PEL Quick Access Topics Index

Last updated on: 2025-12-01 — 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 ⅀ **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** Readme License • Repo • Manual NEWS • Discussions • 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 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

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 Stamps
⅀ Bookmarks	⅀ Enriched Text	⅀ ibuffer-mode	⅀ Mouse	⅀ shell-mode	⅀ Time Tracking
⅀ Buffers	⅀ Execute Cmds	⅀ Indentation	⅀ Narrowing	⅀ term-mode	⅀ Tramp 🛜
⅀ Case Conversions	⅀ Exec Shell Cmds	⅀ Input Method	⅀ Navigation	eat-mode	⅀ Transpose text
⅀ Close/Suspend	⅀ Faces/Fonts	⅀ Inserting Text	⅀ Object Files	vterm-mode	⅀𝔛 Treemacs
⅀ Comments	⅀P Fast Startup	⅀ Key-Chords	⅀ Outline	⅀𝔛 Smartparens	⅀ Tree Sitter
⅀ Compilation Mode	⅀ File Encoding	⅀ Keyboard Macros	⅀ Packages	⅀ Sorting	⅀ Undo/Redo/Repeat
⅀ Completion/Input	⅀ File-mngt	𝔓𝔩𝔛- Lispy	Project Tools	Speech To Text	⅀ VCS-Git 𝔛Magit
⅀ Counting	⅀ File/Dir Variables	Logging key strokes	⅀𝔛 Projectile	⅀ Speedbar	⅀ VCS-Mercurial
⅀Ɱ CUA	⅀ Fill/Justify		⅀ Recursive Edit	⅀ Spell Checking	⅀ VCS-Subversion
⅀ Cursor	⅀ Frames		⅀ Rectangles	⅀ SyntaxCheck	⅀ Web
⅀ Customize			⅀ Registers		⅀ Whitespace
⅀ Cut & Paste					⅀ Windows
					Writing Tools
					⅀ Xref - Cross Refs

𝔈𝔓𝔩 - Emacs Lisp concepts & tools	𝔈 display-buffer	𝔈※ - ELisp Types	𝔈 Hooks	𝔈 Elisp Build Tools	𝔈 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)		Ɱ X.509 Certificates
Hardware Description Languages	𝔥𝔡𝔩 - Verilog 🚧	𝔥𝔡𝔩 - VHDL 🚧	🚦 Language Server & Tools for HDL 🚧			
Lightweight Markup Languages	Ɱ AsciiDoc	Ɱ Markdown	Ɱ Org-Mode	Ɱ reStructuredText		
• **Graphics Markup**	Ɱ Graphviz Dot	Ɱ MscGen	Ɱ 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
𝔓𝔩 - Ada 🚧 ঽ🅢	𝔓𝔩 - D ⓘⓕⒶ	𝔓𝔩 - Gambit ⓕⓜ	𝔓𝔩 - Janet ⓘⓕⓜ	𝔓𝔩-Pascal	Scala 🚧
𝔓𝔩🍎- AppleScript	𝔓𝔩 - Dart ঽⓕⓞ|	𝔓𝔩 - Gerbil ⓕⓜⒶ	𝔓𝔩 - Java 🚧	𝔓𝔩 - Perl (perl5)	𝔓𝔩 - Scheme ⓕⓜ
APL 🚧	𝔓𝔩 - Eiffel 🚧 ⓞ🅢	𝔓𝔩 - GNU Guile ⓕⓜ	𝔓𝔩 - Javascript 🚧	𝔓𝔩 - Pike 𝒹ⓘⓞ	𝔓𝔩-Seed7 🚧 ⓔⓖঽ
𝔓𝔩 - Arc ⓕⓜ	𝔓𝔩 - Elm 🚧 Ⓕ	𝔓𝔩 - Gleam	𝔓𝔩 - Julia ⓜ	Pony 🚧	𝔓𝔩-Smalltalk 🚧 ⓞ
𝔓𝔩 - awk ⓓ	𝔓𝔩 - Elixir ⓒⓜⓕⒶ	𝔓𝔩 - Go 🅢	Kotlin 🚧	𝔓𝔩 - *Python* 𝒹ⓟⓞⓕ	𝔓𝔩-Swift
𝔓𝔩 - C 🅢	𝔈𝔓𝔩 - 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 🅢	

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* ঽ *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, 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).