

KKsymbols Package Documentation

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Version 1.0.0 (2025/10/03)

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1 Acknowledgements / Credit

In developing this package, I made extensive use of the advice I received from Yusuke Terada.

2 Installation

Place `KKsymbols.sty` in a directory where LaTeX can find it, e.g., your local `texmf` tree or alongside your document.

Dependencies:

- `tikz`

Load the package:

```
\usepackage{KKsymbols}
```

3 Caution

Since this package internally calls `\ltjghostbeforejachar` and `\ltjghostafterjachar`, it can be used only in a LuaLaTeX environment.

4 Commands

4.1 The maru series

This package provides `\maru`, `\kuromaru`, and `\nmaru`. Each of them takes one mandatory argument and no optional arguments. You can pass strings of any length and in any font as arguments. **However, using lowercase letters as arguments is not recommended.**

They are used as follows.

They behave as if they were single kanji or hiragana characters:

表 1 maru series

argument	\maru	\kuromaru	\nmaru
1	①	①	①
97	⑨⑦	⑨⑦	⑨⑦
だ	だ	だ	だ
ばばば	ばばば	ばばば	ばばば

あいう $\textcircled{\text{ああ}}$ いう①②③あいうえお

The spacing between `\maru` and other characters is adjusted using `\ltjghostbeforejachar` and `\ltjghostafterjachar` so that it behaves like hiragana or kanji.

Naturally, these commands also work correctly in vertical writing environments.

When changing the font size using commands such as `\Large`, each command is scaled proportionally according to the font size change:



You can also change the current font:



As mentioned earlier, using lowercase letters as arguments for this macro is not recommended. However, **it is not entirely impossible if you really want to do so**. This package provides two commands, `\dccare` and `\ndccare`. Characters with descenders, such as `g` or `y`, can be handled using `\dccare{g}`, while characters without descenders can be handled using `\ndccare{a}`.

```
\maru{\dccare{g}}\maru{\dccare{ggg}}\maru{\dccare{j}}\maru{\dccare{jjj}}\
maru{\ndccare{a}}
\maru{\dccare{j}\ndccare{b}\dccare{j}}\maru{あ\dccare{g}}\maru{A\dccare{j}}\
maru{田\ndccare{a}}
```



For certain fonts, the characters may still extend beyond the frame even with these adjustments. In such cases, use commands like `\scalebox` or `\raisebox` to adjust

them as needed.

5 The seihou series

The commands introduced below are used in exactly the same way as the maru series.

表 2 seihou series









argument	\seihou	\kuroseihou
1		
97		
だ		
ぱぱぱ		

表 3 seimaru series

























argument	\seimaru	\kuroseimaru
1		
97		
だ		
ぱぱぱ		

表 4 hishi series

argument	\hishi	\kurohishi	\maruhishi	\kuromaruhishi
1				
97				
だ				
ぱぱぱ				

Examples with lowercase alphabet characters are additionally provided.

```

\seihou{\dccare{g}}\seihou{\dccare{ggg}}\seihou{\dccare{j}}\seihou{\dccare{
jjj}}\seihou{\ndccare{a}}
\seihou{\dccare{j}\ndccare{b}\dccare{j}}\seihou{あ\dccare{g}}\seihou{A\
dccare{j}}\seihou{田\ndccare{a}}
\hishi{\dccare{g}}\hishi{\dccare{ggg}}\hishi{\dccare{j}}\hishi{\dccare{jjj
}}\hishi{\ndccare{a}}
\hishi{\dccare{j}\ndccare{b}\dccare{j}}\hishi{あ\dccare{g}}\hishi{A\dccare{j
}}\hishi{田\ndccare{a}}

```

```

g ggg j jjj a
jb あ Aj 田a
◇ ◇ ◇ ◇ ◇
◇ ◇ ◇ ◇ ◇

```

6 The kakko series

The commands introduced below are used in exactly the same way as the maru series.

表 5 kakko series ①

argument	\kakko	\sumikakko	\kakukakko	\kikakko	\yakko
1	(1)	【1】	[1]	〔1〕	⟨1⟩
97	(97)	【97】	[97]	〔97〕	⟨97⟩
だ	(だ)	【だ】	[だ]	〔だ〕	⟨だ⟩
ばばば	(^{ddd} _{bbb})	【 ^{ddd} _{bbb} 】	[^{ddd} _{bbb}]	〔 ^{ddd} _{bbb} 〕	⟨ ^{ddd} _{bbb} ⟩

表 6 kakko series ②

argument	\nykakko	\namikakko	\kagikakko	\nkagikakko	\period
1	《1》	{1}	「1」	『1』	1.
97	《97》	{97}	「97」	『97』	97.
だ	《だ》	{だ}	「だ」	『だ』	だ.
ばばば	《 ^{ddd} _{bbb} 》	{ ^{ddd} _{bbb} }	「 ^{ddd} _{bbb} 」	『 ^{ddd} _{bbb} 』	^{ddd} _{bbb} .

