PEL Topics Index

Emacs Reference Cards 👆 With PEL you can access these via the `<f11> ? e r` key sequence. See Σ **Help/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**	This table holds links to the **PEL file tables**. Each cell holds a hyperlink to the GitHub hosted raw PDF table. 👆 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 quickly and reach a vast amount of information. 👆 From within Emacs open this topic index PDF by typing the `<f11> ? <f1>` key sequence. 👆 The symbols, colour coding and various other conventions are described in the ➢**Legend** PDF.

• General Information.	➢**Legend**	➢**Recommended Emacs User Option**	➢**Themes**
• Development Information	➢**PEL**	▇**iMenu/Speedbar support**	▇**PEL Naming Conventions**
• Migration Guide	➢**CRiSP ⇌ Emacs**		

macOS Specific

macOS Keys	**terminal settings**

🚦 Feature Comparisons

🚦 **Completion Modes Compatibility**	🚦 **Speedbar/iMenu Mode Compatibility**	🚦 **Shells/Terminals Comparisons**

Key Prefixes & Suffixes

Σ ⌨ **Modifier Keys**	Σ⌨ **Numkeypad**	➢**PEL**	⌨**Keys - Fn**	⌨**Keys - F11**

Σ Emacs Features

The links that start with only Σ Emacs generic features, the blue links are external packages. The green links are mostly PEL extensions.

These PEL tables describe the Emacs commands and key bindings for generic concepts and features.

Emacs uses a concept of modes. See:
• **Emacs Major and Minor Modes**
  • **Major Modes**
  • **Minor Modes**
  • **Choosing Modes**
PEL provides several key sequences to toggle minor modes, described in the relevant PDFs.

Emacs commands can be executed by name or bound to key sequences. The commands may have arguments and keys can express them. See:
• **Emacs Keys**

Σ **Abbreviations**	Σ **Cursor**	Σ **Filling/ Justification**	Σℒ**- Lispy**	Σ **Scrolling**	Σ **Transpose**
Σ **Align**	Σ **Customize**	Σ **Frames**	Σ **Marking**	Σ **Search/Replace**	Σ𝓍 **Treemacs**
Σ **Auto-Completion**	Σ **Cut & Paste**	Σ **Grep**	Σ **Menus**	Σ **Semantic**	Σ **Undo/Redo/ Repeat/Arg**
Σ **Autosave/Backup**	Σ **Diff & Merge**	Σ **Help/Info**	Σ **Mode Line**	Σ **Sessions**	Σ **VCS-Git 𝓍Magit**
Σ **Bookmarks**	Σ **Dired**	Σ **Hide/Show**	Σ **Mouse**	Σ **Shells**, REPLs & terminal emulators	Σ **VCS-Mercurial**
Σ **Buffers**	Σ **Display - Lines**	Σ **Highlight**	Σ **Narrowing**	Σ𝓍 **Smartparens**	Σ **Web**
Σ **Case Conversions**	Σ **Drawing**	Σ **ibuffer-mode**	Σ **Navigation**	Σ **Sorting**	Σ **Whitespace**
Σ **Closing/ Suspending**	Σ **Enriched Text**	Σ **Indentation**	Σ **Outline**	Σ **Speedbar**	Σ **Windows**
Σ **Comments**	Σ **Faces/Fonts**	Σ **Input Method**	Σ **Packages**	Σ **Spell Checking**	Σ **Xref** - Cross References
Σ **Completion/Input**	Σ**P Fast Startup**	Σ **Inserting Text**	Σ𝓍 **Projectile**	Σ **SyntaxCheck**	
Σ **Counting**	Σ **File-mngt**	Σ **Key-Chords**	Σ **Rectangles**	T **Templates**	
ΣM **CUA**	Σ **File/Directory Variables**	Σ **Keyboard Macros**	Σ **Registers**	Σ **Text Modes**	

ℒΣℒ **- Emacs Lisp concepts & tools**	ℒ **ERT**	ℒ **Hooks**	ℒ⁂ **- Emacs Lisp Types**

XRef - Cross Reference Tools

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. 🚧 This is work in progress.

🔒 **Xref-Support**	🔒 **Xref-Backend**

Build Tools

PEL has support for several build tools but they are not all documented in a page.
Aside from the list below, PEL supports installation and partial setup of the following tools:
• **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.

Σℒ **- Make**

Data Serialization Languages

Ⓓ **CWL**	Ⓓ **YAML**

Markup Languages

ℳ **AsciiDoc**	ℳ **Graphviz Dot**	ℳ **Markdown**	ℳ **Org-Mode**	ℳ **PlantUML**	ℳ **reStructuredText**

Programming Languages

Main Paradigm of Programming Language Families
• *Actor Model:* Ⓐ
• *Concatenative* Ⓚ
• *Concurrent:* Ⓒ
• *Functional:* ⓕ *Pure:* Ⓕ
• *Imperative:* Ⓘ *or no token*

• The programming languages supported by PEL are listed here in alphabetical order.
• PEL also provides basic support for other programming languages not listed here.
• Emacs supports other programming languages directly, not listed here.
Upcoming support for Elm, Purescript, ReasonML, Typescript and documentation of support for Javascript.

Emacs has support for several programming languages. PEL currently adds extra support for some of them, listed below.
• The number of programming languages supported explicitly by PEL will grow over time.

BEAM Programming Languages	*Functional Languages*	**Javascript target**	**Lisp Family Languages**	**Lisp-like Languages**	**Command Line Scripting Languages**
Curly Bracket Languages	**Java Virtual Machine Languages**	**ML Family Languages**	**Scheme Language Dialects**	**Stack Based Languages**	**OS App Control Scripting Languages**

The following lists the programming languages in alphabetical order.
• The cell colours give a coarse indication of the programming language family(ies).

Σℒ **- AppleScript**	Σℒ **- Clojure** ⓕ	Σℒ **- Forth** Ⓚ	Σℒ **- Hy**	Σℒ **- OCaml** Ⓘⓕ	Σℒ **- Ruby**
Σℒ **- Arc** ⓕ	Σℒ **- Common Lisp** ⓕ	Σℒ **- Gambit**	Σℒ **- Janet** ⓕ	Σℒ **- Perl**	Σℒ **- Rust**
Σℒ **- C**	Σℒ **- D** ⓘⓕⒶ	Σℒ **- Gerbil** ⓕⒶ	Σℒ **- Javascript**	Σℒ **- Python**	Σℒ **- Scheme** ⓕ
Σℒ **- C++**	Σℒ **- Elm** Ⓕ	Σℒ **- GNU Guile** ⓕ	Σℒ **- Julia**	Σℒ **- Purescript** Ⓕ	Σℒ **- Typescript**
Σℒ **- Chez** ⓕ	Σℒ **- Elixir** ⒸⓕⒶ	Σℒ **- Gleam**	Σℒ **- LFE** ⒸⓕⒶ	Σℒ **- Racket** ⓕ	Σℒ **- UNIX Shell**
Σℒ **- Chibi**	ℒΣℒ **- Emacs Lisp**	Σℒ **- Go**	Σℒ **- NetRexx**	Σℒ **- ReasonML**	Σℒ **- V**
Σℒ **- Chicken** ⓕ	Σℒ **- Erlang** ⒸⓕⒶ	Σℒ **- Haskell** Ⓕ	Σℒ **- Nim**	Σℒ **- REXX**	