`KKsymbols` Package Documentation

Kosei Kawaguchi a.k.a. KKTeX
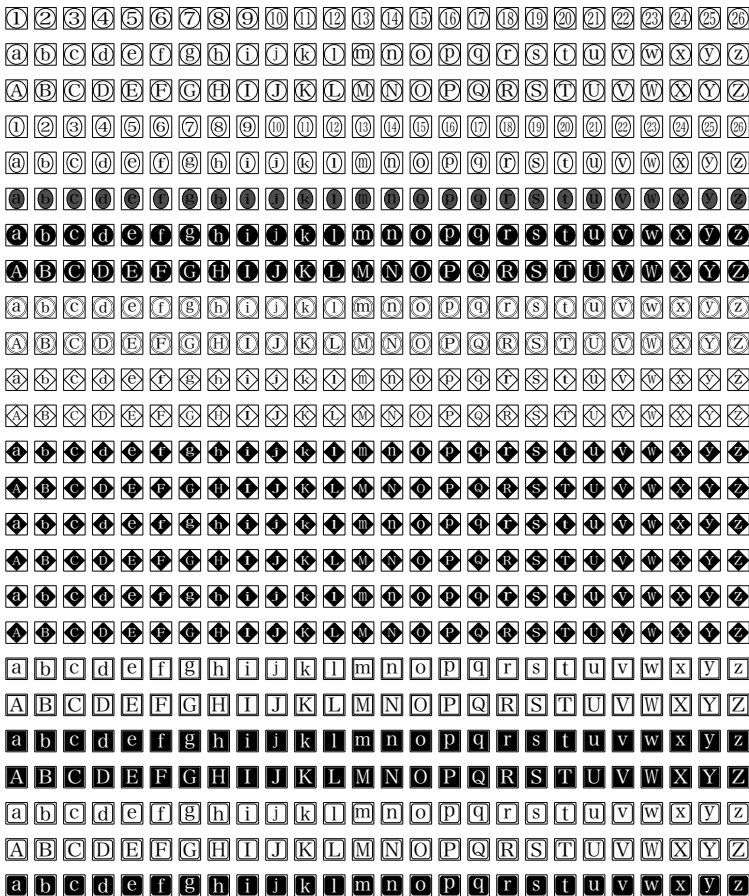
Version 2.0.0a (2025/12/31)

目次

1 Outline

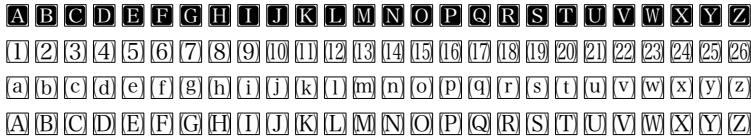Japanese: このパッケージは、既存の otf フォントに頼ることなく、「任意のフォント、任意の引数で」丸数字などの特殊記号を再現する目的で作成されています。

luatexja-otf における\ajMaru などは、その設計上いたしかなないデメリットとして、早見表がないと使い物にならないというものがありました。しかし、本パッケージでは、一から特殊文字を設計し直すというという取り組みを行なっているため、そのようなデメリットが解消されています。

English: This package is designed to reproduce special characters, such as circled numbers, using arbitrary fonts and parameters without relying on existing otf font sets.

A known disadvantage of commands like \ajMaru in luatexja-otf is that they are practically unusable without a reference chart. In contrast, this package addresses this issue by re-engineering special characters from the ground up, eliminating the need for complex lookup tables.

あ あ ㋐ あ あ

①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖

ⓐⓑⓒⓓⓔⓕⓖⓗⓘⓙⓚⓛⓜⓝⓞⓟⓠⓡⓢⓣⓤⓥⓦⓧⓨⓩ

ⒶⒷⒸⒹⒺⒻⒼⒽⒾⒿⓀⓁⓂⓃⓄⓅⓆⓇⓈⓉⓊⓋⓌⓍⓎⓏ

①②③④⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕㉖

ⓐⓑⓒⓓⓔⓕⓖⓗⓘⓙⓚⓛⓜⓝⓞⓟⓠⓡⓢⓣⓤⓥⓦⓧⓨⓩ

🅐🅑🅒🅓🅔🅕🅖🅗🅘🅙🅚🅛🅜🅝🅞🅟🅠🅡🅢🅣🅤🅥🅦🅧🅨🅩

🅐🅑🅒🅓🅔🅕🅖🅗🅘🅙🅚🅛🅜🅝🅞🅟🅠🅡🅢🅣🅤🅥🅦🅧🅨🅩

🅐🅑🅒🅓🅔🅕🅖🅗🅘🅙🅚🅛🅜🅝🅞🅟🅠🅡🅢🅣🅤🅥🅦🅧🅨🅩

ⓐⓑⓒⓓⓔⓕⓖⓗⓘⓙⓚⓛⓜⓝⓞⓟⓠⓡⓢⓣⓤⓥⓦⓧⓨⓩ

ⒶⒷⒸⒹⒺⒻⒼⒽⒾⒿⓀⓁⓂⓃⓄⓅⓆⓇⓈⓉⓊⓋⓌⓍⓎⓏ

◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈

◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈

◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈

◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈

◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈

◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈

◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈◈

🄰🄱🄲🄳🄴🄵🄶🄷🄸🄹🄺🄻🄼🄽🄾🄿🅀🅁🅂🅃🅄🅅🅆🅇🅈🅉

🄰🄱🄲🄳🄴🄵🄶🄷🄸🄹🄺🄻🄼🄽🄾🄿🅀🅁🅂🅃🅄🅅🅆🅇🅈🅉

🅰🅱🅲🅳🅴🅵🅶🅷🅸🅹🅺🅻🅼🅽🅾🅿🆀🆁🆂🆃🆄🆅🆆🆇🆈🆉

🅰🅱🅲🅳🅴🅵🅶🅷🅸🅹🅺🅻🅼🅽🅾🅿🆀🆁🆂🆃🆄🆅🆆🆇🆈🆉

🄰🄱🄲🄳🄴🄵🄶🄷🄸🄹🄺🄻🄼🄽🄾🄿🅀🅁🅂🅃🅄🅅🅆🅇🅈🅉

🄰🄱🄲🄳🄴🄵🄶🄷🄸🄹🄺🄻🄼🄽🄾🄿🅀🅁🅂🅃🅄🅅🅆🅇🅈🅉

🅰🅱🅲🅳🅴🅵🅶🅷🅸🅹🅺🅻🅼🅽🅾🅿🆀🆁🆂🆃🆄🆅🆆🆇🆈🆉

Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ Ⓗ Ⓘ Ⓙ Ⓚ Ⓛ Ⓜ Ⓝ Ⓞ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ Ⓤ Ⓥ Ⓦ Ⓧ Ⓨ Ⓩ
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖
ⓐ ⓑ ⓒ ⓓ ⓔ ⓕ ⓖ ⓗ ⓘ ⓙ ⓚ ⓛ ⓜ ⓝ ⓞ ⓟ ⓠ ⓡ ⓢ ⓣ ⓤ ⓥ ⓦ ⓧ ⓨ ⓩ
Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ Ⓗ Ⓘ Ⓙ Ⓚ Ⓛ Ⓜ Ⓝ Ⓞ Ⓟ Ⓠ Ⓡ Ⓢ Ⓣ Ⓤ Ⓥ Ⓦ Ⓧ Ⓨ Ⓩ

2   Acknowledgements / Credit

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

I recommend you to refer to his article when you develop new-type symbols on LaTeX.

https://doratex.hatenablog.jp/entry/20211205/1638697391

3   Installation

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

Dependencies:

- `LuaLaTeX-ja`
- `tikz`
- `clac`

Load the package:

`\usepackage{KKsymbols}`

4   Caution

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

5   Commands

5.1   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.

In most cases, `\maru{argument}` will meet your demands. However, only when you take lowercase alphabet in these commands, you must use star-command just like `\maru*{m}`[1].

