Customizing Emacs with PEL

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>	
PEL: Control Emacs via Easy Customization	customization system. This table shows how to quickl buffers that operate in the Cust The first section shows navig The later sections show com	y gain access to the customized da tomize mode with special key bindi gation commands available inside a imands that you can use to open b	d of having to write Emacs Lisp code, you use Emacs easy-to-use that using commands that open buffers that show the customized data inside the new that shows to speed up operation in that mode. buffer that shows customized data (also called user options). Uffers in Customization Mode to manage user options of interest.	
	 PEL - Configuration through Customization PEL provides a growing set of customization groups and user option variables that control several aspects of Emacs: The "pel-use-" activation user options identify what built-in or external Emacs Lisp package to use. PEL has logic to autoload the 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 activate. Once you have modified the configuration, execute M-x pel-init. PEL will activate the new configuration. 			
Open this PDF file. See also: <u>N Help/Info</u>	<f11> <f2> <f1></f1></f2></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the <u>National Control Customize</u> local PDF. If the prefix argument (like C-u or M) is used, then it opens the remote GitHub hosted raw PDF instead. If the pelflip-help-pdf-arg user-option is set it's the other way around.	
Customization Data See also: PEL user-manual	By default Emacs stores the customization data inside the Emacs init.el file as Lisp code inside a custom-set-variable form. • PEL stores it inside a separate file, allowing dynamic selection of several files and storage into VCS independent from the init.el logic. • By default, PEL stories it inside the file ~/.emacs.d/emacs-customization.el. • PEL supports using 2 independent customization files: one for Emacs running in terminal/TTY mode and another running in graphics mode. • Type <f11> <f2> ? to see what is the current setup. • Type <f11> <f2> M-d to activate the use of 2 independent files. • In all cases your init.el file must set the custom-file value using code like the following: (setq custom-file) "^/.emacs.d/emacs-customization.el") (load custom-file) • On Emacs 27 and later you may also have to set it inside the early-init.el file. • When using PEL, that code must be located before the call to pel-init. PEL provides examples of init.el and early-init.el and provides commands to setup a dual customization file. • 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.</f2></f11></f2></f11>			
Display name of customization file. Show whether PEL dual independent customization is used or not.	• <f11> ? e <f2> • <f11> ? ?</f11></f2></f11>	(pel-setup-info-dual- environment)	Display current PEL customization setup. Check two independent customization files for terminal/tty and graphics mode are requested and if so check if they are setup properly. Report an error and list problems if there are any, otherwise display the current setup.	
See also: <u>∑ Help/Info</u>			⚠ After executing that command you will have to edit your init.el file and set the pel-use-graphic-specific-custom-file-p symbol to t. See the OPTION A inside the init-5.el example file.	
Activate PEL independent customization for Emacs in	<f11> <f2> M-d</f2></f11>	(pel-setup-dual-environment)	Setup Emacs environment to support 2 independent customization. • Prompts before proceeding.	
terminal/TTY mode and Emacs in graphics mode	Normally Emacs makes no distinction between those and uses the exact same set of customization files and Elpa packages for Emacs operating in those two different modes. If you want to manage the customization and packages used when Emacs operates in terminal/TTY mode one was and when Emacs operates in graphics mode another way, with PEL, then use that command. • Provide support for a customization and the Elpa directories required for the following two modes Emacs operation: • terminal/TTY mode • graphics mode • After trying to set everything for the use of dual environment it displays a message describing the state. It lists the actions performed and any remaining problems which you will have to fix manually. If all is now OK it will say so, or if all was already ok, it will also say so.			
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: <u></u> Navigation	o	(ace-link-custom)	Highlight each target with an Avy/Ace single or double letter target. Type the letter(s) to move to that position. This is a very efficient and quick navigation mechanism.	
			PRequires 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)		
Apply and Save customization	C-c C-c C-x C-s	(Custom-set &rest IGNORE) (Custom-save &rest IGNORE)	activates it when the pel-use-ace-link user option is set to t .	
Apply customization changes Apply and Save customization changes Quit Customization and close buffer		,	activates it when the pel-use-ace-link user option is set to t. Set the current value of all edited settings in the buffer. Set all edited settings, then save all settings that have been set. • If a setting was edited and set before, this saves it. If a setting was merely	
Apply and Save customization changes Quit Customization and close buffer Browse customize data	q The following commands creat down to a single options and a	(Custom-save &rest IGNORE) (Custom-buffer-done &rest IGNORE) e a tree browser for the customize ny can be collapsed. Note that PE	activates it when the pel-use-ace-link user option is set to t. Set the current value of all edited settings in the buffer. Set all edited settings, then save all settings that have been set. If a setting was edited and set before, this saves it. If a setting was merely edited before, this sets it then saves it. Exit current Custom buffer according to 'custom-buffer-done-kill'.	
Apply and Save customization changes Quit Customization and close	q The following commands creat down to a single options and a	(Custom-save &rest IGNORE) (Custom-buffer-done &rest IGNORE) e a tree browser for the customize ny can be collapsed. Note that PE	activates it when the pel-use-ace-link user option is set to t. Set the current value of all edited settings in the buffer. Set all edited settings, then save all settings that have been set. If a setting was edited and set before, this saves it. If a setting was merely edited before, this sets it then saves it. Exit current Custom buffer according to 'custom-buffer-done-kill'.	
