`mcode.sty` Demo

Florian Knorn, `florian@knorn.org`

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Installation of the package

As with any other small package, just place the `mcode.sty` file in the same folder as your document, or put it somewhere where LaTeX can find it. Done!

Usage — 3 ways

1) This inline demo `for i=1:3, disp('cool'); end;` uses the `\mcode{}` command.[1]

2) The following is a block using the `lstlisting` environment.

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[1] Works also in footnotes: `for i=1:3, disp('cool'); end;`

```matlab
1  for i = 1:3
2      if i >= 5 && a ~= b        % literate programming replacement
3          disp('cool');          % comment with some LaTeXin it:  πx²
4      end
5      [:,ind] = max(vec);
6      x_last = x(1,end) - 1;
7      v(end);
8      really really long really really long really really long ...
            really really long really really long line % blaaaaaaaa
9      ylabel('Voltage (µV)');
10 end
```

Listing 1: Das ist ein Matlabtext

Note: Here, the package was loaded with the `framed`, `numbered`, `autolinebreaks` and `useliterate` options. **Please see the top of mcode.sty for a detailed explanation of these options.**

3) Finally, you can also directly include an external m-file from somewhere on your hard drive (the very code you use in MATLAB, if you want) using the `\lstinputlisting{/SOME/PATH/FILENAME.M}` command. If you only want to include certain lines from that file (for instance to skip a header), you can use `\lstinputlisting[firstline=6, lastline=15]{/SOME/PATH/FILENAME.M}`.

FAQ

Why does `delta` get replaced by Δ, `~=` by $\neq$, etc.? Well, that's precisely what the `useliterate` option does. If you don't want that, don't use it.

Can I get contiguous line numbers from one code block to another? Yes, but you have to read the `listings` documentation for that (Section 4.8 in particular).

mcode.sty doesn't work in my document! Well, try your (Matlab) code fragment in this demo document here to see whether there's something in it that might be causing a problem (not so likely, but possible), or if there's some conflict between the `listings` package and some other package you have loaded.

Is feature XYZ possible? Well, the `listings` package might already be able to do that. Please consult its documentation (see red box at the top)!