

# Program `luafindfont`

—

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## 1 Introduction

The Lua program `luafindfont` is a program for searching installed fonts which are usable for Lua $\TeX$  and Xe $\TeX$ . The already existing Lua program `luaotfload-tool` can also be used for searching, but the search-interface is somewhat cryptic and too complex for a user, who wants only to know if a font is present or not. And if present, where can it be found. For example:

```
luaotfload-tool --find=times
```

```
luaotfload | resolve : Font "times" found!
luaotfload | resolve : Resolved file name "/System/Library/Fonts/Times.ttc", subfont nr. 0
```

```
luaotfload-tool --fuzzy --find="times new roman"
```

```
luaotfload | resolve : Font "times new roman" found!
luaotfload | resolve : Resolved file name "/Users/voss/Library/Fonts/Times/Times New Roman.ttf"
```

But that are not *all* Times fonts. Compare it with the output of `luafindfont`, where the searchname *times* must only be a part of a longer name:

```
luafindfont times
```

| No. | Fontname                         | Symbolic Name      | Path                                |
|-----|----------------------------------|--------------------|-------------------------------------|
| 1.  | Times New Roman Bold Italic.ttf  | timesnewroman      | /Users/voss/Library/Fonts/Times/    |
| 2.  | Times New Roman Bold Italic.ttf  | timesnewroman      | /System/Library/Fonts/Supplemental/ |
| 3.  | Times New Roman Bold.ttf         | timesnewroman      | /System/Library/Fonts/Supplemental/ |
| 4.  | Times New Roman Bold.ttf         | timesnewroman      | /Users/voss/Library/Fonts/Times/    |
| 5.  | Times New Roman Italic.ttf       | timesnewroman      | /Users/voss/Library/Fonts/Times/    |
| 6.  | Times New Roman Italic.ttf       | timesnewroman      | /System/Library/Fonts/Supplemental/ |
| 7.  | Times New Roman.ttf              | timesnewroman      | /Users/voss/Library/Fonts/Times/    |
| 8.  | Times New Roman.ttf              | timesnewroman      | /System/Library/Fonts/Supplemental/ |
| 9.  | Times.ttc                        | times              | /System/Library/Fonts/              |
| 10. | Times_Sans_Serif.ttf             | timesansserif      | /Users/voss/Library/Fonts/Times/    |
| 11. | TimesNewRomanMTStd-Bold.otf      | timesnewromanmstd  | /Users/voss/Library/Fonts/Times/    |
| 12. | TimesNewRomanMTStd-BoldCond.otf  | timesnewromanmstd  | /Users/voss/Library/Fonts/Times/    |
| 13. | TimesNewRomanMTStd-BoldIt.otf    | timesnewromanmstd  | /Users/voss/Library/Fonts/Times/    |
| 14. | TimesNewRomanMTStd-Cond.otf      | timesnewromanmstd  | /Users/voss/Library/Fonts/Times/    |
| 15. | TimesNewRomanMTStd-CondIt.otf    | timesnewromanmstd  | /Users/voss/Library/Fonts/Times/    |
| 16. | TimesNewRomanMTStd-Italic.otf    | timesnewromanmstd  | /Users/voss/Library/Fonts/Times/    |
| 17. | TimesNewRomanMTStd.otf           | timesnewromanmstd  | /Users/voss/Library/Fonts/Times/    |
| 18. | TimesNewRomanPS-BoldItalicMT.otf | timesnewromanpsmt  | /Users/voss/Library/Fonts/Times/    |
| 19. | TimesNewRomanPS-BoldMT.otf       | timesnewromanpsmt  | /Users/voss/Library/Fonts/Times/    |
| 20. | TimesNewRomanPSMT.otf            | timesnewromanpsmt  | /Users/voss/Library/Fonts/Times/    |
| 21. | TimesNewRomanPSStd-Bold.otf      | timesnewromanpsstd | /Users/voss/Library/Fonts/Times/    |
| 22. | TimesNewRomanPSStd-BoldIt.otf    | timesnewromanpsstd | /Users/voss/Library/Fonts/Times/    |
| 23. | TimesNewRomanPSStd-Italic.otf    | timesnewromanpsstd | /Users/voss/Library/Fonts/Times/    |
| 24. | TimesNewRomanPSStd-Regular.otf   | timesnewromanpsstd | /Users/voss/Library/Fonts/Times/    |

## 1.1 Syntax

The syntax is

```
luafindfont [...] <font>
```

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

| parameter handling           | Parameter |
|------------------------------|-----------|
| -h,--help                    |           |
| -o,--otfinfo (default 0)     |           |
| -i,--info (default 0)        |           |
| -x,--xetex                   |           |
| -n,--no-symbolic-names       |           |
| -v... Verboisity output      |           |
| -m,--max_string (default 90) |           |
| <(partial) fontname>         |           |

For example:

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

1. -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 and in the middle of the long name there will be ..., representing the missing characters.
2. -o <number[character]>: For the font with the given number from the font list the program otfinfo is called for some generell font informations. An additional optional argument for otfinfo (only one character) must follow directly the fontnumber (see also section 2.2)
3. -i <number>: For the font with the given number from the font list the existing other corresponding font styles are listed.

