

# The knowledge-card L<sup>A</sup>T<sub>E</sub>X class

This is the documentation of the `knowledge-card` L<sup>A</sup>T<sub>E</sub>X class<sup>1</sup>, which is a custom subclass of the `tufte-latex` class<sup>2</sup>. The code of this card can be used as a template when writing new cards.

<sup>1</sup> <https://github.com/mariomerino-martinez/knowledge-cards>

<sup>2</sup> <https://ctan.org/pkg/tufte-latex>

## Card definition

Define a new card type in the **preamble** with

```
\newcardtype{card type}{R, G, B}
```

where **R,G,B** range from 0 to 255 and define the color of the card. Then, after `\begin{document}`, declare a new card with

```
\card{card type}{card label}{card title}{date}{card URL}
  <your text goes here>
\newpage ~ % Put this only if card is one page
```

The **card URL** is used to format the QR code in the back page of the card. The variable `\cardtype` is set automatically after the card declaration and can be used to refer to the card color. Cards only accept `\section` and `\subsection` for sectioning.

## Text styles

- `\bb`: bold colored font.
- `\ii`: italic colored font.
- `\cc`: typewriter colored font.
- `\link{link text}{address}`: colored link. Use `mailto:` to create a link to an email address.
- `\cardlink{card type}{link text}{address}`: colored link to another card, of type **card type**.

## Using the margin

Side notes and references:

- `\sidenote[<number>][<offset>]{text}`: numbered side note.
- `\marginnote[<offset>]{text}`: unnumbered side note.
- `\cite[<offset>]{bibkey1,bibkey2,...}`: cite references in bibtex file.

Figures and tables:

```
\begin{marginfigure}[<offset>]
  \begin{center}
    \includegraphics{figurefile}
  \end{center}
  \caption{text}
  \label{figlabel}
\end{marginfigure}
```

`\newcardtype`

`\card`

`\cardtype`

`\bb, \ii, \cc`

`\link, \cardlink`

`\sidenote, \marginnote`

`\cite`

`\marginfigure, \margintable`

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Figure 1: Example of margin figure.

The optional `offset` argument above moves the margin object up (e.g. `+1cm`) or down (e.g. `-1cm`), useful if there are overlaps with other margin objects. The optional `number` argument in `\sidenote` changes the default side note number. To give an offset but leave the number unchanged, use `\sidenote[<offset>]{text}`. To be able to cite references, load the bibtex database somewhere before `\end{document}` with `\nobibliography{bibfile}`. With figures and tables, the caption and label are optional.

To create text, a figure, or a table that **spans the main text area and the margin**, use the `fullwidth`, `figure*` and `table*` environments. Figures and tables in the main text area are made with the standard `figure` and `table` environments.

`\fullwidth, \figure*, \table*`

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Figure 2: Example figure.

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Figure 3: Example figure\*.

