Auto-Completion Support 🚧

<u>Description</u>	Keystroke	Function	Note			
Auto Completion			rt for completing what you type in the buffer: this is auto-completion.			
• Built-in completion	Emacs comes with a bar	asic completion system, accessi	ible via the (completion-at-point) command bound to C-M-i.			
PEL controlled completion auto complete		I packages provide pop-up men				
auto-completecompany-mode	The <u>auto-complete</u> package activated when the <u>pel-use-auto-complete</u> customization variable is set to t. The <u>company-mode</u> package activated when the <u>pel-use-company</u> customization variable is set to t.					
O <u>Auto-completion Reference</u>	PEL supports both and prevents activation of both of them in one buffer.					
	You can activate both modes and dynamically select one over the other, globally or buffer by buffer.					
	✓ More on abbreviation completion is available in the ∑ Abbreviations table.					
	Both abbreviation completion and one auto-completion mechanism can be used at the same time (using different keys if any), in some case the abbreviation choices can also be available via auto-completion. More dynamic completion modes based on Eglot or LSP are supported by Emacs but not yet documented in PEL nor here.					
Last updated on:	2025-03-19					
Open this PDF file. See also: <u>▼ Help/Info</u>	<f11> , <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the \mathbb{E} <u>Auto-Completion</u> local PDF. If the prefix argument (like $\mathbf{C}-\mathbf{u}$ or $\mathbf{M}-\mathbf{-}$) is used, then it opens the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-option is set it's the other way around.			
Customize PEL auto-completion support. See also: <u>▼ Customize</u>	<f11> , <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Open the PEL customize group(s) for the current context: auto-completion support. Use this to open to change PEL user option variables the activate and control the various Apple script features such as the name of the narrator voice.			
Customize Emacs built-in auto- completion support	<f11> , <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	 When a prefix argument (like C-u) opens the buffer inside another window. Customize Emacs auto-completion group which includes: auto-complete, company, hippie-expand. When prefix arg. (like C-u) opens the buffer inside another window. 			
See also: <u>∑ Customize</u>	Group belonging to files that have not yet been loaded are normally not accessible in Emacs and via the customize-group command. PEL, however, attempts to locate the file that defines a non-loaded customization group and will prompt you for loading the file if it finds it.					
Display Auto-completion status	<f11> , ?</f11>	(pel-completion-info &optional APPEND)	Print information about available auto-completion info in a *pel-autocomplete-info* help-mode buffer. Shows which one is enabled via customization and their current activation			
	 Prints current state and values of relevant user-options as buttons you can use to get more info and change their customized values. Clear previous buffer content unless a prefix arg (like C-u) is used. 					
Emacs Built-in Completion	·		at-point command, described below.			
Symbol Completion at point	• C-M-i	(completion-at-point)	Perform completion on the text around point.			
See also: Xref	• <esc> <tab></tab></esc>	(completion at point)	The completion method is determined by 'completion-at-point-functions'.			
See also. <u>a Alei</u>	 M-<tab> The tags-completion-at-point-function is used for Emacs Lisp code by default. It provides a list of possible values in the *Completions* buffer. </tab> C-M-i is also used for Flyspell, which can be used to spell check only moments and strings. 					
Symbol Completion at point and language specific completion	<f6> ,</f6>	(complete-symbol ARG)	 Perform completion of the text around point, using the method identified by the variable completion-at-point-functions, acting as the completion-at-point command above. With prefix argument, such as C-u, this does completion within the collection of symbols listed in the index of the manual for the language you are using. 			
Complete language specific symbol at point	<f6> .</f6>	(info-complete-symbol &optional MODE)	Perform completion of symbol at point using mode-specific language items. • For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names.			
Toggle Completion Preview mode Emacs >= 30	<f11> , p</f11>	(completion-preview-mode &optional ARG)	Toggle completion-preview-mode, a. minor mode that shows possible completion in a light face. Can be available while another completion major-mode is used. • Activate it with positive prefix argument, disable it with negative prefix argument.			
	<tab></tab>	Expand suggested completion in buffer. Type more characters to further refine the search.				
	M-i	Open a *Completion* buffer listing all possible completion candidates. • Select others with M- <up> and M-<down>. Then chose with M-RET.</down></up>				
	M-n	Selects and show next completion candidate.				
	M-p Selects and show previous completion candidate.					
PEL controlled	PEL provides logic to dynamically activate either auto-complete-mode or company-mode for one buffer or all of them, globally through the commands					
completion activation	accessible via the <f11> , prefix. •</f11>					
	Set pel-use-auto-complete to t to enable the ability to use auto-complete-mode.					
	 Set pel-use-company user option to t to enable the ability to use company-mode. When pel-init is executed, the commands made available depend on the section made by customization of PEL but also of the two modes. Then 					
ind ind	the corresponding commands listed in the sections below are available. PEL's auto-completion support implementation is not yet completed. For now just standard hooks are setup, but not for all programming languages. Support for each programming language is described in the language specific page.					
Explicitly List Completion Candidates with the currently active auto completion system	• <f11> , , • M-1</f11>	(pel-complete)	List completion candidates. There must be at least 1 character preceding point. • Force auto-completion of text at point, don't wait for timeout, using the currently active auto-completion system (either auto-complete-mode or company-mode).			
 Use auto-complete or company- mode, whichever that is currently 	If no auto completion system is active in the current buffer, the command issues an error.					
active globally or in the buffer.	• M-1 default binding is to downcase-word. PEL rebinds this key company-mode is activated via customization and company-mode is active.					
	• d With PEL, the M-1 key is close to the M-/ key, bound to the command used for abbreviation expansions. It becomes easy to use either.					
Completion Menu keys	When an completion pop-up menu generated either by auto-complete or company-mode is shown, you can use the following keys for operating on that menu:					
Auto-completion Menu Operations	• M-n : next candidate (or <down> cursor)</down>					
Company-Mode Menu Operations	• M-p : previous candidate (or <up> cursor) • M-1, M-2, M-3, etc: select candidate by line number</up>					
·	• <tab> : complete using 1 candidate (if 1 choice), using the prefix part among many candidates, or cycle through all candidates.</tab>					
See also: See al	 : Delete 1 char of the current candidate prefix <ret> : Select current candidate, execute action for candidate if any (eg. when template selection used)</ret> 					
	• C-? : Show candidate help in separate buffer					
	 • <f1> : Show candidate help in separate buffer.</f1>					
	Esc < PgDown> : Scroll help buffer forward C-M-S-v : Scroll help buffer backward					
	Esc <pg-up> : Scroll help buffer backward C-g : Stop completion</pg-up>					
	· c-y : Sto	h oombierion				

