PEL Topics Index

Last updated on: 2025-03-22 — 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**
⅀ Completion/Input	**⅀ File Encoding**	**⅀ Keyboard Macros**	**⅀𝔛 Projectile**	**⅀ Sorting**	**⅀ VCS-Mercurial**
⅀ Counting	**⅀ File-mngt**	**𝔓𝔩𝔛- Lispy**	**⅀ Rectangles**	**⅀ Speedbar**	**⅀ VCS-Subversion**
⅀𝔐 CUA	**⅀ File/Dir Variables**		**⅀ Registers**	**⅀ Spell Checking**	**⅀ Web**
⅀ Cursor	**⅀ Fill/Justify**			**⅀ SyntaxCheck**	**⅀ Whitespace**
⅀ Customize	**⅀ Frames**				**⅀ Windows**
⅀ Cut & Paste					**⅀ Xref** - Cross Refs

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

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 ⓕⓜ	**ℒ𝔓𝔩 - Emacs Lisp**	Groovy 🚧	**𝔓𝔩 - LFE** ⓒⓜⓕⒶ	**𝔓𝔩 - Pike** 𝒹ⓘⓞ	**𝔓𝔩-Swift**
𝔓𝔩 - Chibi ⓕⓜ	**𝔓𝔩 - Erlang** ⓒⓕⒶ	**𝔓𝔩 - Haskell** Ⓕ	**𝔓𝔩 -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** 🅢