

















Customizing Emacs with PEL

Operation	Keystroke	Function	Note
PEL: Control Emacs via Easy Customization	<p>PEL is designed to help you get going quickly with Emacs. Instead of having to write Emacs Lisp code, you use Emacs easy-to-use customization system. This table shows how to quickly gain access to the customized data using commands that open buffers that show the customized data inside buffers that operate in the Customize mode with special key bindings to speed up operation in that mode.</p> <ul style="list-style-type: none">The first section shows navigation commands available inside a buffer that shows customized data (also called user options).The later sections show commands that you can use to open buffers in Customization Mode to manage user options of interest. <p>PEL - Configuration through Customization</p> <ul style="list-style-type: none">PEL provides a growing set of customization groups and user option variables that control several aspects of Emacs:<ul style="list-style-type: none">The “pel-use-“ activation user options identify what built-in or external Emacs Lisp package to use. PEL has logic to autoload the packages only when you need them. This way your Emacs will start quickly even if you have identified a large number of packages.Once a package or feature is activated with the “pel-use-” user option, the other options control different behaviour of the activated package. <p>👉 Once you have modified the configuration, execute M-x pel-init. PEL will activate the new configuration.</p>		
Customization Data	<p>By default Emacs stores the customization data inside the Emacs init.el file, along with your other configuration, as Lisp code inside a custom-set-variable form.</p> <ul style="list-style-type: none">When using PEL, and perhaps even if you’re not, it’s best to have Emacs store this data inside a <i>separate file</i> that you can put under VCS control independently from your init.el file. PEL promotes storing it inside the file ~/.emacs.d/emacs-customization.el.Store the following Emacs Lisp code snippet inside your init.el file to do so: <pre>(setq custom-file "~/emacs.d/emacs-customization.el") (load custom-file)</pre> <ul style="list-style-type: none">When using PEL, that code must be located before the call to pel-init.The use of a file to store Emacs customization data separate from the Emacs init.el file provides another degree of freedom and flexibility. It becomes possible to easily distribute a configuration to several computers (or even users) without sharing more private information that can be kept inside the init.el file.		
Customize Mode	This section describes commands available in buffer operating in Customize-mode showing the various user options you got access to using the commands described in the sections below.		
Move to Avy/Ace target See also:🔗 Navigation	o	(ace-link-custom)	<ol style="list-style-type: none">Highlight each target with an Avy/Ace single or double letter target.Type the letter(s) to move to that position. <ul style="list-style-type: none">This is a very efficient and quick navigation mechanism.📦 Requires ace-link external package 📖 PEL downloads, installs and activates it when the pel-use-ace-link user option is set to t.
Apply customization changes	C-c C-c	(Custom-set &rest IGNORE)	Set the current value of all edited settings in the buffer.
Apply and Save customization changes	C-x C-s	(Custom-save &rest IGNORE)	Set all edited settings, then save all settings that have been set. <ul style="list-style-type: none">If a setting was edited and set before, this saves it. If a setting was merely edited before, this sets it then saves it.
Quit Customization and close buffer	q	(Custom-buffer-done &rest IGNORE)	Exit current Custom buffer according to ‘custom-buffer-done-kill’.
Emacs Easy Customization	<p>With the following command you can gain access to the Customize-mode to customize anything of interest. With the first command you open the customization buffer and then you can search or browse what you want to customize. The second command allow you to open the buffer at a specific customization group and the third one at a specific user option. These commands prompt for the information you are looking for. You can always use completion by typing <tab> at any point to get a list of available groups or variables.</p> <p>Several of the commands below open the PEL customization group and one or several other groups related to the same topic, when these groups are already loaded.</p> <ul style="list-style-type: none">If you set the OTHER-WINDOW argument, the command open s the buffer in another window and also open any group related that exists. For example if you open the PEL group for grep with C-u <f11> <f2> g, this will also open the grep group, the rg and ripgrep groups if they are loaded. Each group will open inside its own bugger and the command will create the necessary windows.⚠️ Until a package is loaded its customization group is unknown to Emacs and no buffer will be opened for it. To see the customization group, first load the package via one of its command that is auto-loaded or load it explicitly.<ul style="list-style-type: none">👉 PEL helps by detecting those and prompting, asking you if you want to load these extra libraries in order to customize them.		
