

# PEL Topics Index

|   |              |  |  |  |   |  |   |
|---|--------------|--|--|--|---|--|---|
| Last updated on: 2025-01-11   |              | Note: with PEL, type <a href="#">&lt;f11&gt;</a> <a href="#">&lt;f1&gt;</a> to open this PDF index.  |  |  |   |  |   |
| <div>Emacs Reference Cards</div> <div>👉 With PEL, access these cards from Emacs with the <a href="#">&lt;f11&gt; ? e x</a> key sequence. See <a href="#">ℹ Help/Info</a> for more info.</div>   |              | These are links to the PDF version of official English version of the quick reference cards for <a href="#">GNU Emacs</a> and popular external packages. PEL documents Emacs key bindings as well, these cards provide useful complement to what PEL provides.   |  |  |   |  |   |
|   |              | Emacs  | Calc   | Gnus   | Magit Cheatsheet  | Org  | Viper   |
|   |              | Emacs survival card  | Dired  | Gnus booklet   | Magit Ref-card  |  | VIP   |
| <div>➤ PEL Overview</div> <div><ul style="list-style-type: none"><li>PEL repo</li><li>PEL Readme</li><li>PEL Manual</li><li>PEL NEWS📖</li><li>Discussions</li></ul></div>   |              | PEL license  |  | This table holds links to the <a href="#">PEL file tables</a> (hosted on Github as raw PDF files). <div>👉 For the best user experience, use a browser that can render PDF directly instead of downloading.<ul style="list-style-type: none"><li><a href="#">Mozilla Firefox</a> (version &gt; 78) does that perfectly. You may need to activate a plug-in for other browsers.</li><li>With that in place, you can browse through all the PDFs and reach a vast amount of information quickly.</li></ul></div> <div>👉 From within Emacs open this topic index PDF by typing the <a href="#">&lt;f11&gt; ? &lt;f1&gt;</a> key sequence. More help topics with <a href="#">&lt;f11&gt; ? p</a> keys.</div> <div>👉 The symbols, <b>colour coding</b> and various other conventions are described in the <a href="#">➤Legend</a> PDF.</div> |   |  |   |
| <div>Terminal Multiplexers:</div> <div><a href="#">GNU screen</a> , <a href="#">Tmux</a></div> <div>Command Line Scripting</div> <div>Languages: <a href="#">bash</a>, <a href="#">sh</a>, <a href="#">zsh</a></div> <div>Cmdline: <a href="#">GNU readline</a>, <a href="#">ls -l</a></div>  | General Info | ➤ <a href="#">Legend</a>   |  | ➤ Recommended Emacs User Option  |   | ➤ Themes   |   |
|   | Startup      |  |  | Run Emacs daemon & clients 🍏 🐼   |   | <a href="#">iMenu/Speedbar support</a>   |   |
|   | PEL Code     |  |  | <a href="#">PEL Naming Conventions</a>   |   | <a href="#">PEL Environment Variables</a>  |   |
|   |              |  |  |  |   | <a href="#">PEL utilities</a>  |   |
| <div>OS Desktop Key Bindings 🖱</div> <div>(Bindings that don't clash with PEL)</div>  |              | <a href="#">🍏 macOS Fct Keys</a>   |  | <a href="#">🍏 macOS Keys</a>   |   | <a href="#">🐼 Mint 20 Desktop Keys</a>   |   |
|   |              |  |  | <a href="#">🍏 terminal settings</a>  |   | <a href="#">🐼 Rocky Linux 8 Desktop Keys</a>   |   |
|   |              |  |  |  |   |  |   |
| <div>🔧 Feature Comparisons</div>  |              | <a href="#">🔧 Completion Modes Compatibility</a>   |  | <a href="#">🔧 Speedbar/iMenu Mode Compatibility</a>  |   | <a href="#">🔧 Shells/Terminals Comparisons</a>   |   |
