PEL Topics Index

Emacs Reference Cards

Links to PDF version of official English version of the quick reference cards for **GNU Emacs** and popular external packages.

- Emacs Release History
- EmacsWiki

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

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
- Emacs Mailing Lists
- Emacs project repo
- Contribute to Emacs

This table holds links to all other **PEL topic oriented PDF table files** (hosted on Github).

👉 For the best user experience, use a browser that can render PDF directly instead of downloading: all PDFs are heavily hyperlinked.
- **Mozilla Firefox** (version > 78) does that perfectly. You may need to activate a plug-in for other browsers.

👉 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.

	General Info ➢	➢**Legend**	➢Recommended Emacs User Option	➢Themes	Migrate from CRiSP	
Terminal Multiplexers: **GNU screen** , **Tmux**	Startup ➢		Run Emacs daemon & clients 🍎👓	📊iMenu/Speedbar support		
Command Line Scripting Languages: bash, sh, zsh 📄: GNU readline, ls -l, ssh	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

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

- ⅀ **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.

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

⅀𝓕ℓ - Emacs Lisp concepts	& tools	𝓕 display-buffer	𝓕✷ - ELisp Types	𝓕 Hooks	𝓕 Elisp Build Tools	𝓕 ERT (regr-testing)	
Parsing tools, Indentation &	⅀ Xref Tools:	🚦 Language Servers	🚦 Tree-sitter	🚦 Indentation Styles	🚦 Xref-Support	🚦 Xref-Frontend	🚦 Xref-Backend

Build Tools

𝓟ℓ - CMake 🚧	𝓟ℓ - Make gmake	𝓟ℓ - Meson	𝓟ℓ - Ninja	𝓟ℓ - Nix	𝓟ℓ - 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
⅀ Changelog Files	Config/ini/toml... Files		RPM Files 🐧 (spec file format)		Ⓜ X.509 Certificates

Hardware Description Languages

ℏⅾℓ - Verilog 🚧	ℏⅾℓ - VHDL 🚧	🚦 Language Server & Tools for HDL 🚧	

Lightweight Markup Languages

Ⓜ AsciiDoc	Ⓜ Markdown	Ⓜ Org-Mode	Ⓜ reStructuredText

• Graphics Markup

Ⓜ Graphviz Dot	Ⓜ MscGen	Ⓜ 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 APL, Carbon, Crystal, Dart, 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).

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