`mcode.sty` Demo

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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;`

```
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 ...
9           really really long really really long line % blaaaaaaaa
10      ylabel('Voltage (μV)');
11  end
```

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)!