keisennote Package Documentation

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Version 1.0.4 (2025/10/04)

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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
- zref, zref-savepos, fp
- kvoptions

Load the package:

\usepackage{keisennote}

3 Commands

$3.1 \setminus notefill$

\notefill[<color>]

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

Example:

\notefill[green]

$3.2 \setminus note$

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

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

• (mandatory, integer ≥ 2): number of ruled lines.

•	<color></color>	(optional,	default:	white!70!black): colo	or of	lines	and	dots.
---	-----------------	------------	----------	----------------	---------	-------	-------	-----	-------

Example:

\note{5}[NavyBlue]

This produces the following output.



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

3.3 \masumefill

\masume[<color>]

Fills the current vertical space with grids and dots.

• <color> (optional, default: white!70!black): color of lines and dots.

Example:

\notefill[Gray]

3.4 \masume

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

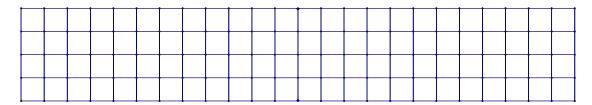
Typesets a short grid block with a specified number of lines.

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

Example:

\masume{5} [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:

\SetNoteLineWidth You can set the width of note lines: \SetNoteLineWidth [2mm]

\SetNoteDotRadius You can set the radius of dots. : \SetNoteDotRadius[1pt]

\SetNoteLineDistance You can set the distance between each lines.

: \SetNoteLineDistance[7mm]

\SetNoteTriangleSize You can set the size of triangles. : \SetNoteTriangleSiz[1pt]

If no argument is given, the parameter is reset to its default value.

5 Examples

5.1	Short	Note	Block
5.1	Short	Note	Block

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•	-	-		-	•	•	•	•	•	-		•	•	•		•		•	•	•	•	•	
•	•	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	••	
•		•	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•				

\notefill	
	-
	-

6 License

Released under the LaTeX Project Public License (LPPL) 1.3c.

7 Version History

- v1.0.0 (2025/09/13) Initial public release.
- v1.0.3~(2025/09/13) KKTeX added \masume and \masumefill.
- v1.0.4~(2025/10/4) KKTeX fixed the problem in \masumefill and added some package options and setting commands.

8 Source Code

```
\ProvidesPackage{keisennote}[2025/10/04, v1.0.4]
\RequirePackage[dvipsnames, svgnames, x11names]{xcolor}
\RequirePackage{zref, zref-savepos, fp}
\RequirePackage{tikz}
\RequirePackage{kvoptions}
\SetupKeyvalOptions{%
 family=kn,%
 prefix=kn0%
\newdimen\noteLineWidth
\noteLineWidth=.5truept
\newdimen\dotsRadius
\dotsRadius=.8truept
\newdimen\noteLineDistance
\noteLineDistance=6truemm
\newdimen\VoD@mag
\VoD@mag=.5pt
%%%
\DeclareStringOption[.5truept]{linewidth}%
\DeclareStringOption[.8truept]{radius}%
\DeclareStringOption[6truemm]{distance}%
\DeclareStringOption[.5pt]{triangle}%
\ProcessKeyvalOptions* %
%%%
\setlength{\noteLineWidth}{\kn@linewidth}
\setlength{\dotsRadius}{\kn@radius}
\setlength{\noteLineDistance}{\kn@distance}
\setlength{\VoD@mag}{\kn@triangle}
%%%
```

```
\setlength{\noteLineWidth}{#1}
\NewDocumentCommand{\SetNoteDotRadius}{O{.8truept}}{%
 \setlength{\dotsRadius}{#1}
\NewDocumentCommand{\SetNoteLineDistance}{O{6truemm}}{%
 \setlength{\noteLineDistance}{#1}
\NewDocumentCommand{\SetNoteTriangleSize}{0{.5pt}}{%
 \setlength{\VoD@mag}{#1}
%%%
\newdimen\VDNT@currentXPos
\newdimen\VDNT@currentYPos
\newdimen\VDNT@Xinterval
\newdimen\VDNT@Yinterval
\newdimen\VDNT@notegoal
%%% \
            notefill
\def\VDNT@pkgname{vodnote}
\global\newcount\VDNT@uniqe
%%% \notefill
\NewDocumentCommand{\notefill}{ O{\white!70!black} }{\par\bgroup
 \parindent\z@
 %%
 \@tempcnta\linewidth
 \@tempcntb\noteLineDistance
 \FPeval\VDNT@dotsNum{round(((\the)\@tempcnta/(\the)\@tempcntb
    )/2:0)*2:0)}%
 \VDNT@Xinterval\dimexpr(\linewidth)/\VDNT@dotsNum\relax
 \VDNT@Yinterval\VDNT@Xinterval
 \zsaveposy{\VDNT@pkgname.\the\VDNT@uniqe.TopPos}%
 \leavevmode\vfill\leavevmode
 \zsaveposy{\VDNT@pkgname.\the\VDNT@uniqe.BottomPos}%
 %%
```

