The LXGW Font Family[*] | 落霞与孤鹜齐飞 秋水共长天一色

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This package packs a selection of open-source CJK fonts from 霞鹜新緻宋, 霞鹜新晰黑, 霞鹜文楷, 霞鹜臻楷, which are released into public domain by LXGW and 朱雀仿宋 released into public domain by TrionesType since 2021. They are licensed under the IPA Font License and SIL Open Font License.

Abstract

The LXGW Font Family provides an open-source CJK font family with a comprehensive character set for Chinese (Simplified/Traditional), Cantonese, and Japanese. A `fontset` configuration of this font family for the ctex-kit is also provided in this package.

1 Usage

Users are allowed to use the friendly interface: the `fontset` key in CTEX kit

```
\documentclass[fontset = lxgw]{ctex(art|book|rep|beamer)}
\usepackage    [fontset = lxgw]{ctex}
```

with engines pdfTEX, XETEX, LuaTEX, upTEX, and ApTEX supported. Four commands are provided for loading the listed regular and **bold** font files

`\songti`	宋体 (CJKmainfont): LXGWNeoZhiSong.ttf, LXGWNeoZhiSongScreen.ttf
`\heiti`	黑体 (CJKsansfont): LXGWNeoXiHei.ttf, LXGWNeoXiHeiScreen.ttf
`\fangsong`	仿宋 (CJKmonofont): LXGWZhuqueFangsong-Regular.ttf (AutoFakeBold enabled)
`\kaishu`	楷书 (it.of CJKmainfont): LXGWWenKaiGBLite-Regular.ttf, LXGWZhenKaiSlabGB-Regular.ttf

This user-friendly interface is implemented in A.1, A.2, and A.3.

The `.ttf` files are sourced from the following links

- https://github.com/lxgw/LxgwNeoZhiSong/releases/latest/download/LXGWNeoZhiSong.ttf
- https://github.com/lxgw/LxgwNeoXiZhi-Screen/releases/latest/download/LXGWNeoZhiSongScreen.ttf
- https://github.com/lxgw/LxgwNeoXiHei/releases/latest/download/LXGWNeoXiHei.ttf
- https://github.com/lxgw/LxgwNeoXiZhi-Screen/releases/latest/download/LXGWNeoXiHeiScreen.ttf

[*] https://github.com/myhsia/LXGW-CTAN

[†] https://github.com/lxgw, https://github.com/TrionesType/zhuque

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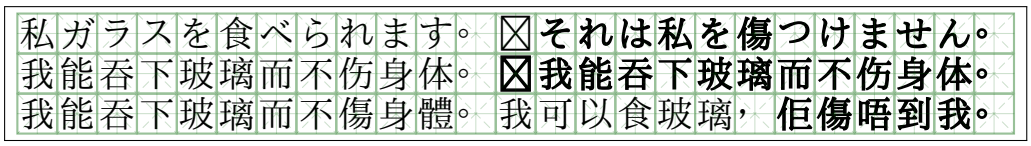
- https://github.com/TrionesType/zhuque/releases/download/v0.212/ZhuqueFangsong-v0.212.zip
- https://github.com/lxgw/LxgwWenkaiGB-Lite/releases/latest/download/LXGWWenKaiGBLite-Regular.ttf
- https://github.com/lxgw/LxgwZhenKai/releases/latest/download/LXGWZhenKaiSlabGB-Regular.ttf

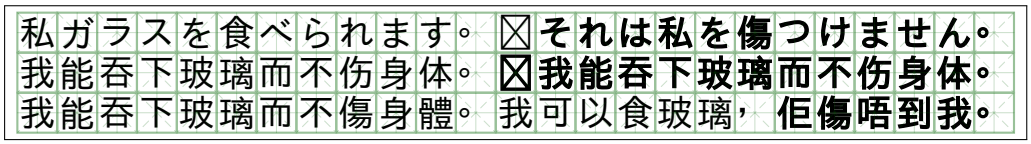
2 Font Demos

The following lists the Chinese/English name, filename, and demos of the fonts: Cantonese, Japanese, Chinese (Simplified/Traditional) versions of "**I Can Eat Glass**", and missing character markers are provided with punctuation compression disabled.