## 2 How it works

luafindfont uses the data file luaotfloadtool-names.lua which is created by Lua $\TeX$ . If it is missing it will be created by luafindfont 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.

### 2.1 Fontname

The fontname can only be a substring of the complete filename. It is not case sensitive, Myriad and myriad are the same. It is possible to combine two search strings which will act like a boolean and. A search with "Myriad & bold" (in quotes) will list all files which have myriad *and* bold in its name.

## 2.2 Option -o

This needs an installed program `otfinfo`, which should be the default for all TeX distributions. This program lists some useful informations of a given fontnumber. The fontnumber can be combined by an additional character for different outputs. For example `-o 2f` lists the features of the font number 2 in the list. The order makes no difference: `-o f2` prints the same. If there is no output then the font has no such informations defined!

The possible options are (i is the default):

|   | otfinfo                                       |
|---|---|
| s | Report font's supported scripts.              |
| f | Report font's GSUB/GPOS features.             |
| z | Report font's optical size information.       |
| p | Report font's PostScript name.                |
| a | Report font's family name.                    |
| v | Report font's version information.            |
| i | Report font's names and designer/vendor info. |
| g | Report font's glyph names.                    |
| t | Report font's OpenType tables.                |

```
Luafindfont -o 2f "myriad & semibold"
```

| No. | Fontname                        | Symbolic Name | Path                                 |
|-----|---------------------------------|---------------|--------------------------------------|
| 1.  | MyriadPro-Semibold.otf          | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 2.  | MyriadPro-SemiboldCond.otf      | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 3.  | MyriadPro-SemiboldCondIt.otf    | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 4.  | MyriadPro-SemiboldIt.otf        | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 5.  | MyriadPro-SemiboldSemiCn.otf    | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 6.  | MyriadPro-SemiboldSemiCnIt.otf  | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 7.  | MyriadPro-SemiboldSemiExt.otf   | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 8.  | MyriadPro-SemiboldSemiExtIt.otf | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |

Running `otfinfo -f` on font no.2

```
otfinfo -f "/Users/voss/Library/Fonts/MyriadPro/MyriadPro-SemiboldCond.otf"
```

```
aalt      Access All Alternates
case      Case-Sensitive Forms
csp       Capital Spacing
dnom      Denominators
fina      Terminal Forms
frac      Fractions
kern      Kerning
liga      Standard Ligatures
lnum      Lining Figures
numr      Numerators
onum      Oldstyle Figures
ordn      Ordinals
pnum      Proportional Figures
sinf      Scientific Inferiors
supr      Superscript
```

tnum        Tabular Figures  
zero        Slashed Zero

if no parameter is given, then -i is assumed.

## 2.3 Option -i

For a given font number `luafindfont` will list the font styles which were found by the font search and which correspond to the font number. This is useful if a fontname doesn't has the style in its name or only in short form.

```
luafindfont -i 4 "myriad & semibold"
```

| No. | Fontname                        | Symbolic Name | Path                                 |
|-----|---------------------------------|---------------|--------------------------------------|
| 1.  | MyriadPro-Semibold.otf          | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 2.  | MyriadPro-SemiboldCond.otf      | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 3.  | MyriadPro-SemiboldCondIt.otf    | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 4.  | MyriadPro-SemiboldIt.otf        | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 5.  | MyriadPro-SemiboldSemiCn.otf    | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 6.  | MyriadPro-SemiboldSemiCnIt.otf  | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 7.  | MyriadPro-SemiboldSemiExt.otf   | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |
| 8.  | MyriadPro-SemiboldSemiExtIt.otf | myriadpro     | /Users/voss/Library/Fonts/MyriadPro/ |

Font: myriadpro

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

For the font number 4 there also exists a Regular, Bold, and a Italic font. The font no 4 itself is a BoldItalic version.

