
























PEL Topics Index

<div> <div>Last updated on:2025-04-27</div> <div>Note: with PEL, type <a href="#">&lt;f11&gt; &lt;f1&gt;</a> to open this PDF index.</div> </div>						
<div> <div>Emacs Reference Cards</div> <div> <div>                     🖱️ With PEL, access these cards from Emacs with the <a href="#">&lt;f11&gt; ? e r</a> key sequence. See <a href="#">📖 Help/Info</a> for more info.                 </div> </div> </div>		<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.                 </div>				
		Emacs	Calc	Gnus	Magit Cheatsheet	Org
		Emacs survival card	Dired	Gnus booklet	Magit Ref-card	Viper
<div> <div> <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> </div> <div> <div> <a href="#">PEL license</a> </div> <div> <div>Last updated on:</div> <div>2025-04-27</div> </div> <div> <a href="#">Emacs Mailing Lists</a> </div> </div> <div> <div>This table holds links to the <a href="#">PEL file tables</a> (hosted on Github as raw PDF files).</div> <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> </div>						
<div> <div>Terminal Multiplexers:</div> <div> <a href="#">GNU screen</a> , <a href="#">Tmux</a> </div> <div> <a href="#">Command Line Scripting</a> </div> <div> <a href="#">Languages: bash, sh, zsh</a> </div> <div> <a href="#">Cmdline: GNU readline, ls -l</a> </div> </div>	General Info	➤	➤Legend	➤Recommended Emacs User Option	➤ Themes	Migrate from CRiSP
	Startup	➤		Run Emacs daemon & clients 🍏🖱️	🖱️iMenu/Speedbar support	
	PEL Code	➤	How to do it with PEL	🖱️PEL Naming Conventions	🖱️PEL Environment Variables	🖱️PEL utilities
<div> <div>OS Desktop Key Bindings</div> <div>(Bindings that don't clash with PEL)</div> </div>		🍏 macOS Fct Keys	<div> <div>🍏 macOS Keys</div> <div> <a href="#">🍏 terminal settings</a> </div> </div>	<div> <div>🖱️Mint 20 Desktop Keys</div> <div> </div> </div>		🖱️Ubuntu 16.04 Desktop Keys
			<div> <div>🍏 terminal settings</div> <div> </div> </div>	<div> <div>🖱️Rocky Linux 8 Desktop Keys</div> <div> </div> </div>		
<div> <div>🖱️ Feature Comparisons</div> </div>		<div> <div>🖱️ Completion Modes Compatibility</div> </div>		<div> <div>🖱️ Speedbar/iMenu Mode Compatibility</div> </div>		<div> <div>🖱️ Shells/Terminals Comparisons</div> </div>
<div> <div>Key Prefixes &amp; Suffixes</div> </div>		📖🖱️Modifier Keys	📖🖱️Numkeypad	🖱️Keys - Fn	🖱️Keys - F11	<div> <div>🖱️Keys - F12</div> <div>➤PEL</div> </div>
<div> <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> </div> <div>                     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. 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> </div> <div>                     PEL provides several key sequences to toggle minor modes.                 </div> </div>		<div>                     Cells link titles starting with only 📖 are Emacs generic features, blue links are external packages. The green links are mostly PEL extensions.                 </div>				
		📖 Abbreviations	📖 Diff & Merge	📖 Grep	📖 Marking	📖 Scrolling
		📖 Align	📖 Dired	📖 Help/Info	📖 Menus	📖 Search/Replace
		📖 Auto-Completion	📖 Display - Lines	📖 Hide/Show	📖 Mode Line	📖 Sessions
		📖 Autosave/Backup	📖 Drawing	📖 Highlight (colors)	📖 Mouse	📖 start Shells/REPLs
		📖 Bookmarks	📖 Enriched Text	📖 ibuffer-mode	📖 Narrowing	📖 shell-mode
		📖 Buffers	📖 Execute Cmds	📖 Indentation	📖 Navigation	📖 term-mode
		📖 Case Conversions	📖 Exec Shell Cmds	📖 Input Method	📖 Object Files	📖 eat-mode
		📖 Close/Suspend	📖 Faces/Fonts	📖 Inserting Text	📖 Outline	📖 vterm-mode
		📖 Comments	📖P Fast Startup	📖 Key-Chords	📖 Packages	📖🔗 Smartparens
