













Emacs support for C













Description	Keystroke	Function	Note
Support for the C Programming Language	<p>Emacs supports C natively via the built-in c-mode. This package extends the Emacs CC Mode built-in package which supports the curly-bracket programming languages like C.</p> <p> Important aspects of C source code syntax controlled by the CC Mode are customizable with PEL user option variables.</p> <p>PEL customization for C: Simplifies configuration for editing C source code. (To change, use pel-cfg-pkg-c , see below).</p> <ul style="list-style-type: none">Emacs customization group: pel-pkg-for-c<ul style="list-style-type: none">pel-c-indentation: Identifies the number of columns used for indentation. Defaults to 3.pel-c-tab-width: The width of a tab. Defaults to 3. This concept differs from indentation: you can have an indentation of 3 and tab width of 8: M-i will move point to columns that are multiple of 8 <tab> will indent to a column that is a multiple of 3.pel-c-use-tabs: Whether hard tabs are used in indentation or not: t: tabs are used, nil: only spaces are used. Default: nil.pel-c-bracket-style: The bracket/indentation style supported by the electric keys. One of the values supported by Emacs (also possible to define your own with Elisp code). Default to “linux”.Emacs customization group: pel-pkg-for-cc. Applies to all CC Mode related modes (like c-mode).<ul style="list-style-type: none">pel-cc-auto-newline: Whether automatic newline mode is active on all CC Mode (including c-mode). <p>The values for those user option variables can also be stored inside directory local files and even as file local variables. You can also modify them for each buffer and view their current settings using the commands listed in the following set of rows. None of the commands below change PEL default; they change the value for the current buffer only.</p> <p>PEL provides the following set of mode-specific key prefixes:</p> <ul style="list-style-type: none"><f11> SPC c<f12><M-f12> <p>The first one is always available. The other two prefixes are only available when the current buffer is in d-mode. The <M-f12> prefix helps the typing flow when the next key is a Meta key. For simplification, the <f11> SPC c prefix is normally omitted in the table.</p>		
Customize PEL C Support (See also:  Customize)	<ul style="list-style-type: none"><f11> <f1> SPC c<f12> <f1>	(pel-cfg-pkg-c & optional OTHER-WINDOW)	Customize PEL C support. <ul style="list-style-type: none">If OTHER-WINDOW is non-nil (use C-u), display in another window and open the C programming groups as well.The <f12> <f1> binding is available when point is in a buffer visiting a C file.
CC Mode Style Management	Automatic indentation is done by the CC Mode according to its syntactic interpretation of the current line and the indentation mode in use. You can impose an indentation style by customization. But you may use source code written by others and want to continue using the same style. In those cases you can use CC Mode’s ability to analyze the style and report it or start using it (installing it) with the following commands. Not all commands are documented here, see the CC Mode manual for more info.		
Guess the style used in the current buffer, do not install it	M-x c-guess-buffer-no-install	(c-guess-buffer-no-install & optional ACCUMULATE)	Guess the style on the whole current buffer; don’t install it. <ul style="list-style-type: none">If given a prefix argument (or if the optional argument ACCUMULATE is non-nil) then the previous guess is extended, otherwise a new guess is made from scratch.
Guess the style of the code in the buffer	M-x c-guess-buffer	(c-guess-buffer & optional ACCUMULATE)	Guess the style on the whole current buffer, and install it. <ul style="list-style-type: none">The style is given a name based on the file’s absolute file name.If given a prefix argument (or if the optional argument ACCUMULATE is non-nil) then the previous guess is extended, otherwise a new guess is made from scratch.
Guess style in the region	M-x c-guess	(c-guess & optional ACCUMULATE)	Guess the style in the region up to ‘c-guess-region-max’, and install it. <ul style="list-style-type: none">The style is given a name based on the file’s absolute file name.If given a prefix argument (or if the optional argument ACCUMULATE is non-nil) then the previous guess is extended, otherwise a new guess is made from scratch.
Guess the style of a region	M-x c-guess-region	(c-guess-region START END & optional ACCUMULATE)	Guess the style on the region and install it. <ul style="list-style-type: none">The style is given a name based on the file’s absolute file name.If given a prefix argument (or if the optional argument ACCUMULATE is non-nil) then the previous guess is extended, otherwise a new guess is made from scratch.
View Guessed style	M-x c-guess-view	(c-guess-view & optional WITH-NAME)	Emit emacs lisp code which defines the last guessed style, so you can put the code into .emacs if you prefer the guessed code. <ul style="list-style-type: none">"STYLE NAME HERE" is used as the name for the style in the emitted code. If WITH-NAME is given, it is used instead. WITH-NAME is expected as a string but if this function called interactively with prefix argument, the value for WITH-NAME is asked to the user.
Determine syntactic context of current line.	M-x c-guess-basic-syntax	(c-guess-basic-syntax)	Determine the syntactic context of the current line.
Show/Modify syntactic context	C-c C-o	(c-set-offset SYMBOL OFFSET & optional IGNORED)	Change the value of a syntactic element symbol in ‘c-offsets-alist’. <ul style="list-style-type: none">SYMBOL is the syntactic element symbol to change and OFFSET is the new offset for that syntactic element. The optional argument is not used and exists only for compatibility reasons.
Show syntactic information for current line	C-c C-s	(c-show-syntactic-information ARG)	Show syntactic information for current line. <ul style="list-style-type: none">With universal argument, inserts the analysis as a comment on that line.
CC Mode support	The following commands are CC Mode specific, available for each of the programming languages similar that have a mode derived from CC Mode like C. The CC Mode controls the indentation and bracket style which controls what happens when electric characters are typed (when the electric mode is activated) and provide a better experience when editing C source code.		
Display current Mode settings	<ul style="list-style-type: none"><f12> M-?<M-f12> M-?<f11> SPC c M-?	(pel-cc-mode-info)	Display information about current CC mode derivative for the current c-mode buffer. <ul style="list-style-type: none">Example of the information displayed (which reflects PEL’s defaults):<div><pre>--UU-:----F1 hello.c All (1,0) (C/*1a WK) ----- - Tab width : 3 - Indenting with : spaces only - Bracket style : linux - Comment style : Block comments: /* */ , continued line start with * - Electric chars : active: #*/{ } { } ; ; , - Auto newline : on - Syntactic indent : on - Hungry delete : off, but the F11-⌘ and F11-⌘ keys are available.</pre></div>
Toggle Electric state	<ul style="list-style-type: none">C-c C-l<f12> M-e<M-f12> M-e	(c-toggle-electric-state & optional ARG)	Toggle the electric indentation feature done with the electric character keys. <ul style="list-style-type: none">Optional numeric ARG, if supplied, turns on electric indentation when positive, turns it off when negative, and just toggles it when zero or left out.
