Auto-Completion Support

Autonomorphism Autonomorphism Part of the properties of the prop	December No.	Wtur-la-	Function	• • • •			
** Basic Endocration** ** Basic Canadiana Conference control of the Companies of the Compa	Description Auto Completion	Keystroke When writing text or source	Function e code. Emacs provides suppor	Note t for completing what you type in the buffer: this is called auto-completion			
**Security Part Controlled	O Help @ Customization	• Emacs comes with a basic completion system, accessible via the (completion-at-point) command bound to C-M-i.					
Locations Accounted the process of the company makes and the company of the compa							
S. Constructions On account print of the control of the cont							
**Autoconsciolent Philadesia **Auto		PEL supports both and prevents activation of both of them in the same buffer.					
• More on autoreuron completion is calculate in the flat and a sub-completion and in the completion of		You can activate b	oth modes and dynamically sele	ct one over the other, globally or buffer by buffer.			
advantage activation of comparison makes reported to a programment of the comparison makes reported and a program of the progr							
** Construction proposition and the control of the		abbreviation choices can also be available via auto-completion.					
**Port course with PEI_ **Port							
Les lupchierles 76 11		minor modes user-option. PEL identifies a user option named pel-MODE-activates-minor-modes where MODE is the name of the major mode. • For example, add completion-preview-mode to pel-elisp-activates-minor-modes to automatically activate it in all Emacs Lisp buffers. • For these PEL supported modes, you can access the customization buffer quickly with the <f11><f2></f2></f11> key sequence.					
Controller Fig. Controller Controlle	·						
Customize PEL sucto-completion							
Service Substitution (Controlled Provided Controlled Controlled Provided Controlled Provided Controlled Provided Controlled Controlled Provided Controlled Provided Controlled Provided Controlled Provided Controlled Provided Controlled Controlled Controlled Controlled Controlled Controlled Controlled Contr	•	(111) , (11)		then it opens the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-			
Customize Emacs built-in also completion support	support.	<f11> , <f2></f2></f11>		Use this to open to change PEL user option variables the activate and control the various			
Completion support Socional OFIEN-WINDOW of Corp beforeign to the start here not yet been bodied as normally on sociosable in Ensos and with the sudmitted social period and social period of the fill finds it. of Corp beforeign to the start here not yet been bodied as normally on socialist in Ensos and with the sudmitted social period and social period of it. If the is. Of Corp beforeign to start the enhancement of the comment of the sudmitted social period of it. If the is. Of Corp beforeign the customization and the start and solidable and completion into the comment and enhancement and enhance							
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Printice quick access Printice competence Printice competenc							
Symbol Completion at point See also: £ Kird Symbol Completion at point Completion at point Symbol Completion at point Completion a	Display Auto-completion status	·	&optional APPEND)	mode buffer. Clear previous buffer content unless a prefix arg (like C-u) is used.			
C.W.i Completion at point C.W.i Completion at-point Perform completion at point Perform completion Perform completion at point Perform completion Perform Perfo	buttons to change customizable	Shows which one is enabled via customization and their current activation state.					
See also: Exist - **Casc> **Cabb* - **N	Emacs Built-in Completion	Emacs built-in completion	is provided by the completion-a	t-point command, described below.			
See also: 3 Xref - X-cab> - The tags-completion-ab-point-invarions is used for Emacs Lisp code by default It provides all coft possible values in the properties of the text around point, using the method identified by the variable completion at point or and language specific completion and point of the text around point, using the method identified by the variable completion and point of the text around point, using the method identified by the variable completion and point of the text around point, using the method identified by the variable completion and point of the text around point, using the method identified by the variable completion and the text around point to the text aro	Symbol Completion at point	I -	(completion-at-point)				
Symbol Completion at point and language specific completion and language specific completion completed language specific completion completion at point completion preview mode first specific completion completion preview mode for intermediate specific language terms. completion preview mode for intermediate specific language terms. completion and at shave possible completion preview mode spirit face. Can be available with another completion major mode is used. completion and at shave possible completion preview mode soptional ARSi completion and at shave possible completion-preview mode soptional ARSi completion and at shave possible completion preview mode soptional ARSi completion and at shave possible completion preview mode soptional ARSi completion and at shave possible completion preview mode soptional ARSi completion and at shave possible completion preview mode soptional ARSi completion and at shave possible completion preview mode soptional ARSi completion and at shave possible completion preview mode soptional ARSi completion and at shave possible completion preview mode soptional ARSi completion and at shave possible completion and the completion and	See also: <u>E Xref</u>			The tags-completion-at-point-function is used for Emacs Lisp code by default.			
ompletion-at-point-unclans, acting as the completion or symbols listed in the index of the manual for the language you are using. Complete language specific symbol at point Sogale Completion Preview mode Engage you are using. For example, inside a Emac-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp buffer. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp buffer. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp buffer. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp buffer. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp buffer it finds the Emacs-Lisp buffer. For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp buffer in the Emacs buffer i	₫	C-M-i is also used for Flyspell, which can be used to spell check only moments and strings.					
