I Use cases in LATEX

Documenting a package or class is best done through use cases showing both the code and the corresponding result. 1

1 "Inline" codes

Example I.1 (Standard usage). The \tdoclatexin macro² can be used to type code in line in a similar way to \verb, or as a standard macro (see the handling of braces in the latter case below). Here are some examples of use.³

Example I.2 (Possible options). As the \tdoclatexin macro is based on minted, you can use all the options taken into account by minted. Here are some examples.

```
The \tdoclatexin macro can be used in a footnote: see below.a

asminted = TOP$ has been typed \tdoclatexin+$minted = TOP$+ in this footnote.
```

2 Directly typed codes

Example I.3 (Face to face). Displaying a code and its rendering side by side is done as follows where the macro \tdoctcb allows you to just type tdoctcb{sbs} instead of listing side text (sbs is for "s·ide b·y s·ide", while tcb is the standard abbreviation for tcolorbox). Note the use of rafters, not square brackets (more on this later).

```
\begin{tdoclatex} < \tdoctcb{sbs} > $\ \frac{s}{tdoclatex} \end{tdoclatex}$
```

This gives:

 $^{^{1}\}mathrm{Code}$ is formatted using the minted and tcolorbox packages.

²The name of the macro \tdoclatexin comes from "in·line LATEX".

 $^{^3\}mathrm{A}$ background colour is deliberately used to subtly highlight the \LaTeX codes.

```
<\tdoctcb{sbs}>
A = B + C

<sbs> A = B + C
```

■ End of the real output ■

Example I.4 (Following). \begin{tdoclatex}...\end{tdoclatex} produces the following result (this default setting is also obtained by using \tdoctcb{std}).4

```
A = B + C
A = B + C
```

Example I.5 (Just the code). Via \tdoctcb{code}, we'll just get the code as below.

Example I.6 (Customise). The tdoclatex environment accepts two types of optional argument.

- 1. Between classic square brackets, you can use any option taken into account by minted.
- 2. Between rafters, you can use any option taken into account by the environments obtained via tcolorbox. For example, the following modifications can be made if required.⁵

This gives:

Start of the real output

[■] End of the real output ■

⁴std refers to the "standard" behaviour of tcolorbox in relation to the minted library.

⁵This documentation uses the options between rafters to obtain correct rendering of code producing shaded frames: see the section ?? on page ??.

& Warning. To obtain the default formatting for a code beginning with a bracket or a rafter, you'll need to do a bit of fiddling, as shown below. \begin{tdoclatex}[] [Strange... Or not!] \end{tdoclatex} \begin{tdoclatex}<> \string<Strange... Or not!> \end{tdoclatex} This gives: Start of the real output [Strange... Or not!] [Strange... Or not!] OR. \string<Strange... Or not!> <> < Strange... Or not! >■ End of the real output ■ Another method is to use the \string primitive, as shown below. \begin{tdoclatex} \string[Strange... Or not!] \end{tdoclatex} $\begin{tdoclatex}$ \string<Strange... Or not!> \end{tdoclatex} This gives: Start of the real output [Strange... Or not!] [Strange... Or not!] OR. <Strange... Or not!> $<\!\!Strange...\ Or\ not!\!\!>$ ■ End of the real output ■