Toggle auto-newline insertion mode	<ul style="list-style-type: none">C-c C-a<f12> M-RET<M-f12> M-RET	(c-toggle-auto-newline & optional ARG)	Toggle auto-newline feature. <ul style="list-style-type: none">Optional numeric ARG, if supplied, turns on auto-newline when positive, turns it off when negative, and just toggles it when zero or left out.Turning on auto-newline automatically enables electric indentation.When the auto-newline feature is enabled (indicated by “/a” on the mode line after the mode name) newlines are automatically inserted after special characters such as brace, comma, semi-colon, and colon.
Set indentation style	<ul style="list-style-type: none">C-c .<f12> M-s<M-f12> M-s	(c-set-style STYLENAME & optional DONT-OVERRIDE)	Set the bracket/indentation style for the current buffer. <ul style="list-style-type: none">Prompts for the name.Supports tab completion (so use tab to see the list). Can be one of the values supported by Emacs but you can also add your customized mode with some Emacs Lisp code.






Description	Keystroke	Function	Note
Toggle syntactic indentation	<ul style="list-style-type: none"> <f12> M-i <M-f12> M-i 	(c-toggle-syntactic-indentation &optional ARG)	Toggle syntactic indentation. <ul style="list-style-type: none"> Optional numeric ARG, if supplied, turns on syntactic indentation when positive, turns it off when negative, and just toggles it when zero or left out. When syntactic indentation is turned on (the default), the indentation functions and the electric keys indent according to the syntactic context keys, when applicable. When it's turned off, the electric keys don't reindent, the indentation functions indents every new line to the same level as the previous nonempty line, and M-x c-indent-command adjusts the indentation in steps specified by 'c-basic-offset'. The indentation style has no effect in this mode, nor any of the indentation associated variables, e.g. 'c-special-indent-hook'.
Electric Keys and Keywords	The following characters have special meaning when the electrical state is active in a buffer using c-mode.		
	#	(c-electric-pound ARG)	Insert a "#". <ul style="list-style-type: none"> If 'c-electric-flag' is set, handle it specially according to the variable 'c-electric-pound-behavior', which can only be nil or 'alignleft'. If a numeric ARG is supplied, or if point is inside a literal or a macro, nothing special happens.
	<ul style="list-style-type: none"> () 	(c-electric-paren ARG)	Insert a parenthesis. <ul style="list-style-type: none"> If 'c-syntactic-indentation' and 'c-electric-flag' are both non-nil, the line is reindented unless a numeric ARG is supplied, or the parenthesis is inserted inside a literal. Whitespace between a function name and the parenthesis may get added or removed; see the variable 'c-cleanup-list'. Also, if 'c-electric-flag' and 'c-auto-newline' are both non-nil, some newline cleanups are done if appropriate; see the variable 'c-cleanup-list'.
	<ul style="list-style-type: none"> { } 	(c-electric-brace ARG)	Insert a brace. <ul style="list-style-type: none"> If 'c-electric-flag' is non-nil, the brace is not inside a literal and a numeric ARG hasn't been supplied, the command performs several electric actions: <ol style="list-style-type: none"> If the auto-newline feature is turned on (indicated by "/la" on the mode line) newlines are inserted before and after the brace as directed by the settings in 'c-hanging-braces-alist'. Any auto-newlines are indented. The original line is also reindented unless 'c-syntactic-indentation' is nil. If auto-newline is turned on, various newline cleanups based on the settings of 'c-cleanup-list' are done.
	:	(c-electric-colon ARG)	Insert a colon. <ul style="list-style-type: none"> If 'c-electric-flag' is non-nil, the colon is not inside a literal and a numeric ARG hasn't been supplied, the command performs several electric actions: <ol style="list-style-type: none"> If the auto-newline feature is turned on (indicated by "/la" on the mode line) newlines are inserted before and after the colon based on the settings in 'c-hanging-colons-alist'. Any auto-newlines are indented. The original line is also reindented unless 'c-syntactic-indentation' is nil. If auto-newline is turned on, whitespace between two colons will be "cleaned up" leaving a scope operator, if this action is set in 'c-cleanup-list'.
	<ul style="list-style-type: none"> ; , 	(c-electric-semi&comma ARG)	Insert a comma or semicolon. <ul style="list-style-type: none"> If 'c-electric-flag' is non-nil, point isn't inside a literal and a numeric ARG hasn't been supplied, the command performs several electric actions: <ol style="list-style-type: none"> When the auto-newline feature is turned on (indicated by "/la" on the mode line) a newline might be inserted. See the variable 'c-hanging-semi&comma-criteria' for how newline insertion is determined. Any auto-newlines are indented. The original line is also reindented unless 'c-syntactic-indentation' is nil. If auto-newline is turned on, a comma following a brace list or a semicolon following a defun might be cleaned up, depending on the settings of 'c-cleanup-list'.
C Comments	2 more characters have electric behaviour: / and * to help support comments in C. C supports 2 types of comments: <ul style="list-style-type: none"> Block Comments: /* comment */ Line Comments (since C99): // comment to end of line 		
	/	(c-electric-slash ARG)	Insert a slash character. <ul style="list-style-type: none"> If the slash is inserted immediately after the comment prefix in a c-style comment, the comment might get closed by removing whitespace and possibly inserting a """. See the variable 'c-cleanup-list'. Indent the line as a comment, if: <ol style="list-style-type: none"> The slash is second of a "/" line oriented comment introducing token and we are on a comment-only-line, or The slash is part of a "*" token that closes a block oriented comment. If a numeric ARG is supplied, point is inside a literal, or 'c-syntactic-indentation' is nil or 'c-electric-flag' is nil, indentation is inhibited.
	*	(c-electric-star ARG)	Insert a star character. <ul style="list-style-type: none"> If 'c-electric-flag' and 'c-syntactic-indentation' are both non-nil, and the star is the second character of a C style comment starter on a comment-only-line, indent the line as a comment. If a numeric ARG is supplied, point is inside a literal, or 'c-syntactic-indentation' is nil, this indentation is inhibited. With this key it becomes easy to type the following two styles of multi-line block comment: <pre> /* Two star ** continuation ** prefix for ** multi-line ** C comment. */ /* Single star * prefix for * multi-line * C comment. */ </pre> When typing the "" at the beginning of the line, it indents automatically. If another "" is typed, indentation is set to allow a two-star continuation, otherwise it is placed for a single star continuation.