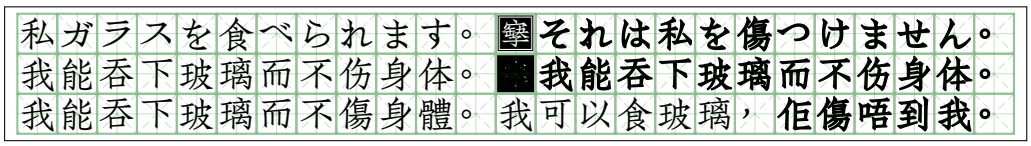
霞鶩新緻宋 = LXGWNeoZhiSong.ttf, LXGWNeoZhiSongScreen.ttf



霞鶩新晰黑 = LXGWNeoXiHei.ttf, LXGWNeoXiHeiScreen.ttf



朱雀仿宋 = LXGWZhuqueFangsong-Regular.ttf



霞鶩文楷，**霞鶩臻楷** = LXGWWenKaiGBLite-Regular.ttf, LXGWZhenKaiSlabGB-Regular.ttf

A The Source Code

A.1 The `ctex-fontset-lxgw.def` file

Start the optionlist `fontset` for l3docstrip.

```
1 ⟨*fontset⟩
```

Load CJK font family, the interface provided by ctex-kit accepts the following 3 branches.

```
2 \ctex_fontset_case:nnn
```

pdfTEX For those pdfTEX or LATEX + DVIPDFMx.

```
3   {
```

Load the `.spa` file for the CJKpunct package under pdfTEX.

```
4     \ctex_file_input:n { ctexspa-lxgw.def }
```

Case choice controlled by the `zhmap` key of ctex-kit.

```
5     \ctex_zhmap_case:nnn
```

`#1` : Content of this argument will be outputted to the input stream when `zhmap = zhmCJK`

```
      \cs_gset_eq:NN \ctex_zhmap_case:nnn \use_i:nnn
```

The LXGW font family uses `UniGB-UTF16-H` Character To Glyph Index **Map**ping Table.

```
6           {
7             \setCJKmainfont { LXGWNeoZhiSong.ttf              }
8               [
9                 cmap           = UniGB-UTF16-H, AutoFakeBold,
10                ItalicFont     = LXGWWenKaiGBLite-Regular.ttf,
11                BoldItalicFont = LXGWZhenKaiSlabGB-Regular.ttf
12              ]
13            \setCJKsansfont { LXGWNeoXiHei.ttf                }
14              [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
15            \setCJKmonofont { LXGWZhuqueFangsong-Regular.ttf  }
16              [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
17            \setCJKfamilyfont { zhsong } { LXGWNeoZhiSong.ttf             }
18              [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
19            \setCJKfamilyfont { zhhei  } { LXGWNeoXiHei.ttf               }
20              [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
21            \setCJKfamilyfont { zhfs   } { LXGWZhuqueFangsong-Regular.ttf }
22              [ cmap = UniGB-UTF16-H, AutoFakeBold, AutoFakeSlant ]
23            \setCJKfamilyfont { zhkai  } { LXGWWenKaiGBLite-Regular.ttf   }
24              [ cmap = UniGB-UTF16-H, AutoFakeSlant,
25                BoldFont        = LXGWZhenKaiSlabGB-Regular.ttf,
26                SlantedFont     = LXGWWenKaiGBLite-Regular.ttf,
27                ItalicFont      = LXGWWenKaiGBLite-Regular.ttf,
28                BoldSlantedFont = LXGWZhenKaiSlabGB-Regular.ttf,
29                BoldItalicFont  = LXGWZhenKaiSlabGB-Regular.ttf   ]
```

Configure the usages of the edge information of the defined CJK families.

```
30            \ctex_punct_set:n { lxgw }
31            \ctex_punct_map_family:nn   { \CJKrmdefault         } { zhsong  }
32            \ctex_punct_map_family:nn   { \CJKsfdefault         } { zhhei   }
33            \ctex_punct_map_family:nn   { \CJKttdefault         } { zhfs    }
```

```
      \ctex_punct_map_bfseries:nn { \CJKrmdefault, zhsong } { zhsongb }
      \ctex_punct_map_bfseries:nn { \CJKsfdefault, zhhei  } { zhheib  }
      \ctex_punct_map_itshape:nn  { \CJKrmdefault         } { zhkai   }
    }
```