Examples with lowercase alphabet characters are additionally provided.

```

\kakko{\dccare{g}}\kakko{\dccare{ggg}}\kakko{\dccare{j}}\kakko{\dccare{jjj}}
\kakko{\ndccare{a}}
\kakko{\dccare{j}\ndccare{b}\dccare{j}}\kakko{あ\dccare{g}}\kakko{A\dccare{j}}
\kakko{田\ndccare{a}}

(g)(gggj)(jjja)
(jb)(gg)(A)(jjja)

```

7 License

Released under the [LaTeX Project Public License \(LPPL\) 1.3c](#).

8 Version History

- **v1.0.0 (2025/10/03)** — Initial public release.

9 Source Code

```

\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{KKsymbols}[2025/10/03, Version 1.0.0]

\RequirePackage{tikz}
\usetikzlibrary{shapes}

\makeatletter
\newcommand{\dccare}[1]{\vphantom{田}\raisebox{\dimexpr.18\dimexpr\f@size pt}{\relax}{\scalebox{1}{.8}{#1}}}}
\newcommand{\ndccare}[1]{\vphantom{田}{#1}}
\makeatother

\makeatletter
\newcommand{\VerticalAdjustMaru}{%
  \ifnum\ltjgetparameter{direction}=3
    -0.06ex % 縦組
  \else

```

```

    0.19ex % 横組
    \fi
}
\makeatother

\makeatletter
\newcommand{\maybescale}[3]{%
    \ifdim #1 > #2%
        \ifdim #1 > 0pt%
            \edef\scalefactor{%
                \fpeval{ \strip@pt\dimexpr #2\relax / \strip@pt\dimexpr #1\relax }%
            }%
        \else%
            \def\scalefactor{1}%
        \fi%
        \scalebox{\scalefactor}[1]{#3}%
    \else%
        #3%
    \fi%
}

%maru系縦方向
\makeatletter
\newcommand{\maybescaleV}[3]{%
    \ifnum\ltjgetparameter{direction}=3
        #3%
    \else
        \ifdim \dimexpr 1.5\dimexpr #1\relax < #2%
            \edef\verticalscale{%
                \fpeval{0.72 * (\strip@pt\dimexpr #2\relax / \strip@pt\dimexpr #1\relax)}%
            }%
            \scalebox{1}[\verticalscale]{#3}%
        \else%
            #3%
        \fi%
    \fi
}

%seihou系縦方向

```



```

\newcommand{\maybescaleVV}[3]{%
  \ifnum\ltjgetparameter{direction}=3
    #3%
  \else
    \ifdim \dimexpr 1.5\dimexpr #1\relax < #2%
      \edef\verticalscale{%
        \fpeval{0.64 * (\strip@pt\dimexpr #2\relax / \strip@pt\dimexpr #1\relax)}%
      }%
      \scalebox{1}[\verticalscale]{#3}%
    \else%
      #3%
    \fi%
  \fi
}

```

%hishi系縦方向

```

\newcommand{\maybescaleVVV}[3]{%
  \ifnum\ltjgetparameter{direction}=3
    #3%
  \else
    \ifdim \dimexpr 1.5\dimexpr #1\relax < #2%
      \edef\verticalscale{%
        \fpeval{0.58 * (\strip@pt\dimexpr #2\relax / \strip@pt\dimexpr #1\relax)}%
      }%
      \scalebox{1}[\verticalscale]{#3}%
    \else%
      #3%
    \fi%
  \fi
}

```

%kakko系

```

\newcommand{\maybescaleVVVV}[3]{%
  \ifnum\ltjgetparameter{direction}=3
    #3%
  \else
    \ifdim \dimexpr 1.5\dimexpr #1\relax < #2%
      \edef\verticalscale{%

```

```

\fpval{0.58 * (\strip@pt\dimexpr #2\relax / \strip@pt\dimexpr #1\
relax)}%
}%
\scalebox{1}[\verticalscale]{#3}%
\else%
#3%
\fi%
\fi
}
\makeatother

\makeatother

\makeatletter
\newlength{\maru@boxwidth}
\newlength{\maru@textwidth}
\newlength{\maru@textheight}
\DeclareRobustCommand{\maru}[1]{%
\settowidth{\maru@textwidth}{#1}%
\settoheight{\maru@textheight}{#1}%
\setlength{\maru@boxwidth}{\f@size pt}%
\multiply\maru@boxwidth by 105 % 123から105へ
\divide\maru@boxwidth by 100 %
\ltjghostbeforejachar%
\vphantom{羅}\raisebox{\VerticalAdjustMaru}{%
\hbox to \maru@boxwidth{%
\hss
\tikz[baseline=(char.base), overlay]{%
\node[
shape=circle,
line width=0.1ex,
minimum size=.9\maru@boxwidth, % .92から.9へ
draw,
inner sep=\dimexpr -0.22\dimexpr\f@size pt % .25から.22へ
] (char){%
\raisebox{0.033ex}{\scalebox{0.75}{\vphantom{羅}\makebox[.83\
maru@boxwidth][c]{\maybescale{\maru@textwidth}{.83\
maru@boxwidth}{\maybescaleV{\maru@textheight}{\maru@boxwidth
}{#1}}}}}% 0.8倍から0.75倍へ・.9\maru@boxwidth から 85\
maru@boxwidthへ

