PEL Topics Index

Last updated on: 2025-05-17 — Note: with PEL, type `<f11> <f1>` to open this PDF index.

Emacs Reference Cards

☝ With PEL, access these cards from Emacs with the `<f11> ? e r` key sequence.
See ∑ Help/Info for more info.

These are links to the PDF version of official English version of the quick reference cards for **GNU Emacs** 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

➣ PEL Overview

- PEL repo
- PEL Readme
- PEL Manual
- PEL NEWS
- Discussions

PEL license

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Emacs Mailing Lists

This table holds links to the **PEL file tables** (hosted on Github as raw PDF files).
☝ For the best user experience, use a browser that can render PDF directly instead of downloading.
- **Mozilla Firefox** (version > 78) does that perfectly. You may need to activate a plug-in for other browsers.
- With that in place, you can browse through all the PDFs and reach a vast amount of information quickly.

☝ From within Emacs open this topic index PDF by typing the `<f11> ? <f1>` key sequence. More help topics with `<f11> ? p` keys.
☝ The symbols, **colour coding** and various other conventions are described in the ➣Legend PDF.

Terminal Multiplexers: GNU screen, Tmux
Command Line Scripting Languages: bash, sh, zsh
Cmdline: GNU readline, ls -l

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

OS Desktop Key Bindings ⌨

(Bindings that don't clash with PEL)

🍎 macOS Fct Keys	🍎 macOS Keys	🐧Mint 20 Desktop Keys		🐧Ubuntu 16.04 Desktop Keys	
	🍎 terminal settings	🐧Rocky Linux 8 Desktop Keys			

🚦 Feature Comparisons

🚦Completion Modes Compatibility		🚦 Speedbar/iMenu Mode Compatibility		🚦Shells/Terminals Comparisons	

Key Prefixes & Suffixes

∑ ⌨Modifier Keys	∑⌨Numkeypad	⌨Keys - Fn	⌨Keys - F11	⌨Keys - F12	➣PEL

∑ Emacs Features

- A Guided Tour of Emacs.
- Awesome-Emacs
- MELPA and GNU ELPA

The tables listed at right describe Emacs commands & key bindings for concepts & 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.
- Emacs Keys
- Numeric Arguments

You can also:
- Run Command by Name

Emacs uses a concept of modes:
- Emacs Major and Minor Modes
  - Major Modes
  - Minor Modes
  - Choosing Modes

PEL provides several key sequences to toggle minor modes.

Cells link titles starting with only ∑ are Emacs generic features, blue links are external packages. The green links are mostly PEL extensions.

∑ Abbreviations	∑ Diff & Merge	∑ Grep	∑ Marking	∑ Scrolling	∑ Tab Bar
∑ Align	∑ Dired	∑ Help/Info	∑ Menus	∑ Search/Replace	T Templates
∑ Auto-Completion	∑ Display - Lines	∑ Hide/Show	∑ Mode Line	∑ Sessions	∑ Text Modes
∑ Autosave/Backup	∑ Drawing	∑ Highlight (colors)	∑ Mouse	∑ start Shells/REPLs	∑ Time Tracking
∑ Bookmarks	∑ Enriched Text	∑ ibuffer-mode	∑ Narrowing	∑ shell-mode	∑ Tramp 🛜
∑ Buffers	∑ Execute Cmds	∑ Indentation	∑ Navigation	∑ term-mode	∑ Transpose text
∑ Case Conversions	∑ Exec Shell Cmds	∑ Input Method	∑ Object Files	∑ eat-mode	∑𝔛 Treemacs
∑ Close/Suspend	∑ Faces/Fonts	∑ Inserting Text	∑ Outline	∑ vterm-mode	∑ Undo/Redo/Repeat
∑ Comments	∑P Fast Startup	∑ Key-Chords	∑ Packages	∑𝔛 Smartparens	∑ VCS-Git 𝔛Magit
∑ Compilation Mode	∑ File Encoding	∑ Keyboard Macros	∑𝔛 Projectile	∑ Sorting	∑ VCS-Mercurial
∑ Completion/Input	∑ File-mngt	𝔓𝔏𝔛- Lispy	∑ Rectangles	∑ Speedbar	∑ VCS-Subversion
∑ Counting	∑ File/Dir Variables		∑ Registers	∑ Spell Checking	∑ Web
∑M CUA	∑ Fill/Justify			∑ SyntaxCheck	∑ Whitespace
∑ Cursor	∑ Frames				∑ Windows
∑ Customize					∑ Xref - Cross Refs
∑ Cut & Paste					

𝔏𝔓𝔏 - Emacs Lisp concepts & tools	𝔏 display-buffer	𝔏※ - ELisp Types	𝔏 ERT (regr-testing)	𝔏 Hooks		

XRef - Cross Reference Tools

See also: ∑ Xref

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.