Complete language specific symbol site of in the index of the manual for the singuage you are using. 465		<f6> ,</f6>	(complete-symbol ARG)				
Soptional MODE For example, inside a Emase-Lisp buffer if finds the Emacs-Lisp functions, variables names.				• With prefix argument, such as C-u, this does completion within the collection of			
A minor mode that shows possible completion in a light face. Can be available while norther completion major-mode is used. **Expand suggested completion in a light face. Can be available while norther completion major-mode is used. **Expand suggested completion in a light face. Can be available with another completion major-mode is used. **Expand suggested completion in buffer. Type more characters to further refine the search. **M-i		<f6> .</f6>	,	For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables			
completion in a light face. Can be available while another completion major-mode is used. Capped Completion Toggic Comple	Emacs >= 30	<f11> , p</f11>					
Expand suggested completion in buffer. Type more characters to further refine the search. M-1	completion in a light face. Can be	<f11> , P</f11>					
Selects and show next completion candidate. PEL provides logic to dynamically activate either auto-completion candidate. PEL provides logic to dynamically activate either auto-complete mode or company-mode for one buffer or all of them, globally through the commands accessible via the <fi></fi>	•	<tab></tab>					
PEL controlled completion activation PEL provides logic to dynamically activate either auto-complete or candidate. PEL provides logic to dynamically activate either auto-complete-mode or company-mode for one buffer or all of them, globally through the commands accessible via the <fli></fli>		M-i	Open a *Completion* buffer listing all possible completion candidates.				
PEL controlled completion activation PEL provides logic to dynamically activate either auto-complete-mode or company-mode for one buffer or all of them, globally through the commands accessible via the <f11> , prefix. * Si you must first select witch one should be available via PEL customization: * Set pel-use-auto-complete to 1 to enable the ability to use auto-complete-mode. * Set pel-use-auto-complete to 1 to enable the ability to use auto-complete-mode. * Set pel-use-auto-complete to 1 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 the corresponding commands listed in the sections below are available. PELs auto-completion system. * Set auto-completion or company-mode, whichever that is current buffer. * Set auto-complete or company-mode, whichever that is current buffer. * M-1</f11>		W	-				
PEL controlled completion activation PEL provides logic to dynamically activate either auto-complete-mode or company-mode for one buffer or all of them, globally through the commands accessible via the <fi>file you must first select witch one should be available via PEL customization: Set pel-use-auto-complete to to enable the ability to use auto-complete-mode. Set pel-use-auto-complete to 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 the corresponding commands listed in the sections below are available. PELs auto-completion composition 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 complete or company-mode. Set pel-use-auto-complete or company-mode is setup, but not for all programming languages. Support for each programming language is described in the language specific page. Is to completion system with the currently active auto-complete or completion or text at point, don't wait for timeout, using the currently active auto-completion system (either auto-complete-mode or company-mode). If no auto completion system is active in the current buffer, the command issues an error. When 1 default binding is to downcase-word. PEL rebinds this key company-mode is activated via customization and company-mode is activated via customization and company-mode is activated. 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: **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: **When an completion pop-up menu generated either by used to the current candidate</fi>							
accessible via the <₹11> , prefix. -	PEL controlled						
* Set pel-use-auto-complete to it to enable the ability to use auto-complete-mode. * Set pel-use-company user option to it 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 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 currenty active auto-complete or company-mode, whichever that is currently active auto-complete or company-mode, whichever that is currently active globally or in the buffer. * SM-1 default binding is to downcase-word. PEL rebinds this key company-mode is activated via customization and company-mode is active. * 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. * Auto-completion Menu Roys * Auto-completion Roys * Auto-c		accessible via the <f11> , prefix.</f11>					
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 the corresponding commands listed in the sections below are available. Explicitly List Completion PELs 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. ***Support for each programming language is described in the language specific page. List completion candidates. There must be at least 1 character preceding point.		Set pel-use-auto-complete to t to enable the ability to use auto-complete-mode.					
