

keisennote Package Documentation

KKTeX

Version 1.0.3 (2025/09/17)

Contents

1 Acknowledgements / Credit	2
2 Installation	2
3 Commands	2
3.1 \notefill	2
3.2 \note	3
3.3 \masumefill	3
3.4 \masume	4
4 Package Parameters	4
5 Examples	5
5.1 Short Note Block	5
5.2 Full Page Fill	5
6 Implementation Notes	6
7 License	6
8 Version History	6
9 Source Code	6

1 Acknowledgements / Credit

This package is based on the code from [VoD's Qiita article](#), with some improvements. The original author has kindly granted permission to release this as a LaTeX package.

2 Installation

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

Dependencies:

- `xcolor`
- `tikz`
- `xparse, calc, ifthen`
- `fp`
- `zref-savepos`
- `luatex85, url, expl3, xkeyval`

Load the package:

```
\usepackage{keisennote}
```

3 Commands

3.1 \notefill

```
\notefill[<scale>][<color>]
```

Fills the current vertical space with ruled notebook lines and dots.

- `<scale>` (optional, default: 0.5pt): size of triangular end markers.
- `<color>` (optional, default: white!70!black): color of lines and dots.

Example:

```
\notefill[0.6pt] [Gray]
```

3.2 \note

```
\note{<lines>} [<scale>] [<color>]
```

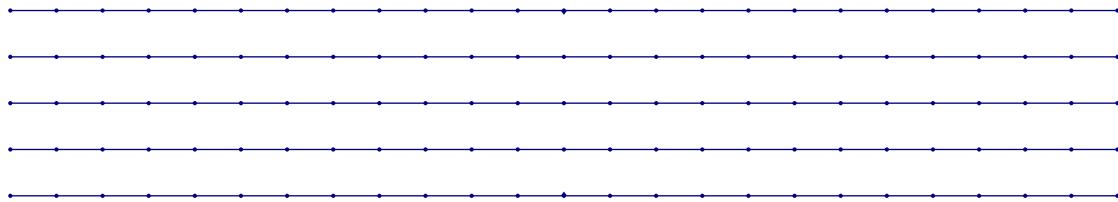
Typesets a short ruled block with a specified number of lines.

- <lines> (mandatory, integer ≥ 2): number of ruled lines.
- <scale> (optional, default: 0.5pt): size of triangular markers.
- <color> (optional, default: white!70!black): color of lines and dots.

Example:

```
\note{5}[0.4pt][NavyBlue]
```

This produces the following output.



Inserting \bigskip before (and after) using the \note command can sometimes improve the appearance.

3.3 \masumefill

```
\masume [<scale>] [<color>]
```

Fills the current vertical space with grids and dots.

- <scale> (optional, default: 0.5pt): size of triangular end markers.
- <color> (optional, default: white!70!black): color of lines and dots.

Example:

```
\notefill[0.6pt][Gray]
```

3.4 \masume

```
\masume{<lines>} [<scale>] [<color>]
```

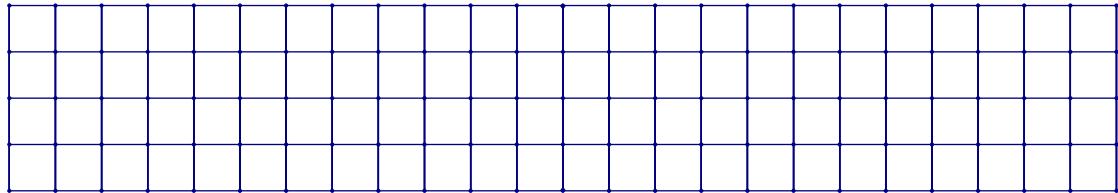
Typesets a short grid block with a specified number of lines.

- <lines> (mandatory, integer ≥ 2): number of ruled lines.
- <scale> (optional, default: 0.5pt): size of triangular markers.
- <color> (optional, default: white!70!black): color of lines and dots.

Example:

```
\masume{5} [0.4pt] [NavyBlue]
```

This produces the following output.



