PEL Topics Index

Last updated on: 2025-03-14 — 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 Σ 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 ➢		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

Σ Modifier Keys	Σ Numkeypad	Keys - Fn	Keys - F11	Keys - F12	➢PEL

Σ 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 Σ are Emacs generic features, blue links are external packages. The green links are mostly PEL extensions.

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

XRef - Cross Reference Tools

See also: Σ Xref

Emacs supports various cross reference mechanisms described in the Σ 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

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.
- Nix — Requires nix-mode external package — activated when pel-use-nix-mode user-option is tuned on.
- Tup — Requires tup-mode external package — activated when pel-use-tup user-option is tuned on.

PL - CMake	PL - M4	PL - Make gmake			

Data Serialization

Ⓓ CWL	Ⓓ YAML				

Data Modelling/ Specification

Ⓢ ASN.1 asn1-mode	Ⓢ MIB snmp-mode	Ⓢ YANG			

Other File Formats

Config 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		OS App Control Scripting Languages

• Graphics Markup

M Graphviz Dot	M MscGen	M PlantUML			PL - AppleScript

Programming Languages
Main Paradigm of Programming Language Families
- *Actor Model:* Ⓐ
- *Concatenative* Ⓚ
- *Concurrent:* ⓒ
- *Domain Specific* ⓓ
- *Dynamic* 𝒹
- *Functional:* ⓕ *Pure:* Ⓕ
- *Imperative:* ⓘ *or no token*
- *Object Oriented* ⓞ
- *Procedural* Ⓟ
- *Has Syntactic Macros:* ⓜ
- *System Level* Ⓢ

- The programming languages supported by PEL are listed here in alphabetical order.
- Emacs (and PEL) also provides basic support for other programming languages not listed here.

Future support for Crystal, Elm, Kotlin, Lua, Purescript, ReasonML, Seed7, Typescript, Zig and documentation of support for Ada, Fortran, Javascript, Java, Modula, Pascal (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 Languages	Functional Languages	Javascript target	Lisp Family Languages	Lisp-like Languages	
Curly Bracket Languages	Java Virtual Machine Languages	ML Family Languages	Scheme Language Dialects	Stack Based Languages	

Cell colours identifies the programming language family(ies).

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