Explicitly List Completion Candidates with the currently active auto completion system - Use auto-completion or company-mode, whichever that is currently active globally or in the buffer. - If no auto completion system is active in the current buffer, the command issues an error. - When an completion menu Operations - Company-Mode Menu Operations - Company-Mode Menu Operations - Company-Mode Menu Operations - Company-Mode Menu Operations - Completion See also: - Scrolling - Completion See also: - Scrolling - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion See also: - Scroll help buffer forward - Completion Septem delicate section of text at point, don't wait for timeout, using the current candidates. - Force auto-completion of text at point, don't wait for timeout, using the current candidates. - Force auto-completion of text at point, don't wait for timeout, using the current candidates and the current candidate for for completion system (either auto-complete mode or company-mode or company-mode or company-mode is activated via customization and company-mode is activated via customization and company-mode is activated via customi		• 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 the					
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Use auto-complete or company- mode, whichever that is currently active globally or in the buffer. If no auto completion system is active in the current buffer, the command issues an error. 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 Auto-completion Menu Operations Company-Mode Menu Operations Company-Mode Menu Operations See also: ∑ Scrolling M−n inext candidate (or <down> cursor) M−p previous candidate (or <up> cursor) M−1, M−2, M−3, etc: select candidate by line number complete or company-mode is activated via customization and company-mode is active. Mhen 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: M−n inext candidate (or <down> cursor) M−p previous candidate (or <up> cursor) M−p complete or company-mode is activated via customization and company-mode is active. Mhen 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: M−n inext candidate (or <down> cursor) M−n completion Menu Operations M−n inext candidate (or <down> cursor) M−n inext candidate (or <down< th=""><th>Candidates with the currently</th><th></th><th>(pel-complete)</th><th>Force auto-completion of text at point, don't wait for timeout, using the currently active</th></down<></down></down></down></down></down></down></down></down></down></down></down></down></down></down></down></down></down></down></down></down></up></down></up></down>	Candidates with the currently		(pel-complete)	Force auto-completion of text at point, don't wait for timeout, using the currently active			
** M-1 default binding is to downcase-word. PEL rebinds this key company-mode is activated via customization and company-mode is active. ** 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** ** M-1 default binding is to downcase-word. PEL rebinds this key company-mode is activated via customization and company-mode is active. **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: **M-n : next candidate (or <down> cursor) ** M-n : next candidate (or <down> cursor) **M-n : next candidate (or <down> cursor) **M-n : next candidate (or <up> cursor) **M-n : next candidate (or <up> cursor) **M-n : previous candidate (or <up> cursor) **M-n : next candidate (or <up> cursor) **M-n : previous candidate (or <up> cursor) **M-n : previous candidate (or <up> complete using 1 candidate (if 1 choice), using the prefix part among many candidates, or cycle through all candidates. **C-DEL> : Delete 1 char of the current candidate prefix **C-M-v : Select current candidate elep in separate buffer **C-M-v : Scoroll help buffer forward (note: see the **Scrolling* table for more info on scrolling) **Esc <pgdown> : Scroll help buffer backward **Esc <pg-up> : Scroll help buffer backward</pg-up></pgdown></up></up></up></up></up></up></down></down></down>	Use auto-complete or company-						
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 • Company-Mode Menu Operations See also: ∑ Scrolling • M-n : next candidate (or <down> cursor) • M-p : previous candidate (or <up> cursor) • M-p : previous candidate by line number • <tab> : complete using 1 candidate (if 1 choice), using the prefix part among many candidates, or cycle through all candidates. • <pre></pre></tab></up></down>							
that menu: Auto-completion Menu Operations Company-Mode Menu Operations N=D M=D Example 1 Example 2 Example 3 Example 3 This is very handy to quickly review documentation of several symbols! C-M-S-V Example 2 Example 3 Example 4 Example 4 Example 4 Example 4 Example 5 Example 4 Example 6 Example 6 Example 6 Example 6 Example 6 Example 7 Example 6 Example 6 Example 7 Example 6 Example 6 Example 6 Example 6 Example 7 Example 6 Example 7 Example 6 Example 7 Example 7 Example 8 Example 9 Example 8 Example 8 Example 8 Example 9 Example 9 Example 8 Example 9		• 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.					