```

```

    };
}%
\hss
}%
}%
\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\kuromaru@boxwidth}
\newlength{\kuromaru@textwidth}
\newlength{\kuromaru@textheight}
\DeclareRobustCommand{\kuromaru}[1]{%
  \settowidth{\kuromaru@textwidth}{\#1}%
  \settoheight{\kuromaru@textheight}{\#1}%
  \setlength{\kuromaru@boxwidth}{\f@size pt}%
  \multiply\kuromaru@boxwidth by 105 %
  \divide\kuromaru@boxwidth by 100 %
  \ltjghostbeforejachar%
  \vphantom{羅}\raisebox{\VerticalAdjustMaru}{%
    \hbox to \kuromaru@boxwidth{%
      \hss
      \tikz[baseline=(char.base), overlay]{%
        \node[
          shape=circle,
          line width=0.1ex,
          minimum size=.9\kuromaru@boxwidth,
          draw, fill=black,
          inner sep=\dimexpr -0.22\dimexpr\f@size pt
        ] (char){%
          \raisebox{0.033ex}{\textcolor{white}{\scalebox{0.75}{\vphantom{羅}\
            makebox[.85\kuromaru@boxwidth] [c]{\maybescale{\
              kuromaru@textwidth}{.85\kuromaru@boxwidth}{\maybescaleV{\
                kuromaru@textheight}{\kuromaru@boxwidth}{\#1}}}}}}%
        };
      }%
    }%
  }%
}
\hss
}%
}%

```

```

\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\nmaru@boxwidth}
\newlength{\nmaru@textwidth}
\newlength{\nmaru@textheight}
\DeclareRobustCommand{\nmaru}[1]{%
  \settowidth{\nmaru@textwidth}{\#1}%
  \settoheight{\nmaru@textheight}{\#1}%
  \setlength{\nmaru@boxwidth}{\f@size pt}%
  \multiply\nmaru@boxwidth by 105 %
  \divide\nmaru@boxwidth by 100 %
  \ltjghostbeforejachar%
  \vphantom{羅}\raisebox{\VerticalAdjustMaru}{%
    \hbox to 1.02\nmaru@boxwidth{%
      \hss
      \tikz[baseline=(char.base), overlay, scale=.93]{%
        \node[
          shape=circle,
          line width=0.1ex,
          minimum size=.9\nmaru@boxwidth,
          draw, double, double distance=0.08ex,
          inner sep=\dimexpr -0.22\dimexpr\f@size pt
        ] (char){%
          \raisebox{0.033ex}{\scalebox{0.7}{\vphantom{羅}\makebox[.85\
            nmaru@boxwidth][c]{\maybescale{\nmaru@textwidth}{.85\
            nmaru@boxwidth}{\maybescaleV{\nmaru@textheight}{\nmaru@boxwidth
            }{\#1}}}}}%
        };
      }%
      \hss
    }%
  }%
  \ltjghostafterjachar
}
\makeatother

```

```

\newcommand{\VerticalAdjustMaruX}{%
  \ifnum\ltjgetparameter{direction}=3
    -.13ex % 縦組
  \else
    -.11ex % 横組
  \fi
}

\newcommand{\VerticalAdjustMaruY}{%
  \ifnum\ltjgetparameter{direction}=3
    .124ex % 縦組
  \else
    .25ex % 横組
  \fi
}

\makeatletter
\newlength{\seihou@boxwidth}
\newlength{\seihou@textwidth}
\newlength{\seihou@textheight}
\DeclareRobustCommand{\seihou}[1]{%
  \settowidth{\seihou@textwidth}{#1}%
  \settoheight{\seihou@textheight}{#1}%
  \setlength{\seihou@boxwidth}{\f@size pt}%
  \multiply\seihou@boxwidth by 123 %
  \divide\seihou@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustMaruX}{%
    \mbox{%
      \hbox to \seihou@boxwidth{%
        \hss
        \tikz[baseline=(char.base)]{%
          \node[draw, line width=0.1ex, minimum size=\dimexpr 0.95\dimexpr\f@size
            pt, inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center] (
            char) {\vphantom{\raisebox{0.124ex}{羅}}\raisebox{\
              VerticalAdjustMaruY}{\scalebox{.8}{\hspace*{\dimexpr 0.1\
                seihou@boxwidth}\makebox[.82\seihou@boxwidth][c]{\maybescale{\
                  seihou@textwidth}{.82\seihou@boxwidth}{\maybescaleVV{\
                    seihou@textheight}{\seihou@boxwidth}{#1}}}\hspace*{\dimexpr 0.1\
                    seihou@boxwidth}}}}}};
        }\hss}}}\ltjghostafterjachar

