I Presenting computer code

Some packages offer functions that require to code a little in Lua.¹ For these projects, the documentation must be able to present lines of code; this is why tutodoc makes it easy to do this, and much more.²

✓ Important.

The tools in this section can also be used to present LATEX code, but they should not be used for simple use cases, as the macros and environments presented next are for studying code, not just for using it: see the section ?? on page ?? to use the right tools for formatting LATEX use cases.

1 "Inline" codes

The \tdoccodein macro expects two arguments: the 1st indicates the programming language, and the 2nd gives the code to be formatted. It is possible to use an option identical to that proposed by \tdoclatexin: see the section ?? on page ??. Here are some possible use cases.³

i Note.

2 Codes typed directly

Code can be typed directly into a document via \begin{tdoccode} ...\end{tdoccode} which expects an argument indicating the programming language, and any options between parenthesis and/or square brackets identical to those offered by \begin{tdoclatex} ...\end{tdoclatex}: see the section ?? on page ??. In the following examples, the LaTeX codes for tutodoc are displayed in verbatim mode because the coloring of LaTeX codes is not correct.

Example I.1 (Standard Operation).

```
\begin{tdoccode}{pl}
print "Who are you? ";
my $name = <STDIN>;

chomp($name);

if ($name eq "") {
    print "Ah, not very chatty today!";
} else {
    print "Hello $name";
    print "Amazing! Actually, not at all...";
} \end{tdoccode}
```

¹For mathematics, these include luacas and tkz-elements.

²As code formatting is done via the packages minted and tcolorbox, the macros and environments presented in this section allow code to be formatted in all the languages supported by Pygments, a Python project used behind the scenes by minted.

³A background color is deliberately used to subtly highlight the formatted codes. For example, typing tdoccodein{py}{funny = "ah"*3} will produce pyfunny = "ah"*3.

```
pl print "Who are you? "; my name =< STDIN >;
chomp(name);
if (nameeq"")print"Ah, notverychattytoday!";
else print "Hello name"; print"Amazing!Actually, notatall...";
```

Example I.2 (One-off rendering customisation).