`#2`: Content of this argument will be outputted to the input stream when `zhmap = true`

```
\cs_gset_eq:NN \ctex_zhmap_case:nnn \use_ii:nnn
```

Load the mapping file `ctex-zhmap-lxgw.tex` (see A.3) for zhmatrices and set `\CJKrmdefault`, `\CJKsfdefault`, `\CJKttdefault`, respectively.

```
    {
      \ctex_load_zhmap:nnnn { rm } { zhhei } { zhfs } { lxgw }
```

Configure the usages of the edge information of `\CJKrmdefault`.

```
      \ctex_punct_set:n { lxgw }
      \ctex_punct_map_family:nn   { \CJKrmdefault } { zhsong }
      \ctex_punct_map_bfseries:nn { \CJKrmdefault } { zhhei  }
      \ctex_punct_map_itshape:nn  { \CJKrmdefault } { zhkai  }
    }
```

`#3`: Content of this argument will be outputted to the input stream when `zhmap = false`

```
\cs_gset_eq:NN \ctex_zhmap_case:nnn \use_iii:nnn
```

Here will raise a `fontset-unavailable` error.

```
    { \ctex_fontset_error:n { lxgw } }
  }
```

upTEX, ApTEX For those use upLaTeX + DVIPDFMx. Configure the basic font mapping for upTEX. Due to the definition in zhmetrics-uptex, configure

1. `upshape` of serif font.
2. `bfseries` of serif font.
3. `itshape` of serif font.
4. `upshape` of sans font.
5. `bfseries` of sans font.
6. `upshape` of mono font.

```
{
  \ctex_set_upfonts:nnnnnn
    { LXGWNeoZhiSong.ttf              }
    { LXGWNeoZhiSongScreen.ttf        }
    { LXGWWenKaiGBLite-Regular.ttf    }
    { LXGWNeoXiHei.ttf                }
    { LXGWNeoXiHeiScreen.ttf          }
    { LXGWZhuqueFangsong-Regular.ttf  }
```

Config the NFSS font families `zhsong`, `zhhei`, `zhfs`, and `zhkai` to the JFM name in normal type and bold type. Leave empty for those font families with no bold version.

```
  \ctex_set_upfamily:nnn { zhsong } { upzhserif    } { upzhserifb }
  \ctex_set_upfamily:nnn { zhhei  } { upzhsans     } { upzhsans   }
  \ctex_set_upfamily:nnn { zhfs   } { upzhmono     } { }
  \ctex_set_upfamily:nnn { zhkai  } { upzhserifit  } { }
}
```

XeLaTeX, LuaTeX

For those use XeLaTeX or LuaLaTeX.

```
{
  \setCJKmainfont { LXGWNeoZhiSong              }
    [
      Extension      = .ttf, AutoFakeBold,
      ItalicFont     = LXGWWenKaiGBLite-Regular,
      BoldItalicFont = LXGWZhenKaiSlabGB-Regular.ttf,
    ]
  \setCJKsansfont { LXGWNeoXiHei                }
    [ Extension = .ttf, AutoFakeBold,                       AutoFakeSlant ]
  \setCJKmonofont { LXGWZhuqueFangsong-Regular  }
    [ Extension = .ttf, AutoFakeBold,                       AutoFakeSlant ]
  \setCJKfamilyfont { zhsong } { LXGWNeoZhiSong }
    [ Extension = .ttf, AutoFakeBold,                       AutoFakeSlant ]
  \setCJKfamilyfont { zhhei  } { LXGWNeoXiHei               }
    [ Extension = .ttf, AutoFakeBold,                       AutoFakeSlant ]
  \setCJKfamilyfont { zhfs   } { LXGWZhuqueFangsong-Regular }
    [ Extension = .ttf, AutoFakeBold,                       AutoFakeSlant ]
  \setCJKfamilyfont { zhkai  } { LXGWWenKaiGBLite-Regular   }
    [ Extension = .ttf, BoldFont        = LXGWZhenKaiSlabGB-Regular,
                        SlantedFont     = LXGWWenKaiGBLite-Regular,
                        ItalicFont      = LXGWWenKaiGBLite-Regular,
                        BoldSlantedFont = LXGWZhenKaiSlabGB-Regular,
                        BoldItalicFont  = LXGWZhenKaiSlabGB-Regular     ]
}
```