		📖 Completion/Input	📖 File Encoding	📖 Keyboard Macros	📖🔗 Projectile	📖 Sorting
		📖 Counting	📖 File-mngt	🖱️🔗 - Lispy	📖 Rectangles	📖 Speedbar
		📖M CUA	📖 File/Dir Variables		📖 Registers	📖 Spell Checking
		📖 Cursor	📖 Fill/Justify			📖 SyntaxCheck
		📖 Customize	📖 Frames			
		📖 Cut & Paste				📖 Xref - Cross Refs
<div> <div>🔗🖱️ - Emacs Lisp concepts &amp; tools</div> </div>		🔗 display-buffer	🔗🔗 - ELisp Types	🔗 ERT (regr-testing)	🔗 Hooks	
<div> <div>XRef - Cross Reference Tools</div> <div>See also: 📖 Xref</div> </div>		<div>                     Emacs supports various cross reference mechanisms described in the 📖 Xref 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.                 </div>				
		🖱️ Xref-Support	🖱️ Xref-Frontend	🖱️ Xref-Backend		🖱️ Indentation Styles
<div>                     PEL supports installation and partial setup of the following tools:                 </div>		<div>                     PEL has support for several build tools but they are not all documented in a page.                     <ul style="list-style-type: none"> <li><a href="#">Nix</a>  Requires <a href="#">nix-mode</a> external package  activated when <a href="#">pel-use-nix-mode</a> user-option is tuned on.</li> <li><a href="#">Tup</a>  Requires <a href="#">tup-mode</a> external package  activated when <a href="#">pel-use-tup</a> user-option is tuned on.</li> </ul> </div>				
<div> <div>Build Tools &amp; Preprocessor</div> </div>		🖱️ - CMake 	🖱️ - M4	🖱️ - Make <a href="#">gmake</a>		
<div> <div>Data Serialization</div> </div>		📖 CWL	📖 YAML			
<div> <div>Data Modelling/ Specification</div> </div>		📖 ASN.1 <a href="#">asn1-mode</a>	📖 MIB <a href="#">snmp-mode</a>	📖 YANG		
<div> <div>Other File Formats</div> </div>		Config files	RFC (RFC @ Wikipedia)	RPM Files  (spec file format)		🖱️ X.509 Certificates
<div> <div>Hardware Description Languages</div> </div>		Verilog 	VHDL 			
<div> <div>Lightweight Markup Languages</div> </div>		🖱️ AsciiDoc	🖱️ Markdown	🖱️ Org-Mode	🖱️ reStructuredText	OS App Control Scripting Languages
<div> <div>• Graphics Markup</div> </div>		🖱️ Graphviz Dot	🖱️ MscGen	🖱️ PlantUML		🖱️🍏 - AppleScript
<div> <div>Programming Languages</div> <div>Main Paradigm of Programming Languages</div> <div> <ul style="list-style-type: none"> <li><i>Actor Model:</i> <a href="#">A</a> <a href="#">Concatenative</a> <a href="#">K</a></li> <li><i>Concurrent:</i> <a href="#">C</a> <a href="#">Domain Specific</a> <a href="#">d</a></li> <li><i>Dynamic d</i> <a href="#">Extensible</a> <a href="#">e</a></li> <li><i>Functional:</i> <a href="#">f</a> <i>Pure:</i> <a href="#">F</a></li> <li><i>Generic</i> <a href="#">G</a></li> <li><i>Imperative:</i> <a href="#">i</a> <i>or no token</i></li> <li><i>Object Oriented</i> <a href="#">o</a> <i>Procedural</i> <a href="#">P</a></li> <li><i>Has Syntactic Macros:</i> <a href="#">m</a></li> <li><i>Multi-paradigm</i> <a href="#">r</a> <i>Reflective</i>  </li> <li><i>System Level</i> <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 some of the one PEL does not support and for other programming languages not listed here.</li> </ul> </div> </div>		<div>                     Emacs has major mode support for several programming languages. PEL extends Emacs support for some of them (others are marked ).                 </div>				
		BEAM Programming Languages	Functional Languages	Javascript target	Pascal-style syntax	Lisp-like Languages
		Curly Bracket Languages	Java Virtual Machine Languages	ML Family Languages	Lisp Family Languages	Scheme Language Dialects
		Cell colours identifies the programming language family(ies).				