## 2.4 Option -x

$\XeTeX$  will find OpenType and TrueType fonts only, if they are part of the system fonts or found by `kpsewhich` by its filename. With the option -x you'll an additional column, which shows if the font is found by `kpsewhich` (1) or not (0). If not, then it is obvious, that you have to update the filename database of the  $\TeX$  distribution in the usual way by running `texhash` or via a menu entry if using a file manager.

```
luafindfont -x PStricksdotfont
```

| No. | Fontname            | Symbolic Name   | Path  | X |
|-----|---------------------|-----------------|---|---|
| 1.  | myFont.otf          | pstricksdotfont | /usr/local/texlive/texmf-local/fonts/opentype/                        | 0 |
| 2.  | PStricksDotFont.otf | pstricksdotfont | /usr/local/texlive/texmf-local/fonts/opentype/                        | 1 |
| 3.  | PStricksDotFont.otf | pstricksdotfont | /usr/local/texlive/2022/texmf-dist/fonts/opentype/public/luapstricks/ | 1 |

### 3 Examples

The font `myFont.otf` is found by Lua $\TeX$  but not by X $\TeX$ .

## 3 Examples

```
luafindfont segoe
```

| No. | Fontname                 | Symbolic Name | Path                             |
|-----|--------------------------|---------------|----------------------------------|
| 1.  | Segoe UI Symbol.ttf      | segoeuisymbol | /Users/voss/Library/Fonts/Segoe/ |
| 2.  | Segoe_Print.ttf          | segoeprint    | /Users/voss/Library/Fonts/Segoe/ |
| 3.  | Segoe_Print_Bold.ttf     | segoeprint    | /Users/voss/Library/Fonts/Segoe/ |
| 4.  | Segoe_Script.ttf         | segoescript   | /Users/voss/Library/Fonts/Segoe/ |
| 5.  | Segoe_Script_Bold.ttf    | segoescript   | /Users/voss/Library/Fonts/Segoe/ |
| 6.  | Segoe_UI.ttf             | segoeui       | /Users/voss/Library/Fonts/Segoe/ |
| 7.  | Segoe_UI_Bold.ttf        | segoeui       | /Users/voss/Library/Fonts/Segoe/ |
| 8.  | Segoe_UI_Bold_Italic.ttf | segoeui       | /Users/voss/Library/Fonts/Segoe/ |
| 9.  | Segoe_UI_Italic.ttf      | segoeui       | /Users/voss/Library/Fonts/Segoe/ |

```
luafindfont -m 40 libertinus
```

| No. | Fontname                            | Symbolic Name           | Path                                     |
|-----|-------------------------------------|-------------------------|--|
| 1.  | LibertinusKeyboard-Regular.otf      | libertinuskeyboard      | /usr/local/texlive/2022/te...inus-fonts/ |
| 2.  | LibertinusMath-Regular.otf          | libertinusmath          | /usr/local/texlive/2022/te...inus-fonts/ |
| 3.  | LibertinusMono-Regular.otf          | libertinusmono          | /usr/local/texlive/2022/te...inus-fonts/ |
| 4.  | LibertinusSans-Bold.otf             | libertinussans          | /usr/local/texlive/2022/te...inus-fonts/ |
| 5.  | LibertinusSans-Italic.otf           | libertinussans          | /usr/local/texlive/2022/te...inus-fonts/ |
| 6.  | LibertinusSans-Regular.otf          | libertinussans          | /usr/local/texlive/2022/te...inus-fonts/ |
| 7.  | LibertinusSerif-Bold.otf            | libertinusserif         | /usr/local/texlive/2022/te...inus-fonts/ |
| 8.  | LibertinusSerif-BoldItalic.otf      | libertinusserif         | /usr/local/texlive/2022/te...inus-fonts/ |
| 9.  | LibertinusSerif-Italic.otf          | libertinusserif         | /usr/local/texlive/2022/te...inus-fonts/ |
| 10. | LibertinusSerif-Regular.otf         | libertinusserif         | /usr/local/texlive/2022/te...inus-fonts/ |
| 11. | LibertinusSerif-Semibold.otf        | libertinusserif         | /usr/local/texlive/2022/te...inus-fonts/ |
| 12. | LibertinusSerif-SemiboldItalic.otf  | libertinusserif         | /usr/local/texlive/2022/te...inus-fonts/ |
| 13. | LibertinusSerifDisplay-Regular.otf  | libertinusserifdisplay  | /usr/local/texlive/2022/te...inus-fonts/ |
| 14. | LibertinusSerifInitials-Regular.otf | libertinusserifinitials | /usr/local/texlive/2022/te...inus-fonts/ |

```
luafindfont -i 9 sego
```