Apply and Save customization changes Quit Customization and close buffer Browse customize data tree Browse complete customize	C-x C-s q The following commands creat down to a single options and a ones that will be available in the	(Custom-save &rest IGNORE) (Custom-buffer-done &rest IGNORE) e a tree browser for the customize ny can be collapsed. Note that PE e Emacs group because the Emacs (customize-browse &optional	activates it when the pel-use-ace-link user option is set to t. Set the current value of all edited settings in the buffer. Set all edited settings, then save all settings that have been set. If a setting was edited and set before, this saves it. If a setting was merely edited before, this sets it then saves it. Exit current Custom buffer according to 'custom-buffer-done-kill'. Exit current Custom buffer according to 'custom-buffer-done-kill'. Interarchy inside a *Customize Browser* buffer. Each node can we expanded L's customization groups and options are all always available contrary to the group contains only what is currently loaded and the PEL one is always loaded. Open the customize tree bowser for the entire Emacs customization data already loaded. Unfortunately this command does not prompt it always opens the tree from the root. To specify a group use the command shown below. Emacs is only able to show information it knows about. Customization	
Apply and Save customization changes Quit Customization and close buffer Browse customize data tree Browse complete customize data tree from root: Emacs	C-x C-s q The following commands creat down to a single options and a ones that will be available in th <f11> <f2> B ✓f11> <f2> b ♣ Emacs can only show inform the library is not loaded and</f2></f2></f11>	(Custom-buffer-done &rest IGNORE) (Custom-buffer-done &rest IGNORE) e a tree browser for the customize my can be collapsed. Note that PE e Emacs group because the Emacs (customize-browse &optional GROUP) (pel-browse-group GROUP)	activates it when the pel-use-ace-link user option is set to t. Set the current value of all edited settings in the buffer. Set all edited settings, then save all settings that have been set. If a setting was edited and set before, this saves it. If a setting was merely edited before, this sets it then saves it. Exit current Custom buffer according to 'custom-buffer-done-kill'. Exit current Custom buffer according to 'custom-buffer-done-kill'. Interarchy inside a *Customize Browser* buffer. Each node can we expanded L's customization groups and options are all always available contrary to the group contains only what is currently loaded and the PEL one is always loaded. Open the customize tree bowser for the entire Emacs customization data already loaded. Unfortunately this command does not prompt it always opens the tree from the root. To specify a group use the command shown below. Emacs is only able to show information it knows about. Customization data defined in files not loaded will not be accessible. Browse the customization tree from a specific group node. Prompts for a group name. Supports tab completion.	

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>	
Emacs Easy Customization	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></tab> at any point to get a list of available groups or variables. 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.			
	 If you set the OTHER-WINDOW argument, the command open s the buffer in another window and also open any group related that exists. Fexample 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 the are loaded. Each group will open inside its own bugger and the command will create the necessary windows.</f2></f11> 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. Note however that the PEL commands that open customization groups attempt to identify the library where the customization group is 			
	defined and will prompt you to load the related library to enable access to the customization group. The groups accessible via the PEL commands are limited to what PEL supports.			
Customize Emacs	<f11> <f2> c</f2></f11>	(customize)	Select a customization buffer which you can use to set user options. 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. Emacs is only able to show information it knows about. Customization data defined in files not loaded will not be accessible.	
Customize a specific group	<f11> <f2> g</f2></f11>	(customize-group &optional GROUP OTHER-WINDOW)	Customize GROUP, which must be a customization group. If OTHER-WINDOW is non-nil (use C-u), display in another window. This command provides completion and you can use it to detect groups. Emacs is only able to show the name names of groups that are defined in files that have already been loaded. You won't be able to open a group that is not already loaded. The pel-customize-library commands available as the <f3> key of PEL key prefixes does not suffer from this problem: it will detect that the library is not loaded and will prompt you for loading it, giving you access to the customization buffer when you need it. The information is available in the various PDF pages at the top of each page.</f3>	
Customize a user option	<f11> <f2> o</f2></f11>	(customize-option SYMBOL)	Customize SYMBOL, which must be a user option. • As with groups, Emacs provides completion for user options, allowing you to detect user options. • Emacs is only able to show the name names of user options that are defined in files that have already been loaded. You won't be able to open a group that is not already loaded. But see the notice in the above cell.	
Set and store new value for user-option	<f11> <f2> v</f2></f11>	(customize-save-variable VARIABLE VALUE &optional COMMENT)	Set the default for VARIABLE to VALUE, and save it for future sessions in the customize file. • Prompts for the user-option name, supporting tab completion. • Propose values controlled by customization selections. • As opposed to the commands above this does not open a customization buffer. • Use this to quickly change a PEL pel-use- user-option if you know its documentation and do not want to open a customization buffer.	
Activate and cleanup your packages using PEL customization user- variables	PEL provides customization-driven package management. PEL controls download, installation and configuration of the packages supported by its pel-use- user-options controlled by the PEL customization groups. The packages missing are installed when you start Emacs or when you explicitly run the pel-init command. PEL also removes the packages that are not required by the PEL user-options when you issue the pel-cleanup command. Use a key prefix for this command to perform a dry-run of the command and produce a report of what would be removed. PEL does not delete packages. Instead it places them into separate directories, called "attic" directories. You can then retrieve the package from the directories later. The elpa packages are stored in the directory identified by package-user-dir or in the "elpa" directory inside the user-emacs-directory. The elpa attic is identified by a name that appends "-attic" to the above directory name. On a Unix-like system that would normally be "~/.emacs.d/elpa" and "~/.emacs.d/elpa-attic". The non-elpa files are stored in the directory identified by the pel-utils-dirname user-options (which defaults to "utils") inside the directory identified by the user-emacs-directory. By default, on Unix-like systems the directories are "~/.emacs.d/utils" and "~/.emacs.d/utils-attic". On Windows system the directories are located in your User directory, as controlled by Emacs. Also on Emacs 27.1 and later these directories can be located somewhere else.			
Re-initialize PEL, activate the new PEL user-option, install packages newly requested	M-x pel-init	(pel-init &optional CACHED-ABBREV-FILE-NAME)	Re-initialize PEL. Download, install and configure any package requested by the various pel-use- user-options that have not yet been installed. Does not remove anything. Use pel-cleanup for that. The argument is not accessible interactively and exists for the initial Emacs startup only.	