---

[1]   `\jegg` is an exception of this rule. When you use `\jegg`, you don't have to put the star option no matter the argument is lowercase or not. If you do it, the background color of the `\jegg` changes into gray. Only in this case, the effect of

```
1   % Normal Characters
2   \maru{A}\maru{あ}\maru{QED.}
3
4   % Lowercase Alphabetic Characters
5   \maru*{a}\maru*{j}\maru*{z}
```

Output

 Ⓐⓐ⓪

 ⓐⓙⓩ

They are used as follows.

表 1: maru series

argument	\maru	\kuromaru	\nmaru	\jegg	\jegg*
1	①	❶	①	①	❶
97	㊅	㊅	㊅	㊅	●
だ	㊣	㊣	㊣	㊣	●
ばばば	㊙	●	㊙	㊙	●
m	ⓜ	ⓜ	ⓜ	ⓜ	●
Qjg	㊙	●	㊙	㊙	●

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

 あいう⓪ぁいう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.

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:

 ㊙㊙㊙

 ㊙㊙㊙

---

the option is different.

5.2 Vertical mode

Naturally, these commands also work correctly in vertical writing environments. But only when they include math-mode (in vertical mode), sometimes they don't. Also when you want to typeset ⓐ, for instance, in vertical mode, you should use `\RotTate` command.

```
1  % In vertical mode
2  \RotTate[0]\kakko{あ}\kakko{い}\kakko{う}\par
3  \RotTate[90]\kakko{1}\kakko{1}\kakko{3}
```

Output

(1) (あ)
(2) (い)
(3) (う)

5.3 Rotation

This package provides `\RotTate` and `\RotYoko`.

In horizontal mode   The default value is `0`.
In vertical mode   The default value is `90`.

```
1  % In horizontal mode
2  \RotYoko[45]\kakko{あ}\kakko{い}\kakko{う}\par
3  \RotYoko[60]\kakko{1}\kakko{2}\kakko{3}
4
5  % In vertical mode
6  \RotTate[45]\kakko{あ}\kakko{い}\kakko{う}\par
7  \RotTate[60]\kakko{1}\kakko{2}\kakko{3}
```

Output

(あ)(い)(う)

(1)(2)(3)

(ノ) (あ)
(じ) (ん)
(3) (う)

6 The seihou series

The commands introduced below are used in exactly the same way as the maru series. In most cases, `\seihou{argument}` will meet your demands. However, only when you take lowercase alphabet in these commands, you must use star-command just like `\seihou*{m}`.

表2: seihou series

argument	\seihou	\kuroseihou	\seimaru	\kuroseimaru
1	1	1	1	1
97	97	97	97	97
だ	だ	だ	だ	だ
ばばば	ばばば	ばばば	ばばば	ばばば
m	m	m	m	m
Qjg	Qjg	Qjg	Qjg	Qjg

表3: hishi series

argument	\hishi	\kurohishi	\maruhishi	\kuromaruhishi
1	◇	◆	◆	◆
97	◇	◆	◆	◆
だ	◇	◆	◆	◆
ばばば	◇	◆	◆	◆
m	◇	◆	◆	◆
Qjg	◇	◆	◆	◆

Input   **Mind the star option!**

```
1   % Normal Characters
2   \seihou{A}\seihou{あ}\seihou{QED.}
3
4   % Lowercase Alphabetic Characters
5   \seihou*{a}\seihou*{j}\seihou*{z}
```

7 The kakko series

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

In most cases, `\kakko{argument}` will meet your demands. However, only when you take lowercase alphabet in these commands, you must use star-command just like `\kakko*{m}`.

表 4: kakko series ①

argument	\kakko	\sumikakko	\kakukakko	\kikakko	\ykakko
1	(1)	【1】	[1]	〔1〕	⟨1⟩
97	(97)	【97】	[97]	〔97〕	⟨97⟩
だ	(だ)	【だ】	[だ]	〔だ〕	⟨だ⟩
ばばば	(ばばば)	【ばばば】	[ばばば]	〔ばばば〕	⟨ばばば⟩
m	(m)	【m】	[m]	〔m〕	⟨m⟩
Qjg	(Qjg)	【Qjg】	[Qjg]	〔Qjg〕	⟨Qjg⟩

表 5: kakko series ②

argument	\nykakko	\namikakko	\kagikakko	\nkagikakko	\period	\ichimoji
1	〈1〉	{1}	「1」	『1』	1.	1
97	〈97〉	{97}	「97」	『97』	97.	97
だ	〈だ〉	{だ}	「だ」	『だ』	だ.	だ
ばばば	〈ばばば〉	{ばばば}	「ばばば」	『ばばば』	ばばば.	ばばば
m	〈m〉	{m}	「m」	『m』	m.	m
Qjg	〈Qjg〉	{Qjg}	「Qjg」	『Qjg』	Qjg.	Qjg

Input   Mind the star option!

```
1   % Normal Characters
2   \kakko{A}\kakko{あ}\kakko{QED.}
3
4   % Lowercase Alphabetic Characters
5   \kakko*{a}\kakko*{j}\kakko*{z}
```

8

8 License

Released under the MIT License.

9 Version History

- **v1.0.0 (2025/10/03)** — Initial public release.
- **v1.0.1–1.0.4** — Added \ichimoji; fixed various bugs.
- **v1.1.0 (2025/10/28)** — Unified all commands to zenkaku (full-width).
- **v1.1.1 (2025/11/10)** — Refined \ichimoji scaling logic.
- **v2.0.0 (2025/12/23)** — Overhauled scaling to match OTF character quality.
- **v2.0.0a (2025/12/31)** — Added explanations regarding several important notes.

10 Source Code

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{KKsymbols}[2025/12/31, Version 2.0.0a]
\RequirePackage{luatexja-adjust}
\RequirePackage{expl3}
\RequirePackage{calc}
\RequirePackage{tikz}
\usetikzlibrary{shapes}

\DeclareRobustCommand{\maru}{%
  \@ifstar{\maru@new@no}{\maru@new}%
}

\DeclareRobustCommand{\kuromaru}{%
  \@ifstar{\kuromaru@new@no}{\kuromaru@new}%
}

\DeclareRobustCommand{\nmaru}{%
  \@ifstar{\nmaru@new@no}{\nmaru@new}%
}

\DeclareRobustCommand{\jegg}{%
  \@ifstar{\jegg@new@black}{\jegg@new}%
}
```

```
\DeclareRobustCommand{\seihou}{%
  \@ifstar{\seihou@new@no}{\seihou@new}%
}

\DeclareRobustCommand{\kuroseihou}{%
  \@ifstar{\kuroseihou@new@no}{\kuroseihou@new}%
}

\DeclareRobustCommand{\seimaru}{%
  \@ifstar{\seimaru@new@no}{\seimaru@new}%
}

\DeclareRobustCommand{\kuroseimaru}{%
  \@ifstar{\kuroseimaru@new@no}{\kuroseimaru@new}%
}

\DeclareRobustCommand{\hishi}{%
  \@ifstar{\hishi@new@no}{\hishi@new}%
}

\DeclareRobustCommand{\kurohishi}{%
  \@ifstar{\kurohishi@new@no}{\kurohishi@new}%
}

\DeclareRobustCommand{\maruhishi}{%
  \@ifstar{\kurohishi@new@no}{\kurohishi@new}%
}

\DeclareRobustCommand{\kuromaruhishi}{%
  \@ifstar{\kuromaruhishi@new@no}{\kuromaruhishi@new}%
}

\DeclareRobustCommand{\ichimoji}{%
  \@ifstar{\ichimoji@new@no}{\ichimoji@new}%
}

\DeclareRobustCommand{\kakko@y@internal}[1]{\kakko@byouga@internal{ (}{) }{#1}}
\DeclareRobustCommand{\kakko@y@internal@no}[1]{\kakko@byouga@internal@no{ (}{) }{#1}}
\DeclareRobustCommand{\kakko@t@internal}[1]{\kakko@byouga@internal@tate{ (}{) }{#1}}
\DeclareRobustCommand{\kakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{ (}{) }{#1}}
\DeclareRobustCommand{\kakko}{%
  \@ifstar{\kakko@star}{\kakko@nostar}%
}
\newcommand{\kakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \kakko@t@internal@no{#1}%
  \else
    \kakko@y@internal@no{#1}%
  \fi
```

