

初メテノ帝母劉貴人賜レ死、太祖告レ帝曰「昔漢

武帝將立タセントノヲ其子一而殺其母、不下令婦人後

與二國政ニ使中外家爲上レ亂。汝當ニ繼姪之故吾遠

同ズルコト漢武トたりテ久之計。帝素ヨリ尤哀泣

不レ能ハ自勝トラッコト太祖奴レナ。帝還レ宮、哀シク

止、日夜ニシテ號泣。太祖知而又召レ之。帝欲入

左右曰「孝子事ヘバニ父、小杖則受、大杖避レ之今

陛下怒ノルコトシナリ入或不測、陷帝於不義ニ不

如ニ且出、待ニ怒解一而進、不レ晚也。」帝ハ

懼レ從レ之、乃游行逃ニ於外。

# The kanbun package

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## 1 Introduction

The kanbun package, like other *kanbun-kundoku* (漢文訓読) <sup>LT</sup>E<sub>X</sub> packages (such as gckanbun), allows users to manually input macros for elements in a *kanbun-kundoku* paragraph.

More importantly, it accepts input with light markup in the “*kanbun* annotation” form when used with Lua<sup>LT</sup>E<sub>X</sub>, which allows typesetting *kanbun-kundoku* paragraphs efficiently<sup>1</sup>.

## 2 Basic example with Lua<sup>LT</sup>E<sub>X</sub>

As seen in the following example, typesetting a *kanbun-kundoku* paragraph with the kanbun package requires only light annotations — it automatically transforms the annotated plain text into <sup>LT</sup>E<sub>X</sub> macros through Lua, rather than having users type in macros themselves.

```
\documentclass{ltjtarticle}
\usepackage[kumi=aki, tateaki=1]{kanbun}
```

<sup>1</sup>The idea comes from 漢文 HTML by UntPhesoca, which is a JavaScript and css implementation.

```

\begin{document}
\Kanbun
月落チ烏啼キテ霜満ツ[レ]天ニ,
江楓漁火対ス[二]愁眠ニ[一]。
姑(ニ)蘇(ソ)城外ノ寒山寺,
夜半ノ鐘声到ル[二]客船ニ[一]。
\EndKanbun
\printkanbun
\end{document}

```

夜 姑<sup>ニ</sup> 江 月  
 半<sup>レ</sup> 蘇<sup>ソ</sup> 楓 落<sup>チ</sup>  
 鐘 城 漁 烏  
 聲 外<sup>レ</sup> 火 啼<sup>キ<sup>ヲ</sup></sup>  
 到<sup>ル</sup> 寒 對<sup>ス</sup> 霜  
 客 山 愁 滿<sup>ツ</sup>  
 船<sup>ニ</sup> 寺 眠<sup>ニ</sup> 天<sup>ニ</sup>,

Note that if you want to use this functionality, you have to run this document with `LuaTEX`.

## 3 Usage

### 3.1 Package options

Load the package with

```
\usepackage[<kanbun options>]{kanbun}
```

This package provides a variety of customisable features in *kanbun-kundoku*.

`scale=<ratio>`

Sets the ratio of the size of *kanji* to that of ruby texts. Default: 2.

`fontcmd=<font command>`

Sets the font command to use for *kanji*. If `luatexja-fontspec` is loaded, it is set default to `\addjfontfeatures{RawFeature={+trad}}` to obtain traditional *kanji* if applicable.

`rubyfontcmd=`*font command*

Sets the font command to use for ruby texts. If luatexja-fontspec is loaded, it is set default to `\addjfontfeatures{RawFeature={+ruby}}` to obtain ruby glyphs when applicable.

`unit=`*length*

Sets the dimensions of *kanji* (assuming it is a square). Default: `\kanbun_init_zw`, which is a length equal to `1em`.

`yokoaki=`*ratio*

Sets the horizontal space between *kanji* with respect to the size of ruby texts. Default: 2.

`tateaki=`*ratio*

Sets the vertical space between *kanji* with respect to the size of ruby texts. Default: 2.

`okuriintrusion=`*ratio*

Sets the intrusion of *okurigana* (how much *okurigana* should be vertically tucked into the space of *kanji*) with respect to the size of ruby texts, if that does not cause an overlap with *furigana*. Default: 1.

`kumi=aki, beta`

Sets whether to use *aki-gumi* (typeset with uniform inter-character spacing) or *beta-gumi* (typeset with no inter-character space between adjacent character frames). Or simply call *aki* or *beta* without *kumi=*. Default: *aki*.