Toggle Comment Style	<ul style="list-style-type: none"> C-c C-k <f12> M-; <M-f12> M-; 	(c-toggle-comment-style &optional ARG)	Toggle the comment style between block and line comments. <ul style="list-style-type: none"> Optional numeric ARG, if supplied, switches to block comment style when positive, to line comment style when negative, and just toggles it when zero or left out. 🙌 This is part of CC Mode. Use <f12> M-? to display the current state.



Description	Keystroke	Function	Note
Comment/un-comment	M-;	(comment-dwim ARG)	<p>Comment line or region with <code>//</code> or <code>/* */</code> style comments depending on the comment style currently used in the buffer.</p> <ul style="list-style-type: none"> When no marked region and no comment: <ul style="list-style-type: none"> On empty line: insert comment starter at the proper indentation level. Typed again: move it toward end of line. On line with code: insert comment starter after the code for an end-of-line comment With marked un-commented region: <ul style="list-style-type: none"> Comment region (each line is commented) With marked commented region: <ul style="list-style-type: none"> removes the comment. <ul style="list-style-type: none"> Call the comment command you want (Do What I Mean). If the region is active and 'transient-mark-mode' is on, call 'comment-region' (unless it only consists of comments, in which case it calls 'uncomment-region'). Else, if the current line is empty, call 'comment-insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a prefix ARG is specified, call 'comment-kill'. Else, call 'comment-indent'. You can configure 'comment-style' to change the way regions are commented: see <F12> M-; to toggle the comment style.
	C-c C-c	(comment-region BEG END &optional ARG)	<p>Comment or uncomment each line in the region.</p> <ul style="list-style-type: none"> With just C-u prefix arg, uncomment each line in region BEG .. END. Numeric prefix ARG means use ARG comment characters. If ARG is negative, delete that many comment characters instead. <p>The strings used as comment starts are built from 'comment-start' and 'comment-padding'; the strings used as comment ends are built from 'comment-end' and 'comment-padding'.</p> <p>By default, the 'comment-start' markers are inserted at the current indentation of the region, and comments are terminated on each line (even for syntaxes in which newline does not end the comment and blank lines do not get comments). This can be changed with 'comment-style'.</p> <p>👉 If you try this when no region is marked and the <code>/* */</code> style comments is active, the comment ends on the next space, which is probably not what you want. The command comment-dwim works better.</p>
Fill current paragraph (See also: Σ Filling/Justification)	<ul style="list-style-type: none"> M-q <f12> F <M-f12> F 	(c-fill-paragraph &optional ARG)	<p>Like <f11> t f p but handles <code>//</code> and <code>/* */</code> style comments.</p> <ul style="list-style-type: none"> If any of the current line is a comment or within a comment, fill the comment or the paragraph of it that point is in, preserving the comment indentation or line-starting decorations (see the 'c-comment-prefix-regexp' and 'c-block-comment-prefix' variables for details). If point is inside multiline string literal, fill it. This currently does not respect escaped newlines, except for the special case when it is the very first thing in the string. The intended use for this rule is in situations like the following: <pre>char description[] = "\ A very long description of something that you want to fill to make nicely formatted output.";</pre> <ul style="list-style-type: none"> If point is in any other situation, i.e. in normal code, do nothing. Optional prefix ARG means justify paragraph as well.
Toggle subword-mode (See also: Σ Text Modes)	<ul style="list-style-type: none"> <f11> t m b <f12> M-b <M-f12> M-b 	(subword-mode &optional ARG)	<p>Toggle subword-mode: a minor mode that treats sections of <code>camelCase</code> and <code>PascalCase</code> as distinct words.</p> <ul style="list-style-type: none"> With a prefix argument ARG, enable Subword mode if ARG is positive, and disable it otherwise.
Toggle display of comments in buffer or active region (See: Σ Comments)	<f11> ; ;	(hide/show-comments-toggle &optional START END)	<p>Toggle hiding/showing of comments in the active region or whole buffer.</p> <ul style="list-style-type: none"> If the region is active then toggle in the region. Otherwise, in the whole buffer. <p>📦 This requires the hide-comnt.el package (see Σ Comments). 🐛 PEL activates it when the pel-use-hide-comnt user option is t.</p>
Hungry Deletion of Whitespace	<p>The CC mode provides two commands that can perform "hungry whitespace deletion" that can also be used in every mode.</p> <ul style="list-style-type: none"> 👉 PEL provides the convenient keys with the <f11> prefix keys for those 2 commands, available in all modes. In modes compatible with the CC Mode (e.g. for C, C++, D, Java, Pike, etc..) it is also possible to activate the Hungry Delete Mode to modify the behaviour of the simple and C-d, to perform hungry deletions. That's not currently supported in other modes. <ul style="list-style-type: none"> When the Hungry Delete Mode is on, the mode-line displays a 'h' to the right of the '/'/' indication of electric mode. The Hungry Mode also activates the key prefixes below that start with C-c. They are listed but remember they are only available once the Hungry state mode is activated (and that can only be done in modes that are CC Mode compatible). In modes derived from CC Mode you can also activate the hungry state to make standard delete commands delete hungrily, but that does not work for other modes. PEL provides the <f12> M-DEL key for those modes (like C). 		
Delete preceding char or all preceding whitespace. (See also: Σ Cut & Paste)	<ul style="list-style-type: none"> C-c DEL C-c  C-c C- C-c <C-backspace> C-c C-DEL <f11>  	(c-hungry-delete-backwards)	<p>Delete the preceding character or all preceding whitespace back to the previous non-whitespace character.</p> <p>🗨️ In terminal mode, even though C-, <C-backspace> and C-DEL are not available, they are mapped to the non-control key so attempting to type them end up invoking the command anyway because the first key bindings are recognized.</p> <p>👉 With PEL, the <f11>  binding is always available, in all modes. The other keys are only available in modes derived from the CC Mode. This prevents conflicts with other modes that may use the popular C-c bindings.</p>
Delete next char or all following whitespace. (See also: Σ Cut & Paste)	<ul style="list-style-type: none"> C-c C-d C-c  C-c C- C-c <C-delete> <f11>  	(c-hungry-delete-forward)	<p>Delete the following character or all following whitespace up to the next non-whitespace character.</p> <p>🗨️ In terminal mode, even though C- and <C-delete> are not available, they are mapped to the non-control key so attempting to type them end up invoking the command anyway because the first key bindings are recognized.</p> <p>👉 With PEL, the <f11>  binding is always available, in all modes. The other keys are only available in modes derived from the CC Mode. This prevents conflicts with other modes that may use the popular C-c bindings.</p>
Toggle Hungry Delete mode	<ul style="list-style-type: none"> <f12> M-DEL <M-f12> M-DEL 	(c-toggle-hungry-state &optional ARG)	<p>Toggle hungry-delete-key feature. Affect and C-d keys.</p> <ul style="list-style-type: none"> Optional numeric ARG, if supplied, turns on hungry-delete when positive, turns it off when negative, and just toggles it when zero or left out. When the hungry-delete-key feature is enabled (indicated by "h" on the mode line after the mode name) the delete key gobbles all preceding whitespace in one fell swoop. <p>👉 This is part of CC Mode. Use <f12> M-? to display the current state.</p>

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Indentation	All syntactic indentation control for D is controlled by the CC-Mode logic and provided commands listed below. <ul style="list-style-type: none"> Rigid indentation commands are also available and listed at the end of this list. They are also listed in the Σ Indentation table. 		