```
}
\newcommand{\kakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \kakko@t@internal{#1}%
  \else
    \kakko@y@internal{#1}%
  \fi
}


\DeclareRobustCommand{\sumikakko@y@internal}[1]{\kakko@byouga@internal{ 【}{】 }{#1}}
\DeclareRobustCommand{\sumikakko@y@internal@no}[1]{\kakko@byouga@internal@no{ 】}{【 }{#1}}
\DeclareRobustCommand{\sumikakko@t@internal}[1]{\kakko@byouga@internal@tate{ 【}{】 }{#1}}
\DeclareRobustCommand{\sumikakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{ 】}{【 }{#1}}
\DeclareRobustCommand{\sumikakko}{%
  \@ifstar{\sumikakko@star}{\sumikakko@nostar}%
}
\newcommand{\sumikakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \sumikakko@t@internal@no{#1}%
  \else
    \sumikakko@y@internal@no{#1}%
  \fi
}
\newcommand{\sumikakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \sumikakko@t@internal{#1}%
  \else
    \sumikakko@y@internal{#1}%
  \fi
}


\DeclareRobustCommand{\kakukakko@y@internal}[1]{\kakko@byouga@internal{ [}{] }{#1}}
\DeclareRobustCommand{\kakukakko@y@internal@no}[1]{\kakko@byouga@internal@no{ ]}{[ }{#1}}
\DeclareRobustCommand{\kakukakko@t@internal}[1]{\kakko@byouga@internal@tate{ [}{] }{#1}}
\DeclareRobustCommand{\kakukakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{ ]}{[ }{#1}}
\DeclareRobustCommand{\kakukakko}{%
  \@ifstar{\kakukakko@star}{\kakukakko@nostar}%
}
\newcommand{\kakukakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \kakukakko@t@internal@no{#1}%
  \else
    \kakukakko@y@internal@no{#1}%
  \fi
}
\newcommand{\kakukakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \kakukakko@t@internal{#1}%
  \else
    \kakukakko@y@internal{#1}%
```

```
  \fi
}

\DeclareRobustCommand{\kikakko@y@internal}[1]{\kakko@byouga@internal{ 〔}〈〕 }{#1}}
\DeclareRobustCommand{\kikakko@y@internal@no}[1]{\kakko@byouga@internal@no{ 〔}〈〕 }{#1}}
\DeclareRobustCommand{\kikakko@t@internal}[1]{\kakko@byouga@internal@tate{ 〔}〈〕 }{#1}}
\DeclareRobustCommand{\kikakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{ 〔}〈〕 }{#1}}
\DeclareRobustCommand{\kikakko}{%
  \@ifstar{\kikakko@star}{\kikakko@nostar}%
}
\newcommand{\kikakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \kikakko@t@internal@no{#1}%
  \else
    \kikakko@y@internal@no{#1}%
  \fi
}
\newcommand{\kikakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \kikakko@t@internal{#1}%
  \else
    \kikakko@y@internal{#1}%
  \fi
}

\DeclareRobustCommand{\ykakko@y@internal}[1]{\kakko@byouga@internal{ 〈}〈〉 }{#1}}
\DeclareRobustCommand{\ykakko@y@internal@no}[1]{\kakko@byouga@internal@no{ 〈}〈〉 }{#1}}
\DeclareRobustCommand{\ykakko@t@internal}[1]{\kakko@byouga@internal@tate{ 〈}〈〉 }{#1}}
\DeclareRobustCommand{\ykakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{ 〈}〈〉 }{#1}}
\DeclareRobustCommand{\ykakko}{%
  \@ifstar{\ykakko@star}{\ykakko@nostar}%
}
\newcommand{\ykakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \ykakko@t@internal@no{#1}%
  \else
    \ykakko@y@internal@no{#1}%
  \fi
}
\newcommand{\ykakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \ykakko@t@internal{#1}%
  \else
    \ykakko@y@internal{#1}%
  \fi
}

\DeclareRobustCommand{\nykakko@y@internal}[1]{\kakko@byouga@internal{ 《}《》 }{#1}}
\DeclareRobustCommand{\nykakko@y@internal@no}[1]{\kakko@byouga@internal@no{ 《}《》 }{#1}}
\DeclareRobustCommand{\nykakko@t@internal}[1]{\kakko@byouga@internal@tate{ 《}《》 }{#1}}
```

```
\DeclareRobustCommand{\nykakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{ 《}{》 }{#1}}
\DeclareRobustCommand{\nykakko}{%
  \@ifstar{\nykakko@star}{\nykakko@nostar}%
}
\newcommand{\nykakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \nykakko@t@internal@no{#1}%
  \else
    \nykakko@y@internal@no{#1}%
  \fi
}
\newcommand{\nykakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \nykakko@t@internal{#1}%
  \else
    \nykakko@y@internal{#1}%
  \fi
}


\DeclareRobustCommand{\namikakko@y@internal}[1]{\kakko@byouga@internal{ {}{} }{#1}}
\DeclareRobustCommand{\namikakko@y@internal@no}[1]{\kakko@byouga@internal@no{ {}{} }{#1}}
\DeclareRobustCommand{\namikakko@t@internal}[1]{\kakko@byouga@internal@tate{ {}{} }{#1}}
\DeclareRobustCommand{\namikakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{ {}{} }{#1}}
\DeclareRobustCommand{\namikakko}{%
  \@ifstar{\namikakko@star}{\namikakko@nostar}%
}
\newcommand{\namikakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \namikakko@t@internal@no{#1}%
  \else
    \namikakko@y@internal@no{#1}%
  \fi
}
\newcommand{\namikakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \namikakko@t@internal{#1}%
  \else
    \namikakko@y@internal{#1}%
  \fi
}


\DeclareRobustCommand{\kagikakko@y@internal}[1]{\kakko@byouga@internal{ 「}{」 }{#1}}
\DeclareRobustCommand{\kagikakko@y@internal@no}[1]{\kakko@byouga@internal@no{ 「}{」 }{#1}}
\DeclareRobustCommand{\kagikakko@t@internal}[1]{\kakko@byouga@internal@tate 「}{」 }{#1}}
\DeclareRobustCommand{\kagikakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{ 「}{」 }{#1}}
\DeclareRobustCommand{\kagikakko}{%
  \@ifstar{\kagikakko@star}{\kagikakko@nostar}%
}
\newcommand{\kagikakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
```

```
    \kagikakko@t@internal@no{#1}%
  \else
    \kagikakko@y@internal@no{#1}%
  \fi
}
\newcommand{\kagikakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \kagikakko@t@internal{#1}%
  \else
    \kagikakko@y@internal{#1}%
  \fi
}


\DeclareRobustCommand{\nkagikakko@y@internal}[1]{\kakko@byouga@internal{『}{』}{#1}}
\DeclareRobustCommand{\nkagikakko@y@internal@no}[1]{\kakko@byouga@internal@no{『}{』}{#1}}
\DeclareRobustCommand{\nkagikakko@t@internal}[1]{\kakko@byouga@internal@tate{『}{』}{#1}}
\DeclareRobustCommand{\nkagikakko@t@internal@no}[1]{\kakko@byouga@internal@tate@no{『}{』
      }{#1}}
\DeclareRobustCommand{\nkagikakko}{%
  \@ifstar{\nkagikakko@star}{\nkagikakko@nostar}%
}
\newcommand{\nkagikakko@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \nkagikakko@t@internal@no{#1}%
  \else
    \nkagikakko@y@internal@no{#1}%
  \fi
}
\newcommand{\nkagikakko@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \nkagikakko@t@internal{#1}%
  \else
    \nkagikakko@y@internal{#1}%
  \fi
}


