

I. Use cases in L^AT_EX

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

1: <code>\tdoclatexin/\$a^b = c\$</code>	1: $a^b = c$
2: <code>\tdoclatexin+\tdoclatexin/\$a^b = c\$/+</code>	2: <code>\tdoclatexin/\$a^b = c\$</code>
3: <code>\tdoclatexin{\tdoclatexin{\$a^b = c\$}}</code>	3: <code>\tdoclatexin{\$a^b = c\$}</code>

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.

1: <code>\tdoclatexin{\$a^b = c\$}</code>	1: $a^b = c$
2: <code>\tdoclatexin[style = bw]{\$a^b = c\$}</code>	2: $a^b = c$
3: <code>\tdoclatexin[style = igor, showspaces]{\$a^b = c\$}</code>	3: $a^b_{_} = _c$

Note.

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

^a`$minted = TOP$` 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**·**i**de **b**·**y** **s**·**i**de”, while *tcb* is the standard abbreviation for *tcolorbox*). Note the use of rafters, not square brackets (more on this later).

<code>\begin{tdoctx}<\tdoctx{sbs}></code> $A = B + C$ <code>\end{tdoctx}</code>

This gives :

$A = B + C$	$A = B + C$
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Example I.4 (Following). `\begin{tdoctx}... \end{tdoctx}` produces the following result (this default setting is also obtained by using `\tdoctx{std}`).⁴

$A = B + C$
<hr/>
$A = B + C$

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

$A = B + C$

Example I.6 (Customise). The `tdoctx` 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`.

¹Code is formatted using the `minted` and `tcolorbox` packages.

²The name of the macro `\tdoclatexin` comes from “*in·line* L^AT_EX”.

³A background colour is deliberately used to subtly highlight the L^AT_EX codes.

⁴`std` refers to the “*standard*” behaviour of `tcolorbox` in relation to the `minted` library.

For example, the following modifications can be made if required.⁵

```
\begin{tdoclatex}%
  [linenos, style = igor]%
  <\tdoctcb{sbs},
  attach boxed title to top left = {yshift = -9pt},
  fonttitle                      = \bfseries,
  title                          = Local modifications,
  top                            = 10pt>
% Sometimes useful, but don't overuse it!
$A = B + C$
% End of this demonstration.
\end{tdoclatex}
```

This gives :

Local modifications

<pre>1 % Sometimes useful, but don't overuse it! 2 \$A = B + C\$ 3 % End of this demonstration.</pre>	$A = B + C$
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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}
OR.
\begin{tdoclatex}<>
\string<Strange... Or not!>
\end{tdoclatex}
```

This gives :

[Strange... Or not!]
[Strange... Or not!]

OR.

\string<Strange... Or not!>
<Strange... Or not!>

Another method is to use the `\string` primitive, as shown below.

```
\begin{tdoclatex}
\string[Strange... Or not!]
\end{tdoclatex}
OR.
\begin{tdoclatex}
\string<Strange... Or not!>
\end{tdoclatex}
```

This gives :

[Strange... Or not!]
[Strange... Or not!]

OR.

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

<Strange... Or not!>

<Strange... Or not!>