








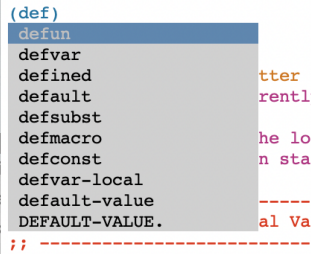


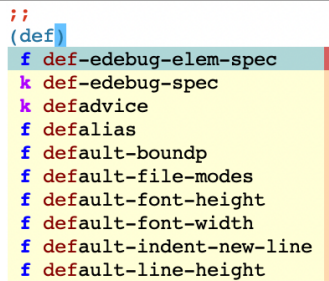
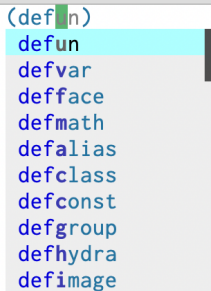


# Auto-Completion Support

Description	Keystroke	Function	Note																																																																																																																		
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<div>Display Auto-completion info:</div> <div>• status and configuration</div>	<f11> c ?	(pel-completion-info &optional APPEND)	Print information about available auto-completion info in a "pel-autocomplete-info" <a href="#">help-mode</a> buffer. Clear previous buffer content unless a prefix arg (like C-u) is used.																																																																																																																		
<div>💡 Provides quick access buttons to change customizable user-options.</div>	<div><div>• Prints current state and values of relevant user-options as buttons you can use to get more info and change their customized values.</div><div>• Shows which one is enabled via customization and their current activation state.</div><div>💡 Underlines links are buttons that open the customization buffer where you can change the customized value.</div></div>																																																																																																																				
Select auto-completion mode	<f11> c =	(pel-select-auto-complete-tool &GLOBALLY)	Prompt user to select auto-completetion mode to use in current buffer. <div>• With prefix arg (such as C-u) select for all buffers.</div> Select: Emacs built-in auto-completion, <a href="#">auto-complete</a> , <a href="#">company-mode</a> , <a href="#">corfu</a> .																																																																																																																		
Emacs Built-in Completion	Emacs built-in completion is provided by the <a href="#">completion-at-point</a> command, described below. <div>• This automatic text completion is always available but can be extended or overridden by mechanisms used by the external auto-completion packages.</div> <div>• The <a href="#">pel-completion-info</a> command prints the values of the various variables and user-options controlling its behaviour.</div>																																																																																																																				
<div>Symbol Completion at point</div> <div>See also: <a href="#">📖 Xref</a></div>	<div><div>• C-M-i</div><div>• &lt;Esc&gt; &lt;tab&gt;</div><div>• M-&lt;tab&gt;</div></div>	(completion-at-point)	Perform completion on the text around point. <div>• The completion method is determined by 'completion-at-point-functions'.</div> <div>• The tags-completion-at-point-function is used for Emacs Lisp code by default.<div>• It provides a list of possible values in the "Completions" buffer.</div><div>• The key bindings to select from "completions" buffer are shown below.</div></div>																																																																																																																		
	C-M-i is also used for Flyspell, which can be used to spell check only moments and strings.																																																																																																																				
<div>Symbol Completion at point</div> <div>• and language specific completion</div>	<f6> c	(complete-symbol ARG)	Perform completion of the text around point, using the method identified by the variable <b>completion-at-point-functions</b> , acting as the <b>completion-at-point</b> command above. <div>• 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.</div>																																																																																																																		