		Ada 	🖱️ - D <a href="#">i</a> <a href="#">f</a> <a href="#">A</a>	🖱️ - Gambit <a href="#">f</a> <a href="#">m</a>	🖱️ - Janet <a href="#">i</a> <a href="#">f</a> <a href="#">m</a>	🖱️ - OCaml <a href="#">i</a> <a href="#">f</a>
		🖱️ - Arc <a href="#">f</a> <a href="#">m</a>	Dart 	🖱️ - Gerbil <a href="#">f</a> <a href="#">m</a> <a href="#">A</a>	Java 	🖱️ - Odin
		🖱️ - awk <a href="#">d</a>	Eiffel 	🖱️ - GNU Guile <a href="#">f</a> <a href="#">m</a>	🖱️ - Javascript 	🖱️-Pascal
		🖱️ - C <a href="#">S</a>	🖱️ - Elm 	🖱️ - Gleam	🖱️ - Julia <a href="#">m</a>	🖱️ - Perl (perl5)
		🖱️ - C++ <a href="#">o</a> <a href="#">S</a>	🖱️ - Elixir <a href="#">c</a> <a href="#">m</a> <a href="#">f</a> <a href="#">A</a>	🖱️ - Go <a href="#">S</a>	Kotlin 	🖱️ - Pike <a href="#">d</a> <a href="#">i</a> <a href="#">o</a>
		🖱️ - Chez <a href="#">f</a> <a href="#">m</a>	🔗🖱️ - Emacs Lisp	Groovy 	🖱️ - LFE <a href="#">c</a> <a href="#">m</a> <a href="#">f</a> <a href="#">A</a>	🖱️ - Python <a href="#">d</a> <a href="#">P</a> <a href="#">o</a> <a href="#">f</a>
		🖱️ - Chibi <a href="#">f</a> <a href="#">m</a>	🖱️ - Erlang <a href="#">c</a> <a href="#">f</a> <a href="#">A</a>	🖱️ - Haskell <a href="#">F</a>	🖱️ -Lua <a href="#">f</a> <a href="#">o</a> <a href="#">P</a>	🖱️ - Purescript 
		🖱️ - Chicken <a href="#">f</a> <a href="#">m</a>	🖱️ - Factor <a href="#">K</a> <a href="#">f</a> <a href="#">o</a> <a href="#">m</a>	Haxe 	🖱️-Modula	🖱️ - Racket <a href="#">f</a> <a href="#">m</a>
		🖱️ - Clojure <a href="#">f</a> <a href="#">m</a>	🖱️ - Forth <a href="#">K</a>	🖱️ - Hy (python) <a href="#">m</a>	🖱️ - NetRexx	🖱️ - ReasonML 
		Common Lisp <a href="#">f</a> <a href="#">m</a>	Fortran 		🖱️ - Nim <a href="#">m</a> <a href="#">S</a>	🖱️ - REXX
		Crystal 			🖱️-Objective-C 	🖱️ - Ruby
						🖱️ -Zig <a href="#">S</a>