| <div>Key Prefixes &amp; Suffixes</div>  |              | <a href="#">⌘ Modifier Keys</a>  |  | <a href="#">⌘ Numkeypad</a>  |   | <a href="#">⌘ Keys - Fn</a>  |   |
|   |              |  |  | <a href="#">⌘ Keys - F11</a>   |   | <a href="#">➤ PEL</a>  |   |
| <div>⌘ Emacs Features</div> <div><ul style="list-style-type: none"><li>A <a href="#">Guided Tour of Emacs</a>.</li><li><a href="#">Awesome-Emacs</a></li><li><a href="#">MELPA</a> and <a href="#">GNU ELPA</a></li></ul>The tables listed at right describe Emacs commands &amp; key bindings for concepts &amp; features. The cell is light-blue for major mode, light-red for minor mode specific concepts. Grey cells are links into other pages for important concepts.<br/>Emacs commands can be executed by name or bound to key sequences. They describe the commands, their arguments and the key sequences bound to them.<ul style="list-style-type: none"><li><a href="#">Emacs Keys</a></li><li><a href="#">Numeric Arguments</a></li></ul>You can also:<ul style="list-style-type: none"><li><a href="#">Run Command by Name</a></li></ul></div> <div>Emacs uses a concept of modes:<ul style="list-style-type: none"><li><a href="#">Emacs Major and Minor Modes</a><ul style="list-style-type: none"><li><a href="#">Major Modes</a></li><li><a href="#">Minor Modes</a></li><li><a href="#">Choosing Modes</a></li></ul></li></ul>PEL provides several key sequences to toggle minor modes.</div> |              | Cells link titles starting with only ⌘ are Emacs generic features, blue links are external packages. The green links are mostly PEL extensions.  |  |  |   |  |   |
|   |              | ⌘ <a href="#">Abbreviations</a>  | ⌘ <a href="#">Diff &amp; Merge</a>   | ⌘ <a href="#">Grep</a>   | ⌘ <a href="#">Marking</a>   | ⌘ <a href="#">Scrolling</a>  | ⌘ <a href="#">Tab Bar</a>   |
|   |              | ⌘ <a href="#">Align</a>  | ⌘ <a href="#">Dired</a>  | ⌘ <a href="#">Help/Info</a>  | ⌘ <a href="#">Menus</a>   | ⌘ <a href="#">Search/Replace</a>   | <a href="#">T Templates</a>   |
|   |              | ⌘ <a href="#">Auto-Completion</a>  | ⌘ <a href="#">Display - Lines</a>  | ⌘ <a href="#">Hide/Show</a>  | ⌘ <a href="#">Mode Line</a>   | ⌘ <a href="#">Sessions</a>   | ⌘ <a href="#">Text Modes</a>  |
|   |              | ⌘ <a href="#">Autosave/Backup</a>  | ⌘ <a href="#">Drawing</a>  | ⌘ <a href="#">Highlight (colors)</a>   | ⌘ <a href="#">Mouse</a>   | ⌘ <a href="#">start Shells/REPLs</a>   | ⌘ <a href="#">Time Tracking</a>   |
|   |              | ⌘ <a href="#">Bookmarks</a>  | <a href="#">Enriched Text</a>  | ⌘ <a href="#">ibuffer-mode</a>   | ⌘ <a href="#">Narrowing</a>   | ⌘ <a href="#">shell-mode</a>   | ⌘ <a href="#">Tramp</a>   |
|   |              | ⌘ <a href="#">Buffers</a>  | ⌘ <a href="#">Execute Cmds</a>   | ⌘ <a href="#">Indentation</a>  | ⌘ <a href="#">Navigation</a>  | ⌘ <a href="#">term-mode</a>  | ⌘ <a href="#">Transpose text</a>  |
|   |              | ⌘ <a href="#">Case Conversions</a>   | ⌘ <a href="#">Exec Shell Cmds</a>  | ⌘ <a href="#">Input Method</a>   | ⌘ <a href="#">Object Files</a>  | ⌘ <a href="#">eat-mode</a>   | ⌘ <a href="#">X Treemacs</a>  |
