# PEL Quick Access Topics Index

Last updated on: 2025-12-05 — Note: with PEL; type `<f11> <f1>` to open this PDF index.

## GNU Emacs Reference Cards

With PEL, access these PDF cards from within Emacs with the `<f11> ? e r` key sequence. See Σ Help/Info for more info.
Links to PDF version of official English version of the quick reference cards for GNU Emacs and popular external packages.

- Emacs Release History
- EmacsWiki
- Emacs project repo

| | | | | | |
|---|---|---|---|---|---|
| Emacs | Calc | Gnus | Magit Cheatsheet | Org | Viper |
| Emacs survival card | Dired | Gnus booklet | Magit Ref-card | | VIP |

## PEL

- Repo
- Manual
- Discussions

Readme License NEWS

- Emacs Mailing Lists
- Contribute to Emacs
- EmacsConf

This table holds links to all other PEL topic oriented PDF table files (hosted on Github).
☝ For best user experience, use a browser like Firefox that can render PDF directly instead of downloading: all PDFs are heavily hyperlinked.
☝ 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
: GNU readline, ls -l, ssh

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|---|---|---|---|---|
| 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

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

## Σ Emacs Features

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

Σ Emacs Manual , Guided Tour of Emacs , Emacs Lisp Manual
- Emacs Docs: Emacs, Emacs Lisp
- Mastering 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.

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

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|---|---|---|---|---|---|
| Ξ PEL - Emacs Lisp concepts & tools | Ξ display-buffer | Ξ - ELisp Types | Ξ Hooks | Ξ Elisp Build Tools | Ξ ERT (regr-testing) | |
| Parsing tools, Indentation — Σ Xref Tools: | Language Servers | Tree-sitter | Indentation Styles | Xref-Support | Xref-Frontend | Xref-Backend |

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|---|---|---|---|---|---|
| **Build Tools** | PEL - CMake | PEL - Make gmake | PEL - Meson | PEL - Ninja | PEL - Nix | PEL - Tup |
| **Data Serialization & Configuration** | Ⓓ CWL | Ⓓ JSON | Ⓓ PKL | Ⓓ XML | Ⓓ YAML | |
| **Modelling** | Ⓜ ASN.1 asn1-mode | Ⓜ MIB snmp-mode | Ⓜ YANG | | | |
| **Other File Formats** | Binary, Object, Executable Files | | Log Files | RFC (RFC @ Wikipedia) | | SSH files ssh |
| | Σ Changelog Files | Config/ini/toml... Files | | RPM Files (spec file format) | | Ⓜ X.509 Certificates |
| **Hardware Description Languages** | PEL - Verilog | PEL - VHDL | Language Server & Tools for HDL | | | |
| **Lightweight Markup Languages** | Ⓜ AsciiDoc | Ⓜ Markdown | Ⓜ Org-Mode | Ⓜ reStructuredText | | |
| • Graphics Markup | Ⓜ Graphviz Dot | Ⓜ MscGen | Ⓜ PlantUML | | | |

**Programming Languages Major Modes**

| | | | | | |
|---|---|---|---|---|---|
| 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 |

**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* Ⓢ

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|---|---|---|---|---|---|
| PEL - Ada ⓢ | PEL - D ⓘⓕⒶ | PEL - Gambit ⓕⓜ | PEL - Janet ⓘⓕⓜ | PEL-Pascal | Scala |
| PEL- AppleScript | PEL - Dart ⓕ ⓞ \| | PEL - Gerbil ⓕⓜⒶ | PEL - Java | PEL - Perl (perl5) | PEL - Scheme ⓕⓜ |
| APL | PEL - Eiffel ⓞ Ⓢ | PEL - GNU Guile ⓕⓜ | PEL - Javascript | PEL - Pike 𝒹 ⓘ ⓞ | PEL-Seed7 ⓔ ⓖ |
| PEL - Arc ⓕⓜ | PEL - Elm Ⓕ | PEL - Gleam | PEL - Julia ⓜ | Pony | PEL-Smalltalk ⓞ |
| PEL - awk 𝒹 | PEL - Elixir ⓒⓜⓕⒶ | PEL - Go Ⓢ | Kotlin | PEL - Purescript Ⓕ | PEL-Swift |
| PEL - C Ⓢ | ΣPEL - Emacs Lisp | Groovy | PEL - LFE ⓒⓜⓕⒶ | PEL - Python 𝒹ⓟⓞⓕ | PEL - Tcl ⓕⓘ |
| PEL - C++ ⓞⓈ | PEL - Erlang ⓒⓕⒶ | PEL - Haskell Ⓕ | PEL -Lua ⓕ ⓞ Ⓟ | R ⓞ Ⓟ ⓕ Ⓧ \| | PEL - Typescript |
| Carbon future Ⓢ | PEL - Factor Ⓚⓕⓞⓜ | Haxe | PEL - M4 | PEL - Racket ⓕⓜ | PEL - UNIX Shell |
| PEL - Chez ⓕⓜ | PEL - Forth Ⓚ | PEL - Hy (python) ⓜ | PEL-Modula | PEL - ReasonML | PEL - V |
| PEL - Chibi ⓕⓜ | Fortran | | PEL - NetRexx | Rebol | PEL -Zig Ⓢ |
| PEL - Chicken ⓕⓜ | | | PEL - Nim ⓜⓈ | Red | |
| PEL - Clojure ⓕⓜ | | | PEL-Objective-C | PEL - REXX | |
| Common Lisp ⓕⓜ | | | PEL - OCaml ⓘⓕ | PEL - Ruby | |
| Crystal | | | PEL - Odin Ⓢ | PEL - Rust Ⓢ | |

- 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 APL, Carbon, Crystal, Elm, Groovy, Haxe, Kotlin, Pony, Purescript, ReasonML, Rebol, Red, Scala, Typescript and documentation of support for Fortran (based on my need for them or requests).