Inserting \bigskip before (and after) using the \masume command can sometimes improve the appearance.

4 Package Parameters

These dimensions can be adjusted:

- \noteLineWidth: thickness of ruled lines (default: 0.5pt)
- \dotsRadius: radius of intersection dots (default: 0.8pt)
- \noteLineDistance: vertical distance between lines (default: 6mm)

Example:

```
\setlength{\noteLineDistance}{7truemm} % A-kei spacing
```

5 Examples

5.1 Short Note Block

```
\note{4}
```



5.2 Full Page Fill

```
\notefill
```



6 Implementation Notes

- Notebook lines are drawn using TikZ, with dots placed at equal horizontal intervals.
- The number of dots per line is automatically calculated using the `fp` package.
- Triangular markers are added at the top and bottom of each ruled block.
- `\notefill` measures available vertical space using `zref-savepos`.

7 License

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

8 Version History

- **v1.0.0 (2025/09/13)** — Initial public release.
- **v1.0.3 (2025/09/13)** — KKTeX added `\masume` and `\masumefill`.

9 Source Code

```
\ProvidesPackage{keisennote}[2025/09/17, v1.0.3]

\RequirePackage[dvipsnames, svgnames, x11names]{xcolor}
\RequirePackage{lualatex85, zref, zref-savepos, fp, url, expl3, xkeyval
    }
\RequirePackage{tikz}\RequirePackage{graphicx}
\usetikzlibrary{shapes, positioning, shadows, shadows.blur, patterns,
    decorations.text, decorations.pathmorphing, arrows.meta, calc,
    snakes, intersections}
\RequirePackage{xparse, calc, ifthen}

\newdimen\VoD@mag
\VoD@mag=.5pt
\newdimen\noteLineWidth
\newdimen\dotsRadius
\newdimen\noteLineDistance
\noteLineWidth.5truept\relax% <-
\dotsRadius.8truept\relax% <-
```

```

\noteLineDistance=6truemm\relax% <-      A : 7 truemmB : 6 truemm

%%%%
\newdimen\VDNT@currentXPos
\newdimen\VDNT@currentYPos
\newdimen\VDNT@Xinterval
\newdimen\VDNT@Yinterval
\newdimen\VDNT@notegoal

%%% \          notefill
\def\VDNT@pkgname{vodnote}
\global\newcount\VDNT@unique

%%% \notefill
\NewDocumentCommand{\notefill}{ O{.5pt} O{white!70!black} }{\par\
    \bgroup
    \VoD@mag=#1
    \parindent\z@
    %
    \tempcpta\linewidth
    \tempcntb\noteLineDistance
    \FPeval\VDNT@dotsNum{\round(\round(((\the)\tempcpta/(\the)\tempcntb
        )/2:0)*2:0)}%
    \VDNT@Xinterval\dimexpr\linewidth/\VDNT@dotsNum\relax
    \VDNT@Yinterval\VDNT@Xinterval
    %
    \zsaveposy{\VDNT@pkgname.\the\VDNT@unique.TopPos}%
    %
    \leavevmode\vfill\leavevmode
    \zsaveposy{\VDNT@pkgname.\the\VDNT@unique.BottomPos}%
    %
    \VDNT@notegoal=\dimexpr
        \zposy{\VDNT@pkgname.\the\VDNT@unique.TopPos}sp
        -\zposy{\VDNT@pkgname.\the\VDNT@unique.BottomPos}sp
    \relax
    %
    \noindent\smash{%
        \begin{tikzpicture}[xscale=0.996]
            \VDNT@currentYPos\z@
            \fill[#2] (\VDNT@Xinterval*\VDNT@dotsNum/2,\VDNT@currentYPos+
                \VoD@mag*4pt) -- ++(\VoD@mag*3pt,-\VoD@mag*4pt) -- ++(-\