After initialising the options, you can still change the option values through the command `\setkanbun`. For example, to switch to *beta-gumi*, you could use

```
\setkanbun{beta}
```

### 3.2 Basic usage without Lua<sup>L</sup>T<sub>E</sub>X (not recommended)

When not using the advanced *kanbun*-annotation functionality, it is possible to typeset *kanbun* with any engine with CJK support, such as using X<sub>E</sub>L<sup>T</sup>E<sub>X</sub> with the xeCJK package, or using u<sub>P</sub>L<sup>T</sup>E<sub>X</sub> with utarticle or other appropriate class.

```
\kanjiunit{ \furiokuri{\langle right furigana\rangle}{\langle right okurigana\rangle} }
  {\langle left (top) punctuation (e.g. '「')\rangle}
  {\langle kanji\rangle}
  {\langle other punctuation\rangle}
  {\langle kaeriten\rangle}
  {\furiokuri{\langle left furigana\rangle}{\langle left okurigana\rangle}}
```

### \kanbunfont

Sets the font size of *kanji*. Use when the *unit* option is set different to the document's default font size.

Use `\multifuriokuri` instead of `\furiokuri` if you are putting *furigana* to multiple kanji.

```
\multifuriokuri[<length by which ruby is raised>]{<furigana>}{<okurigana>}
```

For example, the code

```
% example text from https://phesoca.com/kanbun-html/
\kanbunfont
\kanjiunit{}{}{子}{}
\kanjiunit{\furiokuri{}{ク}}{}{曰}{, }{}
\kanjiunit{\furiokuri{}{ツ}}{}{蓋}{三}{\furiokuri{}{ル}}
\kanjiunit{}{}{各}{々}{}
\kanjiunit{\furiokuri{}{ハ}}{}{言}{二}{}
\kanjiunit{\furiokuri{}{ノ}}{}{爾}{}
\kanjiunit{\furiokuri{}{ヲ}}{}{志}{。 }{一}{}
\par
```

outputs

爾	子
志	曰
ノ	ク
蓋	ツ
三	蓋
各	三
言	ハ
二	言

with *tateaki* set to 1.

### 3.3 Usage with Lua<sup>L</sup>ATE<sub>X</sub>

*Kanbun* annotation uses the following brackets to mark different elements in *kanbun-kundoku* (as described in [漢文 HTML](#) by UntPhesoca).

- ( ): *furigana* (振仮名)
- { }: *okurigana* (送仮名) (these brackets can be omitted)
- < >: *furigana* (振仮名) of *saidoku-moji* (再読文字)
- « »: *okurigana* (送仮名) of *saidoku-moji* (再読文字)
- [ ]: *kaeriten* (返点)
- ‘ ’: multiple *kanji*, potentially with *tateten* inserted, as a ruby base; group ruby (グループルビ)
- no annotation: *kanji* (漢字) and punctuation

*Tateten* (堅点) can be input with either — (U+2015), — (U+2014) or | (U+3190).

```
\Kanbun
\EndKanbun
```

Write the annotated *kanbun* between the commands \Kanbun and \EndKanbun, and it will be processed and saved, ready to be used later.

\printkanbun

Where you would like to use the most recently saved *kanbun-kundoku* paragraph, use \printkanbun. It automatically calls \kanbunfont and \par to set the font size and line spacing and make paragraphs.

\printkanbuncode

If you wish to make modifications on the result or to use the result with a non-LuaTeX engine, it is possible to obtain the macros using \printkanbuncode (prints in the terminal), and continue to work from there.

\printkanbunnopar

The no-paragraph counterpart of \printkanbun, which does not invoke \kanbunfont, and uses instead of \par.

## \printkanbunnoparcode

The no-paragraph counterpart of \printkanbuncode.

You can always save \printkanbun to a macro for use later and start a new annotated *kanbun* block, as in the following example.

```
% example text from https://phesoca.com/kanbun-html/
\documentclass{ltjtarticle}
\usepackage[kumi=beta]{kanbun}

\Kanbun
此レ乃チ信(しん)之‘所—[三]以’(ゆゑん)為ル[二]陛下ノ禽(とりこ)ト[一]也。
\EndKanbun
\let\信\printkanbun

\Kanbun
孤之有ルハ[二]孔明[一]，猶ホ<ごと><キ>[二]魚之有ルガ[一レ]水也。
\EndKanbun
\let\孔明\printkanbun

\begin{document}
\孔明\par\bfseries\信
\end{document}
```

此レ  
乃チ  
信(しん)  
之  
所—  
以  
為  
ル  
[二]  
孔明  
[一]  
，  
猶ホ  
<ごと>  
<キ>  
[二]  
魚之  
有  
ルガ  
[一レ]  
水  
也。