Complete language specific symbol at point	<f6> C	(info-complete-symbol &optional MODE)	Perform completion of symbol at point using mode-specific language items. <div>• For example, inside a Emacs-Lisp buffer it finds the Emacs-Lisp functions, variables names.</div>																																																																																																																		
<div>Completion function - using tags</div> <div>Candidate for: completion-at-point-functions</div>		(tags-completion-at-point-function)	Using tags, return a completion table for the text around point. If no tags table is loaded, do nothing and return nil. This uses the tag facility.																																																																																																																		
<div>Toggle Completion Preview mode</div> <div>Emacs &gt;= 30</div> <div>A minor mode that shows possible completion in a light face. Can be available while another completion major-mode is used.</div>	The completion preview mode is a minor mode available since Emacs 30. It completes the current symbol with overlay when possible.																																																																																																																				
<div>💡 The following keys are available whenever the "Completions" buffer shows a list of potential completions. The keys are typed at point, there's no need to switch to the window of the "Completion" buffer.</div> <div>💡 These are available for completion preview but also for completion-at-point.</div>	<f11> c p	(completion-preview-mode &optional ARG)	Toggle completion-preview-mode in current buffer. <div>• Activate it with positive prefix argument, disable it with negative prefix argument.</div>																																																																																																																		
	<f11> c P	(global-completion-preview-mode &optional ARG)	Toggle Completion-Preview mode in all buffers. <div>• Activate it with positive prefix argument, disable it with negative prefix argument.</div>																																																																																																																		
	<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. Does not move point. <div>• Select other candidate show in the "Completion" buffer with M-&lt;up&gt; and M-&lt;down&gt;. Then chose one with M-RET.</div>																																																																																																																			
	M-<down>	(minibuffer-next-completion &optional N VERTICAL)	Selects and show next completion candidate. <div>• Move by N positions with <a href="#">numeric prefix</a> N</div>																																																																																																																		
	M-<up>	(minibuffer-previous-completion &optional N)	Selects and show previous completion candidate. <div>• Move by N positions with <a href="#">numeric prefix</a> N</div>																																																																																																																		
	M-RET	(minibuffer-choose-completion &optional NO-EXIT NO-QUIT)	Select candidate. <div>Run 'choose-completion' from the minibuffer in its completions window.</div> <div>• With prefix argument NO-EXIT, insert the completion candidate at point to the minibuffer, but don't exit the minibuffer. When the prefix argument is not provided, then whether to exit the minibuffer depends on the value of 'completion-no-auto-exit'.</div> <div>• If NO-QUIT is non-nil, insert the completion candidate at point to the minibuffer, but don't quit the completions window.</div>																																																																																																																		

