Programming Language Support - D

Description	<u>Keystroke</u>	Function	<u>Note</u>	
D programming	1.1	_	-mode external package. This package extends the Emacs CC Mode built-in package which	
language support Help & Customization	supports the <u>curly-bracket probelow</u> .	ogramming languages like D. O	ther external packages provide other features for working with D, they are listed in the reference table	
Set D script shebang		via the customize user option v	ariable pel-use-d . It must be set to t to activate support for D.	
Customize skeletonInsert file header			the CC Mode are customizable with PEL user option variables.	
Insert parentheses Control text modes	PEL customization for D: Simplifies configuration for editing D source code (To change, execute: M-x customize-group pel-pkg-for-d): Emac customization group: pel-pkg-for-d			
O Control D code style	 pel-d-indent-width: Identifies the number of columns used for indentation. Defaults to 4. 			
 Control text-alignment Show Mode settings 	• pel-d-tab-width: The width of a tab. Defaults to 4. This concept differs from indentation: you can have an indentation of 4 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 4.</tab>			
Electric keys	• 🍪 For most uses it is best to set both values to the width of your needed indentation level. This way you can use commands that use either to contr			
Insert new lines Insert D comments	the indentation level. • pel-d-use-tabs: Whether hard tabs are used in indentation or not: t: tabs are used, nil: only spaces are used. Default: nil.			
Comment dwimHide/show comments	 pel-d-backet-style: The <u>bracket/indentation style</u> supported by the electric keys. One of the <u>values supported by Emacs</u> (also possible to define you with Elisp code). Default to "bsd". 			
Specialized deleteIndentation	 Emacs customization group: pel-pkg-for-cc. Applies to all CC Mode related modes (like d-mode). 			
O Non-syntactic indent	• pel-cc-auto-newline: Whether automatic newline mode is active on all CC Mode (including d-mode). 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			
MarkingShow info on code	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 vall for the current buffer only.			
Highlight blocksNavigate in D	PEL provides the following :		es: <f11> SPC D, <f12> and M-<f12></f12></f12></f11>	
Render UML markup			are only available in d-mode buffers. The M-<f12></f12> prefix helps the typing flow when the next key is x is normally omitted in the table.	
Last updated on:	2025-06-14	, 110 · 122 · 120 · 120 · 100		
Open this PDF file.	<f11> SPC D <f1></f1></f11>	(pel-help-pdf &optional	Open the $\mathfrak{P}(-D)$ local PDF. If the prefix argument (like $\mathbf{C}-\mathbf{u}$ or \mathbf{M}) is used, then it opens the	
See also: <u>∑ Help/Info</u>	<f12> <f1></f1></f12>	OPEN-WEB-PAGE)	remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-option is set it's the other way around.	
∑ Customize PEL D support	<f11> SPC D <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL D support: d-mode. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
	<f12> <f2></f2></f12>	,		
∑ Customize Emacs D support	<f11> SPC D <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs D support: d-mode. • If OTHER-WINDOW is non-nil (use C-u), display in another window.	
Support	<f12> <f3></f3></f12>	aoptional OTTEN-WINDOW)	in Office-window is noti-fill (use C-u), display in another window.	
Select d-mode for extension-less D script	<f12></f12>	(pel-as &optional FORCE)	Inside a fundamental-mode buffer, interactively select major mode for the buffer. Re-do it with arg.	
file < The < f12> key is			see Create extension-less executable scripts with PEL.	
available only until a PEL controlled major mode is			fer in fundamental-mode', when the <f12> key binding is available for it. and the PEL key binding will not be available when PEL supports the major mode.</f12>	
activated. Then it becomes	_	· · · · · · · · · · · · · · · · · · ·	pel-d-shebang-line user option.	
a buffer prefix key.	PEL defines the (as &optional	FORCE) alias unless 🛂 pel-ha	s-alias-as user-option is set to nil. You can use M-x as to invoke it.	
Generic code	·		ic one. See also: <u>S Inserting Text</u> <u>T Templates</u>	
skeletons tempo skeletons		skeleton mechanism and the to	empo skeletons. PEL provides generic tempo skeletons you can use for D until PEL adds D-specific skeletons.	
tempo skeletoris	PEL provides key bind	·	e generic code templates, accessible via the <f6> prefix key, and the language-specific code</f6>	
<u>∑ Customize</u> PEL Text Insertions control for D	<f6> <f2></f2></f6>	(pel-customize-pel &optional OTHER-WINDOW)	Open the customization groups that control the format of the various skeletons including the	
code skeletons.			denenc skeleton used by the <ib> n key and the <i12><i12> n key (see below).</i12></i12></ib>	
	<f12> <f12> <f2></f2></f12></f12>	(pel-customize-generic-	generic skeleton used by the <f6> h key and the <f12><f12> h key (see below). • If OTHER-WINDOW is non-nil (use C-u), display in other window.</f12></f12></f6>	
	<f12> <f12> <f2></f2></f12></f12>	skels &optional OTHER-		
Insert generic file module	<f12> <f12> <f2> <f6> h</f6></f2></f12></f12>			
Insert generic file module header block — Language agnostic		skels &optional OTHER-WINDOW)	• If OTHER-WINDOW is non-nil (use C-u), display in other window. Insert a file header block at the top of the file. Works only for buffer visiting a file. The command key binding <f6> h is available only 1 second after Emacs has started.</f6>	
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CC Mode Style	<u>Keystroke</u>	Function	Note
Management • Learn style used in current buffer	You can impose an indenta You can also adjust the sty uses. It <i>learns</i> the style and Use this to adapt to sou	ation style by customization. yle to what is used in the current id sets the style controlling variat urce code written by others and v	D stylistic elements are controlled by the CC Mode and the CC mode variables. It buffer: Emacs provides the following commands to parse the source code and identify the style it bles from what it detects in the buffer. want to continue using the same style. It is been been style. It is been style in the style in the style.