Indent current line or region (See also: Σ Indentation)	<tab>	(c-indent-line-or-region &optional ARG REGION)	Indent active region, current line, or block starting on this line. <ul style="list-style-type: none"> Behaviour depends on syntactic-indentation mode (enabled by default but can be toggled on/off with the <f12> M-i key): <ul style="list-style-type: none"> With syntactic-indentation on (the default): <ul style="list-style-type: none"> In Transient Mark mode, when the region is active, reindent the region. Otherwise, with a prefix argument, rigidly reindent the expression starting on the current line. Otherwise reindent just the current line. Otherwise reindent just the current line. <div>👉 This might seem strange for new Emacs users, but it ends up being very useful. You can type <tab> anywhere in the line to adjust the indentation of the current line or everything in the marked area if a block is marked.</div> With syntactic-indentation off: <ul style="list-style-type: none"> <tab> always indent current line by one level C-u - <tab> or M- <tab> always un-indent current line by one level Indenting marked region is done without syntax knowledge and at the same level as previous line. 👉 If you want to indent rigidly you can use: <ul style="list-style-type: none"> (pel-indent-rigidly &optional N) (bound to C-x <tab> and to <f11> <tab><tab>) to indent the line or region rigidly. (tab-to-tab-stop), bound to M-i to insert spaces to the next tab stop column.
Indent lines of list after point (See also: Σ Indentation)	C-M-q	(indent-pp-sexp &optional ARG)	Indent each line of the list starting just after point, or pretty-print it. <ul style="list-style-type: none"> A prefix argument (C-u) specifies pretty-printing. Pretty-printing essentially uses more lines as it places the beginning of each list on a new line.
Indent current function or class	C-c C-q	(c-indent-defun)	Indent the content of the current top-level function or class. Leaves point unchanged.
Indent a region	C-M-\	(indent-region START END &optional COLUMN)	Indent each nonblank line in the region. <ul style="list-style-type: none"> A numeric prefix argument specifies a column: indent each line to that column. With no prefix argument, the command chooses one of these methods and indents all the lines with it: <ol style="list-style-type: none"> If 'fill-prefix' is non-nil, insert 'fill-prefix' at the beginning of each line in the region that does not already begin with it. If 'indent-region-function' is non-nil, call that function to indent the region. Indent each line via 'indent-according-to-mode'. 👉 When a region is marked you can also use the simple <tab> to do the same when syntactic-indentation is active.
Non Syntactic Indentation	Emacs provides the following command to indent without regards to semantics. More information on indentation is available in the Σ Indentation table.		
Insert spaces or tabs to next defined tab-stop column (See also: Σ Indentation)	M-i	(tab-to-tab-stop)	Insert spaces or tabs to next defined tab-stop column. <ul style="list-style-type: none"> The exact location of the next tab stop is identified by the value of the tab-stop-list and tab-width for the current buffer.
Indent/Unindent rigidly (See also: Σ Indentation)	<ul style="list-style-type: none"> C-x <tab> <f11> <tab> <tab> 	(pel-indent-rigidly &optional N) ----- ✂ PEL uses the above instead of the standard: (indent-rigidly START END ARG &optional INTERACTIVE)	Indent rigidly the marked region or current line N times. <ul style="list-style-type: none"> If a region is marked, it uses 'indent-rigidly' and provides the same prompts to control indentation changes. If no region is marked, it operates on current line(s) identified by the numeric argument N (or if not specified N=1): <ul style="list-style-type: none"> N = [-1, 0, 1] : operate on current line N > 1 : operate on the current line and N-1 lines below. N < -1 : operate on the current line and (abs N) -1 lines above. <div>✂ PEL rebinds this key, but it extends the functionality: pel-indent-rigidly uses indent-rigidly, described below the dashed line.</div> ----- Indent all lines starting in the region. <ul style="list-style-type: none"> If called interactively with no prefix argument, activate a transient mode in which the indentation can be adjusted interactively by typing <left>, <right>, <S-left>, or <S-right>. ----- These commands activate a transient mode where Emacs prompts for extra keys to control how to indent. Indenting and un-indenting is possible. The capabilities are controlled by the variable <i>indent-rigidly-map</i> with by default provides: <ul style="list-style-type: none"> S-<right> indent-rigidly-right-to-tab-stop S-<left> indent-rigidly-left-to-tab-stop <right> indent-rigidly-right <left> indent-rigidly-left Typing any other key deactivates the transient mode. <div>⚠ Since cua-mode uses C-x, to invoke this command when cua-mode is active, type it really fast or type C-x C-x <tab> (or use the PEL binding <f11> <tab> <tab>).</div>
Indent rigidly C-mode style	<ul style="list-style-type: none"> <f6> <tab> <f11> <tab> c 	(pel-insert-c-indent &optional N)	Insert as many spaces as identified by c-basic-offset variable on the current line or all marked lines. <ul style="list-style-type: none"> If a region was marked before the command it remains marked, allow further use of the same or other command to control the region. Use C-g to de-activate the region.
Un-indent rigidly C-mode style	<ul style="list-style-type: none"> <backtab> <f6> <backtab> <f11> <tab> C 	(pel-unindent &optional N)	Un-indent current line or marked lines by N times c-basic-offset spaces. <ul style="list-style-type: none"> Works for point is anywhere on the line. If a region was marked before the command it remains marked, allow further use of the same or other command to control the region. Use C-g to de-activate the region. 🐛 Limitation: does not handle hard tabs properly.