\NewDocumentCommand{\SetNoteLineWidth}{O{.5truept}}{%

```
\VDNT@notegoal=\dimexpr
   \zposy{\VDNT@pkgname.\the\VDNT@uniqe.TopPos}sp
   -\zposy{\VDNT@pkgname.\the\VDNT@uniqe.BottomPos}sp
 \relax
 %%
 \noindent\smash{%
   \begin{tikzpicture}[xscale=0.996]
     \VDNT@currentYPos\z@
     \fill[#1] (\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[#1,line width=\noteLineWidth] (0,\VDNT@currentYPos) --
          (\linewidth,\VDNT@currentYPos);
      \foreach \k in{0,1,...,\VDNT@dotsNum}{%
        \VDNT@currentXPos=\dimexpr\VDNT@Xinterval*\k\relax
        \fill[#1] (\VDNT@currentXPos,\VDNT@currentYPos) circle [
            radius=\dotsRadius];
      }
      \advance\VDNT@currentYPos\VDNT@Yinterval\relax
     }
     \fill[#1] (\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@uniqe\@ne
 \par
}
%%% \note
\NewDocumentCommand{\note}{ m O{white!70!black} }{\par\bgroup
 \@tempcnta\linewidth
 \@tempcntb\noteLineDistance
 \FPeval\VDNT@dotsNum{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[#2] (\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[#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];
      }
    }
    \fill[#2] (\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{\white!70!black} }{\par\bgroup
 \parindent\z@
 %%
 \@tempcnta\linewidth
 \@tempcntb\noteLineDistance
 \FPeval\VDNT@dotsNum{round(((\the)\@tempcnta/(\the)\@tempcntb
     )/2:0)*2:0)}%
 \VDNT@Xinterval\dimexpr(\linewidth)/\VDNT@dotsNum\relax
 \VDNT@Yinterval\VDNT@Xinterval
 \zsaveposy{\VDNT@pkgname.\the\VDNT@uniqe.TopPos}%
 %%
 \leavevmode\vfill\leavevmode
 \zsaveposy{\VDNT@pkgname.\the\VDNT@uniqe.BottomPos}%
```

%%

```
%%
 \VDNT@notegoal=\dimexpr
   \zposy{\VDNT@pkgname.\the\VDNT@uniqe.TopPos}sp
   -\zposy{\VDNT@pkgname.\the\VDNT@uniqe.BottomPos}sp
 \relax
 %%
 \noindent\smash{%
   \begin{tikzpicture}[xscale=0.996]
     \VDNT@currentYPos\z@
     \fill[#1] (\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[#1,line width=\noteLineWidth] (0,\VDNT@currentYPos) --
          (\linewidth,\VDNT@currentYPos);
      \foreach \k in{0,1,...,\VDNT@dotsNum}{%
        \VDNT@currentXPos=\dimexpr\VDNT@Xinterval*\k\relax
        \draw[#1,line width=\noteLineWidth]
        (\VDNT@currentXPos,0) -- (\VDNT@currentXPos,\
            VDNT@currentYPos);
        \fill[#1] (\VDNT@currentXPos,\VDNT@currentYPos) circle [
            radius=\dotsRadius];
      \advance\VDNT@currentYPos\VDNT@Yinterval\relax
     }
     \fill[#1] (\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@uniqe\@ne
 \par
}
\NewDocumentCommand{\masume}{ m O{white!70!black} }{\par\bgroup
 %%
 \@tempcnta\linewidth
 \@tempcntb\noteLineDistance
 \FPeval\VDNT@dotsNum{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[#2] (\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[#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,\
            VDNT@Yinterval) -- (\VDNT@currentXPos,\VDNT@Yinterval*#1)
        \fill[#2] (\VDNT@currentXPos,\VDNT@currentYPos) circle [
            radius=\dotsRadius];
      }
     }
     \fill[#2] (\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
```