```

```

}
\makeatother

\makeatletter
\newlength{\kuroseihou@boxwidth}
\newlength{\kuroseihou@textwidth}
\newlength{\kuroseihou@textheight}
\DeclareRobustCommand{\kuroseihou}[1]{%
  \settowidth{\kuroseihou@textwidth}{\#1}%
  \settoheight{\kuroseihou@textheight}{\#1}%
  \setlength{\kuroseihou@boxwidth}{\f@size pt}%
  \multiply\kuroseihou@boxwidth by 123 %
  \divide\kuroseihou@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustMaruX}{%
    \mbox{%
      \hbox to \kuroseihou@boxwidth{%
        \hss
        \tikz[baseline=(char.base)]{%
          \node[draw, fill=black, line width=0.1ex, minimum size=\dimexpr 0.95\
            dimexpr\f@size pt, inner sep=-\dimexpr 0.125\dimexpr\f@size pt,
            align=center] (char) {\vphantom{\raisebox{0.124ex}{羅}}{\raisebox{\
              VerticalAdjustMaruY}{\scalebox{.8}{\hspace*{\dimexpr 0.1\
                kuroseihou@boxwidth}}\textcolor{white}{\makebox[.82\
                  kuroseihou@boxwidth][c]{\maybescale{\kuroseihou@textwidth}{.82\
                    kuroseihou@boxwidth}{\maybescaleVV{\kuroseihou@textheight}{\
                      kuroseihou@boxwidth}{\#1}}}\hspace*{\dimexpr 0.1\
                        kuroseihou@boxwidth}}}}}};
        }\hss}}}\ltjghostafterjachar
      }
    }
  }
\makeatother

\makeatletter
\newlength{\seimaru@boxwidth}
\newlength{\seimaru@textwidth}
\newlength{\seimaru@textheight}
\DeclareRobustCommand{\seimaru}[1]{%
  \settowidth{\seimaru@textwidth}{\#1}%
  \settoheight{\seimaru@textheight}{\#1}%
  \setlength{\seimaru@boxwidth}{\f@size pt}%
  \multiply\seimaru@boxwidth by 123 %

```

```

\divide\seimaru@boxwidth by 100 %
\ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustMaruX}{%
\mbox{%
\hbox to \seimaru@boxwidth{%
\hss
\tikz[baseline=(char.base)]{%
\node[draw, rounded corners=0.435ex, line width=0.1ex, minimum size=.8\
seimaru@boxwidth, inner sep=-\dimexpr 0.125\dimexpr\f@size pt,
align=center] (char) {\vphantom{\raisebox{0.124ex}{羅}}{\raisebox{\
VerticalAdjustMaruY}{\scalebox{.8}{\hspace*{\dimexpr 0.1\
seimaru@boxwidth}\makebox[.8\seimaru@boxwidth][c]{\maybescale{\
seimaru@textwidth}{.82\seimaru@boxwidth}{\maybescaleVV{\
seimaru@textheight}{\seimaru@boxwidth}{#1}}}\hspace*{\dimexpr 0.1\
seimaru@boxwidth}}}}};
}\hss}}}\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\kuroseimaru@boxwidth}
\newlength{\kuroseimaru@textwidth}
\newlength{\kuroseimaru@textheight}
\DeclareRobustCommand{\kuroseimaru}[1]{%
\settowidth{\kuroseimaru@textwidth}{#1}%
\settoheight{\kuroseimaru@textheight}{#1}%
\setlength{\kuroseimaru@boxwidth}{\f@size pt}%
\multiply\kuroseimaru@boxwidth by 123 %
\divide\kuroseimaru@boxwidth by 100 %
\ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustMaruX}{%
\mbox{%
\hbox to \kuroseimaru@boxwidth{%
\hss
\tikz[baseline=(char.base)]{%
\node[draw, fill=black, rounded corners=0.435ex, line width=0.1ex,
minimum size=.8\kuroseimaru@boxwidth, inner sep=-\dimexpr 0.125\
dimexpr\f@size pt, align=center] (char) {\vphantom{\raisebox{0.124
ex}{羅}}{\raisebox{\VerticalAdjustMaruY}{\scalebox{.8}{\hspace*{\
dimexpr 0.1\kuroseimaru@boxwidth}\textcolor{white}{\makebox[.8\
kuroseimaru@boxwidth][c]{\maybescale{\kuroseimaru@textwidth}{.82\
kuroseimaru@boxwidth}{\maybescaleVV{\kuroseimaru@textheight}{\

