

# Program luafindfont

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# 1 Introduction

The Lua program `luaotfload` is a program for searching installed fonts which are usable for Lua<sup>A</sup>T<sub>E</sub>X and X<sup>A</sup>Y<sub>Y</sub>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 "/System/Library/Fonts/Supplemental/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
```

1. Times New Roman Bold Italic.ttf	timesnewroman	/System/Library/Fonts/Supplemental/Times New Roman Bold Italic.ttf
2. Times New Roman Bold.ttf	timesnewroman	/System/Library/Fonts/Supplemental/Times New Roman Bold.ttf
3. Times New Roman Italic.ttf	timesnewroman	/System/Library/Fonts/Supplemental/Times New Roman Italic.ttf
4. Times New Roman.ttf	timesnewroman	/System/Library/Fonts/Supplemental/Times New Roman.ttf
5. Times.ttc	times	/System/Library/Fonts/Times.ttc
6. Times_Sans_Serif.ttf	timessansserif	/Users/voss/Library/Fonts/Times/Times_Sans_Serif.ttf
7. TimesNewRomanMTStd-Bold.otf	timesnewromanmtstd	/Users/voss/Library/Fonts/Times/TimesNewRomanMTStd-Bold.otf
8. TimesNewRomanMTStd-BoldCond.otf	timesnewromanmtstd	/Users/voss/Library/Fonts/Times/TimesNewRomanMTStd-BoldCond.otf
9. TimesNewRomanMTStd-BoldIt.otf	timesnewromanmtstd	/Users/voss/Library/Fonts/Times/TimesNewRomanMTStd-BoldIt.otf
10. TimesNewRomanMTStd-Cond.otf	timesnewromanmtstd	/Users/voss/Library/Fonts/Times/TimesNewRomanMTStd-Cond.otf
11. TimesNewRomanMTStd-CondIt.otf	timesnewromanmtstd	/Users/voss/Library/Fonts/Times/TimesNewRomanMTStd-CondIt.otf
12. TimesNewRomanMTStd-Italic.otf	timesnewromanmtstd	/Users/voss/Library/Fonts/Times/TimesNewRomanMTStd-Italic.otf
13. TimesNewRomanMTStd.otf	timesnewromanmtstd	/Users/voss/Library/Fonts/Times/TimesNewRomanMTStd.otf
14. TimesNewRomanPS-BoldItalicMT.otf	timesnewromanpsmt	/Users/voss/Library/Fonts/Times/TimesNewRomanPS-BoldItalicMT.otf
15. TimesNewRomanPS-BoldMT.otf	timesnewromanpsmt	/Users/voss/Library/Fonts/Times/TimesNewRomanPS-BoldMT.otf
16. TimesNewRomanPSMT.otf	timesnewromanpsmt	/Users/voss/Library/Fonts/Times/TimesNewRomanPSMT.otf

```

17. TimesNewRomanPSStd-Bold.otf  timesnewromanpsstd  /Users/voss/Library/Fonts/Times/TimesNewRomanPSStd-Bold.otf
18. TimesNewRomanPSStd-BoldIt.otf timesnewromanpsstd  /Users/voss/Library/Fonts/Times/TimesNewRomanPSStd-BoldIt.otf
19. TimesNewRomanPSStd-Italic.otf timesnewromanpsstd  /Users/voss/Library/Fonts/Times/TimesNewRomanPSStd-Italic.otf
20. TimesNewRomanPSStd-Regular.otf timesnewromanpsstd  /Users/voss/Library/Fonts/Times/TimesNewRomanPSStd-Regular.otf

```

## 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
parameter handling	
-h, --help	
-n, --nosymbolicnames	
, --no-symbolic-names	
-o, --otfinfo (default 0)	
-i, --info (default 0)	
-I, --Info (default 0)	
-l, --listonlynames	
-L, --listonlyfiles	
-x, --xetex	
-v, --verbose	
-V, --version	
-m, --max_string (default 90)	
<(partial) fontname>	

For example:

```

luafindfont times
luafindfont palatino -o 3
luafindfont -i 3 -m 50 arial
luafindfont "LinLibertine & Bold"

```

## 2 How it works

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 general font informations. An additional optional argument for `otfinfo` (only one character) must follow directly the fontnumber (see also section 2.3)
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 `LuāTEX`. 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 for searching “times new roman”.

### 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 -v

Prints the version number and exits.

### 2.3 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):

---

s	Report font's supported scripts.	otfinfo
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"
```

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

## 2.4 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"
```

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

## 2.5 Option -I

This similar to option -i, but uses `mtxrun` to get a long list of all informations of the font, including features and corresponding languages. The list can be very long!

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

## 2.6 Option -l or -L

With one of these options you get a long sorted list of available symbolic fontnames or a long sorted list of the filenames (L) without the path.

## 2.7 Option -x

X<sub>Y</sub>TeX 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 (l) or not (0). If not, then it is obvious, that you have to update the filename database of the T<sub>E</sub>X distribution in the usual way by running texhash or via a menu entry if using a file manager.