Customize Emacs	<f11> <f2> E	(customize)	Select a customization buffer which you can use to set user options. <ul style="list-style-type: none">User options are structured into "groups".Initially the top-level group ‘Emacs’ and its immediate subgroups are shown; the contents of those subgroups are initially hidden.
Customize a specific group	<f11> <f2> G	(customize-group &optional GROUP OTHER-WINDOW)	Customize GROUP, which must be a customization group. <ul style="list-style-type: none">If OTHER-WINDOW is non-nil (use C-u), display in another window.
Customize a user option	<f11> <f2> o	(customize-option SYMBOL)	Customize SYMBOL, which must be a user option.
Customize Specific Emacs Groups. Customize:	<p>The following key bindings are mapped to PEL commands that open the customization buffer for one of Emacs specific customization group. These are all specializations of calls to the customize-group command. They are defined commands with their own name so they can be displayed by which-key in Emacs mini-buffer. These commands are also referred in the pages that use the related commands.</p> <p>👉 If you prefix the following commands with C-u PEL will also open the customization groups related to the specific feature.</p> <p>👉 Several PEL customization groups have a “see also” link button that opens the local <i>semi-quick</i> sheet PDF file. These describe the bindings and the impact of the relevant user options.</p>		
Abbreviation See also: 🔗 Abbreviations	<f11> <f2> M-g a	(pel-cfge-abbrev &optional OTHER-WINDOW)	Customize Emacs abbrev group which includes: abbrev-mode, dynamic-abbreviations,expand,hippie-expand, quickurl
Buffer Menu See also:🔗 Buffers	<f11> <f2> M-g b	(pel-cfge-Buffer-menu &optional OTHER-WINDOW)	Customize PEL Buffer menu support. <ul style="list-style-type: none">If OTHER-WINDOW is non-nil (use C-u), display in other window.
webjump	<f11> <f2> M-g j	(pel-cfge-webjump &optional OTHER-WINDOW)	Customize webjump. With C-u , display in another window.
locate	<f11> <f2> M-g l	(pel-cfge-locate &optional OTHER-WINDOW)	Customize locate. With C-u , display in another window.
man	<f11> <f2> M-g m	(pel-cfge-man &optional OTHER-WINDOW)	Customize man. With C-u , display in another window.
browse-url	<f11> <f2> M-g u	(pel-cfge-browse-url &optional OTHER-WINDOW)	Customize browse-url. With C-u , display in another window.
woman	<f11> <f2> M-g w	(pel-cfge-woman &optional OTHER-WINDOW)	Customize woman. With C-u , display in another window.
Customize PEL	<p>The following commands opens the Emacs customization group related to a PEL topic. None of these commands prompt; they open the customization buffer at the requested group.</p> <p>👉 If you prefix the following commands with C-u PEL will also open the customization groups related to the specific feature.</p> <p>⚠️👉 To activate any PEL customization change in the current session, execute M-x pel-init after you saving and applying the customized variable. For motion variables that control mode hooks (eg. the flyspell automatic activation for specific major modes), you also need to restart Emacs.</p>		
All PEL	<f11> <f2> !	(pel-cfg &optional OTHER-WINDOW)	Customize PEL support. <ul style="list-style-type: none">If OTHER-WINDOW is non-nil (use C-u), display in another window.

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Permanently change the cursor's color See also: » Cursor	<f11> <f2> M-c	(pel-customize-cursor &optional OTHER-WINDOW)	Quicks access to the customize buffer to set the cursor default color. <ul style="list-style-type: none"> It sets the color permanently if the customization is saved. If OTHER-WINDOW is non-nil (use C-u), display in another window. ⚠️ Only available in graphics mode.
Cursor Support See also: » Cursor	<f11> <f2> _	(pel-cfg-pkg-cursor &optional OTHER-WINDOW)	Customize PEL cursor support. Multiple-cursors is controlled here. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open the buffers to customize iEdit and multiple-cursor.