Description	Keystroke	Function	Note
<p>Tempo skeletons for C</p> <p>(See also: ⌘ Inserting Text for more info and information about tempo skeleton and yasnippet template-based text insertion).</p>	<p>PEL provides support for flexible text template insertion through the Emacs built-in tempo skeleton mechanism.</p> <ul style="list-style-type: none"> • PEL creates key bindings to invoke the skeletons in the supported major modes, using the same key prefix sequence for each mode: <f12> <f12>, with the same key bindings for equivalent concepts (such as file header block) as much as possible. • 🐭 Several aspects of the PEL Emacs Lisp Source Code Style is controlled by the user options inside the pel-c-code-style group. This group can be edited with <f12> <f1> from a C mode buffer and include the following options: <ul style="list-style-type: none"> • pel-c-skel-insert-file-timestamp : set whether an automatically updated timestamp is inserted in the file header block. • pel-c-skel-use-separators : set whether blocks use horizontal separator lines. • pel-c-skel-insert-sections : set whether the template inserts sections for local types, local variables, etc... • pel-c-skel-with-license : set whether file header blocks use open source software license text controlled by 📄 lice. • pel-c-use-uuid-include-guards : If set, include guards using pre-processor symbols made out of the file base name and automatically generated UUID strings are inserted in C header files. <p>👉 Emacs user options by default take effect globally. But by using file and directory variables (see ⌘ File/Directory Variables) they can also be used to take effect on a single file or all files inside a directory tree. So by default, the user options that control the PEL tempo template take effect globally. If you want to change the behaviour for only one file, write the user option control block at the end of that file. If you want to control the behaviour of the PEL tempo templates for all files inside a directory tree create a .dir-locals file and store the values of the relevant options variables inside that file. This allows you to control the user options affecting the format of the tempo templates precisely and does not affect what you actually type.</p> <ul style="list-style-type: none"> • Once a skeleton was just entered (or later by activating the pel-tempo-mode) you can move to the next or previous point of interest (so called <i>tempo-marks</i>) with the standard tempo-mode keys C-c M-f and C-c M-b or some other keys like C-c . and C-c C-.. 		
Insert a file header	<f12> <f12> C-h	(pel-c-file-header)	<p>Insert a large file header the includes sections controlled by the user options in the pel-c-code-style customization group.</p> <ul style="list-style-type: none"> • Prompts for file purpose and insert a complete file header block with the file name, its purpose, automatically updated timestamp if required by customization, license text if required by customization. <ul style="list-style-type: none"> • If the file is a C header, inserts a safe and portable C pre-processor #include guard statement that uses a symbol made out of the file base name and an automatically generated UUID string. This eliminates possibility of include header file clash. It is inserted when activated by customization (default is on). • If the file is a C source code file, it inserts a set of code section blocks when activated by customization, potentially separated by horizontal separator lines. The blocks identify the code location of header file inclusion, local type, local variables, code, etc... • Automatically activates the PEL tempo skeleton mode so you can move to the target points where extra text must be entered to complete the template.
Toggle pel-tempo-mode	<f12> <f12> SPC	(pel-tempo-mode &optional ARG)	<p>Toggle PEL tempo mode on/off.</p> <p>PEL tempo mode activates C-c . and C-c , as well as to C-c C-. and C-c C-, key bindings to navigate across tempo mark hot-spots. When pel-tempo-mode is active the pel-tempo-mode lighter (⚡) is shown on the status bar. The second set are only available when Emacs runs in graphics mode.</p> <p>👉 When a skeleton is inserted via the execution of one of the pel-rst-... commands, the pel-tempo-mode is automatically activated.</p>
Toggle pel-tempo-mode	<f12> <f12> SPC	(pel-tempo-mode &optional ARG)	<p>Toggle PEL tempo mode on/off.</p> <p>PEL tempo mode activates C-c . and C-c , as well as to C-c C-. and C-c C-, key bindings to navigate across tempo mark hot-spots. When pel-tempo-mode is active the pel-tempo-mode lighter (⚡) is shown on the status bar. The second set are only available when Emacs runs in graphics mode.</p> <p>👉 When a skeleton is inserted via the execution of one of the pel-rst-... commands, the pel-tempo-mode is automatically activated.</p>
Jump to next tempo mark	<ul style="list-style-type: none"> • C-c M-f • C-c . • C-c C-. 	(tempo-forward-mark)	<p>Jump to the next mark in ‘tempo-back-mark-list’: the location where code must be updated inside the inserted skeleton.</p> <ul style="list-style-type: none"> • These key key bindings are only available when pel-tempo-mode is active.
Jump to previous tempo mark	<ul style="list-style-type: none"> • C-c M-b • C-c , • C-c C-, 	(tempo-backward-mark)	<p>Jump to the previous mark in ‘tempo-back-mark-list’: the location where code must be updated inside the inserted skeleton.</p> <ul style="list-style-type: none"> • These key binding are only available when pel-tempo-mode is active.
Tempo Template Tag Insertion	<f12> <f12> <f12>	(tempo-complete-tag &optional SILENT)	<p>Look for a tag and expand it.</p> <p>👉 Instead of using the <f12><f12> key bindings above, you can type the template name (shown in the title column like “if”, “case”, etc) completely or partially and then hit <f12><f12><f12>. A completion buffer opens up if the template name is incomplete (or empty in which case the buffer lists all available template names). Select the template name and hit RET. Emacs expands the template.</p> <ul style="list-style-type: none"> • All the tags in the tag lists in ‘tempo-local-tags’ (this includes ‘tempo-tags’) are searched for a match for the text before the point. The way the string to match for is determined can be altered with the variable ‘tempo-match-finder’. If ‘tempo-match-finder’ returns nil, then the results are the same as no match at all. • If a single match is found, the corresponding template is expanded in place of the matching string. • If a partial completion or no match at all is found, and SILENT is non-nil, the function will give a signal. • If a partial completion is found and ‘tempo-show-completion-buffer’ is non-nil, a buffer containing possible completions is displayed. <p>👉 Since only one template is available in emacs-lisp-mode, the usefulness of this command is limited here.</p>
Inserting code	Extra text insertion can be done with the following commands.		
Insert Parentheses	M- ((insert-parentheses &optional ARG)	<p>For C: insert a parenthesis pair ‘()’, leaving point after open-paren.</p> <ul style="list-style-type: none"> • A positive ARG encloses the following ARG sexps in parenthesis if they are balanced. • A negative ARG encloses the preceding ARG sexps instead. • No argument is equivalent to zero: just insert ‘()’ and leave point between. • PEL makes ‘parens-require-spaces’ buffer local and set it to nil in C mode buffers, allowing the use of this command to insert the argument parentheses following a function (and without placing a space between the function name and the opening parenthesis. • If region is active, insert enclosing characters at region boundaries. • This command assumes point is not in a string or comment.