<u>Description</u>	<u>Keystroke</u>	Function		<u>Note</u>	
	Auto-Complete is one of the auto completion package for Requires the auto-complete package that PEL surence activated by customization with PEL you can then a following commands. The pel-init function will install Auto-Complete from the one from MELPA stable). Just install it before custo that is an early version of PEL. Future versions of P systems (like templating package). For now PEL only in function. Auto-complete provides the following customizable varies ac-use-quick-help: set to to activate a quick popeac-quick-help set to the auto-complete commands via the invoked through the set of it, or M-1 key bindings in a buffer that is set for it, auto-complete pops a drop-down menu similar to the one shown here.		pports if the pel-use-auto-cictivate it globally and/or contivate it globally and/or contive if it is not omizing to use it and executive. Which is the properties of the period of the	ntrol whether it is available for the stalready present. You may wang pel-init. Oport use of Auto-Complete for guration of Auto-Complete provious the stall beside the menu choice.	ne current buffer, using the nt to use another version (such as more programming languages and
Toggle Auto-Complete mode for current buffer	<f11> , a</f11>	(pel-auto-complete-mode &optional ARG)	Toggle Auto-Complete mode in current buffer. • With prefix ARG, enable buffers' Auto-Complete mode if ARG is positive, otherwise deactivate it. • In Does not allow activation if company-mode is active. • If Global Auto-Complete is on, you can turn it off for one buffer using this command.		
Toggle Global Auto-Complete mode	<f11> , A</f11>	(pel-global-auto-complete- mode &optional ARG)	 This command calls auto-complete-mode when appropriate. Toggle Global Auto-Complete mode. With prefix ARG, enable Global Auto-Complete mode if ARG is positive, otherwise deactivate it. ✓ Does not allow activation if company-mode is active. ✓ Ine global-auto-complete-mode variable is customizable. If you set its customized value to t, then pel-init will automatically activate it. You will still be able to turn it off later in an Emacs session using this command and without having to change the customization value. This command calls global-auto-complete-mode when appropriate. 		
	Requires the company When invoked through the bindings in a buffer that is	set for it, company-mode similar to the one shown here.	at PEL activates when the p	def_use-company customization def_l f def-edebug-elem-spec defadvice defadvice defalias default-boundp default-file-modes default-font-height default-indent-new-li default-line-height	
Toggle Company mode for current buffer	<f11> , c</f11>	(pel-company-mode &optional ARG)	Toggle Company Mode mo • With prefix ARG, enable it.		G is positive, otherwise de-activate
	 Does not allow activation if auto-complete-mode is active. If Global Company Mode is on, you can turn it off for one buffer using this command. "complete anything"; is an in-buffer completion framework. Completion starts automatically, depending on the values 'company-idle-delay' and 'company-minimum-prefix-length'. Completion can be controlled with the commands: 'company-complete-common', 'company-complete-selection', 'company-complete', 'company-select-next', 'company-select-previous'. If these commands are called before 'company-idle-delay', completion will also start. Completions can be searched with 'company-search-candidates' or 'company-filter-candidates'. These can be used while completion is inactive, as well. The completion data is retrieved using 'company-backends' and displayed using 'company-frontends'. If you want to start a specific backend, call it interactively or use 'company-begin-backend'. 				
	<f11> , C</f11>	(pel-global-company-mode &optional ARG)	Toggle Global Company mode. • With prefix ARG, enable Global Company mode if ARG is positive, otherwise de-activate it. • ■ Does not allow activation if auto-complete-mode is active. • ■ The global-company-mode variable is customizable. If you set its customized value to t, then pel-init will automatically activate it. You will still be able to turn it off later in an Emacs session using this command and without having to change the customization value.		

Auto-completion — References

Document	Note		
Basic Auto Completion	GNU Emacs Manual - Completion for Symbol Names		
Auto Completion with Auto-Complete			
Auto Complete @ MELPA	You can get auto-complete from MELPA. An interesting point of this page lists the other packages that need auto-complete. There's over 45 packages that use it for various programming languages and environments.		
Auto Complete @ GitHub	Auto complete source code		
Auto Complete Manual @ Github	Covers installation, check, features, concepts, configuration, advanced usage. Reading required for users.		
Using Emacs: 8 - Auto-complete @ Youtube	Mike Zamansky video that covers abbreviation and auto-complete. Duration: 5 minutes.		
Using Emacs: 45- Company or Autocomplete @ Youtube	Another video from Mike Zamansky that covers both auto-complete and company-mode. Duration: 13 minutes.		
Auto Completion with Company-mode			
company-mode ; Modular in-buffer completion framework for Emacs	Text completion framework for emacs		
Using digits to select company-mode candidates @ (or emacs irrelevant)			