Show PEL user option and package info See also: <u>N Help/Info</u>	<f11> ? e ?</f11>	(pel-package-info &optional FULL-REPORT)	Display the following information in the echo area: • The number of PEL user-options, and the number of them that are active. • The number of Elpa packages active: the count of the ones directly installed because of active PEL user-options and the count of them installed as dependencies of the first group. • The number of Emacs Lisp files stored in the ~/.emacs.d/utils (or equivalent directory) as a result of PEL user options. • With optional argument, generates a full report with much more details in a *pel-user-options* report buffer. Any key prefix works. M <f11>? e ? for example.</f11>	
Disable all packages not requested by PEL user-options and not identified as dependency or packages that must be kept. Update the load path and the customization file content.	M-x pel-cleanup	(pel-cleanup &optional DRY-RUN)	After prompting for a confirmation, de-activates all Elpa and non-Elpa packages that are not requested by a PEL user-option. The command keeps packages that are dependencies of packages required by PEL user-options and packages that PEL always requires. It also keeps packages that you have identified as manually installed in the following user options: • pel-elpa-packages-to-keep • pel-utils-packages-to-keep • For the current version of PEL when you install an Emacs package with the Emacs package system, PEL does not automatically add the package name in the pel-elpa-packages-to-keep user-option. If you want to keep that package and configure it yourself with your own Emacs Lisp code invoked by your init.el file, add the package symbol name to the list of pel-elpa-packages-to-keep otherwise pel-cleanup will move the package to the elpa-attic.	
Perform a dry-run of pel- cleanup. Generate a detailed report.	M M-x pel-cleanup		Runs pel-cleanup in dry-mode and produce a detailed report of what pel-pel-cleanup would remove in a *pel-cleanup* buffer.	

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>	
Input Completion Mode Selection	PEL supports several input cor the following input completion 1. Emacs' default tab con	modes:	M-x, C-x b, C-x C-f, <f1> o and many other commands. PEL supports</f1>	
See also:	2. W Helm mode comple	etion : 🛂 set pe	I-use-helm to t.	
• <u>∑ Completion/Input</u>	3. Ido mode completi	on : 🛂 set pe	I-use-ido to t	
• <u>∑ Menus</u> • <u>∑ Navigation</u>	4. V Ivy mode completion		I-use-ivy to t	
· <u>// Navigation</u>	 5. Ivy mode completion with Counsel mode: described is used for dealing with Files and buffers and Helm is used everywhere else (including all Helm specific commands). 			
	 PEL also has commands that uses the iMenu system to list symbol defined in the current or all buffers. The behaviour and user interface or these commands can be modified and extended by several external packages and customization user-options: pel-imenu-follows-order-p user-option controls whether entries are sorted or follows the order of declaration in the file. 			
	 Image: Personal package activated by pel-use-flimenu user-option, controls whether iMenu lists are flatten or hierarchical. Image: Image: Image:			
	following values: • Use emacs-default: basic Emacs completion. Use tab to see possible matches.			
	• Use Ido. 🛂 pel-use-ido must be turned on.			
	 Use Ivy. Propriete Requires Ivy mode Propriete Propriete Requires Ivy must be on. Use helm. Requires Helm mode Propriete Propriete Propriete Requires Ivy must be turned on. 			
	 Use helm. Pequires Helm mode Pel-use-helm must be turned on. Popup-imenu external package cativated by pel-use-popup-imenu user-option, provides one pop-up menu for the iMenu 			
	content.			
	• popup-switcher ex more.	ternal package discribinated by pel	-use-popup-switcher user-option, provides the same as popup-imenu and	
	To customize the above, us	e:		
		o customize the PEL completion gro o customize the PEL iMenu user-opt	up user options. It is also available via M-g <f4> <f2>. tions.</f2></f4>	
	available to change the comple	tion mode and to see which one is		
Select the completion mode	<f11> M-c <f4></f4></f11>	(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> M-c ?</f11>	(pel-show-active-completion- mode)	Display the completion mode currently used.	
Search Tools Selection See also:	 PEL supports several search to Emacs' default ISearch Manzu, ISearch with ma 		mmand operates. PEL supports the following search tools: se-anzu to t.	
∑ Search/Replace	• Swiper search with ov			
		customize the PEL completion grou		
	• Set the pel-initial-search-tool user option to select which search tool is used when Emacs starts. 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.			
Show which search tool is currently used	<f1> ? s</f1>	(pel-show-active-search-tool)	Display the currently used search tool.	
Select search tool to use	<f11> s s</f11>	(pel-select-search-tool)	Prompt user for search tool to use with C-s . Show new active one.	
	 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 mode line when searching. The Swiper external package activated by pel-use-swiper user option. Swiper is not using isearch-forward; it shows a list of matching lines in the mini-buffer. Use the <f11> s <f2> 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.</f2></f11> Being able to search using either Emacs default ISearch (see below) and Swiper helps as they are both very useful in different scenarios. 			
Customize PEL support			elated to a PEL topic. Most of these commands do not prompt; they open the	
	customization buffer at the requested group. If you prefix the following commands with C-u PEL will also open the customization groups related to the specific feature. I global prefix the following commands with C-u PEL will also open the customization groups related to the specific feature. I global prefix the requested group.			