```

```

        kuroseimaru@boxwidth}{#1}}}\hspace*{\dimexpr 0.1\
        kuroseimaru@boxwidth}}});
    }\hss}}\ltjghostafterjachar
}
\makeatother

\newcommand{\VerticalAdjustMaruZ}{%
    \ifnum\ltjgetparameter{direction}=3
        .1ex % 縦組
    \else
        .42ex % 横組
    \fi
}

\makeatletter
\newlength{\hishi@boxwidth}
\newlength{\hishi@textwidth}
\newlength{\hishi@textheight}
\DeclareRobustCommand{\hishi}[1]{%
    \settowidth{\hishi@textwidth}{#1}%
    \settoheight{\hishi@textheight}{#1}%
    \setlength{\hishi@boxwidth}{\f@size pt}%
    \multiply\hishi@boxwidth by 123 %
    \divide\hishi@boxwidth by 100 %
    \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustMaruX}{%
    \mbox{%
    \hbox to 1.05\hishi@boxwidth{%
    \hss
    \tikz[baseline=(char.base)]{%
        \node[draw, shape=diamond, line width=0.1ex, minimum size=\dimexpr
            0.95\dimexpr\f@size pt, inner sep=-\dimexpr .13\hishi@boxwidth,
            align=center] (char) {\vphantom{\raisebox{0.124ex}{羅}}{\raisebox{\
            VerticalAdjustMaruZ}{\scalebox{.7}{\hspace*{\dimexpr 0.1\
            hishi@boxwidth}}\makebox[.7\hishi@boxwidth][c]{\maybescale{\
            hishi@textwidth}{.7\hishi@boxwidth}{\maybescaleVVV{\
            hishi@textheight}{\hishi@boxwidth}{#1}}}\hspace*{\dimexpr 0.1\
            hishi@boxwidth}}}}};
    }\hss}}}\ltjghostafterjachar
}
\makeatother

```



```

\makeatletter
\newlength{\kurohishi@boxwidth}
\newlength{\kurohishi@textwidth}
\newlength{\kurohishi@textheight}
\DeclareRobustCommand{\kurohishi}[1]{%
  \settowidth{\kurohishi@textwidth}{\#1}%
  \settoheight{\kurohishi@textheight}{\#1}%
  \setlength{\kurohishi@boxwidth}{\f@size pt}%
  \multiply\kurohishi@boxwidth by 123 %
  \divide\kurohishi@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustMaruX}{%
    \mbox{%
      \hbox to 1.05\kurohishi@boxwidth{%
        \hss
        \tikz[baseline=(char.base)]{%
          \node[draw, shape=diamond, fill=black, line width=0.1ex, minimum size=\
            dimexpr 0.95\dimexpr\f@size pt, inner sep=-\dimexpr .13\
            kurohishi@boxwidth, align=center] (char) {\vphantom{\raisebox{0.124\
            ex}{\#1}}{\raisebox{\VerticalAdjustMaruZ}{\scalebox{.7}{\hspace*{\
            dimexpr 0.1\kurohishi@boxwidth}\textcolor{white}{\makebox[.7\
            kurohishi@boxwidth][c]{\maybescale{\kurohishi@textwidth}{.7\
            kurohishi@boxwidth}{\maybescaleVVV{\kurohishi@textheight}{\
            kurohishi@boxwidth}{\#1}}}\hspace*{\dimexpr 0.1\kurohishi@boxwidth\
            }}}}}};
        }\hss}}}\ltjghostafterjachar
      }
    }
  }
\makeatother

\makeatletter
\newlength{\maruhishi@boxwidth}
\newlength{\maruhishi@textwidth}
\newlength{\maruhishi@textheight}
\DeclareRobustCommand{\maruhishi}[1]{%
  \settowidth{\maruhishi@textwidth}{\#1}%
  \settoheight{\maruhishi@textheight}{\#1}%
  \setlength{\maruhishi@boxwidth}{\f@size pt}%
  \multiply\maruhishi@boxwidth by 123 %
  \divide\maruhishi@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustMaruX}{%