Inserting New Lines	The behaviour of the RET key depends on whether the CC Mode electric mode is active or not. When it is not active it simply inserts a new line. When it is active the point also moves to the proper indentation according to the syntactic context. The following commands can also be used.		
Open Line in Context (See also: ⌘ Whitespace)	<ul style="list-style-type: none"> • <f12> RET • <M-f12> RET 	(c-context-open-line)	<p>Insert a line break suitable to the context and leave point before it.</p> <ul style="list-style-type: none"> • This is the ‘c-context-line-break’ equivalent to ‘open-line’, which is normally bound to C-o. See ‘c-context-line-break’ for the details.
Insert an indented line below current line (See also:⌘Indentation)	<ul style="list-style-type: none"> • M-<RET> • <f11> <tab> <RET> 	(pel-newline-and-indent-below)	<p>Insert an indented line just below current line regardless of the position of point.</p> <p>So if point is at the beginning, middle or end of the line it just insert a new line below the current one at the proper indentation.</p>
Marking	Emacs provides the following command to quickly mark the whole content of the current function. More mark commands exists, see the ⌘ Marking table.		

Description	Keystroke	Function	Note
Mark the complete function body (See also: Σ Marking)	C–M–h	(c-mark-function)	Mark complete function. <ul style="list-style-type: none"> Put mark at end of the current top-level declaration or macro, point at beginning. If point is not inside any then the closest following one is chosen. Each successive call of this command extends the marked region by one function. A mark is left where the command started, unless the region is already active (in Transient Mark mode). As opposed to C-M-a and C-M-e, this function does not require the declaration to contain a brace block.
Getting Syntactic Information	Use the following commands to extract syntactic information from the source code.		
Display name of current function	<ul style="list-style-type: none"> C–c C–z <f12> f <M–f12> f 	(c-display-defun-name &optional ARG)	Display the name of the current CC mode defun and the position in it. <ul style="list-style-type: none"> With a prefix arg, push the name onto the kill ring too.
Highlighting blocks	The following commands can be used to activate or toggle useful modes to highlight blocks of <code>()</code> , <code>{}</code> , and <code>[]</code> . <ul style="list-style-type: none"> <code>show-paren-mode</code>, which highlights the parens that matches the one before or after point. <code>rainbow-delimiters</code> mode, where matching nested parens are highlighted with the same colour. 		
Toggle show-paren mode on/off (see also: Σ Highlight)	<ul style="list-style-type: none"> <f12> M–9 <M–f12> M–9 <f11> b h ((show-paren-mode &optional ARG)	Toggle visualization of matching parens (Show Paren mode). <ul style="list-style-type: none"> With a prefix argument ARG, enable Show Paren mode if ARG is positive, and disable it otherwise. Show Paren mode is a global minor mode. When enabled, any matching parenthesis is highlighted in ‘show-paren-style’ after ‘show-paren-delay’ seconds of Emacs idle time.
Enable/Disable coloured highlight of nested blocks <code>()</code>,<code>{}</code>,<code>[]</code> (see also: Σ Highlight)	<ul style="list-style-type: none"> <f12> M–r <M–f12> M–r <f11> b h R 	(rainbow-delimiters-mode &optional ARG)	Highlight nested parentheses, brackets, and braces with different colours according to their depth. <ul style="list-style-type: none"> Customize the depth and colours with M-x customize-group rainbow-delimiters <div>  Requires: rainbow-delimiters.el </div> <div>  PEL activates this when the <code>pel-use-rainbow-delimiters</code> customize variable is set to <code>t</code>. </div>
Navigation in C (See also: Σ Navigation)	Emacs provides commands to navigate across source of curly bracket programming languages like C. Most commands are specialization of the normal navigation commands which are described in the table Σ Navigation, along with the other commands that are also available. The list below describe the specialized commands only. See the others inside Σ Navigation, like the navigation by blocks, very useful in C.		
Go to beginning of statement	M–a	(c-beginning-of-statement &optional COUNT LIM SENTENCE-FLAG)	Go to the beginning of the innermost statement. <ul style="list-style-type: none"> With prefix arg, go back N - 1 statements. If already at the beginning of a statement then go to the beginning of the closest preceding one, moving into nested blocks if necessary (use C–M–b to skip over a block). If within or next to a comment or multiline string, move by sentences instead of statements.
Go to the end of statement	M–e	(c-end-of-statement &optional COUNT LIM SENTENCE-FLAG)	Go to the end of the innermost statement. <ul style="list-style-type: none"> With prefix arg, go forward N - 1 statements. Move forward to the end of the next statement if already at end, and move into nested blocks (use C–M–f to skip over a block). If within or next to a comment or multiline string, move by sentences instead of statements.
Backward to beginning of current top-level function or struct	C–M–a	(c-beginning-of-defun &optional ARG)	Move backward to the beginning of a defun. <ul style="list-style-type: none"> Every top level declaration that contains a brace paren block is considered to be a defun. With a positive argument, move backward that many defuns. A negative argument -N means move forward to the Nth following beginning.
	<ul style="list-style-type: none"> C–M–<home> <f6> p <f6> <up> 	(beginning-of-defun &optional ARG)	Move backward to the beginning of a defun. <ul style="list-style-type: none"> With ARG, do it that many times. Negative ARG means move forward to the ARGth following beginning of defun. <div>  Shift marking is available in graphics mode, not in terminal mode (for C–M–a and C–M–<home>). However <f6> p handles Shift-marking fine in terminal mode. </div> <div>  This command moves to the beginning go the next function or of the same nesting level of the current location. It skips the functions and methods that are more deeply nested. </div>
Forward to end of current top-level function or struct.	C–M–e	(c-end-of-defun &optional ARG)	Move forward to the end of a top level declaration. <ul style="list-style-type: none"> With argument, do it that many times. Negative argument -N means move back to Nth preceding end.
	<ul style="list-style-type: none"> C–M–<end> <f6> <right> 	(end-of-defun &optional ARG)	Move forward to next end of defun. With argument, do it that many times. Negative argument -N means move back to Nth preceding end of defun. <div>  Shift marking is available in graphics mode, not in terminal mode (both keys). </div> <div>  This command moves to the end of the next top-level function or class. It skips the nested functions and methods. </div>
Forward to start of next top level function or struct	<ul style="list-style-type: none"> <f6> n <f6> <down> 	(pel-beginning-of-next-defun &optional SILENT DONT-PUSH_MARK)	Move forward to the beginning of the next function definition. <ul style="list-style-type: none"> Beeps if does not find beginning of next function unless SILENT is non-nil. If the beginning of next function is found, push the start location to the mark ring unless DONT-PUSH_MARK is non-nil. <ul style="list-style-type: none"> Move back to previous position with M–`. <div>  Shift marking is available. </div> <div>  This command complements what end-of-defun does. </div> <ul style="list-style-type: none"> It moves forward but not to the end of the function definition (like end-of-defun) but to the beginning of the function definition, which is often what users of other editors expect. It handles nested functions or class methods in languages like Python and others.