	Emacs.	that control mode nooks (eg. the hy	spell automatic activation for specific major modes), you also need to restart	
All PEL	<f11> <f2> P !</f2></f11>	(pel-cfg &optional OTHER-WINDOW)	Customize PEL support. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
PEL base	<f11> <f2> p</f2></f11>	(pel-customize-pel-base- emacs-group &optional OTHER- WINDOW)	Customize basic PEL configuration: open the pel-base-emacs group. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
Customize specific PEL group	The following key bindings almost all use the same PEL command: (pel-customize-pel & optional OTHER-WINDOW). The command detects the key sequence that invoked it to select the customization group to open. If there are more than one it prompts for the one to open. If a group is not loaded, PEL prompts for loading it. • All of these commands open the buffer inside another window if a prefix argument (like C-u) is typed first.			
<u></u> Align	<f11> t a <f2></f2></f11>	Customize PEL support for text ali	ignment.	
∑ Auto-Completion	<f11> , <f2></f2></f11>	Customize PEL auto-completion s	upport: auto-complete, company and hippie-expand.	
<u> ∑ Bookmarks</u>	<f11> ' <f2></f2></f11>	Customize PEL support for bookm	nark groups: bookmark, bm.	
<u>∑ Buffers</u>	<f11> b <f2></f2></f11>	Customize PEL support for buffer	management: hexl.	
∑ Comments	<f11> ; <f2></f2></f11>	Customize Emacs support for com	nment hide control: hide-cmnt.	
∑ Cursor	<f11> m <f2></f2></f11>	Customize PEL support for cursor	and multiple-cursors.	
∑ Filling/Justification	• <f11> t f <f2> • <f11> t j <f2></f2></f11></f2></f11>	Customize PEL support for:		
<u></u> Diff & Merge	<f11> d <f2></f2></f11>	Customize PEL support for diff: ztr	ree.	
<u>∑ Dired</u>	<f11> f <f2> 2</f2></f11>	Customize PEL support for dired,	directory editor.	
<u> </u>	<f11> D <f2></f2></f11>	Customize PEL drawing mode sup	pport.	
∑ Fast Startup	<f11> M-S <f2></f2></f11>	Customize PEL support for fast sta	artup mode.	
≫ File-mngt	<f11> f <f2> 1</f2></f11>			
> File-mngt - dir. tree browser	<f11> B <f2></f2></f11>	Customize PEL support for director	<u> </u>	
<u>// File-Inflyt</u> - uir. tree prowser	-1117 B \127	Customize PEL support for director	n y accomocio. accinidos, care	

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
<u>∑ File-mngt</u> - NeoTree	<f11> B N <f2></f2></f11>	Customize PEL support for NeoTree directory browser	
<u>∑ Frames</u>	<f11> F <f2></f2></f11>	Customize PEL frame management	nt support.
<u></u> Grep	<f11> g <f2></f2></f11>	Customize PEL grep support. Gro	pups: grep, ag, rg, ripgrep, wgrep.
<u>∑ Help/Info</u>	<f11> ? <f2></f2></f11>	Customize PEL help support.	
<u></u> Hide/Show	<f11> M-/ <f2></f2></f11>	Customize PEL support for comments: hide-cmnt, hide-lines.	
∑ Highlight	<f11> h <f2></f2></f11>	Customize PEL support for buffer highlight management: fill-column-indicator, vline, rainbow-delimiters.	
	<f11> <tab> <f2></f2></tab></f11>	Customize PEL support for:	
	<f11> i <f2></f2></f11>	Customize PEL text insertion support: lice, smart-dash, tempo, time-stamp, yasnippet	
∑ Keyboard Macros	• <f11> k <f2></f2></f11>	Customize the PEL keyboard macro external package support: centimacro, emacros, elmacro.	
	• <f11> k e <f2> • <f11> k 1 <f2></f2></f11></f2></f11>		
<u> ∑ Key-Chords</u>	<f11> <f5> k <f2></f2></f5></f11>	Customize PEL Key Chord support.	
Input Completion: <u>∑ Completion/Input</u>	• <f11> M-c <f2> • M-g <f4> <f2></f2></f4></f2></f11>	Customize PEL Input Completion support.	
<u>∑ Marking</u>	<f11> . <f2></f2></f11>	Customize PEL Marking support.	
<u>∑ Menus</u> - iMenu	<f11> <f10> <f2></f2></f10></f11>	Customize PEL imenu support.	
<u> Mode Line</u>	<f11> M-1 <f2></f2></f11>	Customize PEL mode line support	t
<u></u> Navigation	<f11> <f2> P n</f2></f11>	(pel-cfg-pkg-navigation &optional OTHER-WINDOW)	Customize PEL and Emacs navigation tools support. Provides access to the following customization groups: 1. PEL project management 2. avy • If OTHER-WINDOW is non-nil (use C-u), display in another window.
<u>> Projectile</u>	• <f11> <f2> P <f8></f8></f2></f11>	(pel-cfg-pkg-project-mng &optional OTHER-WINDOW)	Open the projectile customization group where you can modify projectiles configuration.
	• <f11> <f8> <f2> • <f8> <f2></f2></f8></f2></f8></f11>	(pel-customize-pel &optional OTHER-WINDOW)	 The key sequence <f11> <f2> P <f8> is always available, the others are only available when the projectile mode is activated.</f8></f2></f11> Available when the projectile external package is activated by PEL with the pel-use-projectile user option is non-nil.
∑ Scrolling	<f11> <f2></f2></f11>	Customize PEL Scrolling support.	
∑ Search/Replace	<f11> s <f2></f2></f11>	Customize PEL basic search support.	
Regular Expression Search/Replace	<f11> s x <f2></f2></f11>	Customize PEL regular expression tool support.	
∑ Sessions	<f11> S <f2></f2></f11>	Customize PEL Session support.	
<u>∑ Shells</u>	<f11> z <f2></f2></f11>	Customize PEL Shell support.	
∑ Speedbar	<f11> M-s <f2></f2></f11>	Customize PEL Speedbar support.	