\songti
\heiti
\fangsong
\kaishu

Shortcuts that same as those in the ctex-kit.

```
\NewDocumentCommand \songti   { } { \CJKfamily { zhsong } }
\NewDocumentCommand \heiti    { } { \CJKfamily { zhhei  } }
\NewDocumentCommand \fangsong { } { \CJKfamily { zhfs   } }
\NewDocumentCommand \kaishu   { } { \CJKfamily { zhkai  } }
```

(*End of definition for* `\songti` *and others. These functions are documented on page* 1.)

End the optionlist `fontset` for l3docstrip.

```
⟨/fontset⟩
```

A.2 The `ctex-spa-make-lxgw.tex` and the `ctexspa-lxgw.def` file

The `.spa` file of the corresponding font will be used for the CJKpunct package to achieve the punctuation compression, which can ensure the best typeset effect (under the pdfTeX engine). Run the following script, `ctex-spa-make-lxgw.tex` by executing

```
xetex ctex-spa-make-lxgw
```

in the terminal. Then, one can obtain the `ctexpunct-lxgw.spa` file.

Start the optionlist `makespa` for l3docstrip.

```
⟨*makespa⟩
```

Loading the macro file `ctex-spa-macro.tex` provided by ctex-kit.

```
\input ctex-spa-macro %
```

List all the CJK families with the corresponding font files in terms of “case-pairs”.

```
\MAKESPA {ctexpunct-lxgw.spa}
  {
    {lxgwzhsong}      {LXGWNeoZhiSong} ,
    {lxgwzhsongb}     {LXGWNeoZhiSongScreen} ,
    {lxgwzhhei}       {LXGWNeoXiHei} ,
    {lxgwzhheib}      {LXGWNeoXiHeiScreen} ,
    {lxgwzhfs}        {LXGWZhuqueFangsong-Regular} ,
    {lxgwzhkai}       {LXGWWenKaiGBLite-Regular} ,
    {lxgwzhkaib}      {LXGWZhenKaiSlabGB-Regular} ,
  }
```

End of the script.

```
\primitive\end
```

End the optionlist `makespa` for l3docstrip.

```
⟨/makespa⟩
```

Start the optionlist `lxgw-spa` for l3docstrip.

```
⟨*lxgw-spa⟩
```

Define the edge information of the corresponding font families for the CJKpunct package.

```
\ctexspadef{lxgwzhsong}{10,8,9,8,67,8,58,8,71,8,65,9,67,8,65,10,55,5,54,4,64,9,71,9,0,0,10,10
\ctexspadef{lxgwzhsongb}{9,7,8,7,67,8,58,8,70,8,65,8,67,8,65,9,55,5,53,3,63,8,70,8,-0,-0,10,1
\ctexspadef{lxgwzhhei}{9,5,10,5,65,8,58,5,68,8,66,8,61,8,67,8,53,5,52,3,60,7,71,7,0,0,11,11,4
\ctexspadef{lxgwzhheib}{9,5,9,5,64,8,57,5,68,8,65,7,61,8,67,8,53,5,52,3,60,6,70,6,0,0,11,11,4
\ctexspadef{lxgwzhfs}{3,2,3,2,60,8,60,5,65,16,62,17,63,18,59,17,60,13,49,12,60,6,69,8,0,0,11,
\ctexspadef{lxgwzhkai}{12,11,6,4,72,6,68,5,72,6,71,7,72,6,68,7,66,5,52,5,70,-1,72,4,1,1,12,12
\ctexspadef{lxgwzhkaib}{9,9,7,8,71,4,64,5,71,5,73,6,72,6,68,2,65,4,47,4,62,3,66,3,0,0,12,13,7
```

