   © 2007 The Monotype Corporation. All Rights Reserved.
License Description: You may use this font to display and print content as permitted by the license terms for the product in which this font is included. You may only (i)
Vendor ID:   TMC
```

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