\DeclareRobustCommand{\period@y@internal}[1]{\kakko@byouga@internal{\relax}{.}{#1}}
\DeclareRobustCommand{\period@y@internal@no}[1]{\kakko@byouga@internal@no{\relax}{.}{#1}}
\DeclareRobustCommand{\period@t@internal}[1]{\kakko@byouga@internal@tate{\relax}{.}{#1}}
\DeclareRobustCommand{\period@t@internal@no}[1]{\kakko@byouga@internal@tate@no{\relax}{.}{#1}}
\DeclareRobustCommand{\period}{%
  \@ifstar{\period@star}{\period@nostar}%
}
\newcommand{\period@star}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \period@t@internal@no{#1}%
  \else
    \period@y@internal@no{#1}%
  \fi
```

```
}
\newcommand{\period@nostar}[1]{%
  \ifnum\ltjgetparameter{direction}=3\relax
    \period@t@internal{#1}%
  \else
    \period@y@internal{#1}%
  \fi
}


% 全体で使用
\NewDocumentCommand{\shukushou@adj@new}{ m m m }{%
  \ifdim #1 < #2%
    \resizebox*{\width}{#2}{#3}%
  \else%
    \resizebox*{#2}{#2}{#3}%
  \fi%
}
\NewDocumentCommand{\shukushou@adj@new@no}{ m m m }{%
  \ifdim #1 < #2%
    #3%
  \else%
    \resizebox*{!}{#2}{#3}%
  \fi%
}
\NewDocumentCommand{\RotYoko}{O{0}}{%
  \def\KKsymbolsRot@val@y{#1}%
}
\NewDocumentCommand{\RotTate}{O{90}}{%
  \def\KKsymbolsRot@val@t{#1}%
}
\def\KKsymbolsRot@val@t{90}
\def\KKsymbolsRot@val@y{0}
\NewDocumentCommand{\rot@or@not@kksym}{}{%
  \ifnum\ltjgetparameter{direction}=3
    \def\rot@kksym@tateyoko{\KKsymbolsRot@val@t}%
  \else
    \def\rot@kksym@tateyoko{\KKsymbolsRot@val@y}%
  \fi
}
%%%


% \maru
\NewDocumentCommand{\vertical@adj@maru@new}{}{%
  \ifnum\ltjgetparameter{direction}=3
    -.5\zw%
  \else
    -.12\zw%
  \fi
```

```
}
\newlength{\maru@boxwidth@new}
\newlength{\maru@boxwidth@inner}
\newlength{\maru@var@yokohaba}
\newlength{\maru@var@yokohaba@cal}
\newlength{\maru@var@tate}
\newlength{\maru@var@fuka}
\newlength{\maru@var@zenkou}

\NewDocumentCommand{\shukushou@adj@new@no@maru}{ m m m m }{%
  \ifdim #1 < #2%
    \ifdim #3 > #2%
      \resizebox*{#3}{!}{#4}%
    \else%
      \scalebox{.9}{#4}%
    \fi%
  \else%
    \resizebox*{!}{#2}{#4}%
  \fi%
}

\DeclareRobustCommand{\maru@new}[1]{%
  \rot@or@not@kksym%
  \setlength{\maru@boxwidth@new}{\zw}%
  \settowidth{\maru@var@yokohaba}{#1}%
  \pgfmathsetlength{\maru@boxwidth@inner}{0.87 * \maru@boxwidth@new / sqrt(2)}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \maru@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \maru@boxwidth@new{%
  \vss%
  \hbox to \maru@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        shape=circle,
        line width=.04\maru@boxwidth@new,
        minimum size=.9\maru@boxwidth@new,
        draw,
        inner sep=.02\maru@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \maru@boxwidth@inner{
        \vss%
        \hbox to \maru@boxwidth@inner{%
        \hss%
          \shukushou@adj@new{\maru@var@yokohaba}{\maru@boxwidth@inner}{#1}%
        \hss%
        }%
```

```
      \vss%
    }%
    };
  }%
   \hss%
}%
\vss%
}%
}%
}%
\ltjghostafterjachar%
}
\DeclareRobustCommand{\maru@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\maru@boxwidth@new}{\zw}%
  \settowidth{\maru@var@yokohaba}{#1}%
  \settoheight{\maru@var@tate}{#1}%
  \settodepth{\maru@var@fuka}{#1}%
  \pgfmathsetlength{\maru@var@zenkou}{\maru@var@tate + \maru@var@fuka}%
  \pgfmathsetlength{\maru@var@yokohaba@cal}{0.85 * \maru@var@yokohaba}%
  \pgfmathsetlength{\maru@boxwidth@inner}{0.87 * \maru@boxwidth@new / sqrt(2)}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \maru@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \maru@boxwidth@new{%
  \vss%
  \hbox to \maru@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        shape=circle,
        line width=.04\maru@boxwidth@new,
        minimum size=.9\maru@boxwidth@new,
        draw,
        inner sep=.02\maru@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \maru@boxwidth@inner{
        \vss%
        \hbox to \maru@boxwidth@inner{%
        \hss%
         \shukushou@adj@new@no@maru{\maru@var@zenkou}{\maru@boxwidth@inner}{\
              maru@var@yokohaba@cal}{#1}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
```

```
    \hss%
  }%
  \vss%
 }%
 }%
 }%
 \ltjghostafterjachar%
}


\DeclareRobustCommand{\kuromaru@new}[1]{%
 \rot@or@not@kksym%
 \setlength{\maru@boxwidth@new}{\zw}%
 \settowidth{\maru@var@yokohaba}{#1}%
 \pgfmathsetlength{\maru@boxwidth@inner}{0.87 * \maru@boxwidth@new / sqrt(2)}%
 \leavevmode%
 \ltjghostbeforejachar%
 \hbox to \maru@boxwidth@new{%
 \raisebox{\vertical@adj@maru@new}{%
 \vbox to \maru@boxwidth@new{%
 \vss%
 \hbox to \maru@boxwidth@new{%
   \hss%
   \tikz[baseline=(char.base)]{%
     \node[
       shape=circle,
       fill=black,%%%
       line width=.04\maru@boxwidth@new,
       minimum size=.9\maru@boxwidth@new,
       draw,
       inner sep=.02\maru@boxwidth@new,
       rotate=\rot@kksym@tateyoko
     ] (char){%
     \vbox to \maru@boxwidth@inner{
       \vss%
       \hbox to \maru@boxwidth@inner{%
       \hss%
         \shukushou@adj@new{\maru@var@yokohaba}{\maru@boxwidth@inner}{%
           \textcolor{white}{#1}}%
       \hss%
       }%
       \vss%
     }%
     };
   }%
   \hss%
 }%
 \vss%
 }%
 }%
```

```latex
  }%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\kuromaru@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\maru@boxwidth@new}{\zw}%
  \settowidth{\maru@var@yokohaba}{#1}%
  \settoheight{\maru@var@tate}{#1}%
  \settodepth{\maru@var@fuka}{#1}%
  \pgfmathsetlength{\maru@var@zenkou}{\maru@var@tate + \maru@var@fuka}%
  \pgfmathsetlength{\maru@var@yokohaba@cal}{0.85 * \maru@var@yokohaba}%
  \pgfmathsetlength{\maru@boxwidth@inner}{0.87 * \maru@boxwidth@new / sqrt(2)}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \maru@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \maru@boxwidth@new{%
  \vss%
  \hbox to \maru@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        shape=circle,
        fill=black,%%%
        line width=.04\maru@boxwidth@new,
        minimum size=.9\maru@boxwidth@new,
        draw,
        inner sep=.02\maru@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \maru@boxwidth@inner{
        \vss%
        \hbox to \maru@boxwidth@inner{%
        \hss%
          \shukushou@adj@new@no@maru{\maru@var@zenkou}{\maru@boxwidth@inner}{\
              maru@var@yokohaba@cal}{%
            \textcolor{white}{#1}}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
```

