


## Emacs support for M4 preprocessor

| Description                                                         | Keystroke                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Function                                                           | Note                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>The M4 preprocessor</b>                                          | Emacs has built-in support for the m4 preprocessor files: the <a href="#">m4-mode</a> .<br>PEL provides extra support once the  <b>pel-use-m4</b> user-option is turned on (set to t): <ul style="list-style-type: none"> <li>The following extra customization user-options to control M4 editing accessible via the <b>&lt;f11&gt; SPC 4 &lt;f2&gt;</b> key sequence or <b>&lt;f12&gt; &lt;f2&gt;</b> from within a M4 buffer once PEL support was activated:                             <ul style="list-style-type: none"> <li><b>pel-use-m4</b> : activates PEL extra M4 support.</li> <li><b>pel-m4-activates-minor-modes</b> : Specify extra minor modes automatically activated in M4 buffer. Defaults to none.</li> <li><b>pel-m4-tab-width</b> : Specify the value stored in the `tab-width' user-option in M4 buffer. Used to control the display rendering of hard tabs. Defaults to 4. For M4 that also corresponds to the indentation width when hard tabs are not used.</li> </ul> </li> <li><b>pel-use-tabs</b> : Specify whether hard tabs are inserted in M4 source code files. Off by defaults; inserting spaces instead of hard tabs.</li> </ul> |                                                                    |                                                                                                                                                                                                                                               |
| <b>Open this PDF file.</b><br>See also: <a href="#">🔗 Help/Info</a> | <b>&lt;f11&gt; SPC 4 &lt;f1&gt;</b><br><b>&lt;f12&gt; &lt;f1&gt;</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">(pel-help-pdf &amp;optional OPEN-WEB-PAGE)</a>         | Open the <b>🔗l - m4</b> local PDF. If the prefix argument (like <b>C-u</b> or <b>M--</b> ) is used, then it opens the remote GitHub hosted raw PDF instead. If the <b>pel-flip-help-pdf-arg</b> user-option is set it's the other way around. |
| <a href="#">🔗 Customize</a> PEL m4 support                          | <b>&lt;f11&gt; SPC 4 &lt;f2&gt;</b><br><b>&lt;f12&gt; &lt;f2&gt;</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">(pel-customize-pel &amp;optional OTHER-WINDOW)</a>     | Customize PEL m4 support <ul style="list-style-type: none"> <li>If OTHER-WINDOW is non-nil (use <b>C-u</b>), display in another window.</li> </ul>                                                                                            |
| <a href="#">🔗 Customize</a> Emacs m4 support                        | <b>&lt;f11&gt; SPC 4 &lt;f3&gt;</b><br><b>&lt;f12&gt; &lt;f3&gt;</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <a href="#">(pel-customize-library &amp;optional OTHER-WINDOW)</a> | Customize Emacs m4 support <ul style="list-style-type: none"> <li>If OTHER-WINDOW is non-nil (use <b>C-u</b>), display in another window.</li> </ul>                                                                                          |

### m4— References

| Document                                         | Notes                                                                                                                                                                                                                                                                |
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| <a href="#">m4 preproceoor</a>                   |                                                                                                                                                                                                                                                                      |
| <a href="#">m4 computer language @ Wikipedia</a> | Overview, history, features and implementations of m4.                                                                                                                                                                                                               |
| <a href="#">GNU M4 home page</a>                 | Provides links to: <ul style="list-style-type: none"> <li><a href="#">GNU m4 project page on savannah</a> <ul style="list-style-type: none"> <li><a href="#">GNU m4 download page</a></li> </ul> </li> <li><a href="#">m4 Git depot tree</a></li> </ul>              |
| <a href="#">GNU m4 manual</a>                    | Manual of m4 version 1.4.19                                                                                                                                                                                                                                          |
| <a href="#">Introductory material</a>            | The following document provide a good introduction to m4. Reading those before reading the manual helps. <ul style="list-style-type: none"> <li><a href="#">Notes on the M4 Macro Language</a> - Michael Breen © 2008 — Very well written.</li> </ul>                |
| <a href="#">Comments in m4 inputs</a>            | <ul style="list-style-type: none"> <li>Comments start with <code>#</code></li> <li>Comments are <b>not</b> discarded by m4 and show in m4 standard output</li> <li>Comments delimited can be changed at any time with the <a href="#">changecom macro</a></li> </ul> |
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| <a href="#">Emacs Support for m4</a>             |                                                                                                                                                                                                                                                                      |
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