```

```

    \VoD@mag*6pt,0) -- cycle;
\@whiledim\VDNT@currentYPos<\VDNT@notegoal\do{
    \VDNT@currentXPos\z@
    \draw[#2, line width=\noteLineWidth] (0,\VDNT@currentYPos) --
        (\linewidth,\VDNT@currentYPos);
    \foreach \k in{0,1,...,\VDNT@dotsNum}{%
        \VDNT@currentXPos=\dimexpr\VDNT@Xinterval*\k\relax
        \fill[#2] (\VDNT@currentXPos,\VDNT@currentYPos) circle [
            radius=\dotsRadius];
    }
    \advance\VDNT@currentYPos\VDNT@Yinterval\relax
}
\fill[#2] (\VDNT@Xinterval*\VDNT@dotsNum/2,\VDNT@currentYPos-
    \VDNT@Yinterval-\VoD@mag*4pt) -- ++(\VoD@mag*3pt,\VoD@mag*4pt
) -- ++(-\VoD@mag*6pt,0) -- cycle;
\end{tikzpicture}%
}%
\egroup
%%
\global\advance\VDNT@unique@ne
\par
}

%%% \note
\NewDocumentCommand{\note}{ m O{.5pt} O{white!70!black} }{\par\bgroup

%%
\VoD@mag=#2
%%
\@tempcnta\linewidth
\@tempcntb\noteLineDistance
\FPeval\VDNT@dotsNum{round(round(((\the)\@tempcnta/(\the)\@tempcntb
)/2:0)*2:0)}%
\VDNT@Xinterval\dimexpr\linewidth/\VDNT@dotsNum\relax
\VDNT@Yinterval\VDNT@Xinterval
%%
\noindent
\begin{tikzpicture}[xscale=0.996]
\VDNT@currentYPos\z@
\fill[#3] (\VDNT@Xinterval*\VDNT@dotsNum/2,\VDNT@currentYPos+
    \VDNT@Yinterval+\VoD@mag*4pt) -- ++(\VoD@mag*3pt,-\VoD@mag*4
pt) -- ++(-\VoD@mag*6pt,0) -- cycle;    %

```

```

\foreach \i in{1,2,...,#1}{
    \VDNT@currentXPos\z@
    \global\VDNT@currentYPos=\dimexpr\VDNT@Yinterval*\i\relax
    \draw[#3, line width=\noteLineWidth] (0,\VDNT@currentYPos) --
        (\linewidth,\VDNT@currentYPos);
    \foreach \k in{0,1,...,\VDNT@dotsNum}{
        \VDNT@currentXPos=\dimexpr\VDNT@Xinterval*\k\relax
        \fill[#3] (\VDNT@currentXPos,\VDNT@currentYPos) circle [
            radius=\dotsRadius];
    }
}
\fill[#3] (\VDNT@Xinterval*\VDNT@dotsNum/2,\VDNT@currentYPos-
    \VoD@mag*4pt) -- ++(\VoD@mag*3pt,\VoD@mag*4pt) -- ++(-
    \VoD@mag*6pt,0) -- cycle; %
\end{tikzpicture}%
\egroup
\par
}

\NewDocumentCommand{\masumefill}{ O{.5pt} O{white!70!black} }{\par\
    \bgroup
    \VoD@mag=#1
    \parindent\z@
    %%
    \tempcpta\linewidth
    \tempcntb\noteLineDistance
    \FPeval\VDNT@dotsNum{round(round(((\the)\tempcpta/(\the)\tempcntb
        )/2:0)*2:0)}%
    \VDNT@Xinterval\dimexpr(\linewidth)/\VDNT@dotsNum\relax
    \VDNT@Yinterval\VDNT@Xinterval
    %%
    \zsaveposy{\VDNT@pkgname.\the\VDNT@unique.TopPos}%
    %%
    \leavevmode\vfill\leavevmode
    \zsaveposy{\VDNT@pkgname.\the\VDNT@unique.BottomPos}%
    %%
    \VDNT@notegoal=\dimexpr
        \zposy{\VDNT@pkgname.\the\VDNT@unique.TopPos}sp
        -\zposy{\VDNT@pkgname.\the\VDNT@unique.BottomPos}sp
    \relax
    %%
    \noindent\smash{%