```
}

\DeclareRobustCommand{\nmaru@new}[1]{%
 \rot@or@not@kksym%
 \setlength{\maru@boxwidth@new}{\zw}%
 \settowidth{\maru@var@yokohaba}{#1}%
 \pgfmathsetlength{\maru@boxwidth@inner}{0.85 * \maru@boxwidth@new / sqrt(2)}%
 \leavevmode%
 \ltjghostbeforejachar%
 \hbox to \maru@boxwidth@new{%
 \raisebox{\vertical@adj@maru@new}{%
 \vbox to \maru@boxwidth@new{%
 \vss%
 \hbox to \maru@boxwidth@new{%
   \hss%
   \tikz[baseline=(char.base)]{%
     \node[
       shape=circle,
       line width=.03\maru@boxwidth@new,
       minimum size=.88\maru@boxwidth@new,
       draw, double, double distance=.03\zw,%%%
       inner sep=.06\maru@boxwidth@new,
       rotate=\rot@kksym@tateyoko,
       scale=.87
     ] (char){%
     \vbox to \maru@boxwidth@inner{
       \vss%
       \hbox to \maru@boxwidth@inner{%
       \hss%
         \shukushou@adj@new{\maru@var@yokohaba}{\maru@boxwidth@inner}{#1}%
       \hss%
       }%
       \vss%
     }%
     };
   }%
   \hss%
 }%
 \vss%
 }%
 }%
 }%
 \ltjghostafterjachar%
}
\DeclareRobustCommand{\nmaru@new@no}[1]{%
 \rot@or@not@kksym%
 \setlength{\maru@boxwidth@new}{\zw}%
 \settowidth{\maru@var@yokohaba}{#1}%
 \settoheight{\maru@var@tate}{#1}%
```

```
\settodepth{\maru@var@fuka}{#1}%
\pgfmathsetlength{\maru@var@zenkou}{\maru@var@tate + \maru@var@fuka}%
\pgfmathsetlength{\maru@var@yokohaba@cal}{0.85 * \maru@var@yokohaba}%
\pgfmathsetlength{\maru@boxwidth@inner}{0.82 * \maru@boxwidth@new / sqrt(2)}%
\leavevmode%
\ltjghostbeforejachar%
\hbox to \maru@boxwidth@new{%
\raisebox{\vertical@adj@maru@new}{%
\vbox to \maru@boxwidth@new{%
\vss%
\hbox to \maru@boxwidth@new{%
  \hss%
  \tikz[baseline=(char.base)]{%
    \node[
      shape=circle,
      line width=.03\maru@boxwidth@new,
      minimum size=.88\maru@boxwidth@new,
      draw, double, double distance=.03\zw,%%%
      inner sep=.06\maru@boxwidth@new,
      rotate=\rot@kksym@tateyoko,
      scale=.9
    ] (char){%
    \vbox to \maru@boxwidth@inner{%
      \vss%
      \hbox to \maru@boxwidth@inner{%
      \hss%
        \shukushou@adj@new@no@maru{\maru@var@zenkou}{\maru@boxwidth@inner}{\
              maru@var@yokohaba@cal}{#1}%
      \hss%
      }%
      \vss%
    }%
    };
  }%
  \hss%
}%
\vss%
}%
}%
}%
\ltjghostafterjachar%
}


\newlength{\jegg@boxwidth@inner@cal}%%%
\DeclareRobustCommand{\jegg@new}[1]{%
  \rot@or@not@kksym%
  \setlength{\maru@boxwidth@new}{\zw}%
  \settowidth{\maru@var@yokohaba}{#1}%
  \pgfmathsetlength{\maru@boxwidth@inner}{0.87 * \maru@boxwidth@new / sqrt(2)}%
```

```
  \pgfmathsetlength{\jegg@boxwidth@inner@cal}{0.77 * \maru@boxwidth@inner}%%%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \maru@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \maru@boxwidth@new{%
  \vss%
  \hbox to \maru@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        shape=ellipse,
        line width=.04\maru@boxwidth@new,
        minimum height=.9\maru@boxwidth@new,
        minimum width=.7\maru@boxwidth@new,
        draw,
        inner sep=0\maru@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \maru@boxwidth@inner{
        \vss%
        \hbox to \jegg@boxwidth@inner@cal{%
        \hss%
          \shukushou@adj@new{\maru@var@yokohaba}{\jegg@boxwidth@inner@cal}{#1}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\jegg@new@black}[1]{%
  \rot@or@not@kksym%
  \setlength{\maru@boxwidth@new}{\zw}%
  \settowidth{\maru@var@yokohaba}{#1}%
  \pgfmathsetlength{\maru@boxwidth@inner}{0.87 * \maru@boxwidth@new / sqrt(2)}%
  \pgfmathsetlength{\jegg@boxwidth@inner@cal}{0.77 * \maru@boxwidth@inner}%%%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \maru@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \maru@boxwidth@new{%
  \vss%
```

```
  \hbox to \maru@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        shape=ellipse,
        line width=.04\maru@boxwidth@new,
        minimum height=.9\maru@boxwidth@new,
        minimum width=.7\maru@boxwidth@new,
        draw,
        fill=black!70,
        inner sep=0\maru@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \maru@boxwidth@inner{
        \vss%
        \hbox to \jegg@boxwidth@inner@cal{%
        \hss%
          \shukushou@adj@new{\maru@var@yokohaba}{\jegg@boxwidth@inner@cal}{#1}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}
%%%


% \seihou
\NewDocumentCommand{\vertical@adj@seihou@new}{}{%
  \ifnum\ltjgetparameter{direction}=3
    -.5\zw%
  \else
    -.12\zw%
  \fi
}
\newlength{\seihou@boxwidth@new}
\newlength{\seihou@boxwidth@inner}
\newlength{\seihou@var@yokohaba@cal}
\newlength{\seihou@var@yokohaba}
\newlength{\seihou@var@tate}
\newlength{\seihou@var@fuka}
\newlength{\seihou@var@zenkou}
```

```
\NewDocumentCommand{\shukushou@adj@new@no@seihou}{ m m m m }{%
  \ifdim #1 < #2%
    \ifdim #3 > #2%
      \resizebox*{#3}{!}{#4}%
    \else%
      \scalebox{.9}{#4}%
    \fi%
  \else%
    \resizebox*{!}{#2}{#4}%
  \fi%
}

\DeclareRobustCommand{\seihou@new}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.68 * \seihou@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        line width=.04\seihou@boxwidth@new,
        minimum size=.85\seihou@boxwidth@new,
        draw,
        inner sep=.1\seihou@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \seihou@boxwidth@inner{
        \vss%
        \hbox to \seihou@boxwidth@inner{%
        \hss%
          \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{#1}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
```

```
    }%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\seihou@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \settoheight{\seihou@var@tate}{#1}%
  \settodepth{\seihou@var@fuka}{#1}%
  \pgfmathsetlength{\seihou@var@zenkou}{\seihou@var@tate + \seihou@var@fuka}%
  \pgfmathsetlength{\seihou@var@yokohaba@cal}{0.85 * \seihou@var@yokohaba}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.68 * \seihou@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        line width=.04\seihou@boxwidth@new,
        minimum size=.85\seihou@boxwidth@new,
        draw,
        inner sep=.1\seihou@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \seihou@boxwidth@inner{
        \vss%
        \hbox to \seihou@boxwidth@inner{%
        \hss%
          \shukushou@adj@new@no@seihou{\seihou@var@zenkou}{\seihou@boxwidth@inner}{\
              seihou@var@yokohaba@cal}{#1}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}
```

```
\DeclareRobustCommand{\kuroseihou@new}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.68 * \seihou@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        line width=.04\seihou@boxwidth@new,
        minimum size=.85\seihou@boxwidth@new,
        draw,
        fill=black,%%%
        inner sep=.1\seihou@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \seihou@boxwidth@inner{
        \vss%
        \hbox to \seihou@boxwidth@inner{%
        \hss%
          \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{%
            \textcolor{white}{#1}}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\kuroseihou@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \settoheight{\seihou@var@tate}{#1}%
  \settodepth{\seihou@var@fuka}{#1}%
  \pgfmathsetlength{\seihou@var@zenkou}{\seihou@var@tate + \seihou@var@fuka}%
  \pgfmathsetlength{\seihou@var@yokohaba@cal}{0.85 * \seihou@var@yokohaba}%
```