| No. | Fontname                 | Symbolic Name | Path                             |
|-----|--------------------------|---------------|----------------------------------|
| 1.  | Segoe UI Symbol.ttf      | segoeuisymbol | /Users/voss/Library/Fonts/Segoe/ |
| 2.  | Segoe_Print.ttf          | segoeprint    | /Users/voss/Library/Fonts/Segoe/ |
| 3.  | Segoe_Print_Bold.ttf     | segoeprint    | /Users/voss/Library/Fonts/Segoe/ |
| 4.  | Segoe_Script.ttf         | segoescript   | /Users/voss/Library/Fonts/Segoe/ |
| 5.  | Segoe_Script_Bold.ttf    | segoescript   | /Users/voss/Library/Fonts/Segoe/ |
| 6.  | Segoe_UI.ttf             | segoeui       | /Users/voss/Library/Fonts/Segoe/ |
| 7.  | Segoe_UI_Bold.ttf        | segoeui       | /Users/voss/Library/Fonts/Segoe/ |
| 8.  | Segoe_UI_Bold_Italic.ttf | segoeui       | /Users/voss/Library/Fonts/Segoe/ |
| 9.  | Segoe_UI_Italic.ttf      | segoeui       | /Users/voss/Library/Fonts/Segoe/ |

Font: segoeui

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

```
luafindfont -o 6 arial
```

| No. | Fontname                     | Symbolic Name            | Path                                |
|-----|------------------------------|--------------------------|-------------------------------------|
| 1.  | Arial Black.ttf              | arialblack               | /System/Library/Fonts/Supplemental/ |
| 2.  | Arial Bold Italic.ttf        | arial                    | /System/Library/Fonts/Supplemental/ |
| 3.  | Arial Bold.ttf               | arial                    | /System/Library/Fonts/Supplemental/ |
| 4.  | Arial Italic.ttf             | arial                    | /System/Library/Fonts/Supplemental/ |
| 5.  | Arial Narrow Bold Italic.ttf | arialnarrow              | /System/Library/Fonts/Supplemental/ |
| 6.  | Arial Narrow Bold.ttf        | arialnarrow              | /System/Library/Fonts/Supplemental/ |
| 7.  | Arial Narrow Italic.ttf      | arialnarrow              | /System/Library/Fonts/Supplemental/ |
| 8.  | Arial Narrow.ttf             | arialnarrow              | /System/Library/Fonts/Supplemental/ |
| 9.  | Arial Rounded Bold.ttf       | arialroundedmtbold       | /System/Library/Fonts/Supplemental/ |
| 10. | Arial Unicode.ttf            | arialunicodems           | /System/Library/Fonts/Supplemental/ |
| 11. | Arial Unicode.ttf            | arialunicodems           | /Library/Fonts/                     |
| 12. | Arial.ttf                    | arial                    | /Users/voss/Library/Fonts/Arial/    |
| 13. | Arial.ttf                    | arial                    | /System/Library/Fonts/Supplemental/ |
| 14. | ArialHB.ttc                  | arialhebrewscholar       | /System/Library/Fonts/              |
| 15. | ArialHB.ttc                  | arialhebrewdeskinterface | /System/Library/Fonts/              |
| 16. | ArialHB.ttc                  | arialhebrewscholar       | /System/Library/Fonts/              |
| 17. | ArialHB.ttc                  | arialhebrewdeskinterface | /System/Library/Fonts/              |
| 18. | ArialHB.ttc                  | arialhebrew              | /System/Library/Fonts/              |
| 19. | ArialHB.ttc                  | arialhebrewdeskinterface | /System/Library/Fonts/              |
| 20. | ArialHB.ttc                  | arialhebrew              | /System/Library/Fonts/              |

Running `otfinfo -i` on font no.6

```
otfinfo -i "/System/Library/Fonts/Supplemental/Arial Narrow Bold.ttf"
```