Description	Keystroke	Function	Note
<div>Other completion at point engines</div> <div></div>	PEL dynamically activate either <code>auto-complete-mode</code> , <code>company-mode</code> and <code>corfu</code> for one or all buffers through commands accessible via the <code>&lt;f11&gt;c</code> prefix. <ul style="list-style-type: none"><li> You must first select witch one should be available via PEL customization:<ul style="list-style-type: none"><li>Set <b>pel-use-auto-complete</b> to <code>t</code> to enable the ability to use <code>auto-complete-mode</code>.</li><li>Set <b>pel-use-company</b> user option to <code>t</code> to enable the ability to use <code>company-mode</code>.</li></ul></li><li>When <b>pel-init</b> 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.</li></ul> 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.		
<div>Explicitly List Completion Candidates with the currently active auto completion system</div> <div><ul style="list-style-type: none"><li>Use <code>auto-complete</code> or <code>company-mode</code>, whichever that is currently active globally or in the buffer.</li></ul></div>	<ul style="list-style-type: none"><li><code>&lt;f11&gt;c c</code></li><li><code>M-1</code></li></ul>	(pel-complete)	<div>List completion candidates. There must be at least 1 character preceding point.</div> <ul style="list-style-type: none"><li>Force auto-completion of text at point, don't wait for timeout, using the currently active auto-completion system (either <code>auto-complete-mode</code> or <code>company-mode</code>).</li></ul> <div><ul style="list-style-type: none"><li>If no auto completion system is active in the current buffer, the command issues an error.</li><li> <code>M-1</code> default binding is to downcase-word. PEL rebinds this key <code>company-mode</code> is activated via customization and <code>company-mode</code> is active.</li><li> With PEL, the <code>M-1</code> key is close to the <code>M-/</code> key, bound to the command used for abbreviation expansions. It becomes easy to use either.</li></ul></div>
<div>Completion Menu keys</div> <div><ul style="list-style-type: none"><li><b>Auto-completion Menu Operations</b></li><li><b>Company-Mode Menu Operations</b></li></ul></div> <div>See also: <a href="#">↗ Scrolling</a></div>	<div>When an completion pop-up menu generated <b>either</b> by <code>auto-complete</code> or <code>company-mode</code> is shown, you can use the following keys for operating on that menu:</div> <div><ul style="list-style-type: none"><li><code>M-n</code> : next candidate (or <code>&lt;down&gt;</code> cursor)</li><li><code>M-p</code> : previous candidate (or <code>&lt;up&gt;</code> cursor)</li><li><code>M-1</code>, <code>M-2</code>, <code>M-3</code>, etc...: select candidate by line number</li><li><code>&lt;tab&gt;</code> : complete using 1 candidate (if 1 choice), using the prefix part among many candidates, or cycle through all candidates.</li><li><code>&lt;DEL&gt;</code> : Delete 1 char of the current candidate prefix</li><li><code>&lt;RET&gt;</code> : Select current candidate, execute action for candidate if any (eg. when template selection used)</li><li><code>C-?</code> : Show candidate help in separate buffer</li><li><code>&lt;f1&gt;</code> : Show candidate help in separate buffer.  This is <b>very</b> handy to quickly review documentation of several symbols!</li><li><code>C-M-v</code> : Scroll help buffer forward (note: see the <a href="#">↗ Scrolling</a> table for more info on scrolling)</li><li><code>Esc &lt;PgDown&gt;</code> : Scroll help buffer forward</li><li><code>C-M-S-v</code> : Scroll help buffer backward</li><li><code>Esc &lt;Pg-up&gt;</code> : Scroll help buffer backward</li><li><code>C-g</code> : Stop completion</li></ul></div>		
<div><a href="#">auto-complete</a></div>	<div>Auto-Complete is one of the auto completion package for Emacs supported by PEL.</div> <div> Requires the <a href="#">auto-complete</a> package  that PEL supports if the <b>pel-use-auto-complete</b> customization variable is set to <code>t</code>.</div> <div>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.</div> <div><ul style="list-style-type: none"><li> The <b>pel-init</b> function will install Auto-Complete from the <a href="#">MELPA</a> archive if it is not already present. You may want to use another version (such as the one from <a href="#">MELPA stable</a>). Just install it before customizing to use it and executing <b>pel-init</b>.</li><li> 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 <b>ac-config-default</b> function.</li><li>Auto-complete provides the following customizable variables (and several others):<ul style="list-style-type: none"><li><b>ac-use-quick-help</b> : set to <code>t</code> to activate a quick pop-up help display that shows right beside the menu choice.</li><li><b>ac-quick-help-delay</b> : delay before the quick help pops up. Default is 1.5 seconds.</li></ul></li></ul></div> <div>PEL provides access to the auto-complete commands via the commands below.</div> <div><div>When invoked through the <code>&lt;f11&gt;c c</code> or <code>M-1</code> key bindings in a buffer that is set for it, <b>auto-complete</b> pops a drop-down menu similar to the one shown here.</div><div></div></div>		
<div><a href="#">company-mode</a></div>	<div>Company-Mode is the other auto completion package supported by PEL.</div> <div> Requires the <a href="#">company-mode</a> external package  that PEL activates when the <b>pel-use-company</b> customization variable is set to <code>t</code>.</div> <div><div>When invoked through the <code>&lt;f11&gt;c c</code> or <code>M-1</code> key bindings in a buffer that is set for it, <b>company-mode</b> pops a drop-down menu similar to the one shown here. The menu identifies the type of target.</div><div></div></div>		
<div><a href="#">corfu</a></div>	<div></div>		

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)	