

mcode.sty Demo

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NOTE — BEFORE YOU START

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

The `listings` documentation can be accessed either by typing `texdoc listings` into a command prompt on your system, or online:

<http://mirrors.ctan.org/macros/latex/contrib/listings/listings.pdf>

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 L^AT_EX 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.

¹Works 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  $\LaTeX$  in it:  $\pi x^2$ 
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 ( $\mu V$ )');
11 end
12 for i = 1:3
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1076     x_last = x(1,end) - 1;
1077     v(end);
1078     really really long really really long really really long ...
1079         really really long really really long line % blaaaaaaaa
1079 ylabel('Voltage ( $\mu V$ )');
1080 end
1081 for i = 1:3
1082     if i ≥ 5 && a ≠ b           % literate programming replacement
1083         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1084     end
1085     [:,ind] = max(vec);
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1087     v(end);
1088     really really long really really long really really long ...
1089         really really long really really long line % blaaaaaaaa

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1089 ylabel('Voltage ( $\mu$ V)');
1090 end
1091 for i = 1:3
1092     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1093         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1094     end
1095     [ind] = max(vec);
1096     x_last = x(1,end) - 1;
1097     v(end);
1098     really really long really really long really really long ...
1099     really really long really really long line % blaaaaaaaa
1100     ylabel('Voltage ( $\mu$ V)');
1101 end
1102 for i = 1:3
1103     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1104         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1105     end
1106     [ind] = max(vec);
1107     x_last = x(1,end) - 1;
1108     v(end);
1109     really really long really really long really really long ...
1110     really really long really really long line % blaaaaaaaa
1111     ylabel('Voltage ( $\mu$ V)');
1112 end
1113 for i = 1:3
1114     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1115         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1116     end
1117     [ind] = max(vec);
1118     x_last = x(1,end) - 1;
1119     v(end);
1120     really really long really really long really really long ...
1121     really really long really really long line % blaaaaaaaa
1122     ylabel('Voltage ( $\mu$ V)');
1123 end
1124 for i = 1:3
1125     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1126         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1127     end
1128     [ind] = max(vec);
1129     x_last = x(1,end) - 1;
1130     v(end);
1131     really really long really really long really really long ...
1132     really really long really really long line % blaaaaaaaa
1133     ylabel('Voltage ( $\mu$ V)');
1134 end
1135 for i = 1:3
1136     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1137         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
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1139     [ind] = max(vec);
1140     x_last = x(1,end) - 1;
1141     v(end);
1142     really really long really really long really really long ...
1143     really really long really really long line % blaaaaaaaa
1144     ylabel('Voltage ( $\mu$ V)');
1145 end

```

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1141 for i = 1:3
1142     if i ≥ 5 && a ≠ b           % literate programming replacement
1143         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
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1161 for i = 1:3
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1190 end
1191 for i = 1:3
1192     if i ≥ 5 && a ≠ b           % literate programming replacement

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1193     disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1194 end
1195 [~,ind] = max(vec);
1196 x_last = x(1,end) - 1;
1197 v(end);
1198 really really long really really long really really long ...
1199     really really long really really long line % blaaaaaaaa
1199 ylabel('Voltage ( $\mu V$ )');
1200 end
1201 for i = 1:3
1202     if i ≥ 5 && a ≠ b           % literate programming replacement
1203         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1204     end
1205     [~,ind] = max(vec);
1206     x_last = x(1,end) - 1;
1207     v(end);
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1209         really really long really really long line % blaaaaaaaa
1209     ylabel('Voltage ( $\mu V$ )');
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1213         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
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1241 for i = 1:3
1242     if i ≥ 5 && a ≠ b           % literate programming replacement
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1244     end

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1245     [:,ind] = max(vec);
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1297     v(end);
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1299     really really long really really long line % blaaaaaaaa
1300     ylabel('Voltage ( $\mu V$ )');
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1302 for i = 1:3
1303     if i ≥ 5 && a ≠ b           % literate programming replacement
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1311     ylabel('Voltage ( $\mu V$ )');
1312 end
1313 for i = 1:3
1314     if i ≥ 5 && a ≠ b           % literate programming replacement
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1341     v(end);
1342     really really long really really long really really long ...

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        really really long really really long line % blaaaaaaaa
1349 ylabel('Voltage ( $\mu V$ )');
1350 end
1351 for i = 1:3
1352     if i ≥ 5 && a ≠ b          % literate programming replacement
1353         disp('cool');          % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
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        really really long really really long line % blaaaaaaaa
1399 ylabel('Voltage ( $\mu V$ )');

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1400 end
1401 for i = 1:3
1402     if i ≥ 5 && a ≠ b           % literate programming replacement
1403         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
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1410 end
1411 for i = 1:3
1412     if i ≥ 5 && a ≠ b           % literate programming replacement
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1414     end
1415     [:,ind] = max(vec);
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1450 end
1451 for i = 1:3

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1452     if i ≥ 5 && a ≠ b           % literate programming replacement
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1501 for i = 1:3
1502     if i ≥ 5 && a ≠ b           % literate programming replacement
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1504     end
1505     [i,ind] = max(vec);
1506     x_last = x(1,end) - 1;
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1556     x_last = x(1,end) - 1;
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1601 for i = 1:3
1602     if i ≥ 5 && a ≠ b           % literate programming replacement
1603         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1604     end
1605     [:,ind] = max(vec);
1606     x_last = x(1,end) - 1;
1607     v(end);