```

```

\mbox{%
\hbox to 1.05\maruhishi@boxwidth{%
\hss
\tikz[baseline=(char.base)]{%
\node[draw, rounded corners=0.3ex, shape=diamond, line width=0.1ex,
minimum size=\dimexpr 0.95\dimexpr\f@size pt, inner sep=-\dimexpr
.13\maruhishi@boxwidth, align=center] (char) {\vphantom{\raisebox
{0.124ex}{羅}}{\raisebox{\VerticalAdjustMaruZ}{\scalebox{.7}{\
hspace*\dimexpr 0.1\maruhishi@boxwidth}\makebox[.7\
maruhishi@boxwidth][c]{\maybescale{\maruhishi@textwidth}{.7\
maruhishi@boxwidth}{\maybescaleVVV{\maruhishi@textheight}{\
maruhishi@boxwidth}{#1}}}\hspace*\dimexpr 0.1\maruhishi@boxwidth
}}}}};
}\hss}}}\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\kuomaruhishi@boxwidth}
\newlength{\kuomaruhishi@textwidth}
\newlength{\kuomaruhishi@textheight}
\DeclareRobustCommand{\kuomaruhishi}[1]{%
\settowidth{\kuomaruhishi@textwidth}{#1}%
\settoheight{\kuomaruhishi@textheight}{#1}%
\setlength{\kuomaruhishi@boxwidth}{\f@size pt}%
\multiply\kuomaruhishi@boxwidth by 123 %
\divide\kuomaruhishi@boxwidth by 100 %
\ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustMaruX}{%
\mbox{%
\hbox to 1.05\kuomaruhishi@boxwidth{%
\hss
\tikz[baseline=(char.base)]{%
\node[draw, fill=black, rounded corners=0.3ex, shape=diamond, line
width=0.1ex, minimum size=\dimexpr 0.95\dimexpr\f@size pt, inner
sep=-\dimexpr .13\kuomaruhishi@boxwidth, align=center] (char) {\
\vphantom{\raisebox{0.124ex}{羅}}{\raisebox{\VerticalAdjustMaruZ}{\
scalebox{.7}{\hspace*\dimexpr 0.1\kuomaruhishi@boxwidth}\
textcolor{white}{\makebox[.7\kuomaruhishi@boxwidth][c]{\maybescale
{\kuomaruhishi@textwidth}{.7\kuomaruhishi@boxwidth}{\
maybescaleVVV{\kuomaruhishi@textheight}{\kuomaruhishi@boxwidth

```

```

        }{#1}}}\hspace*{\dimexpr 0.1\kuromaruhishi@boxwidth}}}}};
    }\hss}}}\ltjghostafterjachar
}
\makeatother

\newcommand{\VerticalAdjustKakkoX}{%
  \ifnum\ltjgetparameter{direction}=3
    -0ex % 縦組
  \else
    -0ex % 横組
  \fi
}

\makeatletter
\newlength{\kakko@boxwidth}
\newlength{\kakko@textwidth}
\newlength{\kakko@textheight}
\DeclareRobustCommand{\kakko}[1]{%
  \settowidth{\kakko@textwidth}{#1}%
  \settoheight{\kakko@textheight}{#1}%
  \setlength{\kakko@boxwidth}{\f@size pt}%
  \multiply\kakko@boxwidth by 123 %
  \divide\kakko@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
    \mbox{%
      \hbox to \kakko@boxwidth{%
        \hss
        \tikz[baseline=(char.base)]{%
          \node[inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center,
            minimum size=.8\kakko@boxwidth] (char) {\raisebox{\VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\kakko@boxwidth}}\makebox[.5\kakko@boxwidth][c]{\scalebox{.8}[1]{\maybescale{\kakko@textwidth}{.5\kakko@boxwidth}{\maybescaleVVVV{\kakko@textheight}{\kakko@boxwidth}{#1}}\scalebox{.8}[1]{}}}\hspace*{\dimexpr 0.02\kakko@boxwidth}}}}};
        }\hss}}}\ltjghostafterjachar
      }
    }
  }
\makeatother

\makeatletter

```

```

\newlength{\sumikakko@boxwidth}
\newlength{\sumikakko@textwidth}
\newlength{\sumikakko@textheight}
\DeclareRobustCommand{\sumikakko}[1]{%
  \settowidth{\sumikakko@textwidth}{\#1}%
  \settoheight{\sumikakko@textheight}{\#1}%
  \setlength{\sumikakko@boxwidth}{\f@size pt}%
  \multiply\sumikakko@boxwidth by 123 %
  \divide\sumikakko@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
    \mbox{%
      \hbox to \sumikakko@boxwidth{%
        \hss
        \tikz[baseline=(char.base)]{%
          \node[inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center,
            minimum size=.8\sumikakko@boxwidth] (char) {\raisebox{\
              VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
                sumikakko@boxwidth}\makebox[.5\sumikakko@boxwidth][c]{\scalebox
                  {.6}[1]{【}\maybescale{\sumikakko@textwidth}{.5\sumikakko@boxwidth
                    }{\maybescaleVVVV{\sumikakko@textheight}{\sumikakko@boxwidth}{\#1}}\
                      scalebox{.6}[1]{【} }}\hspace*{\dimexpr 0.02\sumikakko@boxwidth}}}}};
          \hss}}}\ltjghostafterjachar
        }
      }
    }
  }
\makeatother

\makeatletter
\newlength{\kakukakko@boxwidth}
\newlength{\kakukakko@textwidth}
\newlength{\kakukakko@textheight}
\DeclareRobustCommand{\kakukakko}[1]{%
  \settowidth{\kakukakko@textwidth}{\#1}%
  \settoheight{\kakukakko@textheight}{\#1}%
  \setlength{\kakukakko@boxwidth}{\f@size pt}%
  \multiply\kakukakko@boxwidth by 123 %
  \divide\kakukakko@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
    \mbox{%
      \hbox to \kakukakko@boxwidth{%
        \hss
        \tikz[baseline=(char.base)]{%