```
\pgfmathsetlength{\seihou@boxwidth@inner}{0.68 * \seihou@boxwidth@new}%
\leavevmode%
\ltjghostbeforejachar%
\hbox to \seihou@boxwidth@new{%
\raisebox{\vertical@adj@maru@new}{%
\vbox to \seihou@boxwidth@new{%
\vss%
\hbox to \seihou@boxwidth@new{%
  \hss%
  \tikz[baseline=(char.base)]{%
    \node[
      line width=.04\seihou@boxwidth@new,
      minimum size=.85\seihou@boxwidth@new,
      draw,
      fill=black,%%%
      inner sep=.1\seihou@boxwidth@new,
      rotate=\rot@kksym@tateyoko
    ] (char){%
    \vbox to \seihou@boxwidth@inner{
      \vss%
      \hbox to \seihou@boxwidth@inner{%
      \hss%
        \shukushou@adj@new@no@seihou{\seihou@var@zenkou}{\seihou@boxwidth@inner}{\
              seihou@var@yokohaba@cal}{%
          \textcolor{white}{#1}}%
      \hss%
      }%
      \vss%
    }%
    };
  }%
  \hss%
}%
\vss%
}%
}%
}%
\ltjghostafterjachar%
}


\DeclareRobustCommand{\seimaru@new}[1]{%
\rot@or@not@kksym%
\setlength{\seihou@boxwidth@new}{\zw}%
\settowidth{\seihou@var@yokohaba}{#1}%
\pgfmathsetlength{\seihou@boxwidth@inner}{0.68 * \seihou@boxwidth@new}%
\leavevmode%
\ltjghostbeforejachar%
\hbox to \seihou@boxwidth@new{%
\raisebox{\vertical@adj@maru@new}{%
```

```
  \vbox to \seihou@boxwidth@new{%
\vss%
\hbox to \seihou@boxwidth@new{%
  \hss%
  \tikz[baseline=(char.base)]{%
    \node[
      line width=.04\seihou@boxwidth@new,
      minimum size=.85\seihou@boxwidth@new,
      draw,
      rounded corners=.13\zw,%%%
      inner sep=.1\seihou@boxwidth@new,
      rotate=\rot@kksym@tateyoko
    ] (char){%
    \vbox to \seihou@boxwidth@inner{
      \vss%
      \hbox to \seihou@boxwidth@inner{%
      \hss%
        \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{#1}%
      \hss%
      }%
      \vss%
    }%
    };
  }%
  \hss%
}%
\vss%
}%
}%
}%
\ltjghostafterjachar%
}
\DeclareRobustCommand{\seimaru@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \settoheight{\seihou@var@tate}{#1}%
  \settodepth{\seihou@var@fuka}{#1}%
  \pgfmathsetlength{\seihou@var@zenkou}{\seihou@var@tate + \seihou@var@fuka}%
  \pgfmathsetlength{\seihou@var@yokohaba@cal}{0.85 * \seihou@var@yokohaba}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.68 * \seihou@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
```

```
    \node[
      line width=.04\seihou@boxwidth@new,
      minimum size=.85\seihou@boxwidth@new,
      draw,
      rounded corners=.13\zw,%%%
      inner sep=.1\seihou@boxwidth@new,
      rotate=\rot@kksym@tateyoko
    ] (char){%
    \vbox to \seihou@boxwidth@inner{
      \vss%
      \hbox to \seihou@boxwidth@inner{%
      \hss%
        \shukushou@adj@new@no@seihou{\seihou@var@zenkou}{\seihou@boxwidth@inner}{\
             seihou@var@yokohaba@cal}{#1}%
      \hss%
      }%
      \vss%
    }%
    };
  }%
  \hss%
}%
\vss%
}%
}%
}%
\ltjghostafterjachar%
}


\DeclareRobustCommand{\kuroseimaru@new}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.68 * \seihou@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
      line width=.04\seihou@boxwidth@new,
      minimum size=.85\seihou@boxwidth@new,
      draw,
      fill=black,%%%
      rounded corners=.13\zw,%%%
```

```
      inner sep=.1\seihou@boxwidth@new,
      rotate=\rot@kksym@tateyoko
    ] (char){%
    \vbox to \seihou@boxwidth@inner{
      \vss%
      \hbox to \seihou@boxwidth@inner{%
      \hss%
        \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{%
          \textcolor{white}{#1}}%
      \hss%
      }%
      \vss%
    }%
    };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\kuroseimaru@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \settoheight{\seihou@var@tate}{#1}%
  \settodepth{\seihou@var@fuka}{#1}%
  \pgfmathsetlength{\seihou@var@zenkou}{\seihou@var@tate + \seihou@var@fuka}%
  \pgfmathsetlength{\seihou@var@yokohaba@cal}{0.85 * \seihou@var@yokohaba}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.68 * \seihou@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        line width=.04\seihou@boxwidth@new,
        minimum size=.85\seihou@boxwidth@new,
        draw,
        fill=black,%%%
        rounded corners=.13\zw,%%%
        inner sep=.1\seihou@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
```

```
    \vbox to \seihou@boxwidth@inner{
      \vss%
      \hbox to \seihou@boxwidth@inner{%
      \hss%
        \shukushou@adj@new@no@seihou{\seihou@var@zenkou}{\seihou@boxwidth@inner}{\
              seihou@var@yokohaba@cal}{%
          \textcolor{white}{#1}}%
      \hss%
      }%
      \vss%
    }%
    };
  }%
  \hss%
}%
\vss%
}%
}%
}%
\ltjghostafterjachar%
}


\DeclareRobustCommand{\hishi@new}[1]{%
 \rot@or@not@kksym%
 \setlength{\seihou@boxwidth@new}{\zw}%
 \settowidth{\seihou@var@yokohaba}{#1}%
 \pgfmathsetlength{\seihou@boxwidth@inner}{0.85 * \seihou@boxwidth@new / 2}%
 \leavevmode%
 \ltjghostbeforejachar%
 \hbox to \seihou@boxwidth@new{%
 \raisebox{\vertical@adj@maru@new}{%
 \vbox to \seihou@boxwidth@new{%
 \vss%
 \hbox to \seihou@boxwidth@new{%
   \hss%
   \tikz[baseline=(char.base)]{%
     \node[
       line width=.04\seihou@boxwidth@new,
       minimum size=.5\seihou@boxwidth@new,
       draw,
       shape=diamond,
       inner sep=.03\seihou@boxwidth@new,
       rotate=\rot@kksym@tateyoko
     ] (char){%
     \vbox to \seihou@boxwidth@inner{
       \vss%
       \hbox to \seihou@boxwidth@inner{%
       \hss%
         \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{#1}%
```

```
      \hss%
      }%
      \vss%
    }%
    };
  }%
  \hss%
}%
\vss%
}%
}%
}%
\ltjghostafterjachar%
}
\DeclareRobustCommand{\hishi@new@no}[1]{%
 \rot@or@not@kksym%
 \setlength{\seihou@boxwidth@new}{\zw}%
 \settowidth{\seihou@var@yokohaba}{#1}%
 \settoheight{\seihou@var@tate}{#1}%
 \settodepth{\seihou@var@fuka}{#1}%
 \pgfmathsetlength{\seihou@var@zenkou}{(\seihou@var@tate + \seihou@var@fuka)*99}%
 \pgfmathsetlength{\seihou@boxwidth@inner}{0.85 * \seihou@boxwidth@new / 2}%
 \leavevmode%
 \ltjghostbeforejachar%
 \hbox to \seihou@boxwidth@new{%
 \raisebox{\vertical@adj@maru@new}{%
 \vbox to \seihou@boxwidth@new{%
 \vss%
 \hbox to \seihou@boxwidth@new{%
   \hss%
   \tikz[baseline=(char.base)]{%
     \node[
       line width=.04\seihou@boxwidth@new,
       minimum size=.5\seihou@boxwidth@new,
       draw,
       shape=diamond,
       inner sep=.03\seihou@boxwidth@new,
       rotate=\rot@kksym@tateyoko
     ] (char){%
     \vbox to \seihou@boxwidth@inner{
       \vss%
       \hbox to \seihou@boxwidth@inner{%
       \hss%
         % これだけ他のやつと違うので注意！
         \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{#1}%
       \hss%
       }%
       \vss%
     }%
     };
```

32