Bookmark Support See also: » Bookmarks	<f11> <f2> '	(pel-cfg-pkg-bookmark &optional OTHER-WINDOW)	Customize PEL Bookmark support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u) , display in other window and open bookmark support specific groups: bm
Buffer Management Support See also: <ul style="list-style-type: none"> » Buffers » Highlight 	<f11> <f2> b	(pel-cfg-pkg-buffer &optional OTHER-WINDOW)	Customize PEL Buffer management and highlight support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u) , display in other window and open buffer and highlighting specific groups: rainbow-delimiters, vline, nhexl, fill-column-indicator.
Completion Support	<f11> <f2> c	(pel-cfg-pkg-completion &optional OTHER-WINDOW)	Customize PEL Completion support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u) , display in other window.
Dired support	<f11> <f2> d	(pel-cfg-pkg-dired &optional OTHER-WINDOW)	Customize PEL Dired support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u) , display in other window and open Dired related groups.
PEL File/Directory Management See also: » File-mngt	<f11> <f2> f	(pel-cfg-pkg-filemng &optional OTHER-WINDOW)	Customize PEL File Management and package support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in other window and open file management related groups: Emacs file.
Grep	<f11> <f2> g	(pel-cfg-pkg-grep &optional OTHER-WINDOW)	Customize PEL Grep support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open grep related groups.
Text Insertions	<f11> <f2> I	(pel-cfg-insertions &optional OTHER-WINDOW)	Customize PEL text insertion support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open insertion related and supported groups: lice, smart-dash, yasnipnet and yasnipnet-snippets.
Keyboard Macros extra packages See also: » Keyboard Macros	<f11> <f2> k	(pel-cfg-pkg-kbmacro &optional OTHER-WINDOW)	Customize the PEL keyboard macro external package support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open the buffer to customize: centimacro, elmacro.
Key Chords See also: » Key-Chords	<f11> <f2> K	(pel-cfg-pkg-key-chord &optional OTHER-WINDOW)	Customize PEL Key Chord support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window.
Navigation See also: » Navigation	<f11> <f2> n	(pel-cfg-pkg-navigation &optional OTHER-WINDOW)	Customize PEL navigation tools support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open navigation tool related groups.
Customize Projectile See also: » Projectile	• <f11> p <f2> • <f8> <f2>	(pel-customize-projectile)	Open the projectile customization group where you can modify projectiles configuration.
Regular Expression	<f11> <f2> r	(pel-cfg-pkg-regexp &optional OTHER-WINDOW)	Customize PEL regular expression tool support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window.
Search	<f11> <f2> s	(pel-cfg-pkg-search &optional OTHER-WINDOW)	Customize PEL Search support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open search related groups.
Session Management	<f11> <f2> S	(pel-cfg-pkg-session &optional OTHER-WINDOW)	Customize PEL Session support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window.
Speedbar Management	<f11> <f2> M-s	(pel-cfg-pkg-speedbar &optional OTHER-WINDOW)	Customize PEL Speedbar support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open speedbar management groups.
Spell Checking Control	<f11> <f2> \$	(pel-cfg-pkg-spelling &optional OTHER-WINDOW)	Customize PEL spell checking control: identify which major modes will automatically activate either flyspell-mode or flyspell-prog-mode. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open ispell and flyspell management group.
Window management	<f11> <f2> w	(pel-cfg-pkg-window &optional OTHER-WINDOW)	Customize PEL Window support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open window management groups.
Configure PEL Programming Language support	The following commands opens the Emacs configuration group to configure PEL support for the specified programming language. <ul style="list-style-type: none"> You should be able to control most of the important features of the programming languages through these customizations including the activation of important packages as well as aspects of programming language styles like indentation style and width. The <f11> <f2> SPC key prefix is available globally (for all buffers). The <f12> <f2> key is only available when point is in a buffer for one of the languages supported by PEL and open the PEL customization group for the programming language for the current buffer. ⚠️ 🗨️ To activate any PEL customization change in the current session, execute M-x pel-init after you saving and applying the customized variable. 🗨️ If you prefix the following commands with C-u PEL will also open the customization groups related to the specific feature.		
AppleScript & Text-to-Speech (audio narration)	• <f11> <f2> SPC a • <f12> <f2>	(pel-cfg-pkg-applescript &optional OTHER-WINDOW)	Customize PEL Applescript support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window.