Operations Company-Mode Menu Operations • M-n : next candidate (or <down> cursor) • M-p : previous candidate (or <up> cursor) • M-1, M-2, M-3, etc: select candidate by line number • <tab> : complete using 1 candidate (if 1 choice), using the prefix part among many candidates, or cycle through all candidates. • cert > complete using 1 candidate (if 1 choice), using the prefix part among many candidates, or cycle through all candidates. • cert > complete using 1 candidate (if 1 choice), using the prefix part among many candidates, or cycle through all candidates. • cert > complete using 1 candidate (if 1 choice), using the prefix part among many candidates, or cycle through all candidates. • cert > complete using 1 candidate prefix • cert > complete using 1 candidate prefix</tab></up></down>							
M-p : previous candidate (or <up> cursor) M-1, M-2, M-3, etc: select candidate by line number</up>		·					
e < DEL> : Delete 1 char of the current candidate prefix		• M-1, M-2, M-3, etc: select candidate by line number					
Select current candidate, execute action for candidate if any (eg. when template selection used) C-? Show candidate help in separate buffer Show candidate help in separate buffer. Show candidate help in separate buffer. Show candidate help in separate buffer. Scroll help buffer forward (note: see the ∑Scrolling table for more info on scrolling) Esc <pgdown <pg-up="" backward="" buffer="" c-m-s-v="" esc="" forward="" help="" scroll=""> Scroll help buffer backward</pgdown>	See also: ∑ Scrolling	• <tab> : con</tab>	nplete using 1 candidate (if 1 cho	pice), using the prefix part among many candidates, or cycle through all candidates.			
Show candidate help in separate buffer.		• <ret> : Select current candidate, execute action for candidate if any (eg. when template selection used)</ret>					
Scroll help buffer forward C-M-S-v : Scroll help buffer backward Esc <pg-up> : Scroll help buffer backward</pg-up>		• <f1> : Sho</f1>	ow candidate help in separate bu	iffer. string This is very handy to quickly review documentation of several symbols!			
• Esc <pg-up> : Scroll help buffer backward</pg-up>		• Esc <pgdown> : Scr</pgdown>	oll help buffer forward	ee the <u>Scrolling</u> table for more info on scrolling)			
			•				
			•				

<u>Description</u>	<u>Keystroke</u>	Function		Note		
auto-complete	Auto-Complete is one of the auto completion package for Emacs supported by PEL. Requires the auto-complete package that PEL supports if the pel-use-auto-complete customization variable is set to t. Once activated by customization with PEL you can then activate it globally and/or control whether it is available for the current buffer, using the following commands. The pel-init function will install Auto-Complete from the MELPA archive if it is not already present. You may want to use another version (such as the one from MELPA stable). Just install it before customizing to use it and executing pel-init. This is an early version of PEL. Future versions of PEL will integrate logic to support use of Auto-Complete for more programming languages and systems (like templating package). For now PEL only incorporates the basic configuration of Auto-Complete provided by its ac-config-default function. Auto-complete provides the following customizable variables (and several others): ac-use-quick-help: set to t to activate a quick pop-up help display that shows right beside the menu choice. ac-quick-help-delay: delay before the quick help pops up. Default is 1.5 seconds.					
	PEL provides access to the auto-complete commands via the commands below. When invoked through the <511> or M. 1, key (def)					
	When invoked through the <f11> , , 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.</f11>			defun defvar defined tter: default rentl defsubst defmacro he lo defconst n sta defvar-local default-value DEFAULT-VALUE. al Va ;;		
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. • 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. This command calls auto-complete-mode when appropriate.			
Toggle Global Auto-Complete mode	<f11> , A</f11>	(pel-global-auto-complete- mode &optional ARG)	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. • ■ It plobal-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.			
company-mode	Company-Mode is the other auto completion package supported by PEL. Requires the company-mode external package that PEL activates when the pel-use-company customization variable is set to t.					
	When invoked through the bindings in a buffer that	he <f11> , , or M-1 key is set for it, company-mode u similar to the one shown here.</f11>	;	defuse-company customization variable is set to t. defused defused defused defused defused defadvice defadvice default-boundp default-file-modes default-font-height default-indent-new-line default-line-height		
Toggle Company mode for current buffer	<f11> , c</f11>	(pel-company-mode &optional ARG)	Toggle Company Mode m • With prefix ARG, enable it.	node in current buffer. e buffers' Company Mode if ARG is positive, otherwise de-activate		
This command calls companymode when appropriate.	 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'. 					
Toggle Global Company mode This command calls global-company-mode when appropriate.	<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)			