🚦Xref-Support	🚦Xref-Frontend	🚦Xref-Backend			🚦Indentation Styles

Build Tools & Preprocessor	𝔓𝔏 - CMake 🚧	𝔓𝔏 - M4	𝔓𝔏 - Make gmake	𝔓𝔏 - Nix	𝔓𝔏 - Tup	
Data Serialization & Modelling	Ⓓ CWL	Ⓓ YAML		Ⓢ ASN.1 asn1-mode	Ⓢ MIB snmp-mode	Ⓢ YANG
Other File Formats	∑ Changelog Files	Config/ini/toml... Files	RFC (RFC @ Wikipedia)	RPM Files 🐧 (spec file format)		M X.509 Certificates
Hardware Description Languages	Verilog 🚧	VHDL 🚧				
Lightweight Markup Languages	M AsciiDoc	M Markdown	M Org-Mode	M reStructuredText		
• **Graphics Markup**	M Graphviz Dot	M MscGen	M PlantUML			

Programming Languages

Main Paradigm of Programming Languages

- *Actor Model:* Ⓐ   *Array* ☒
- *Concatenative* Ⓚ   *Concurrent:* ⓒ
- *Domain Specific* ⓓ
- *Dynamic* 𝒹   *Extensible* ⓔ
- *Functional:* ⓕ   *Pure:* Ⓕ
- *Generic* ⓖ
- *Imperative:* ⓘ or no token
- *Object Oriented* ⓞ   *Procedural* ⓟ
- *Has Syntactic Macros:* ⓜ
- *Multi-paradigm* ↝   *Reflective* |
- *System Level* 🅢
- The programming languages supported by PEL are listed here in alphabetical order.
- Emacs (and PEL) also provides basic support for some of the one PEL does not support and for other programming languages not listed here.

Future support for Carbon, Crystal, Dart, Eiffel, Elm, Groovy, Haxe, Kotlin, Purescript, ReasonML, Scala, Typescript and documentation of support for Ada, Fortran, Javascript, Java, Modula, (based on my need for them or requests).

Emacs has major mode support for several programming languages. PEL extends Emacs support for some of them (others are marked 🚧).

BEAM Programming	*Functional*	Javascript target	Pascal-style syntax	Lisp-like Languages	Stack Based
Curly Bracket	Java Virtual Machine	ML Family	Lisp Family	Scheme Dialects	OS App Control

𝔓𝔏 - Ada	𝔓𝔏 - D ⓘⓕⒶ	𝔓𝔏 - Gambit ⓕⓜ	𝔓𝔏 - Janet ⓘⓕⓜ	𝔓𝔏 - OCaml ⓘⓕ	𝔓𝔏 - Rust 🅢
𝔓𝔏🍎- AppleScript	Dart 🚧	𝔓𝔏 - Gerbil ⓕⓜⒶ	Java 🚧	𝔓𝔏 - Odin 🅢	Scala 🚧
𝔓𝔏 - Arc ⓕⓜ	Eiffel 🚧 🅢	𝔓𝔏 - GNU Guile ⓕⓜ	𝔓𝔏 - Javascript 🚧	𝔓𝔏-Pascal	𝔓𝔏 - Scheme ⓕⓜ
𝔓𝔏 - awk ⓓ	𝔓𝔏 - Elm 🚧 Ⓕ	𝔓𝔏 - Gleam	𝔓𝔏 - Julia ⓜ	𝔓𝔏 - Perl (perl5)	𝔓𝔏-Seed7 🚧 ⓔ ⓖ ↝
𝔓𝔏 - C 🅢	𝔓𝔏 - Elixir ⓒⓜⓕⒶ	𝔓𝔏 - Go 🅢	Kotlin 🚧	𝔓𝔏 - Pike 𝒹 ⓘ ⓞ	𝔓𝔏-Smalltalk 🚧 ⓞ
𝔓𝔏 - C++ ⓞ🅢	𝔏𝔓𝔏 - Emacs Lisp	Groovy 🚧	𝔓𝔏 - LFE ⓒⓜⓕⒶ	𝔓𝔏 - *Python* 𝒹ⓟⓞⓕ	𝔓𝔏-Swift
Carbon 🚧 🅢	𝔓𝔏 - Erlang ⓒⓕⒶ	𝔓𝔏 - Haskell Ⓕ	𝔓𝔏 -Lua ⓕ ⓞ ⓟ	𝔓𝔏 - Purescript 🚧 Ⓕ	𝔓𝔏 - Tcl ⓕⓘ
𝔓𝔏 - Chez ⓕⓜ	𝔓𝔏 - Factor Ⓚⓕ ⓞⓜ	Haxe 🚧	𝔓𝔏-Modula	R 🚧 ⓞ ⓟ ⓕ ☒ |	𝔓𝔏 - Typescript 🚧
𝔓𝔏 - Chibi ⓕⓜ	𝔓𝔏 - Forth Ⓚ	𝔓𝔏 - Hy (python) ⓜ	𝔓𝔏 - NetRexx	𝔓𝔏 - Racket ⓕⓜ	𝔓𝔏 - UNIX Shell
𝔓𝔏 - Chicken ⓕⓜ	Fortran 🚧		𝔓𝔏 - Nim ⓜ🅢	𝔓𝔏 - ReasonML 🚧	𝔓𝔏 - V
𝔓𝔏 - Clojure ⓕⓜ			𝔓𝔏-Objective-C 🚧	𝔓𝔏 - REXX	𝔓𝔏 -Zig 🅢
Common Lisp ⓕⓜ				𝔓𝔏 - Ruby	
Crystal 🚧					