Backward to end of previous top level function or struct	<f6> <left>	(pel-end-of-previous-defun &optional SILENT DONT-PUSH_MARK)	Move backwards to the end of the previous function definition. <ul style="list-style-type: none"> Beeps if does not find end of previous function unless SILENT is non-nil. If the end of previous function is found, push the start location to the mark ring unless DONT-PUSH_MARK is non-nil. <ul style="list-style-type: none"> Move back to previous position with M–`. <div>  Shift marking is available. </div> <div>  This command complements this set of 4 commands. </div> <div>  In some cases it fails to detect the end of the previous block and fails.  </div>
<u>C Pre-Processor</u>	By default, Emacs supports navigation through C pre-processor conditional statements, allow expansion of pre-processor macros, hiding pre-processor statements that would not be executed with the Hide-ifdef mode. There are also external packages that provide extra support. All commands provided by Emacs and external packages are listed below. They can be used for editing C and C++ source code.		
<u>Navigate across pre-processor conditionals</u>	The following commands move point across the #if , #else , #elif and #endif C pre-processor conditional statements.		
Move up in the pre-processor conditional block	C–c C–u	(c-up-conditional COUNT)	Move back to the containing preprocessor conditional, leaving mark behind. <ul style="list-style-type: none"> A prefix argument acts as a repeat count. With a negative argument, move forward to the end of the containing preprocessor conditional. "#elif" is treated like "#else" followed by "#if", so the function stops at them when going backward, but not when going forward.
Move to the previous pre-processor conditional block	C–c C–p	(c-backward-conditional COUNT &optional TARGET-DEPTH WITH-ELSE)	Move back across a preprocessor conditional, leaving mark behind. <ul style="list-style-type: none"> A prefix argument acts as a repeat count. With a negative argument, move forward across a preprocessor conditional.

Description	Keystroke	Function	Note
<u>Move to the next pre-processor conditional block</u>	C-c C-n	(c-forward-conditional COUNT &optional TARGET-DEPTH WITH-ELSE)	Move forward across a preprocessor conditional, leaving mark behind. <ul style="list-style-type: none">A prefix argument acts as a repeat count. With a negative argument, move backward across a preprocessor conditional.If there aren't enough conditionals after (or before) point, an error is signaled."#elif" is treated like "#else" followed by "if", except that the nesting level isn't changed when tracking subconditionals.
<u>Expand Pre-Processor</u>	<ul style="list-style-type: none">C-c C-e<f12> # #<M-12> # #	(c-macro-expand START END SUBST)	Expand C macros in the region, using the C preprocessor. <ul style="list-style-type: none">Normally display output in temp buffer, but prefix arg means replace the region with it.  Customizations: <ul style="list-style-type: none">'c-macro-preprocessor' specifies the preprocessor to use.If the user option 'c-macro-prompt-flag' is non-nil prompt for arguments to the preprocessor (e.g. '-DDEBUG -I ./include'), otherwise use 'c-macro-cppflags'.
Insert/align or delete end-of-line backslash	C-c C-\	(c-backslash-region FROM TO DELETE-FLAG &optional LINE-MODE)	Insert, align, or delete end-of-line backslashes on the lines in the region. <ul style="list-style-type: none">With no argument, inserts backslashes and aligns existing backslashes.With an argument, deletes the backslashes.This function does not modify blank lines at the start of the region. If the region ends at the start of a line and the macro doesn't continue below it, the backslash (if any) at the end of the previous line is deleted.You can put the region around an entire macro definition and use this command to conveniently insert and align the necessary backslashes.  Customizations: <ul style="list-style-type: none">The backslash alignment is done according to the settings in 'c-backslash-column', 'c-backslash-max-column' and 'c-auto-align-backslashes'.
<u>Hide-ifdef Mode</u>	<p>The Hide-ifdef mode can hide portion of the C pre-processor blocks.</p> <ul style="list-style-type: none">This feature hides blocks of code that would not be include in the expanded file according to the state of pre-processor symbols that are maintained inside the Hide-ifdef environment: the hide-ifdef-env association list Emacs variable (use <f1> v to see the content of these variables, see the  Help table).Note that with PEL, in the table below the commands reachable via the <f12> prefix keys can also be reached via the <M-f12> and the <f11> SPC c prefix keys.  Several customize user option variables affect how the hiding is done (to change, execute: M-x customize-group hide-ifdef): <ul style="list-style-type: none">'hide-ifdef-env' An association list of defined symbols for the current project. Initially, the global value of 'hide-ifdef-env' is used. This variable was a buffer-local variable, which limits hideif to parse only one C/C++ file at a time. We've extended hideif to support parsing a C/C++ project containing multiple C/C++ source files opened simultaneously in different buffers. Therefore 'hide-ifdef-env' can no longer be buffer local but must be global.<ul style="list-style-type: none">(SYMBOL) is used when the SYMBOL is defined (but without explicit value)(SYMBOL . VALUE) when the symbol is defined with an explicit value.'hide-ifdef-define-alist' An association list of pre-defined symbol lists. Use 'hide-ifdef-set-define-alist' to save the current 'hide-ifdef-env' and 'hide-ifdef-use-define-alist' to set the current 'hide-ifdef-env' from one of the lists in 'hide-ifdef-define-alist'.'hide-ifdef-lines' Set to non-nil to not show #if, #ifdef, #ifndef, #else, and #endif lines when hiding.'hide-ifdef-initially' Indicates whether 'hide-ifdefs' should be called when Hide-Ifdef mode is activated.'hide-ifdef-read-only' Set to non-nil if you want to make buffers read only while hiding. After 'show-ifdefs', read-only status is restored to previous value. <p>Key Prefixes: the <f12> , <M-f12> and <f11> SPC c key prefixes are available for all the following commands, although not all shown below.</p>		
Toggle the Hide-Ifdef mode	<ul style="list-style-type: none"><f12> M-#<M-f12> M-#<f11> SPC c M-#	(hide-ifdef-mode &optional ARG)	Toggle features to hide/show #ifdef blocks (Hide-Ifdef mode). <ul style="list-style-type: none">With a prefix argument ARG, enable Hide-Ifdef mode if ARG is positive, and disable it otherwise.Hide-Ifdef mode is a buffer-local minor mode for use with C and C-like major modes. When enabled, code within #ifdef constructs that the C preprocessor would eliminate may be hidden from view.