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 predeces

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. Y  
Vendor ID: TMC

```
luafindfont --no-symbolic-names minion
```

| No. | Fontname                 | Path                                  |
|-----|--------------------------|---------------------------------------|
| 1.  | MinionMath-Bold.otf      | /Users/voss/Library/Fonts/MinionMath/ |
| 2.  | MinionMath-Regular.otf   | /Users/voss/Library/Fonts/MinionMath/ |
| 3.  | MinionPro-Bold.otf       | /Users/voss/Library/Fonts/MinionPro/  |
| 4.  | MinionPro-BoldCn.otf     | /Users/voss/Library/Fonts/MinionPro/  |
| 5.  | MinionPro-BoldCnIt.otf   | /Users/voss/Library/Fonts/MinionPro/  |
| 6.  | MinionPro-BoldIt.otf     | /Users/voss/Library/Fonts/MinionPro/  |
| 7.  | MinionPro-Capt.otf       | /Users/voss/Library/Fonts/MinionPro/  |
| 8.  | MinionPro-Disp.otf       | /Users/voss/Library/Fonts/MinionPro/  |
| 9.  | MinionPro-It.otf         | /Users/voss/Library/Fonts/MinionPro/  |
| 10. | MinionPro-Medium.otf     | /Users/voss/Library/Fonts/MinionPro/  |
| 11. | MinionPro-MediumIt.otf   | /Users/voss/Library/Fonts/MinionPro/  |
| 12. | MinionPro-Regular.otf    | /Users/voss/Library/Fonts/MinionPro/  |
| 13. | MinionPro-Semibold.otf   | /Users/voss/Library/Fonts/MinionPro/  |
| 14. | MinionPro-SemiboldIt.otf | /Users/voss/Library/Fonts/MinionPro/  |
| 15. | MinionPro-Subh.otf       | /Users/voss/Library/Fonts/MinionPro/  |

## 4 List of all fonts

This possible with the symbolic fontname "\*" instead of a real fontname:

```
bash-3.2$ luafindfont "*"
```

This list maybe really long and is shortend here!

Looking for font "\*"

| Nr.   | Fontname                          | Path  |
|-------|-----------------------------------|---|
| 1.    | Aboensis-Regular.otf              | /usr/local/texlive/texmf-dist/fonts/opentype/public/aboenis/              |
| 2.    | academicons.ttf                   | /usr/local/texlive/texmf-dist/fonts/truetype/public/academicons/          |
| 3.    | Academy Engraved LET Fonts.ttf    | /System/Library/Fonts/Supplemental/                                       |
| 4.    | ACaslonPro-Bold.otf               | /Users/voss/Library/Fonts/Caslon/   |
| 5.    | ACaslonPro-BoldItalic.otf         | /Users/voss/Library/Fonts/Caslon/   |
| 6.    | ACaslonPro-Italic.otf             | /Users/voss/Library/Fonts/Caslon/   |
| 7.    | ACaslonPro-Regular.otf            | /Users/voss/Library/Fonts/Caslon/   |
| 8.    | ACaslonPro-Semibold.otf           | /Users/voss/Library/Fonts/Caslon/   |
| 9.    | ACaslonPro-SemiboldItalic.otf     | /Users/voss/Library/Fonts/Caslon/   |
| 10.   | Acathist-Regular.otf              | /usr/local/texlive/texmf-dist/fonts/opentype/public/fonts-churchslavonic/ |
| 11.   | AccanthisADFStdNo3-Bold.otf       | /usr/local/texlive/texmf-dist/fonts/opentype/arkandis/accanthis/          |
| 12.   | AccanthisADFStdNo3-BoldItalic.otf | /usr/local/texlive/texmf-dist/fonts/opentype/arkandis/accanthis/          |
| 13.   | AccanthisADFStdNo3-Italic.otf     | /usr/local/texlive/texmf-dist/fonts/opentype/arkandis/accanthis/          |
| 14.   | AccanthisADFStdNo3-Regular.otf    | /usr/local/texlive/texmf-dist/fonts/opentype/arkandis/accanthis/          |
| 15.   | ACE.ttc                           | /Users/voss/Library/Fonts/AppleSymbols/                                   |
| 16.   | ACE.ttc                           | /Users/voss/Library/Fonts/AppleSymbols/                                   |
| 17.   | AdineKirnberg-Script.otf          | /Users/voss/Library/Fonts/AdineScript/                                    |
| 18.   | AdobeArabic-Bold.otf              | /Users/voss/Library/Fonts/Adobe/  |
| 19.   | AdobeArabic-BoldItalic.otf        | /Users/voss/Library/Fonts/Adobe/  |
| [...] | [...]                             | [...]   |
| 6847. | □□_Pro.ttf                        | /Users/voss/Library/Fonts/KozukaPro/                                      |
| 6848. | □□□.ttf                           | /Users/voss/Library/Fonts/KozukaPro/                                      |
| 6849. | □□□.ttf                           | /Users/voss/Library/Fonts/KozukaPro/                                      |
| 6850. | □□□.ttf                           | /Users/voss/Library/Fonts/KozukaPro/                                      |