∑ Spell Checking	<f11> \$ <f2></f2></f11>	Customize PEL support for: spell checking. Identify which major modes will automatically activate either flyspell-mode or flyspell-prog-mode.	
<u>∑ Xref</u> - cross reference	<f11> X <f2></f2></f11>	Customize PEL cross-reference support: ctags/etags/gtags	
<u> Text Modes</u>	• <f11> t <f2> • <f11> t m <f2< td=""><td colspan="2">Customize PEL text management support.</td></f2<></f11></f2></f11>	Customize PEL text management support.	
∑ Undo/Redo/Repeat/Arg	<f11> u <f2></f2></f11>	Customize PEL undo support.	
<u>∑ vcs</u>	<f11> v <f2></f2></f11>	Customize PEL Version Control Sy	ystem support.
<u></u> Windows	<f11> w <f2></f2></f11>	Customize PEL Window support.	
Yasnippet - <u>National Inserting Text</u>	<f11> y <f2></f2></f11>	Customize PEL Yasnippet text insertion support.	
Configure PEL Programming Language support	The following commands opens the Emacs configuration group to configure PEL support for the specified programming language. 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> SPC key prefixes are 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. When you use the <f11> SPC prefix, you can customize the Emacs language library support that might not even be loaded: PEL will detect if the corresponding library is loaded and will prompt you asking if you want to load it first, allowing Emacs to open the customization buffer. To activate any PEL customization change in the current session, execute M-x pel-init after you saving and applying the customized variable. Alternatively close and re-start Emacs.</f11></f2></f12></f11>		
AppleScript & text audio narration	<f11> SPC a <f2> <f12> <f2></f2></f12></f2></f11>	Customize PEL Applescript support. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
<u> ұл - С</u>	<f11> SPC c <f2> <f12> <f2></f2></f12></f2></f11>	Customize PEL C support. • If OTHER-WINDOW is non-nil (use C - u), display in another window.	
<u> 191 - C++</u>	<f11> SPC C <f2> <f12> <f2></f2></f12></f2></f11>	Customize PEL C++ support: cpp. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
<u> </u>	<f11> SPC D <f2></f2></f11>	Customize PEL D support: d-mode. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
<u>nι- Lispy</u>	<f12> <f2> <f11> <f2> SPC M-L</f2></f11></f2></f12>	(pel-cfg-pkg-lisp &optional OTHER-WINDOW)	Customize support for Lisp programming languages - A group that also contains the groups for Emacs Lisp and Common Lisp: lispy. • If OTHER-WINDOW is non-nil (use C-u), display in another window.
ұक्का - Emacs Lisp	<f11> SPC 1 <f2></f2></f11>	Customize PEL Elisp support. • If OTHER-WINDOW is non-nil (u	use C-u), display in another window.
	<f12> <f2></f2></f12>	,	
⊈भ्रा - Emacs Lisp eldoc	<f11> SPC 1 ? <f2></f2></f11>	Customize PEL Elisp support: eld • If OTHER-WINDOW is non-nil (u	doc-box. use C-u), display in another window.
	<f12> <f2></f2></f12>		

<u>Operation</u>	<u>Keystroke</u>	Function	Note
	<f11> SPC L <f2></f2></f11>		_
<u> </u> βί - Common Lisp		 Customize PEL Lisp support: lisp, If OTHER-WINDOW is non-nil (u 	use C-u), display in another window.
	<f12> <f2></f2></f12>		
<u> pι - Elixir</u>	<f11> SPC x <f2></f2></f11>	Customize PEL Elixir support: alch	
	<f12> <f2></f2></f12>	If OTHER-WINDOW is non-nil (to a second control of the second	use C-u), display in another window.
βῖ - Erlang	<f11> SPC e <f2></f2></f11>	Customize PEL Erlang support: er	lang, erldoc, edts, auto-highlight-symbol.
<u> </u>	<f12> <f2></f2></f12>	If OTHER-WINDOW is non-nil (u	use C-u), display in another window.
mv = 11	<f11> SPC f <f2></f2></f11>	Customize PEL Forth support.	
<u>βί - Forth</u>			use C-u), display in another window.
	<f12> <f2></f2></f12>		
<u> 181 - Go</u>	<f11> SPC g <f2></f2></f11>	Customize PEL Go support. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
	<f12> <f2></f2></f12>	TO THE R-WINDOW IS HOH-HIII (use C-u), display in another window.	
҈Вῖ - Gleam	<f11> SPC M-G <f2></f2></f11>	Customize PEL Gleam support. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
	<f12> <f2></f2></f12>		
βῖ - Julia	<f11> SPC j <f2></f2></f11>	Customize PEL Julia support: julia, julia-mode, julia-snail. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
<u> </u>	<f12> <f2></f2></f12>		
my N ID		Customize DEL NotPovy support	Lies this to activate NotDayy support
	<f11> SPC N <f2></f2></f11>		Use this to activate NetRexx support. use C-u), display in another window.
	<f12> <f2></f2></f12>		
<u>Nt - Python</u>	<f11> SPC p <f2></f2></f11>	Customize PEL Python support: p	ython, python-flymake. use C-u), display in another window.
	<f12> <f2></f2></f12>	II OTTIEN-VVIINDOVV IS NON-AIII (L	200 C- aj, dispiay in another window.
Pι - REXX	<f11> SPC R <f2></f2></f11>	Customize PEL REXX support.	
	<f12> <f2></f2></f12>	If OTHER-WINDOW is non-nil (u	use C-u), display in another window.
Configure PEL Markup		the Emacs customization group re	elated to configure PEL support for the specific markup language.
support	• The <f11> SPC key prefix</f11>	es are available globally (for all buff	fers).