C See also: » C	• <f11> <f2> SPC c • <f12> <f2>	(pel-cfg-pkg-c &optional OTHER-WINDOW)	Customize PEL C support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open C programming groups: c.
C++ See also: » C++	• <f11> <f2> SPC C • <f12> <f2>	(pel-cfg-pkg-c++ &optional OTHER-WINDOW)	Customize PEL C++ support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open C++ programming groups: cpp.
D See also: » D	• <f11> <f2> SPC D • <f12> <f2>	(pel-cfg-pkg-d &optional OTHER-WINDOW)	Customize PEL D support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open D programming groups: d-mode.
Emacs Lisp See also: <ul style="list-style-type: none"> » Emacs Lisp » Lispy 	• <f11> <f2> SPC l • <f12> <f2>	(pel-cfg-pkg-elisp &optional OTHER-WINDOW)	Customize PEL Elisp support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open Elisp programming groups: elint, eldoc, lispy.
Elixir See also: <ul style="list-style-type: none"> » Elixir 	• <f11> <f2> SPC x • <f12> <f2>	(pel-cfg-pkg-elixir &optional OTHER-WINDOW)	Customize PEL Elixir support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open Elixir programming groups: alchemist, alchemist-lex.
Erlang See also: » Erlang	• <f11> <f2> SPC e • <f12> <f2>	(pel-cfg-pkg-erlang &optional OTHER-WINDOW)	Customize PEL Erlang support. <ul style="list-style-type: none"> If OTHER-WINDOW is non-nil (use C-u), display in another window and open Erlang programming groups: erlang, erldoc, edts, auto-highlight-symbol.

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Forth See also: ⌘I - Forth	<ul style="list-style-type: none"> • <f11> <f2> SPC f • <f12> <f2> 	(pel-cfg-pkg-forth &optional OTHER-WINDOW)	Customize PEL Forth support. <ul style="list-style-type: none"> • If OTHER-WINDOW is non-nil (use C-u), display in another window.
Julia See also: ⌘I - Julia	<ul style="list-style-type: none"> • <f11> <f2> SPC j • <f12> <f2> 	(pel-cfg-pkg-julia &optional OTHER-WINDOW)	Customize PEL Julia support. <ul style="list-style-type: none"> • If OTHER-WINDOW is non-nil (use C-u), display in another window and open Julia programming groups: julia, julia-mode, julia-snail.
Common Lisp See also: <ul style="list-style-type: none"> • ⌘I - Common Lisp 	<ul style="list-style-type: none"> • <f11> <f2> SPC L • <f12> <f2> 	(pel-cfg-pkg-lisp &optional OTHER-WINDOW)	Customize PEL Lisp support. <ul style="list-style-type: none"> • If OTHER-WINDOW is non-nil (use C-u), display in another window and open Lisp programming groups: lisp, lispy.
Python See also: ⌘I - Python	<ul style="list-style-type: none"> • <f11> <f2> SPC p • <f12> <f2> 	(pel-cfg-pkg-python &optional OTHER-WINDOW)	Customize PEL Python support. <ul style="list-style-type: none"> • If OTHER-WINDOW is non-nil (use C-u), display in another window and open Python programming groups: python, python-flymake.
REXX See also: ⌘I - REXX	<ul style="list-style-type: none"> • <f11> <f2> SPC R • <f12> <f2> 	(pel-cfg-pkg-rexx &optional OTHER-WINDOW)	Customize PEL REXX support. <ul style="list-style-type: none"> • If OTHER-WINDOW is non-nil (use C-u), display in another window.
Configure PEL Markup support	<p>The following commands opens the Emacs customization group related to configure PEL support for the specific markup language.</p> <ul style="list-style-type: none"> • The <f11> <f2> SPC key prefix is available globally (for all buffers). • The <f12> <f2> key is only available when point is in a buffer for one of the languages supported by PEL and open the PEL customization group for the markup language for the current buffer. <p>⚠️👉 To activate any PEL customization change in the current session, execute M-x pel-init after you saving and applying the customized variable.</p>		
reStructuredText See also: <ul style="list-style-type: none"> • M reStructuredText 	<ul style="list-style-type: none"> • <f11> <f2> SPC r • <f12> <f2> 	(pel-cfg-pkg-reST &optional OTHER-WINDOW)	Customize PEL Rest support. <ul style="list-style-type: none"> • If OTHER-WINDOW is non-nil (use C-u), display in another window and open rst group.