|   |              | ⌘ <a href="#">Close/Suspend</a>  | ⌘ <a href="#">Faces/Fonts</a>  | ⌘ <a href="#">Inserting Text</a>   | ⌘ <a href="#">Outline</a>   | ⌘ <a href="#">vterm-mode</a>   | ⌘ <a href="#">Undo/Redo</a>   |
|   |              | ⌘ <a href="#">Comments</a>   | <a href="#">P Fast Startup</a>   | ⌘ <a href="#">Key-Chords</a>   | ⌘ <a href="#">Packages</a>  | <a href="#">X Smartparens</a>  | ⌘ <a href="#">VCS-Git X Magit</a>   |
|   |              | ⌘ <a href="#">Completion/Input</a>   | ⌘ <a href="#">File Encoding</a>  | ⌘ <a href="#">Keyboard Macros</a>  | <a href="#">X Projectile</a>  | ⌘ <a href="#">Sorting</a>  | ⌘ <a href="#">VCS-Mercurial</a>   |
|   |              | ⌘ <a href="#">Counting</a>   | ⌘ <a href="#">File-mngt</a>  | <a href="#">X - Lispy</a>  | ⌘ <a href="#">Rectangles</a>  | ⌘ <a href="#">Speedbar</a>   | ⌘ <a href="#">VCS-Subversion</a>  |
|   |              | <a href="#">M CUA</a>  | ⌘ <a href="#">File/Dir Variables</a>   |  | ⌘ <a href="#">Registers</a>   | ⌘ <a href="#">Spell Checking</a>   | ⌘ <a href="#">Web</a>   |
|   |              | ⌘ <a href="#">Cursor</a>   | ⌘ <a href="#">Fill/Justify</a>   |  |   | ⌘ <a href="#">SyntaxCheck</a>  | ⌘ <a href="#">Whitespace</a>  |
|   |              | ⌘ <a href="#">Customize</a>  | ⌘ <a href="#">Frames</a>   |  |   |  | ⌘ <a href="#">Windows</a>   |
|   |              | ⌘ <a href="#">Cut &amp; Paste</a>  |  |  |   |  | ⌘ <a href="#">Xref - Cross Refs</a>   |
| <a href="#">X - Emacs Lisp concepts &amp; tools</a>   |              | <a href="#">display-buffer</a>   | <a href="#">X - ELisp Types</a>  | <a href="#">X ERT</a> (regre-testing)  | <a href="#">X Hooks</a>   |  |   |
| <div>XRef - Cross Reference Tools See also: <a href="#">ℹ Xref</a></div>  |              | Emacs supports various cross reference mechanisms described in the <a href="#">ℹ Xref</a> table. These mechanisms take advantage of various external tools and integrate with them. Notes about those tools are available in the tables listed in this section. Also describes indentation.  |  |  |   |  |   |
|   |              | <a href="#">🔧 Xref-Support</a>   | <a href="#">🔧 Xref-Frontend</a>  | <a href="#">🔧 Xref-Backend</a>   |   |  | <a href="#">🔧 Indentation Styles</a>  |
| PEL supports installation and partial setup of the following tools:   |              | PEL has support for several build tools but they are not all documented in a page. <div><ul style="list-style-type: none"><li><a href="#">Nix</a> <a href="#">📦</a> Requires <a href="#">nix-mode</a> external package <a href="#">🔧</a> activated when <a href="#">pel-use-nix-mode</a> user-option is tuned on.</li><li><a href="#">Tup</a> <a href="#">📦</a> Requires <a href="#">tup-mode</a> external package <a href="#">🔧</a> activated when <a href="#">pel-use-tup</a> user-option is tuned on.</li></ul></div> |  |  |   |  |   |
| <div>Build Tools &amp; Preprocessor</div>   |              | <a href="#">X - CMake</a> <a href="#">🔧</a>  | <a href="#">X - M4</a>   | <a href="#">X - Make</a> <a href="#">gmake</a>   |   |  |   |
| <div>Data Serialization</div>   |              | <a href="#">D CWL</a>  | <a href="#">D YAML</a>   |  |   |  |   |
| <div>Data Modelling/ Specification</div>  |              | <a href="#">S ASN.1</a> <a href="#">asn1-mode</a>  | <a href="#">S MIB</a> <a href="#">snmp-mode</a>  | <a href="#">S YANG</a>   |   |  |   |