```
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}


\DeclareRobustCommand{\maruhishi@new}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.85 * \seihou@boxwidth@new / 2}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        line width=.04\seihou@boxwidth@new,
        minimum size=.5\seihou@boxwidth@new,
        draw,
        rounded corners=.06\zw,%%%
        shape=diamond,
        inner sep=.03\seihou@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \seihou@boxwidth@inner{
        \vss%
        \hbox to \seihou@boxwidth@inner{%
        \hss%
          \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{#1}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
```

```
    }%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\maruhishi@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \settoheight{\seihou@var@tate}{#1}%
  \settodepth{\seihou@var@fuka}{#1}%
  \pgfmathsetlength{\seihou@var@zenkou}{(\seihou@var@tate + \seihou@var@fuka)*99}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.85 * \seihou@boxwidth@new / 2}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        line width=.04\seihou@boxwidth@new,
        minimum size=.5\seihou@boxwidth@new,
        draw,
        rounded corners=.06\zw,%%%
        shape=diamond,
        inner sep=.03\seihou@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \seihou@boxwidth@inner{
        \vss%
        \hbox to \seihou@boxwidth@inner{%
        \hss%
          % これだけ他のやつと違うので注意！
          \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{#1}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}
```

```
\DeclareRobustCommand{\kurohishi@new}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.85 * \seihou@boxwidth@new / 2}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
  \vss%
  \hbox to \seihou@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        line width=.04\seihou@boxwidth@new,
        minimum size=.5\seihou@boxwidth@new,
        draw,
        fill=black,%%%
        shape=diamond,
        inner sep=.03\seihou@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \seihou@boxwidth@inner{
        \vss%
        \hbox to \seihou@boxwidth@inner{%
        \hss%
          \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{%
            \textcolor{white}{#1}}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\kurohishi@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \settoheight{\seihou@var@tate}{#1}%
  \settodepth{\seihou@var@fuka}{#1}%
```

```
    \pgfmathsetlength{\seihou@var@zenkou}{(\seihou@var@tate + \seihou@var@fuka)*99}%
    \pgfmathsetlength{\seihou@boxwidth@inner}{0.85 * \seihou@boxwidth@new / 2}%
    \leavevmode%
    \ltjghostbeforejachar%
    \hbox to \seihou@boxwidth@new{%
    \raisebox{\vertical@adj@maru@new}{%
    \vbox to \seihou@boxwidth@new{%
    \vss%
    \hbox to \seihou@boxwidth@new{%
      \hss%
      \tikz[baseline=(char.base)]{%
        \node[
          line width=.04\seihou@boxwidth@new,
          minimum size=.5\seihou@boxwidth@new,
          draw,
          fill=black,%%%
          shape=diamond,
          inner sep=.03\seihou@boxwidth@new,
          rotate=\rot@kksym@tateyoko
        ] (char){%
        \vbox to \seihou@boxwidth@inner{
          \vss%
          \hbox to \seihou@boxwidth@inner{%
          \hss%
            % これだけ他のやつと違うので注意！
            \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{%
              \textcolor{white}{#1}}%
          \hss%
          }%
          \vss%
        }%
        };
      }%
      \hss%
    }%
    \vss%
    }%
    }%
    }%
    \ltjghostafterjachar%
}


\DeclareRobustCommand{\kuromaruhishi@new}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.85 * \seihou@boxwidth@new / 2}%
  \leavevmode%
  \ltjghostbeforejachar%
```

```
    \hbox to \seihou@boxwidth@new{%
    \raisebox{\vertical@adj@maru@new}{%
    \vbox to \seihou@boxwidth@new{%
    \vss%
    \hbox to \seihou@boxwidth@new{%
      \hss%
      \tikz[baseline=(char.base)]{%
        \node[
          line width=.04\seihou@boxwidth@new,
          minimum size=.5\seihou@boxwidth@new,
          draw,
          fill=black,%%%
          rounded corners=.06\zw,%%%
          shape=diamond,
          inner sep=.03\seihou@boxwidth@new,
          rotate=\rot@kksym@tateyoko
        ] (char){%
        \vbox to \seihou@boxwidth@inner{%
          \vss%
          \hbox to \seihou@boxwidth@inner{%
          \hss%
            \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{%
              \textcolor{white}{#1}}%
          \hss%
          }%
          \vss%
        }%
        };
      }%
      \hss%
    }%
    \vss%
    }%
    }%
    }%
    \ltjghostafterjachar%
}
\DeclareRobustCommand{\kuromaruhishi@new@no}[1]{%
  \rot@or@not@kksym%
  \setlength{\seihou@boxwidth@new}{\zw}%
  \settowidth{\seihou@var@yokohaba}{#1}%
  \settoheight{\seihou@var@tate}{#1}%
  \settodepth{\seihou@var@fuka}{#1}%
  \pgfmathsetlength{\seihou@var@zenkou}{(\seihou@var@tate + \seihou@var@fuka)*99}%
  \pgfmathsetlength{\seihou@boxwidth@inner}{0.85 * \seihou@boxwidth@new / 2}%
  \leavevmode%
  \ltjghostbeforejachar%
  \hbox to \seihou@boxwidth@new{%
  \raisebox{\vertical@adj@maru@new}{%
  \vbox to \seihou@boxwidth@new{%
```

```
  \vss%
  \hbox to \seihou@boxwidth@new{%
    \hss%
    \tikz[baseline=(char.base)]{%
      \node[
        line width=.04\seihou@boxwidth@new,
        minimum size=.5\seihou@boxwidth@new,
        draw,
        fill=black,%%%
        rounded corners=.06\zw,%%%
        shape=diamond,
        inner sep=.03\seihou@boxwidth@new,
        rotate=\rot@kksym@tateyoko
      ] (char){%
      \vbox to \seihou@boxwidth@inner{
        \vss%
        \hbox to \seihou@boxwidth@inner{%
        \hss%
          % これだけ他のやつと違うので注意！
          \shukushou@adj@new{\seihou@var@yokohaba}{\seihou@boxwidth@inner}{%
            \textcolor{white}{#1}}%
        \hss%
        }%
        \vss%
      }%
      };
    }%
    \hss%
  }%
  \vss%
  }%
  }%
  }%
  \ltjghostafterjachar%
}
%%%


% \kakko
\newlength{\kakko@boxwidth@new}
\newlength{\kakko@boxwidth@inner}
\newlength{\kakko@var@yokohaba}
\newlength{\kakko@var@yokohaba@cal}
\newlength{\kakko@var@tate}
\newlength{\kakko@var@fuka}
\newlength{\kakko@var@zenkou}

\NewDocumentCommand{\shukushou@adj@new@no@kakko}{ m m m m }{%
  \ifdim #1 < #2%
    \ifdim #3 > #2%
```

```
    \resizebox*{#3}{!}{#4}%
  \else%
    \scalebox{.9}{#4}%
  \fi%
\else%
  \resizebox*{!}{#2}{#4}%
\fi%
}