Show/Modify syntactic context	C-c C-o	(c-set-offset SYMBOL OFFSET &optional	Change the value of a syntactic element symbol in 'c-offsets-alist'. • SYMBOL is the syntactic element symbol to change and OFFSET is the new offset for that
Show syntactic nformation for current ine	C-c C-s	(c-show-syntactic- information ARG)	syntactic element. The optional argument is not used and exists only for compatibility reasons. Show syntactic information for current line. • With universal argument, inserts the analysis as a comment on that line.
Guess the style used in the current buffer, do not the stall it	<f12> <f4> g g</f4></f12>	(c-guess-buffer-no-install &optional ACCUMULATE)	Guess the style on the whole current buffer; don't install it. • 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 and nstall it.	<f12> <f4> g B</f4></f12>	(c-guess-buffer &optional ACCUMULATE)	Guess the style on the whole current buffer, and install it. • 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 previou guess is extended, otherwise a new guess is made from scratch.
Guess style in the region and install it.	<f12> <f4> g G</f4></f12>	(c-guess &optional ACCUMULATE)	Guess the style using the first 'c-guess-region-max' bytes of the file, and install it. The c-guess-region-max user-option defaults to 50,000 bytes, nil means all buffer. 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 and install it.	<f12> <f4> g R</f4></f12>	(c-guess-region START END &optional ACCUMULATE)	Guess the style on the region and install it. 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 previou guess is extended, otherwise a new guess is made from scratch.
Set buffer style to guessed style.	<f12> <f4> g I</f4></f12>	(c-guess-install &optional STYLE-NAME)	Install the latest guessed style into the current buffer. • This guessed style is a combination of 'c-guess-guessed-basic-offset', 'c-guess-guessed-offsets-alist' and 'c-offsets-alist'. • The style is entered into CC Mode's style system by 'c-add-style'. Its name is either STYLE-NAME, or a name based on the absolute file name of the file if STYLE-NAME is nil.
View <u>Guessed style</u> as a set of Emacs Lisp statements	<f12> <f4> g ?</f4></f12>	(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. • "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.
	and provide a better experienCC Mode state displayed2 is the CC mode pro	nce when editing C source code. I in the mode line: &C{} when be gramming language name: C, C style: '*' for block command (ctric flags: de e mode le	re:
Toggle Electric state	• C-c C-l • <f12> <f4> e</f4></f12>	(c-toggle-electric-state &optional ARG)	Toggle the electric indentation feature done with the electric character keys. • 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.
Set indentation style	• C-c . • <f12> <f4> s</f4></f12>	(c-set-style STYLENAME	
		&optional DONT-OVERRIDE)	Set the branche: branche: branche
Override indentation width for current buffer	<f12> <f4> TAB</f4></f12>		Set the bracket/indentation style for the current buffer. • Prompts for the name. • Supports tab completion (so use tab to see the list). Can be one of the values supported by
width for current buffer	<f12> <f4> TAB <f12> <f4> i</f4></f12></f4></f12>	&optional DONT-OVERRIDE) (pel-cc-set-indent-width	Set the bracket/indentation style for the current buffer. 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. Interactively change the Indentation with for current buffer to NEW-WIDTH. Prompt for new value. Use 0 to restore value specified by configuration (pel-d-indent-width).
width for current buffer Toggle syntactic indentation		&optional DONT-OVERRIDE) (pel-cc-set-indent-width &optional NEW-WIDTH) (c-toggle-syntactic-	Set the bracket/indentation style for the current buffer. 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. Interactively change the Indentation with for current buffer to NEW-WIDTH. Prompt for new value. Use 0 to restore value specified by configuration (pel-d-indent-width). This can be used to change indentation several times in a file. Toggle syntactic indentation. 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 ner 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
width for current buffer Toggle syntactic indentation Toggle Comment Style	<f12> <f4> i</f4></f12>	&optional DONT-OVERRIDE) (pel-cc-set-indent-width &optional NEW-WIDTH) (c-toggle-syntactic-indentation &optional ARG)	Set the bracket/indentation style for the current buffer. 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. Interactively change the Indentation with for current buffer to NEW-WIDTH. Prompt for new value. Use 0 to restore value specified by configuration (pel-d-indent-width). This can be used to change indentation several times in a file. Toggle syntactic indentation. Optional numeric ARG, if supplied, turns on syntactic indentation when positive, turns it off when egative, 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 ner 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'. Toggle the comment style between block and line comments. 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. Only the // and /* */ styles are supported. The /++/ comments are not supported.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Toggle auto-newline insertion mode	• C-c C-a • <f12> <f4> M-RET</f4></f12>	(c-toggle-auto-newline &optional ARG)	 Toggle auto-newline feature. 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 "/la" on the mode line after the mode name) newlines are automatically inserted after special characters such as brace, comma, semicolon, and colon. Emacs allows customizing the style and how automatic newlines are used. See the CC Mode Manual section: Customizing Auto-newlines.