End the optionlist `lxgw-spa` for l3docstrip.

```
⟨/lxgw-spa⟩
```

A.3 The `ctex-zhmap-lxgw.tex` file

Start the optionlist `zhmap-lxgw` for l3docstrip.

```
⟨*zhmap-lxgw⟩
```

Forked from the `zhmap` optionlist of `ctex.dtx`[1].

```
\begingroup\catcode61\catcode48\catcode32=10\relax%
  \catcode 35=6  % #
  \catcode 45=12 % -
  \catcode123=1  % {
  \catcode125=2  % }
  \toks0{\endlinechar=\the\endlinechar\relax}%
  \toks2{\endlinechar=-1 }%
  \def\x#1 #2 {%
    \toks0\expandafter{\the\toks0 \catcode#1=\the\catcode#1\relax}%
    \toks2\expandafter{\the\toks2 \catcode#1=#2 }}%
  \x  13  5 % carriage return
  \x  32 10 % space
  \x  35  6 % #
```

[1] https://github.com/CTeX-org/ctex-kit/blob/master/ctex/ctex.dtx

```
  \x  40 12 % (
  \x  41 12 % )
  \x  45 12 % -
  \x  46 12 % .
  \x  47 12 % /
  \x  58 12 % :
  \x  60 12 % <
  \x  61 12 % =
  \x  64 11 % @
  \x  91 12 % [
  \x  93 12 % ]
  \x 123  1 % {
  \x 125  2 % }
  \edef\x#1{\endgroup%
    \edef\noexpand#1{%
      \the\toks0 %
      \let\noexpand\noexpand\noexpand#1%
          \noexpand\noexpand\noexpand\undefined%
      \noexpand\noexpand\noexpand\endinput}%
    \the\toks2}%
\expandafter\x\csname ctex@zhmap@endinput\endcsname
\begingroup\expandafter\endgroup
\expandafter\let\csname ifzhmappdf\expandafter\endcsname\csname
  \expandafter\ifx\csname ifctexpdf\endcsname\relax
    \expandafter\ifx\csname pdfoutput\endcsname\relax
      iffalse\else\ifnum\pdfoutput < 1 iffalse\else iftrue\fi\fi
  \else ifctexpdf\fi
\endcsname
\begingroup
\expandafter\ifx\csname ProvidesFile\endcsname\relax
  \long\def\x#1\ProvidesFile#2[#3]{%
    #1%
    \immediate\write-1{File: #2 #3}%
    \expandafter\xdef\csname ver@#2\endcsname{#3}}
  \expandafter\x%
\fi
\endgroup
```

Provides the identification information of the font map loader.

```
\ProvidesFile{ctex-zhmap-lxgw.tex}%
  [\LXGWFileDate\space \LXGWFileVersion\space lxgw font map loader for DVIPDFMx (CTEX)]
```

Font map loader for pdfTEX (generate PDF).

```
\ifzhmappdf
  \pdfmapline{=gbk@UGBK@          <LXGWNeoZhiSong.ttf}
  \pdfmapline{=gbksong@UGBK@      <LXGWNeoZhiSong.ttf}
  \pdfmapline{=gbkkai@UGBK@       <LXGWWenKaiGBLite-Regular.ttf}
  \pdfmapline{=gbkhei@UGBK@       <LXGWNeoXiHei.ttf}
  \pdfmapline{=gbkfs@UGBK@        <LXGWZhuqueFangsong-Regular.ttf}
  \pdfmapline{=cyberb@Unicode@    <LXGWNeoZhiSong.ttf}
  \pdfmapline{=unisong@Unicode@   <LXGWNeoZhiSong.ttf}
  \pdfmapline{=unikai@Unicode@    <LXGWWenKaiGBLite-Regular.ttf}
```

```
  \pdfmapline{=unihei@Unicode@    <LXGWNeoXiHei.ttf}
  \pdfmapline{=unifs@Unicode@     <LXGWZhuqueFangsong-Regular.ttf}
  \pdfmapline{=gbksongsl@UGBK@    <LXGWNeoZhiSong.ttf}
  \pdfmapline{=gbkkaisl@UGBK@     <LXGWWenKaiGBLite-Regular.ttf}
  \pdfmapline{=gbkheisl@UGBK@     <LXGWNeoXiHei.ttf}
  \pdfmapline{=gbkfssl@UGBK@      <LXGWZhuqueFangsong-Regular.ttf}
  \pdfmapline{=unisongsl@Unicode@ <LXGWNeoZhiSong.ttf}
  \pdfmapline{=unikaisl@Unicode@  <LXGWWenKaiGBLite-Regular.ttf}
  \pdfmapline{=uniheisl@Unicode@  <LXGWNeoXiHei.ttf}
  \pdfmapline{=unifssl@Unicode@   <LXGWZhuqueFangsong-Regular.ttf}
```