```

```

\begin{tikzpicture}[xscale=0.996]
\VDNT@currentYPos\z@
\fill[#2] (\VDNT@Xinterval*\VDNT@dotsNum/2,\VDNT@currentYPos+\\
    VoD@mag*4pt) -- ++(\VoD@mag*3pt,-\VoD@mag*4pt) -- ++(-\
    VoD@mag*6pt,0) -- cycle;
\@whiledim\VDNT@currentYPos<\VDNT@notegoal\do{
    \VDNT@currentXPos\z@
    \draw[#2,line width=\noteLineWidth] (0,\VDNT@currentYPos) --
        (\linewidth,\VDNT@currentYPos);
    \foreach \k in{0,1,...,\VDNT@dotsNum}{%
        \VDNT@currentXPos=\dimexpr\VDNT@Xinterval*\k\relax
        \draw[#2,line width=\noteLineWidth]
        (\VDNT@currentXPos,0) -- (\VDNT@currentXPos,\VDNT@notegoal
        -.5\VDNT@Yinterval);
        \fill[#2] (\VDNT@currentXPos,\VDNT@currentYPos) circle [
            radius=\dotsRadius];
    }
    \advance\VDNT@currentYPos\VDNT@Yinterval\relax
}
\fill[#2] (\VDNT@Xinterval*\VDNT@dotsNum/2,\VDNT@currentYPos-\\
    \VDNT@Yinterval-\VoD@mag*4pt) -- ++(\VoD@mag*3pt,\VoD@mag*4pt
) -- ++(-\VoD@mag*6pt,0) -- cycle;
\end{tikzpicture}%
}%
\egroup
%%
\global\advance\VDNT@unique@ne
\par
}

\NewDocumentCommand{\masume}{ m O{.5pt} O{white!70!black} }{\par\
    \bgroup
    %%
    \VoD@mag=#2
    %%
    \tempcpta\linewidth
    \tempcntb\noteLineDistance
    \FPeval\VDNT@dotsNum{\round(\round(((\the)\tempcpta/(\the)\tempcntb
    )/2:0)*2:0)}%
    \VDNT@Xinterval\dimexpr\linewidth/\VDNT@dotsNum\relax
    \VDNT@Yinterval\VDNT@Xinterval
    %%

```

```

\noindent
\begin{tikzpicture}[xscale=0.996]
\VDNT@currentYPos\z@
\fill[#3] (\VDNT@Xinterval*\VDNT@dotsNum/2,\VDNT@currentYPos+\\
    \VDNT@Yinterval+\VoD@mag*4pt) -- ++(\VoD@mag*3pt,-\VoD@mag*4
    pt) -- ++(-\VoD@mag*6pt,0) -- cycle;      %
\foreach \i in{1,2,...,#1}{
\VDNT@currentXPos\z@
\global\VDNT@currentYPos=\dimexpr\VDNT@Yinterval*\i\relax
\draw[#3,line width=\noteLineWidth] (0,\VDNT@currentYPos) --
    (\linewidth,\VDNT@currentYPos);
\foreach \k in{0,1,...,\VDNT@dotsNum}{
\VDNT@currentXPos=\dimexpr\VDNT@Xinterval*\k\relax
\draw[#3,line width=\noteLineWidth] (\VDNT@currentXPos,\
    \VDNT@Yinterval) -- (\VDNT@currentXPos,\VDNT@Yinterval*#1)
    ;
\fill[#3] (\VDNT@currentXPos,\VDNT@currentYPos) circle [
    radius=\dotsRadius];
}
}
\fill[#3] (\VDNT@Xinterval*\VDNT@dotsNum/2,\VDNT@currentYPos-\\
    \VoD@mag*4pt) -- ++(\VoD@mag*3pt,\VoD@mag*4pt) -- ++(-\
    \VoD@mag*6pt,0) -- cycle;      %
\end{tikzpicture}%
\egroup
\par
}

\endinput

```