	 The <f12> <f2> key is on group for the markup langua</f2></f12> 		r for one of the languages supported by PEL and open the PEL customization
		~	ssion, execute M-x pel-init after you saving and applying the customized
	variable.		
			ssion, execute M-x pel-init after you saving and applying the customized
M Owner in Dat	variable. Alternatively close an		
M Graphviz Dot	<f11> SPC M-g <f2></f2></f11>	Customize PEL Graphviz-Dot support of the Customize PEL Graphviz-Dot sup	port. use C-u), display in another window.
	<f12> <f2></f2></f12>	(
M PlantUML	• <f11> D u <f2></f2></f11>	Customize PEL PlantUML support	
	• <f11> SPC M-u <f2></f2></f11>	• IT OTHER-WINDOW IS NON-NII (L	use C-u), display in another window.
	<f12> <f2></f2></f12>		
M Markdown	<f11> SPC M-m <f2></f2></f11>	Customize PEL Markdown suppor	
	<f12> <f2></f2></f12>	• II OTHER-WINDOW IS NON-NII (L	use C-u), display in another window.
M Outline/Org-Mode	<f11> SPC M-o <f2></f2></f11>	Customize PEL Org Mode support	t: open pel-pkg-for-org-mode group.
	<f12> <f2></f2></f12>	If OTHER-WINDOW is non-nil (use C-u), display in another window.	
M reStructuredText	<f11> SPC M-r <f2></f2></f11>	Customize PEL reStructuredText s	support.
-1	<f12> <f2></f2></f12>		use C-u), display in another window.
			(F. 1.9)
Customize Specific		ngs to open customization groups on their specific file if they are not load	of Emacs built-in or external package. led.
Emacs Groups.	-		as the <f3> key member. For example to open auto-completion related groups</f3>
		<f3> key sequence. These are no efixes for all Emacs concepts. It pro</f3>	t listed here. ovides, however some key bindings to access the customization buffer for some
	of those. They are listed just		,
Permanently change the	<f11> <f2> E C-c</f2></f11>	(pel-customize-cursor	Quicks access to the customize buffer to set the cursor default color.
cursor's color See also: ∑ Cursor		&optional OTHER-WINDOW)	 It sets the color permanently if the customization is saved. Only available in graphics mode.
locate	<f11> <f2> E 1</f2></f11>	(pel-cfge-locate &optional OTHER-WINDOW)	Customize locate. With C-u , display in another window.
man	<f11> <f2> E m</f2></f11>	(pel-cfge-man &optional	Customize man. With C-u , display in another window.
		OTHER-WINDOW)	a, siopay a arotto minor.
browse-url	<f11> <f2> E u</f2></f11>	(pel-cfge-browse-url &optional	Customize browse-url. With C-u, display in another window.
		OTHER-WINDOW)	
webjump	<f11> <f2> E j</f2></f11>	(pel-cfge-webjump & optional OTHER-WINDOW)	Customize webjump. With C-u , display in another window.
woman	<f11> <f2> =</f2></f11>	(pel-cfge-woman &optional	Cuctomize woman With C. v. display in another window
Wollian	<f11> <f2> E w</f2></f11>	OTHER-WINDOW)	Customize woman. With C-u , display in another window.
Customize Emacs	The following key bindings alm	ost all use the same PEL command	l: (pel-customize-library &optional OTHER-WINDOW). The command detects
Libraries	the key sequence that invoked	it to select the customization group	o to open. If there are more than one it prompts for the one to open. If a group is ot installed PEL print a warning message.
	For external packages you c	an use the same key sequence exc	ept for the last key: replace <f3> by <f2>: that sequence will open the PEL</f2></f3>
	_		the PEL option variable to activate the external package. f a prefix argument (like C-u) is typed first.
W Allem			
<u>∑ Align</u>	<f11> t a <f3></f3></f11>	Customize Emacs text alignment	
∑ Auto-Completion	<f11> , <f3></f3></f11>	Customize Emacs auto-completio	n support: auto-complete, company and hippie-expand.
<u>∑ Bookmarks</u>	<f11> ' <f3></f3></f11>	Customize Emacs bookmark grou	p which includes: bookmark and bm.
<u></u> Buffers	<f11> b <f3></f3></f11>	Customize Emacs support for buff	fer management: Buffer-menu, buffer, minibuffer, hexl, nhexl.
<u>∑ Comments</u>	<f11> ; <f3></f3></f11>	Customize Emacs support for con	nments: comment, hideshow.
Customization Control	<f11> <f2> <f3></f3></f2></f11>	Customize Emacs customization of	control.
∑ Hide/Show	<f11> M-/ <f3></f3></f11>	Customize Emacs support for con	nments: comment. hideshow.
		• • • • • • • • • • • • • • • • • • • •	
Input Completion: Sompletion/Input	<f11> <f2> P M-c</f2></f11>	(pel-cfg-pkg-completion &optional OTHER-WINDOW)	Customize Emacs Input Completion support: helm, ido, ivy, counsel • If OTHER-WINDOW is non-nil (use C-u), display in other window.
	1	_	

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
<u>∑ Cursor</u>	<f11> m <f3></f3></f11>	Customize Emacs support for curs	sor and multiple-cursors.
<u>∑ Diff & Merge</u> - ediff	<f11> d e <f3></f3></f11>	Customize Emacs ediff.	
<u> ∑ Dired</u>	<f11> f <f3> 2</f3></f11>	Customize Emacs support for dired, directory editor. Other choices are available for neotree and ztree.	
<u>∑ Enriched Text</u>	<f11> t e <f3></f3></f11>	Customize Emacs Enriched Text support.	
File-mngt	<f11> f <f3> 1</f3></f11>	Customize Emacs support for file management.	
∑ File-mngt - auto-revert	<f11> f r <f3></f3></f11>	Customize Emacs support for file automatic revert management.	