Configuration for pdfTEX (generate DVI).

```
\else
```

Configure the upright shape of `\songti`, `\kaishu`, `\heiti`, and `\fangsong` mapping for GBK encoding and UTF8 encoding.

```
\special{pdf:mapline gbk@UGBK@          UniGB-UTF16-H LXGWNeoZhiSong.ttf}
\special{pdf:mapline gbksong@UGBK@      UniGB-UTF16-H LXGWNeoZhiSong.ttf}
\special{pdf:mapline gbkkai@UGBK@       UniGB-UTF16-H LXGWWenKaiGBLite-Regular.ttf}
\special{pdf:mapline gbkhei@UGBK@       UniGB-UTF16-H LXGWNeoXiHei.ttf}
\special{pdf:mapline gbkfs@UGBK@        UniGB-UTF16-H LXGWZhuqueFangsong-Regular.ttf}
\special{pdf:mapline cyberb@Unicode@    UniGB-UTF16-H LXGWNeoZhiSong.ttf}
\special{pdf:mapline unisong@Unicode@   UniGB-UTF16-H LXGWNeoZhiSong.ttf}
\special{pdf:mapline unikai@Unicode@    UniGB-UTF16-H LXGWWenKaiGBLite-Regular.ttf}
\special{pdf:mapline unihei@Unicode@    UniGB-UTF16-H LXGWNeoXiHei.ttf}
\special{pdf:mapline unifs@Unicode@     UniGB-UTF16-H LXGWZhuqueFangsong-Regular.ttf}
```

Similar for the (fake) slant shape, set the *Afine Transformation coefficient* to `0.167`, which is the same as the default value of `AutoFakeSlant` in the xeCJK package.

```
\special{pdf:mapline gbksongsl@UGBK@    UniGB-UTF16-H LXGWNeoZhiSong.ttf -s .167}
\special{pdf:mapline gbkkaisl@UGBK@     UniGB-UTF16-H LXGWWenKaiGBLite-Regular.ttf -s .167}
\special{pdf:mapline gbkheisl@UGBK@     UniGB-UTF16-H LXGWNeoXiHei.ttf -s .167}
\special{pdf:mapline gbkfssl@UGBK@      UniGB-UTF16-H LXGWZhuqueFangsong-Regular.ttf -s .167}
\special{pdf:mapline unisongsl@Unicode@ UniGB-UTF16-H LXGWNeoZhiSong.ttf -s .167}
\special{pdf:mapline unikaisl@Unicode@  UniGB-UTF16-H LXGWWenKaiGBLite-Regular.ttf -s .167}
\special{pdf:mapline uniheisl@Unicode@  UniGB-UTF16-H LXGWNeoXiHei.ttf -s .167}
\special{pdf:mapline unifssl@Unicode@   UniGB-UTF16-H LXGWZhuqueFangsong-Regular.ttf -s .167}
\fi
```

End the optionlist `zhmap-lxgw` for l3docstrip.

```
⟨/zhmap-lxgw⟩
```

Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

Symbols

XeTeX, LuaTeX (option) *5*
pdfTeX (option) *3*
upTeX, ApTeX (option) *4*

B

\begingroup 113, 147, 154

C

\catcode 113, 114, 115, 116, 117, 121, 122
\CJKfamily 84, 85, 86, 87
\CJKrmdefault 31, 34, 36, 41, 42, 43
\CJKsfdefault 32, 35
\CJKttdefault 33
\csname 146, 148, 149, 150, 155, 159
ctex commands:
  \ctex_file_input:n 4
  \ctex_fontset_case:nnn 2
  \ctex_fontset_error:n 45
  \ctex_load_zhmap:nnnn 39
  \ctex_punct_map_bfseries:nn . 34, 35, 42
  \ctex_punct_map_family:nn 31, 32, 33, 41
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