

The mindflow package

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1 Introduction

The mindflow package provides you a way to write your ideas, annotations or writing plans. For example (with option `linenumber` and `rightmarker`):

1	What to write next:	*
2	• usage;	*
3	• some internal macros;	*
4	• the complete code.	*

2 Usage

Simply load the package with `\usepackage{mindflow}`. By default it has no line numbers or markers. You can use the following options:

<code>linenumber</code>	Enable line numbers
<code>leftmarker</code>	Enable left marker, by default it is a “*”
<code>rightmarker</code>	Enable right marker, by default it is a “*”
<code>off</code>	Hide all the mindflow environments

`mindflow` Then you can use the mindflow environment as

```
\begin{mindflow}
...
\end{mindflow}
```

3 Some technical details

`\mindflowFont`
`\mindflowNumFont` The font for texts and line numbers within the mindflow environments can be specified by redefining `\mindflowFont` and `\mindflowNumFont`. By default they are defined as:

```
\newcommand{\mindflowFont}{\normalfont\footnotesize}
\newcommand{\mindflowNumFont}{\normalfont\scriptsize\ttfamily}
```

`\mindflowLeft`
`\mindflowRight` The left and right marker can be changed by redefining `\mindflowLeft` and `\mindflowRight`. Both have the default value as “*”.

And finally, the color of mindflow environments is called `mindflow`. By default, it is the current text color with opacity 30%.

4 Implementation

Below is the complete source code of this package.

```
1 \RequirePackage{kvoptions}
2 \SetupKeyvalOptions{%
3   family = @mindflow,
4   prefix = @mindflow@
5 }
6 \DeclareBoolOption[false]{off}           % Turn off mindflow
7 \DeclareBoolOption[false]{leftmarker}    % Left marker
8 \DeclareBoolOption[false]{rightmarker}   % Right marker
9 \DeclareBoolOption[false]{linenumber}    % Line numbers
10
11 \ProcessKeyvalOptions*\relax
12
13 %%=====
14 %% Initialization
15 %%=====
16 \newcommand{\mindflowFont}{\normalfont\footnotesize}
17 \newcommand{\mindflowNumFont}{\normalfont\scriptsize\ttfamily}
18
19 \RequirePackage{lineno}
20 \RequirePackage{xcolor}
21
22 \colorlet{mfSavedColor}{.}
23 \colorlet{mindflow}{mfSavedColor!30}
24
25 \newcommand{\mindflowLeft}{%
26   \if@mindflow@leftmarker%
27     {*}%
28   \fi%
29 }
30 \newcommand{\mindflowRight}{%
31   \if@mindflow@rightmarker%
32     {*}%
33   \fi%
34 }
35
36 %%=====
37 %% The mindflow environment
38 %%=====
39 \newif\ifLNturnsON
40
41 \newcommand*{\mfSepLine}{%
42   \parskip=0pt
43   \LNturnsONfalse%
44   \ifLineNumbers\LNturnsONtrue\fi\nolinenumbers%
45   \par\noindent\nopagebreak%
46   \makebox[\linewidth]{\rule{\paperwidth}{0.4pt}}%
47   \nopagebreak\par%
48   \ifLNturnsON\linenumbers\fi%
49 }
```

```

50
51 \newcounter{recordLN}
52 \newcounter{mfLN}
53 \setcounter{mfLN}{1}
54
55 \if@mindflow@off
56   \RequirePackage{verbatim}
57   \let\mindflow=\comment
58   \let\endmindflow=\endcomment
59 \else
60   \newenvironment{mindflow}
61   {%
62     \setcounter{recordLN}{\value{linenumber}}
63     \setcounter{linenumber}{\value{mfLN}}
64     \LNturnsONfalse%
65     \ifLineNumbers\LNturnsONtrue\fi\nolinenumbers%
66     \mindflowFont\color{mindflow}%
67     \mfSepLine%
68     \linenumbers%
69     \renewcommand\makeLineNumber{%
70       \hss\color{mindflow!25}%
71       \if@mindflow@linenumber%
72       \mindflowNumFont\LineNumber~%
73       \fi%
74       \mindflowLeft\hspace{1em}\rlap{\hskip\textwidth\hspace{1em}\mindflowRight}%
75     }%
76   }
77   {%
78     \par%
79     \vspace{-.5\baselineskip}\mfSepLine%
80     \ifLNturnsON\linenumbers\fi%
81     \setcounter{mfLN}{\value{linenumber}}
82     \setcounter{linenumber}{\value{recordLN}}
83   }
84 \fi

```