Graphviz DOT See also: <ul style="list-style-type: none"> • M Graphviz Dot 	<ul style="list-style-type: none"> • <f11> <f2> SPC g • <f12> <f2> 	(pel-cfg-pkg-graphviz-dot &optional OTHER-WINDOW)	Customize PEL Graphviz-Dot support. <ul style="list-style-type: none"> • If OTHER-WINDOW is non-nil (use C-u), display in another window and open graphviz group.
PlantUML See also: M PlantUML	<ul style="list-style-type: none"> • <f11> <f2> SPC u • <f12> <f2> 	(pel-cfg-pkg-plantuml &optional OTHER-WINDOW)	Customize PEL PlantUML support. <ul style="list-style-type: none"> • If OTHER-WINDOW is non-nil (use C-u), display in another window and open plantuml-mode group.
Input Completion Mode Selection See also: ⌘ Completion/Input	<p>PEL supports several input completion modes that kick in with the M-x, C-x b, C-x C-f, <f1> o and many other commands. PEL supports the following input completion modes:</p> <ol style="list-style-type: none"> 1. Emacs' default tab completion 2.  Helm mode completion :  set pel-use-helm to t. 3. Ido mode completion :  set pel-use-ido to t 4.  Ivy mode completion :  set pel-use-ivy to t 5.  Ivy mode completion with Counsel mode :  set pel-use-counsel to t 6.  Ido/Helm mode where Ido is used for dealing with Files and buffers and Helm is used everywhere else (including all Helm specific commands). <p>🔧</p> <ul style="list-style-type: none"> • Use <f11><f1> c, to customize the PEL completion group user options above. • Set the pel-initial-completion-mode user option to select which completion mode is used when Emacs starts. <p>As soon as one of the extra completion mode is activated via the corresponding pel-use- user option, PEL makes the following commands available to change the completion mode and to see which one is currently active.</p>		
Select the completion mode	<f11> M-c	(pel-select-completion-mode)	Prompt user for completion mode to activate. The available modes depend on what is currently activated by customization. See the list above.
Show what completion mode is currently used.	<f11> ? c	(pel-show-active-completion-mode)	Display the completion mode currently used.
Search Tools Selection See also: ⌘ Search/Replace	<p>PEL supports several search tools that impact the way the C-s command operates. PEL supports the following search tools:</p> <ul style="list-style-type: none"> • Emacs' default ISearch •  Anzu, ISearch with match count :  set pel-use-anzu to t. •  Swiper search with overview match list :  set pel-use-swiper to t <p>🔧 Use <f11><f1> s, to customize the PEL completion group user options above.</p> <ul style="list-style-type: none"> • Set the pel-initial-search-tool user option to select which search tool is used when Emacs starts. <p>As soon as one of the extra search tool is activated via the corresponding pel-use- user option, PEL makes the following commands available to change the currently used search tool and to see which one is currently active.</p>		
Show which search tool is currently used	<f1> ? s	(pel-show-active-search-tool)	Display the currently used search tool.
Select search tool to use	<f11> s s	(pel-select-search-tool)	Prompt user for search tool to use with C-s . Show new active one. <ul style="list-style-type: none"> • Emacs normally maps the search-forward command to C-s. • PEL provides the ability to activate the following tools that can be activated for searching: •  The Anzu external package  activated by pel-use-anzu user option. Anzu provides a match count in the modeline when search command is used. •  The Swiper external package  activated by pel-use-swiper user option. Swiper is not using isarch-forward; it shows a list of matching lines in the mini-buffer. • 🧰 Use the <f11> <f2> s command to open the PEL search customize group and set the pel-initial-search-tool user option to identify which tool is used when Emacs starts. <p>👉 Being able to search using either Emacs default ISearch (see below) and Swiper helps as they are both very useful in different scenarios.</p>