\DeclareRobustCommand{\kakko@byouga@internal}[3]{% 横の方
  \rot@or@not@kksym%
  \setlength{\kakko@boxwidth@new}{\zw}%
  \settowidth{\kakko@var@yokohaba}{#3}%
  \pgfmathsetlength{\kakko@boxwidth@inner}{0.8 * \kakko@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
    \hbox to \zw{\hss%
      \scalebox{.63}[1]{#1}\hspace*{-.1\zw}%
        \vbox to \kakko@boxwidth@inner{
        \vss%
        \hbox to \kakko@boxwidth@inner{%
        \hss%
          \rotatebox[origin=c]{\rot@kksym@tateyoko}{%
            \shukushou@adj@new{\kakko@var@yokohaba}{\kakko@boxwidth@inner}{#3}}%
        \hss%
        }%
        \vss%
      }%
      \hspace*{-.1\zw}\scalebox{.63}[1]{#2}%
    \hss}%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\kakko@byouga@internal@no}[3]{% 横の方
  \rot@or@not@kksym%
  \setlength{\kakko@boxwidth@new}{\zw}%
  \settowidth{\kakko@var@yokohaba}{#3}%
  \settoheight{\kakko@var@tate}{#3}%
  \settodepth{\kakko@var@fuka}{#3}%
  \pgfmathsetlength{\kakko@var@zenkou}{\kakko@var@tate + \kakko@var@fuka}%
  \pgfmathsetlength{\kakko@var@yokohaba@cal}{0.9 * \kakko@var@yokohaba}%
  \pgfmathsetlength{\kakko@boxwidth@inner}{0.8 * \kakko@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
    \hbox to \zw{\hss%
      \scalebox{.63}[1]{#1}\hspace*{-.1\zw}%
        \vbox to \kakko@boxwidth@inner{
        \vss%
        \hbox to \kakko@boxwidth@inner{%
        \hss%
          \rotatebox[origin=c]{\rot@kksym@tateyoko}{%
```

```
        \shukushou@adj@new@no@kakko{\kakko@var@zenkou}{\kakko@boxwidth@inner}{\
              kakko@var@yokohaba@cal}{#3}}%
      \hss%
      }%
      \vss%
    }%
    \hspace*{-.1\zw}\scalebox{.63}[1]{#2}%
  \hss}%
  \ltjghostafterjachar%
}

\DeclareRobustCommand{\kakko@byouga@internal@tate}[3]{% 縦の方
  \rot@or@not@kksym%
  \ifnum\ltjgetparameter{direction}=3\pgfmathsetmacro{\rot@kksym@tateyoko}{\rot@kksym@tateyoko
      - 90}\fi%
  \setlength{\kakko@boxwidth@new}{\zw}%
  \settowidth{\kakko@var@yokohaba}{#3}%
  \pgfmathsetlength{\kakko@boxwidth@inner}{0.8 * \kakko@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
  \raisebox{-.5\zw}{%
  \rotatebox[origin=c]{90}{%
  \hbox to \zw{\hss%
  \vbox to \zw{\vss%
    \hbox to \zw{\hss%
    \scalebox{.63}[1]{#1}\hspace*{-.1\zw}%
      \vbox to \kakko@boxwidth@inner{%
      \vss%
      \hbox to \kakko@boxwidth@inner{%
      \hss%
        \raisebox{-1.2\zw}{%
          \rotatebox[origin=c]{\rot@kksym@tateyoko}{%
            \shukushou@adj@new{\kakko@var@yokohaba}{\kakko@boxwidth@inner}{#3}%
          }%
        }%
      \hss%
      }%
      \vss%
    }%
    \hspace*{-.1\zw}\scalebox{.63}[1]{#2}\vspace*{.3\zw}%
  \hss}%
  \vss%
  \hss%
  }%
  }%
  \ltjghostafterjachar%
}
\DeclareRobustCommand{\kakko@byouga@internal@tate@no}[3]{% 縦の方
  \rot@or@not@kksym%
  \ifnum\ltjgetparameter{direction}=3\pgfmathsetmacro{\rot@kksym@tateyoko}{\rot@kksym@tateyoko
```

```
          - 90}\fi%
  \setlength{\kakko@boxwidth@new}{\zw}%
  \settowidth{\kakko@var@yokohaba}{#3}%
  \settoheight{\kakko@var@tate}{#3}%
  \settodepth{\kakko@var@fuka}{#3}%
  \pgfmathsetlength{\kakko@var@zenkou}{\kakko@var@tate + \kakko@var@fuka}%
  \pgfmathsetlength{\kakko@var@yokohaba@cal}{0.9 * \kakko@var@yokohaba}%
  \pgfmathsetlength{\kakko@boxwidth@inner}{0.8 * \kakko@boxwidth@new}%
  \leavevmode%
  \ltjghostbeforejachar%
    \raisebox{-.5\zw}{%
    \rotatebox[origin=c]{90}{%
    \hbox to \zw{\hss%
    \vbox to \zw{\vss%
      \hbox to \zw{\hss%
      \scalebox{.63}[1]{#1}\hspace*{-.1\zw}%
        \vbox to \kakko@boxwidth@inner{%
        \vss%
        \hbox to \kakko@boxwidth@inner{%
        \hss%
          \raisebox{-1.6\zw}{%
            \vbox to \kakko@boxwidth@inner{%
            \vss%
            \hbox to \kakko@boxwidth@inner{%
            \hss%
            \rotatebox[origin=c]{\rot@kksym@tateyoko}{%
              \shukushou@adj@new@no@kakko{\kakko@var@zenkou}{\kakko@boxwidth@inner}{\
                    kakko@var@yokohaba@cal}{#3}%
            }\hss}\vss}%
          }%
        \hss%
        }%
        \vss%
      }%
      \hspace*{-.1\zw}\scalebox{.63}[1]{#2}\vspace*{.3\zw}%
    \hss}%
    \vss}%
    \hss}%
    }%
    }%
  \ltjghostafterjachar%
}
%%%


% \ichimoji
\newlength{\ichimoji@yk@new}
\newlength{\ichimoji@ht@new}
\newlength{\ichimoji@dp@new}
\newlength{\ichimoji@zenkou@new}
```

```
\DeclareRobustCommand{\ichimoji@scaling}[1]{%
  \ifdim\ichimoji@yk@new > \zw%
    \pgfmathsetmacro{\ratio@ichimoji@yk}{\strip@pt\zw/\strip@pt\ichimoji@yk@new}%
    \scalebox{\ratio@ichimoji@yk}[1]{#1}%
  \else%
    #1%
  \fi%
}
\DeclareRobustCommand{\ichimoji@new}[1]{%
  \ifnum\ltjgetparameter{direction}=3%
    \leavevmode%
    \ltjghostbeforejachar%
    \raisebox{-.5\zw}{\hbox to \zw {\hss%
    \vbox to \zw {\vss%
      \hbox to \zw {\hss%
        \resizebox*{\zw}{\zw}{#1}%
      \hss}%
    \vss}\hss}}%
    \ltjghostafterjachar%
  \else%
    \leavevmode%
    \ltjghostbeforejachar%
    \raisebox{-.12\zw}{\hbox to \zw {\hss%
    \vbox to \zw {\vss%
      \hbox to \zw {\hss%
        \resizebox*{\zw}{\zw}{#1}%
      \hss}%
    \vss}\hss}}%
    \ltjghostafterjachar%
  \fi%
}
\DeclareRobustCommand{\ichimoji@new@no}[1]{%
  \settowidth{\ichimoji@yk@new}{#1}%
  \settoheight{\ichimoji@ht@new}{#1}%
  \settodepth{\ichimoji@dp@new}{#1}%
  \pgfmathsetlength{\ichimoji@zenkou@new}{\ichimoji@ht@new + \ichimoji@dp@new}%
  \ifnum\ltjgetparameter{direction}=3%
    \leavevmode%
    \ltjghostbeforejachar%
    \raisebox{-.5\zw}{\hbox to \zw {\hss%
    \vbox to \zw {\vss%
      \hbox to \zw {\hss%
        \ichimoji@scaling{#1}%
      \hss}%
    \vss}\hss}}%
    \ltjghostafterjachar%
  \else%
    \leavevmode%
    \ltjghostbeforejachar%
    \raisebox{-.12\zw}{\hbox to \zw {\hss%
```

```
    \vbox to \zw {\vss%
      \hbox to \zw {\hss%
        \ichimoji@scaling{#1}%
      \hss}%
    \vss}\hss}}%
    \ltjghostafterjachar%
  \fi%
}
%%%
\endinput
```