```



```

1608     really really long really really long really really long ...
1609         really really long really really long line % blaaaaaaaa
1609     ylabel('Voltage ( $\mu V$ )');
1610 end
1611 for i = 1:3
1612     if i ≥ 5 && a ≠ b           % literate programming replacement
1613         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1614     end
1615     [:,ind] = max(vec);
1616     x_last = x(1,end) - 1;
1617     v(end);
1618     really really long really really long really really long ...
1619         really really long really really long line % blaaaaaaaa
1619     ylabel('Voltage ( $\mu V$ )');
1620 end
1621 for i = 1:3
1622     if i ≥ 5 && a ≠ b           % literate programming replacement
1623         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1624     end
1625     [:,ind] = max(vec);
1626     x_last = x(1,end) - 1;
1627     v(end);
1628     really really long really really long really really long ...
1629         really really long really really long line % blaaaaaaaa
1629     ylabel('Voltage ( $\mu V$ )');
1630 end
1631 for i = 1:3
1632     if i ≥ 5 && a ≠ b           % literate programming replacement
1633         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1634     end
1635     [:,ind] = max(vec);
1636     x_last = x(1,end) - 1;
1637     v(end);
1638     really really long really really long really really long ...
1639         really really long really really long line % blaaaaaaaa
1639     ylabel('Voltage ( $\mu V$ )');
1640 end
1641 for i = 1:3
1642     if i ≥ 5 && a ≠ b           % literate programming replacement
1643         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1644     end
1645     [:,ind] = max(vec);
1646     x_last = x(1,end) - 1;
1647     v(end);
1648     really really long really really long really really long ...
1649         really really long really really long line % blaaaaaaaa
1649     ylabel('Voltage ( $\mu V$ )');
1650 end
1651 for i = 1:3
1652     if i ≥ 5 && a ≠ b           % literate programming replacement
1653         disp('cool');           % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1654     end
1655     [:,ind] = max(vec);
1656     x_last = x(1,end) - 1;
1657     v(end);
1658     really really long really really long really really long ...
1659         really really long really really long line % blaaaaaaaa

```

```

1659 ylabel('Voltage ( $\mu$ V)');
1660 end
1661 for i = 1:3
1662     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1663         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1664     end
1665     [i, ind] = max(vec);
1666     x_last = x(1, end) - 1;
1667     v(end);
1668     really really long really really long really really long ...
1669     really really long really really long line % blaaaaaaaa
1669     ylabel('Voltage ( $\mu$ V)');
1670 end
1671 for i = 1:3
1672     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1673         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1674     end
1675     [i, ind] = max(vec);
1676     x_last = x(1, end) - 1;
1677     v(end);
1678     really really long really really long really really long ...
1679     really really long really really long line % blaaaaaaaa
1679     ylabel('Voltage ( $\mu$ V)');
1680 end
1681 for i = 1:3
1682     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1683         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1684     end
1685     [i, ind] = max(vec);
1686     x_last = x(1, end) - 1;
1687     v(end);
1688     really really long really really long really really long ...
1689     really really long really really long line % blaaaaaaaa
1689     ylabel('Voltage ( $\mu$ V)');
1690 end
1691 for i = 1:3
1692     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1693         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1694     end
1695     [i, ind] = max(vec);
1696     x_last = x(1, end) - 1;
1697     v(end);
1698     really really long really really long really really long ...
1699     really really long really really long line % blaaaaaaaa
1699     ylabel('Voltage ( $\mu$ V)');
1700 end
1701 for i = 1:3
1702     if i  $\geq$  5 && a  $\neq$  b % literate programming replacement
1703         disp('cool'); % comment with some  $\LaTeX$  in it:  $\pi x^2$ 
1704     end
1705     [i, ind] = max(vec);
1706     x_last = x(1, end) - 1;
1707     v(end);
1708     really really long really really long really really long ...
1709     really really long really really long line % blaaaaaaaa
1709     ylabel('Voltage ( $\mu$ V)');
1710 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 `≠`, 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)!