	<f11> f a <f3></f3></f11>	Customize Emacs support for management of ffap (find file at point).	
∑ File-mngt - ffap		· · · · · · · · · · · · · · · · · · ·	
<u>∑ File-mngt</u> - dir. tree browser	<f11> B <f3></f3></f11>	Customize directory tree browsers: treemacs, ztree	
File-mngt - NeoTree	<f11> B N <f3></f3></f11>	Customize NeoTree directory browser Customize Emacs fill and justification control.	
<u>∑ Filling/Justification</u>	• <f11> t f <f3> • <f11> t j <f3></f3></f11></f3></f11>	oustonize Emacs in and justinication control.	
<u>∑ Frames</u>	<f11> F <f3></f3></f11>	Customize Emacs frame management support.	
<u>∑ Grep</u>	<f11> g <f3></f3></f11>	Customize Emacs grep support. Groups: grep, ag, rg, ripgrep, wgrep.	
<u>∑ Help/Info</u>	<f11> ? <f3></f3></f11>	Customize Emacs help support. (Groups: command-log, helpful.
<u></u> Highlight	<f11> h <f3></f3></f11>		fer highlight management: auto-highlight, edit, rainbow-delimited, line, fill-
		column-indicator (for Emacs version	<u> </u>
<u>∑ Indentation</u>	<f11> <tab> <f3></f3></tab></f11>		pens the indent customization group.
<u> ∑ Inserting Text</u>	<f11> i <f3></f3></f11>		upport: lice, smart-dash, tempo, time-stamp, yasnippet
∑ Keyboard Macros	<f11> k <f3></f3></f11>	,	nacro external package support: kmacro, centimacro.
∑ Keyboard Macros	<f11> k e <f3></f3></f11>		nacro external package support: emacros.
∑ Keyboard Macros	<f11> k 1 <f3></f3></f11>	,	nacro external package support: elmacro.
<u></u> <u>Key-Chords</u>	<f11> <f5> k <f3></f3></f5></f11>	Customize Emacs support for: key	
Line Mngt: Display - Lines	<f11> 1 <f3></f3></f11>	Customize Emacs support for visu	ıal-line.
Marking Marking	<f11> . <f3></f3></f11>	Customize Emacs Marking suppor	rt.
<u>> Menus</u> - iMenu	<f11> <f10> <f3></f3></f10></f11>	Customize Emacs menu mechanis	
∑ Mode Line	<f11> M-1 <f3></f3></f11>	Customize Emacs mode line supp	
Navigation	<f11> <f2> P n 2</f2></f11>	(pel-cfg-pkg-navigation	Customize Emacs navigation tools support: avy.
<u>// Navigation</u>		&optional OTHER-WINDOW)	If OTHER-WINDOW is non-nil (use C-u), display in another window.
<u> Projectile</u>	• <f11> <f8> <f3> • <f8> <f3></f3></f8></f3></f8></f11>	(pel-customize-projectile)	Open the projectile customization group where you can modify projectiles configuration.
	, ,	8> <f3> is available if pel-use-projectile is t.</f3>	
	I 🗻 1 1	 is available when the projectile mode is on. tile external package is tile activated by PEL with the pel-use-projectile user option is non-nil. 	
Regular Expression	<f11> s x <f3></f3></f11>	· -	ion support: rxt, re-builder, visual-regex.
∑ Search/Replace		Cuotomizo Emaco regular express	ion cappora ix, to bando, violar regox.
<u>∑ Scrolling</u>	<f11> <f3></f3></f11>	Customize Emacs Scrolling support	ort groups: follow, smooth-scrolling.
∑ Search/Replace	<f11> s <f3></f3></f11>	Customize Emacs Search support: search, anzu, swiper, iedit.	
<u> ∑ Sessions</u>	<f11> S <f3></f3></f11>	Customize Emacs Session suppor	t: desktop.
<u>∑ Shells</u>	<f11> z <f3></f3></f11>	Customize Emacs Shells support	groups: term, terminals, vterm.
<u></u> Speedbar	<f11> M-s <f3></f3></f11>	Customize Emacs Speedbar supp	ort.
∑ Spell Checking	<f11> \$ <f3></f3></f11>	Customize Emacs spelling suppor	t. Opens the following customization groups: ispell, flyspell.
<u>∑ Xref</u> - cross reference	<f11> X <f3></f3></f11>	Customize Emacs cross-reference	support: ctags/etags/gtags
<u> ▼ Text Modes</u>	<f11> t m <f3></f3></f11>	Customize Emacs text mode grou	p: glasses
Text <u>∑ Whitespace</u>	<f11> t w <f3></f3></f11>	Customize Emacs handling of whitespaces.	
<u>∑ vcs</u>	<f11> v <f3></f3></f11>	Customize Emacs Version Control	System support: vc, vc-hg, vc-git, magit, monky.
	<f11> u <f3></f3></f11>	Customize Emacs undo support: undo, undo-tree.	
∑ Windows	<f11> w <f3></f3></f11>		rt groups: windows, ace-window, ace-window-display, winner, windmove.
<u>" 1111140113</u>	"	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	Grand and American Am
Yasnippet <u>∑ Inserting Text</u>	<f11> y <f3></f3></f11>	Customize Yasnippet groups: yasnippet, yasnippet-snippets, yas-minor	
Configure Emacs			configure Emacs support for the specified programming language.
Programming Language support	• The <f12> <f3> key is on</f3></f12>	ces are available globally (for all buff lly available when point is in a buffe	ers). r for one of the languages supported by PEL and open the Emacs customization
Сиррогі		anguage for the current buffer.	Emacs language library support that might not even be loaded: PEL will detect
			you want to load it first, allowing Emacs to open the customization buffer.
