

keisenote Package Documentation

KKTeX

Version 1.0.0 (2025/09/13)

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

Dependencies:

- `xcolor` (options: `dvipsnames`, `svgnames`, `x11names`)
- `tikz` (libraries: `shapes`, `positioning`, ...etc.)
- `xparse`, `calc`, `ifthen`
- `fp`
- `zref-savepos` (required for `\notefill`)

Load the package:

```
\usepackage{keisenote}
```

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>]`

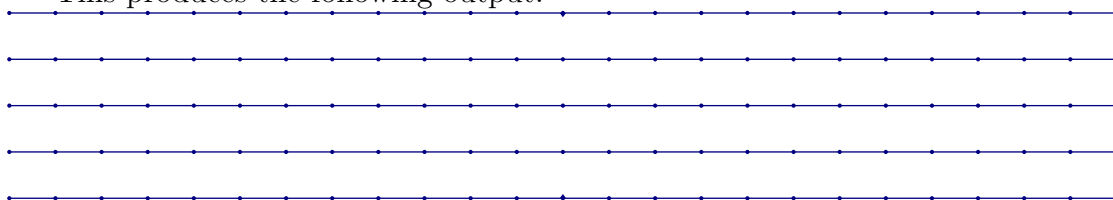
Typesets a short ruled block with a specified number of lines.

- `<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.



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

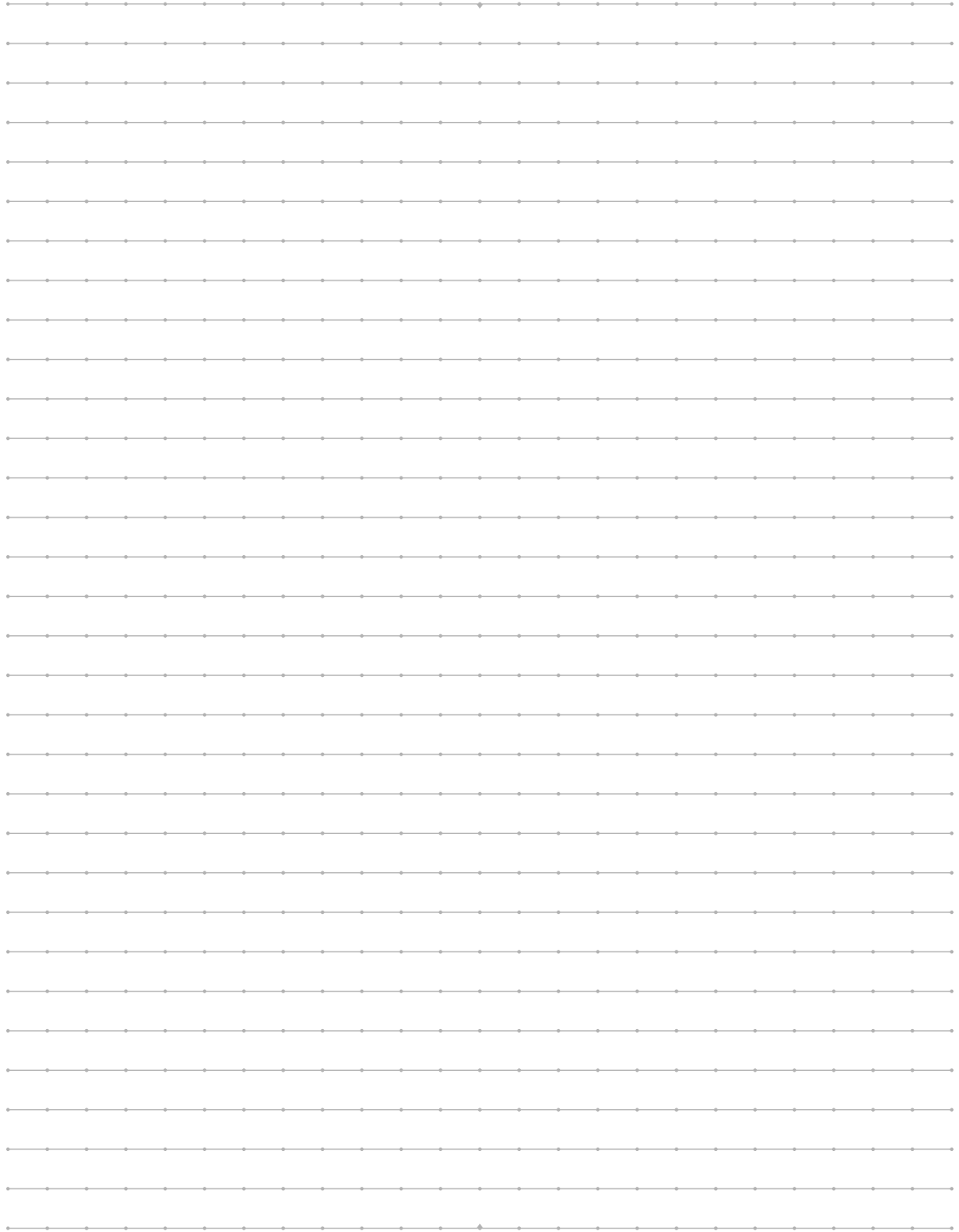
5.1 Short Note Block

```
\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.

9 Source Code

```
\ProvidesPackage{keisennote}[2025/09/13, v1.0.0]

\RequirePackage[dvipsnames, svgnames, x11names]{xcolor}
\RequirePackage{tikz}
\usetikzlibrary{shapes, positioning, shadows, shadows.blur, patterns,
  decorations.text, decorations.pathmorphing, arrows.meta, calc,
  snakes, intersections}
\RequirePackage{xparse, calc, ifthen}\RequirePackage{fp}

\newdimen\inv@mag
\inv@mag=.5pt
\newdimen\noteLineWidth
\newdimen\dotsRadius
\newdimen\noteLineDistance
\noteLineWidth.5truept\relax%
\dotsRadius.8truept\relax%
\noteLineDistance=6truemm\relax%

%%%
\newdimen\VDNT@currentXPos
```

```

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

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

%%%
\NewDocumentCommand{\notefill}{ 0{.5pt} 0{white!70!black} }{\par\
  bgroup
  \inv@mag=#1
  \parindent\z@
  %%
  \@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
  %%
  \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+\
    inv@mag*4pt) -- ++(\inv@mag*3pt,-\inv@mag*4pt) -- ++(-\
    inv@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-\inv@mag*4pt) -- ++(\inv@mag*3pt,\inv@mag*4pt
) -- ++(-\inv@mag*6pt,0) -- cycle;
\end{tikzpicture}%
}%
\egroup
%%
\global\advance\VDNT@unique\@ne
\par
}

```

```

%%%
\NewDocumentCommand{\note}{ m 0{.5pt} 0{white!70!black} }{\par\bgroup
%%
\inv@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+\inv@mag*4pt) -- ++(\inv@mag*3pt,-\inv@mag*4
pt) -- ++(-\inv@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-\
    inv@mag*4pt) -- ++(\inv@mag*3pt,\inv@mag*4pt) -- ++(-\
    inv@mag*6pt,0) -- cycle;
\end{tikzpicture}%
\egroup
\par
}

```