| <div>Other File Formats</div>   |              |  | <a href="#">RPM Files</a> <a href="#">🐼</a>  | <a href="#">M X.509 Certificates</a>   |   |  |   |
| <div>Hardware Description Languages</div>   |              | <a href="#">Verilog</a> <a href="#">🔧</a>  | <a href="#">VHDL</a> <a href="#">🔧</a>   |  |   |  |   |
| <div>Lightweight Markup Languages</div>   |              | <a href="#">M AsciiDoc</a>   | <a href="#">M Markdown</a>   | <a href="#">M Org-Mode</a>   | <a href="#">M reStructuredText</a>  |  | <b>OS App Control Scripting Languages</b>                                     |
| <div><ul style="list-style-type: none"><li>Graphics Markup</li></ul></div>  |              | <a href="#">M Graphviz Dot</a>   | <a href="#">M MscGen</a>   | <a href="#">M PlantUML</a>   |   |  | <a href="#">X - AppleScript</a>   |
| <div>Programming Languages</div> <div>Main Paradigm of Programming Language Families</div> <div><ul style="list-style-type: none"><li><b>Actor Model:</b> <a href="#">A</a></li><li><b>Concatenative</b> <a href="#">K</a></li><li><b>Concurrent:</b> <a href="#">C</a></li><li><b>Domain Specific</b> <a href="#">d</a></li><li><b>Dynamic</b> <a href="#">d</a></li><li><b>Functional:</b> <a href="#">f</a> <b>Pure:</b> <a href="#">F</a></li><li><b>Imperative:</b> <a href="#">①</a> or no token</li><li><b>Object Oriented</b> <a href="#">@</a></li><li><b>Procedural</b> <a href="#">P</a></li><li><b>Has Syntactic Macros:</b> <a href="#">m</a></li><li><b>System Level</b> <a href="#">S</a></li></ul></div> <div><ul style="list-style-type: none"><li>The programming languages supported by PEL are listed here in alphabetical order.</li><li>Emacs (and PEL) also provides basic support for other programming languages not listed here.</li></ul></div>  |              | Emacs has major mode support for several programming languages. PEL extends Emacs support for some of them (others are marked <a href="#">🔧</a> ).   |  |  |   |  |   |
|   |              | <a href="#">BEAM Programming Languages</a>   | <a href="#">Functional Languages</a>   | <a href="#">Javascript target</a>  | <a href="#">Lisp Family Languages</a>   | <a href="#">Lisp-like Languages</a>  |   |
|   |              | <a href="#">Curly Bracket Languages</a>  | <a href="#">Java Virtual Machine Languages</a>   | <a href="#">ML Family Languages</a>  | <a href="#">Scheme Language Dialects</a>  | <a href="#">Stack Based Languages</a>  |   |
|   |              | Cell colours identifies the programming language family(ies).  |  |  |   |  |   |
|   |              | <a href="#">Ada</a> <a href="#">🔧</a>  | <a href="#">X - D</a> <a href="#">①</a> <a href="#">f</a> <a href="#">A</a>                        | <a href="#">X - Gambit</a> <a href="#">f</a> <a href="#">m</a>   | <a href="#">X - Janet</a> <a href="#">①</a> <a href="#">f</a> <a href="#">m</a>                 | <a href="#">Objective-C</a> <a href="#">🔧</a>  | <a href="#">Scala</a> <a href="#">🔧</a>                                       |
|   |              | <a href="#">X - Arc</a> <a href="#">f</a> <a href="#">m</a>  | <a href="#">Dart</a> <a href="#">🔧</a>   | <a href="#">X - Gerbil</a> <a href="#">f</a> <a href="#">m</a> <a href="#">A</a>   | <a href="#">Java</a> <a href="#">🔧</a>  | <a href="#">X - OCaml</a> <a href="#">①</a> <a href="#">f</a>                                      | <a href="#">X - Scheme</a> <a href="#">f</a> <a href="#">m</a>                |