AppleScript & text audio	<f11> SPC a <f3></f3></f11>	Customize Emacs Applescript sup	·
narration	<f12> <f3></f3></f12>	If OTHER-WINDOW is non-nil (u	use C-u), display in another window.
ұ і - С	<f11> SPC c <f3></f3></f11>	Customize Emacs C support.	
	<f12> <f3></f3></f12>	• If OTHER-WINDOW is non-nil (u	use C-u), display in another window.
№1 - C++	<f11> SPC C <f3></f3></f11>	Customize Emacs C++ support: c	• •
	<f12> <f3></f3></f12>	• If OTHER-WINDOW is non-nil (u	use C-u), display in another window.
Β ί - D	<f11> SPC D <f3></f3></f11>	Customize Emacs D support: d-m	
	<f12> <f3></f3></f12>	• If OTHER-WINDOW is non-nil (u	use C-u), display in another window.
⊈₩≀ - Emacs Lisp	<f11> SPC 1 <f3></f3></f11>	Customize Emacs Elisp support: c	checkdoc, editing-basics, elint, eldoc, eros, lisp, lispy, suggest.
		4 KOTUED WINDOW::!/	A disable to see the second day.

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>	
	<f12> <f3></f3></f12>	IT OTHER-WINDOW IS NON-NII (I	ise c-u), dispiay in another window.	
<u></u>	<f11> SPC 1 ? <f3></f3></f11>	Customize PEL Elisp support: eldoc, eldoc-box. • If OTHER-WINDOW is non-nil (use C - u), display in another window.		
	<f12> <f3></f3></f12>	If OTHER-WINDOW is non-nil (see C-u), display in another window.	
½ ι - Common Lisp	<f11> SPC L <f3></f3></f11>	Customize Emacs Lisp support: lisp, lispy. • If OTHER-WINDOW is non-nil (use C-u), display in another window.		
	<f12> <f3></f3></f12>			
- Elixir	<f11> SPC x <f3></f3></f11>	Customize Emacs Elixir support: a		
	<f12> <f3></f3></f12>	• If OTHER-WINDOW is non-nil (use C-u), display in another window.		
刄ῖ - Erlang	<f11> SPC e <f3></f3></f11>	Customize Emacs Erlang support: erlang, erldoc, edts, auto-highlight-symbol. • If OTHER-WINDOW is non-nil (use C - u), display in another window.		
	<f12> <f3></f3></f12>			
<u>β</u> Ι - Forth	<f11> SPC f <f3></f3></f11>	Customize Emacs Forth support.		
	<f12> <f3></f3></f12>	If OTHER-WINDOW is non-nii (t	see C-u), display in another window.	
<u> 1</u> ВІ - Go	<f11> SPC g <f3></f3></f11>	Customize Emacs Go support.	a A displacia and the side of	
	<f12> <f2></f2></f12>	If OTHER-WINDOW is non-nii (t	use C-u), display in another window.	
致ι - Julia	<f11> SPC j <f3></f3></f11>	Customize Emacs Julia support: ju		
	<f12> <f3></f3></f12>	If OTHER-WINDOW is non-nii (to a second control of the second	use C-u), display in another window.	
<u>βι - Make</u>	<f11> SPC M <f3></f3></f11>	Customize Emacs makefile suppo		
	<f12> <f3></f3></f12>	• If OTHER-WINDOW is non-nil (use C-u), display in another window.	ise C-u), dispiay in another window.	
<u>βι - NetRexx</u>	<f11> SPC N <f3></f3></f11>	Customize Emacs NetRexx suppo		
	<f12> <f3></f3></f12>	 If OTHER-WINDOW is non-nil (use C-u), display in another window. 		
β ί - Python	<f11> SPC p <f3></f3></f11>	Customize Emacs Python support		
	<f12> <f3></f3></f12>	If OTHER-WINDOW is non-nil (use C-u), display in another window.		
<u>βι - REXX</u>	<f11> SPC R <f3></f3></f11>	Customize Emacs REXX support. • If OTHER-WINDOW is non-nil (use C - u), display in another window.		
	<f12> <f3></f3></f12>			
Configure PEL Markup support	The following commands opens the Emacs customization group related to configure Emacs support for the specific markup language. • The <f11> SPC key prefixes are available globally (for all buffers). • The <f12> <f3> key is only available when point is in a buffer for one of the languages supported by PEL and open the Emacs customization group for the markup language for the current buffer.</f3></f12></f11>			
			C prefix, you can customize the Emacs language library support that might not even be loaded: PEL will detect ed and will prompt you asking if you want to load it first, allowing Emacs to open the customization buffer.	
M Graphviz Dot	<f11> SPC M-g <f3></f3></f11>	Customize Emacs Graphviz-Dot s	upport. ise C-u), display in another window.	
	<f12> <f3></f3></f12>	THOTTIET WINDOW IS HOT-HILL	ise C-u), display in another window.	
M PlantUML	• <f11> D u <f3> • <f11> SPC M-u <f3></f3></f11></f3></f11>	Customize Emacs PlantUML support. • If OTHER-WINDOW is non-nil (use C-u), display in another window.		
	<f12> <f3></f3></f12>			
M Markdown	<f11> SPC M-m <f3></f3></f11>		. •	
	<f12> <f3></f3></f12>	II OTHER-WINDOW IS non-nil (I	use C-u), display in another window.	
M Outline/Org-Mode	<f11> SPC M-o <f3></f3></f11>	Customize Org Mode external page If OTHER-WINDOW is non-nil (u	kages support: use C-u), display in another window.	
<u>M</u> reStructuredText	<f11> SPC M-r <f3></f3></f11>	Customize Emacs reStructuredText support. If OTHER-WINDOW is non-nil (use C-u), display in another window.		
	<f12> <f3></f3></f12>			
	•	+		