

# mcode.sty Demo

Florian Knorn, [florian@knorn.org](mailto:florian@knorn.org)

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## NOTE

All that this package does, is configure the `listings` package for you. If anything is not working the way you want it, refer to the `listings` documentation first and a look at the `mcode.sty` file itself, which is well documented internally.

## Installation of the package

As with any other package, just place the `mcode.sty` file in the same folder as your document, or put it somewhere where  $\text{\LaTeX}$  can find it. That's all!

## Usage — 3 ways

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

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

```
1  for i = 1:3
2      if i ≥ 5                                % literate programming replacement
3          disp('cool');                        % comment with some  $\text{\LaTeX}$  in it:  $\pi x^2$ 
4      end
5      [r, ind] = max(vec);
6      x_last = x(1, end);
7      v(end);
8      really really long really really long really really long ...
        really really long really really long line % blaiaaaaaaa
9  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}`.

Florian (florian@knorn.org)