```

```

\node[inner sep=-\dimexpr 0.125\dimexpr\fontsize pt, align=center,
      minimum size=.8\kakukakko@boxwidth] (char) {\raisebox{\
      VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
      kakukakko@boxwidth}\makebox[.5\kakukakko@boxwidth][c]{\scalebox
      {.6}[1]{\hspace*{\dimexpr 0.02\kakukakko@textwidth}{.5\kakukakko@boxwidth
      }\maybescale{\kakukakko@textwidth}{\kakukakko@boxwidth}{#1}}\
      \maybescaleVVVV{\kakukakko@textheight}{\kakukakko@boxwidth}{#1}}\
      scalebox{.6}[1]{\hspace*{\dimexpr 0.02\kakukakko@boxwidth}}}}};
}\hss}}\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\kikakko@boxwidth}
\newlength{\kikakko@textwidth}
\newlength{\kikakko@textheight}
\DeclareRobustCommand{\kikakko}[1]{%
  \settowidth{\kikakko@textwidth}{#1}%
  \settoheight{\kikakko@textheight}{#1}%
  \setlength{\kikakko@boxwidth}{\fontsize pt}%
  \multiply\kikakko@boxwidth by 123 %
  \divide\kikakko@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{\raisebox{\VerticalAdjustKakkoX}{\
  \mbox{\
  \hbox to \kikakko@boxwidth{\
  \hss
  \tikz[baseline=(char.base)]{\
    \node[inner sep=-\dimexpr 0.125\dimexpr\fontsize pt, align=center,
          minimum size=.8\kikakko@boxwidth] (char) {\raisebox{\
          VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
          kikakko@boxwidth}\makebox[.5\kikakko@boxwidth][c]{\scalebox{.6}[1]{\
          \hspace*{\dimexpr 0.02\kikakko@textwidth}{.5\kikakko@boxwidth}{\
          \maybescale{\kikakko@textwidth}{\kikakko@boxwidth}{#1}}\
          \maybescaleVVVV{\kikakko@textheight}{\kikakko@boxwidth}{#1}}\
          scalebox{.6}[1]{\hspace*{\dimexpr 0.02\kikakko@boxwidth}}}}};
          }\hss}}\ltjghostafterjachar
          }
          \makeatother

\makeatletter
\newlength{\ykakko@boxwidth}
\newlength{\ykakko@textwidth}

```

```

\newlength{\yakko@textheight}
\DeclareRobustCommand{\yakko}[1]{%
  \settowidth{\yakko@textwidth}{#1}%
  \settoheight{\yakko@textheight}{#1}%
  \setlength{\yakko@boxwidth}{\f@size pt}%
  \multiply\yakko@boxwidth by 123 %
  \divide\yakko@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
    \mbox{%
      \hbox to \yakko@boxwidth{%
        \hss
        \tikz[baseline=(char.base)]{%
          \node[inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center,
            minimum size=.8\yakko@boxwidth] (char) {\raisebox{\
              VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
                yakko@boxwidth}\makebox[.5\yakko@boxwidth][c]{\scalebox{.6}[1]{\
                  <\maybescale{\yakko@textwidth}{.5\yakko@boxwidth}{\
                    maybescaleVVVV{\yakko@textheight}{\yakko@boxwidth}{#1}}\scalebox
                      {.6}[1]{> }}}\hspace*{\dimexpr 0.02\yakko@boxwidth}}}}};
          } \hss}}}\ltjghostafterjachar
        }
      }
    }
  }
\makeatother

\makeatletter
\newlength{\nykakko@boxwidth}
\newlength{\nykakko@textwidth}
\newlength{\nykakko@textheight}
\DeclareRobustCommand{\nykakko}[1]{%
  \settowidth{\nykakko@textwidth}{#1}%
  \settoheight{\nykakko@textheight}{#1}%
  \setlength{\nykakko@boxwidth}{\f@size pt}%
  \multiply\nykakko@boxwidth by 123 %
  \divide\nykakko@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
    \mbox{%
      \hbox to \nykakko@boxwidth{%
        \hss
        \tikz[baseline=(char.base)]{%
          \node[inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center,
            minimum size=.8\nykakko@boxwidth] (char) {\raisebox{\