```
luafindfont -m 55 -x PStricksdotfont
```

1.	myFont.otf	pstricksdotfont	/usr/local/texlive/texmf-local/fonts/opentype/myFont.otf
2.	PStricksDotFont.otf	pstricksdotfont	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/luapstricks/PStricksDotFont.otf
3.	PStricksDotFont.otf	pstricksdotfont	/usr/local/texlive/texmf-local/fonts/opentype/PStricksDotFont.otf

The font myFont.otf is found by Lua<sub>Y</sub>TeX but not by X<sub>Y</sub>TeX.

## 3 Examples

```
luafindfont segoe
```

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

```
luafindfont -m 35 libertineus
```

1. LibertinusKeyboard-Regular.otf	libertinuskeyboard	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusKeyboard-Regular.otf
2. LibertinusMath-Regular.otf	libertinusmath	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusMath-Regular.otf
3. LibertinusMono-Regular.otf	libertinusmono	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusMono-Regular.otf
4. LibertinusSans-Bold.otf	libertinusussans	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSans-Bold.otf
5. LibertinusSans-Italic.otf	libertinusussans	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSans-Italic.otf
6. LibertinusSans-Regular.otf	libertinusussans	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSans-Regular.otf
7. LibertinusSerif-Bold.otf	libertinusserif	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSerif-Bold.otf
8. LibertinusSerif-BoldItalic.otf	libertinusserif	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSerif-BoldItalic.otf
9. LibertinusSerif-Italic.otf	libertinusserif	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSerif-Italic.otf
10. LibertinusSerif-Regular.otf	libertinusserif	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSerif-Regular.otf
11. LibertinusSerif-Semibold.otf	libertinusserif	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSerif-Semibold.otf
12. LibertinusSerif-SemiboldItalic.otf	libertinusserif	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSerif-SemiboldItalic.otf
13. LibertinusSerifDisplay-Regular.otf	libertinusserifdisplay	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSerifDisplay-Regular.otf
14. LibertinusSerifInitials-Regular.otf	libertinusserifinitials	/usr/local/texlive/2025/texmf-dist/fonts/opentype/public/libertinus-fonts/LibertinusSerifInitials-Regular.otf

```
luafindfont -i 9 sego
```

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

```
luafindfont -o 6 arial
```

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

### 3 Examples

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	/Users/voss/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.	ArialHB.ttc	arialhebrew	/System/Library/Fonts/ArialHB.ttc
14.	ArialHB.ttc	arialhebrewdeskinterface	/System/Library/Fonts/ArialHB.ttc
15.	ArialHB.ttc	arialhebrew	/System/Library/Fonts/ArialHB.ttc
16.	ArialHB.ttc	arialhebrewdeskinterface	/System/Library/Fonts/ArialHB.ttc
17.	ArialHB.ttc	arialhebrewscholar	/System/Library/Fonts/ArialHB.ttc
18.	ArialHB.ttc	arialhebrewdeskinterface	/System/Library/Fonts/ArialHB.ttc
19.	ArialHB.ttc	arialhebrew	/System/Library/Fonts/ArialHB.ttc
20.	ArialHB.ttc	arialhebrewscholar	/System/Library/Fonts/ArialHB.ttc

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

1.	MinionMath-Bold.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-Bold.otf
2.	MinionMath-BoldCapt.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-BoldCapt.otf
3.	MinionMath-BoldDisp.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-BoldDisp.otf
4.	MinionMath-BoldSubh.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-BoldSubh.otf
5.	MinionMath-BoldTiny.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-BoldTiny.otf
6.	MinionMath-Capt.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-Capt.otf
7.	MinionMath-Disp.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-Disp.otf
8.	MinionMath-Medium.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-Medium.otf
9.	MinionMath-MediumCapt.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-MediumCapt.otf
10.	MinionMath-MediumDisp.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-MediumDisp.otf
11.	MinionMath-MediumSubh.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-MediumSubh.otf
12.	MinionMath-MediumTiny.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-MediumTiny.otf
13.	MinionMath-Regular.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-Regular.otf
14.	MinionMath-Semibold.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-Semibold.otf
15.	MinionMath-SemiboldCapt.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-SemiboldCapt.otf
16.	MinionMath-SemiboldDisp.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-SemiboldDisp.otf
17.	MinionMath-SemiboldSubh.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-SemiboldSubh.otf
18.	MinionMath-SemiboldTiny.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-SemiboldTiny.otf
19.	MinionMath-Subh.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-Subh.otf
20.	MinionMath-Tiny.otf	minionmath	/Users/voss/Library/Fonts/MinionMath/MinionMath-Tiny.otf
21.	MinionPro-Bold.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-Bold.otf
22.	MinionPro-BoldCn.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-BoldCn.otf
23.	MinionPro-BoldCnIt.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-BoldCnIt.otf



24.	MinionPro-BoldIt.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-BoldIt.otf
25.	MinionPro-Capt.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-Capt.otf
26.	MinionPro-Disp.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-Disp.otf
27.	MinionPro-It.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-It.otf
28.	MinionPro-Medium.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-Medium.otf
29.	MinionPro-MediumIt.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-MediumIt.otf
30.	MinionPro-Regular.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-Regular.otf
31.	MinionPro-Semibold.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-Semibold.otf
32.	MinionPro-SemiboldIt.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-SemiboldIt.otf
33.	MinionPro-Subh.otf	minionpro	/Users/voss/Library/Fonts/MinionPro/MinionPro-Subh.otf

## 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.	Filename	Path
1.	Aboensis-Regular.otf	/usr/local/texlive/texmf-dist/fonts/opentype/public/aboensis/
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/

#### 4 List of all fonts

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/