|   |              | <a href="#">X - awk</a> <a href="#">d</a>  | <a href="#">Eiffel</a> <a href="#">🔧</a> <a href="#">S</a>   | <a href="#">X - GNU Guile</a> <a href="#">f</a> <a href="#">m</a>  | <a href="#">X - Javascript</a> <a href="#">🔧</a>  | <a href="#">Pascal</a> <a href="#">🔧</a>   | <a href="#">Seed7</a> <a href="#">🔧</a>                                       |
|   |              | <a href="#">X - C</a> <a href="#">S</a>  | <a href="#">X - Elm</a> <a href="#">🔧</a> <a href="#">F</a>  | <a href="#">X - Gleam</a>  | <a href="#">X - Julia</a> <a href="#">m</a>   | <a href="#">X - Perl</a> (perl5)   | <a href="#">Swift</a> <a href="#">🔧</a>                                       |
|   |              | <a href="#">X - C++</a> <a href="#">d</a> <a href="#">S</a>  | <a href="#">X - Elixir</a> <a href="#">c</a> <a href="#">m</a> <a href="#">f</a> <a href="#">A</a> | <a href="#">X - Go</a> <a href="#">S</a>   | <a href="#">Kotlin</a> <a href="#">🔧</a>  | <a href="#">X - Python</a> <a href="#">d</a> <a href="#">p</a> <a href="#">d</a> <a href="#">f</a> | <a href="#">X - Tcl</a> <a href="#">🔧</a> <a href="#">f</a> <a href="#">①</a> |
|   |              | <a href="#">X - Chez</a> <a href="#">f</a> <a href="#">m</a>   | <a href="#">X - Emacs Lisp</a>   | <a href="#">Groovy</a> <a href="#">🔧</a>   | <a href="#">X - LFE</a> <a href="#">c</a> <a href="#">m</a> <a href="#">f</a> <a href="#">A</a> | <a href="#">X - Purescript</a> <a href="#">🔧</a> <a href="#">F</a>                                 | <a href="#">X - Typescript</a> <a href="#">🔧</a>                              |
|   |              | <a href="#">X - Chibi</a> <a href="#">f</a> <a href="#">m</a>  | <a href="#">X - Erlang</a> <a href="#">c</a> <a href="#">f</a> <a href="#">A</a>                   | <a href="#">X - Haskell</a> <a href="#">F</a>  | <a href="#">Lua</a> <a href="#">🔧</a>   | <a href="#">X - Racket</a> <a href="#">f</a> <a href="#">m</a>                                     | <a href="#">X - UNIX Shell</a>  |
|   |              | <a href="#">X - Chicken</a> <a href="#">f</a> <a href="#">m</a>  | <a href="#">Factor</a> <a href="#">K</a> <a href="#">f</a> <a href="#">d</a> <a href="#">m</a>     | <a href="#">Haxe</a> <a href="#">🔧</a>   | <a href="#">Modula</a> <a href="#">🔧</a>  | <a href="#">X - ReasonML</a> <a href="#">🔧</a>   | <a href="#">X - V</a>   |
|   |              | <a href="#">X - Clojure</a> <a href="#">f</a> <a href="#">m</a>  | <a href="#">X - Forth</a> <a href="#">K</a>  | <a href="#">X - Hy (python)</a> <a href="#">m</a>  | <a href="#">X - NetRexx</a>   | <a href="#">X - REXX</a>   | <a href="#">Zig</a> <a href="#">🔧</a> <a href="#">S</a>                       |
|   |              | <a href="#">Common Lisp</a> <a href="#">f</a> <a href="#">m</a>  | <a href="#">Fortran</a> <a href="#">🔧</a>  |  | <a href="#">X - Nim</a> <a href="#">m</a> <a href="#">S</a>                                     | <a href="#">X - Ruby</a>   |   |
|   |              | <a href="#">Crystal</a> <a href="#">🔧</a>  |  |  |   | <a href="#">X - Rust</a> <a href="#">S</a>   |   |