Hide content of all #ifdef statements that would not be included	<ul style="list-style-type: none">C-c @ h<f12> # H<M-f12> # H<f11> SPC c # H	(hide-ifdefs &optional NOMSG)	Hide the contents of some #ifdefs. <ul style="list-style-type: none">Assume that defined symbols have been added to 'hide-ifdef-env'.The text hidden is the text that would not be included by the C preprocessor if it were given the file with those symbols defined.With prefix command presents it will also hide the #ifdefs themselves.Turn off hiding by calling 'show-ifdefs'.
Restore all hidden into view	<ul style="list-style-type: none">C-c @ s<f12> # S	(show-ifdefs)	Cancel the effects of 'hide-ifdef': show the contents of all #ifdefs.
Hide part of current block that would not be included	<ul style="list-style-type: none">C-c @ C-d<f12> # h	(hide-ifdef-block &optional ARG START END)	Hide the ifdef block (true or false part) enclosing or before the cursor. <ul style="list-style-type: none">With optional prefix argument ARG, also hide the #ifdefs themselves.
Show all parts of the current #ifdef block	<ul style="list-style-type: none">C-c @ C-s<f12> # s	(show-ifdef-block &optional START END)	Show the ifdef block (true or false part) enclosing or before the cursor.
Set a variable to a specific value	<ul style="list-style-type: none">C-c @ d<f12> # d	(hide-ifdef-define VAR &optional VAL)	Define a VAR to VAL (default 1) in 'hide-ifdef-env'. <ul style="list-style-type: none">This allows #ifdef VAR to be hidden.
Undefine a variable	<ul style="list-style-type: none">C-c @ u<f12> # u	(hide-ifdef-undef START END)	Undefine a VAR so that #ifdef VAR would not be included.
Save the symbol environment list into a named list	<ul style="list-style-type: none">C-c @ D<f12> # D	(hide-ifdef-set-define-alist NAME)	Save the state of the current hide-ifdev-env to a list with the specified NAME for later re-use. The value is saved inside the ' hide-ifdef-define-alist ' variable.  The list is not saved to disk. You may want to pre-create the value for a given project and store it inside your local directory variables for example.
Use a named symbol environment list	<ul style="list-style-type: none">C-c @ U<f12> # U	(hide-ifdef-use-define-alist NAME)	Use an already saved symbol list with the specified NAME and store it inside the 'hide-ifdef-env' to be used in the editing session. Set 'hide-ifdef-env' to the define list specified by NAME.
Toggle read-only mode when text is hidden	<ul style="list-style-type: none">C-c @ C-q<f12> # r	(hide-ifdef-toggle-read-only)	Toggle read-only: toggle 'hide-ifdef-read-only'. <ul style="list-style-type: none">Note that you can make the file read only by default when hide-ifdef is hiding text, by setting the 'hide-ifdef-read-only' user option to t.
Toggle shadowing of hidden text.	<ul style="list-style-type: none">C-c @ C-w<f12> # w	(hide-ifdef-toggle-shadowing)	Toggle shadowing. When shadowing is on, text that would be hidden is "shadowed" instead: it is displayed with the shadow face (normally something dim, all depending of the theme used).
Clear the complete list of #define'd symbols inside 'hide-ifdef-env'	<ul style="list-style-type: none">C-c @ C<f12> # C	(hif-clear-all-ifdef-defined)	Clears all symbols defined in 'hide-ifdef-env'. <ul style="list-style-type: none">It will backup this variable to 'hide-ifdef-env-backup' before clearing to prevent accidental clearance.
Evaluate pre-processor macro	<ul style="list-style-type: none">C-c @ e<f12> # e	(hif-evaluate-macro RSTART REND)	Evaluate the macro expansion result for the active region. <ul style="list-style-type: none">If no region active, find the current #ifdefs and evaluate the result.Currently it supports only math calculations, strings or argumented macros can not be expanded.
<u>Rendering markup embedded in comments</u>	The following commands are used to create images from specific markup code embedded inside C source code comments. This can be useful when using these markup languages to describe UML diagrams or finite-state machines for example.		

Description	Keystroke	Function	Note
Preview UML diagram from plantUML source in current plantUML region of commented source code (See also: MPlantUML)	<f12> u	(pel-render-commented-plantuml PREFIX &optional POS)	Render the PlantUML markup embedded in current mode comment. <ul style="list-style-type: none"> Use region if identified otherwise use PlantUML block at point. Uses prefix (as PREFIX) to choose where to display it: <ul style="list-style-type: none"> 4 (when prefixing the command with C-u) -> new window 16 (when prefixing the command with C-u C-u) -> new frame. else -> new buffer This can be used inside buffer using any major mode, when PlantUML markup is embedded inside source code comment. <p>👉 Use this in source code to describe your code architecture with PlantUML markup, then generate the UML rendering by moving point inside the PlantUML block and issuing this command.</p> <p>📦 Requires the plantuml-mode external package,  activated by pel-use-plantuml user option being non-nil.</p>
Preview diagram created from Graphviz DOT markup embedded in comments (See also: MGraphviz Dot)	<f12> G	(pel-render-commented-graphviz-dot &optional POS)	Render the Graphviz-Dot markup embedded in current mode comment. Search at POS if specified, otherwise search around point. Use region if identified otherwise use Graphviz-Dot block. <p>👉 The graphviz DOT code must be located within a block delimited by the following special keywords (that are also in comments):</p> <ul style="list-style-type: none"> @start-gdot @end-gdot <p>⚠️ The current implementation leaves the created image file in a temporary directory. You will probably want to move that file or delete it, otherwise the size of this directory will increase with each of these created files. The file names use the pel-gdot- prefix.</p> <p>📦 Requires the graphviz-dot-mode package external package,  activated by pel-use-graphviz-dot user option set to t.</p>

Emacs & C— References

Document	Notes
GNU emacs - CC Mode Manual	
GNU Emacs Manual - Styles	
Emacs BSD/Allman Style with 4 Space Tabs?	
Emacs: Linux Kernel Style but with Allman/BSD Style Braces?	
Emacs Wiki - Indenting C	
Indent preprocessor directives as C code in emacs	Does not fully address the way I want to have multi-indentations for pre-processor
elisp code - ppindent.el	Implements pre-processor indentation with the # always in the first column. Not yet exactly what I want.
company-mode : Modular in-buffer completion framework for Emacs	