```

```

VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
nykakko@boxwidth}\makebox[.5\nykakko@boxwidth][c]{\scalebox{.6}[1]{
  \maybescale{\nykakko@textwidth}{.5\nykakko@boxwidth}{\
maybescaleVVVV{\nykakko@textheight}{\nykakko@boxwidth}{#1}}\
scalebox{.6}[1]{\hspace*{\dimexpr 0.02\nykakko@boxwidth}}}}};
}\hss}}}\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\namikakko@boxwidth}
\newlength{\namikakko@textwidth}
\newlength{\namikakko@textheight}
\DeclareRobustCommand{\namikakko}[1]{%
  \settowidth{\namikakko@textwidth}{#1}%
  \settoheight{\namikakko@textheight}{#1}%
  \setlength{\namikakko@boxwidth}{\f@size pt}%
  \multiply\namikakko@boxwidth by 123 %
  \divide\namikakko@boxwidth by 100 %
  \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
\mbox{%
\hbox to \namikakko@boxwidth{%
\hss
\tikz[baseline=(char.base)]{%
  \node[inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center,
    minimum size=.8\namikakko@boxwidth] (char) {\raisebox{\
VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
namikakko@boxwidth}\makebox[.5\namikakko@boxwidth][c]{\scalebox
{.6}[1]{\hspace*{\dimexpr 0.02\namikakko@boxwidth}}}}};
}\hss}}}\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\kagikakko@boxwidth}
\newlength{\kagikakko@textwidth}
\newlength{\kagikakko@textheight}
\DeclareRobustCommand{\kagikakko}[1]{%

```

```

\settowidth{\kagikakko@textwidth}{\#1}%
\settoheight{\kagikakko@textheight}{\#1}%
\setlength{\kagikakko@boxwidth}{\f@size pt}%
\multiply\kagikakko@boxwidth by 123 %
\divide\kagikakko@boxwidth by 100 %
\ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
\mbox{%
\hbox to \kagikakko@boxwidth{%
\hss
\tikz[baseline=(char.base)]{%
\node[inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center,
minimum size=.8\kagikakko@boxwidth] (char) {\raisebox{\
VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
kagikakko@boxwidth}}\makebox[.5\kagikakko@boxwidth][c]{\scalebox
{.6}[1]{「}\maybescale{\kagikakko@textwidth}{.5\kagikakko@boxwidth
}\maybescaleVVVV{\kagikakko@textheight}{\kagikakko@boxwidth}{\#1}}\
scalebox{.6}[1]{」}\hspace*{\dimexpr 0.02\kagikakko@boxwidth}}}}};
}\hss}}}\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\nkagikakko@boxwidth}
\newlength{\nkagikakko@textwidth}
\newlength{\nkagikakko@textheight}
\DeclareRobustCommand{\nkagikakko}[1]{%
\settowidth{\nkagikakko@textwidth}{\#1}%
\settoheight{\nkagikakko@textheight}{\#1}%
\setlength{\nkagikakko@boxwidth}{\f@size pt}%
\multiply\nkagikakko@boxwidth by 123 %
\divide\nkagikakko@boxwidth by 100 %
\ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
\mbox{%
\hbox to \nkagikakko@boxwidth{%
\hss
\tikz[baseline=(char.base)]{%
\node[inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center,
minimum size=.8\nkagikakko@boxwidth] (char) {\raisebox{\
VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
nkagikakko@boxwidth}}\makebox[.5\nkagikakko@boxwidth][c]{\scalebox

```



```

        {.6}[1]{『}\maybescale{\nkagikakko@textwidth}{.5\
nkagikakko@boxwidth}\maybescaleVVVV{\nkagikakko@textheight}{\
nkagikakko@boxwidth}{#1}}\scalebox{.6}[1]{』}}\hspace*{\dimexpr
0.02\nkagikakko@boxwidth}}}}};
    }\hss}}}\ltjghostafterjachar
}
\makeatother

\makeatletter
\newlength{\period@boxwidth}
\newlength{\period@textwidth}
\newlength{\period@textheight}
\DeclareRobustCommand{\period}[1]{%
    \settowidth{\period@textwidth}{#1}%
    \setlength{\period@boxwidth}{\f@size pt}%
    \settoheight{\period@textheight}{#1}%
    \multiply\period@boxwidth by 123 %
    \divide\period@boxwidth by 100 %
    \ltjghostbeforejachar\vphantom{羅}\raisebox{\VerticalAdjustKakkoX}{%
    \mbox{%
    \hbox to \period@boxwidth{%
    \hss
    \tikz[baseline=(char.base)]{%
        \node[inner sep=-\dimexpr 0.125\dimexpr\f@size pt, align=center,
        minimum size=.8\period@boxwidth] (char) {\raisebox{\
VerticalAdjustKakkoX}{\scalebox{1}{\hspace*{\dimexpr 0.02\
period@boxwidth}\makebox[.5\period@boxwidth][c]{\maybescale{\
period@textwidth}{.5\period@boxwidth}\maybescaleVVVV{\
period@textheight}{\period@boxwidth}{#1}}\scalebox{1}[1]{.}}\hspace
*\dimexpr 0.02\period@boxwidth}}}}};
    }\hss}}}\ltjghostafterjachar
}
\makeatother

\endinput

```