Change RET key behaviour: select return mode.	<f12> <f4> RET</f4></f12>	(pel-cc-change-newline-mode)	Change the way the RET key behaves in the CC modes and display the new mode in the echo area Changes from one mode to the next and then rotate to the first one.
ı	newline-and-indent: uses just-newline-no-indent: u Emacs default is to use new current buffer and does not	s (newline ÅRG t) to insert new uses (electric-indent-just-new vline. PEL sets the default to c affect RET key behaviour in th	
Display current Mode settings	<f12> <f4> ?</f4></f12>	(pel-cc-mode-info)	Display information about current <u>CC mode</u> derivative for the current d-mode buffer.
Notice the name of the	CC mode style currently acc Emacs the c-default-style set the style for c-mode. Use Return key behaviour: RET (return key) mode. Colon Whether return performs State of electric C charact whether it is active or nobe if auto-newline on some The fill column: the column Tab width and whether hard open the appropriate custo Remember that tab would lindentation is controlled Indentation width, controlled Indentation width, controlled Command (C-colon or fill with CC Mode styles identified a new style name The comment style. Supporting the continuation lines can us used two stars, otherwise Whether hungry delete is used d-mode state:	user option defines association is <f12> <f2> from a c-mode change with pel-cc-change-new alignment. Change that with pers (toggle it on/off with c-togg, t, and when active what characters (';' and some other where force line wrap is done wit tabs are used. These are set the witation buffer to change them width does not identify the indeseparately. See next line. If the does not identify the indeseparately. See next line. If the width does not identify the indeseparately indentation and bracket position with the separately. See next line. If the width is another continuation and other settings from the for it. If the current buffer it. If the current buffer it is a see only one is used. If the continuation is used. If the continuation is a see only one is used.</f2></f12>	Associated with current mode. Change it for the current buffer with C-c . or <f12> <f4> s. The setween major modes and the style to use. PEL provides the pel-c-backet-style that is used to de buffer to access the customization buffer to change it. Wine-mode (<f12> <f4> RET). Bel-toggle-indent-align (<f11> M-RET). Gle-electric-state (C-c C-l or <f12> <f4> e): Ster(s) exhibit electric behaviour. Based on style) is active. Toggle this with C-c C-a or <f12> <f4> M-RET. When the auto-fill-mode is active. Toggle auto fill mode with <f11> RET. By the user options pel-d-tab-width and pel-d-use-tabs. In a d-mode buffer use <f12> <f2> to the controls the spacing used in some commands moving point to the next tab stop column. Bet by pel-d-indent-width in PEL, and whether syntactic indentation mode is active. Boning (they should have the same value). Emacs identifies several built-in styles but you can create er name for the Allman style. You can dynamically change for the current buffer with c-set-style and the PEL user option requested. This allows you to slightly modify an existing style without having to style (//) comments, but unfortunately not the D /+ +/ comments. With the c-toggle-comment-style command (C-c C-k or <f12> <f4> M-;). C comment cond one is used on a comment continuation line the remainder of the comment continuation lines this for the current buffer with c-toggle-hungry-state (<f12> <f4> DEL).</f4></f12></f4></f12></f2></f12></f11></f4></f12></f4></f12></f11></f4></f12></f4></f12>
PEL user-options that set the significant feature controlling Emacs variables in the message More info is shown in that buffer as buttons that provide access to more help and ability to customize the values.	- RET mode : - Electric characters : - Auto newline : - fill column : - Tab width : - Indentation chars : - Indent width : - Syntactic indent : - c-indentation-style : - PEL Bracket style : - Comment style :	context-newline active on: #*/(){}:;, on 80, auto-filling: off. 4 Set vi spaces only Set vi 4 Set vi on bsd	<pre>ia: pel-d-tab-width(8) ==> tab-width(4) when d-mode buffer is opened. ia: pel-d-use-tabs(nil) ==> indent-tabs-mode(nil) when d-mode buffer is opened. ia: pel-d-indent-width(4) ==> c-basic-offset(4) when d-mode buffer is opened.</pre>
Electric Keys			when the electrical state is active in a buffer using d-mode. toggle-electric-state (C-c C-1 or <f12> <f4> e).</f4></f12>
#	#	(c-electric-pound ARG)	Insert a "#".
	If 'c-electric-flag' is set, har supplied, or if point is inside	,	e variable 'c-electric-pound-behavior', which can only be nil or 'alignleft'. If a numeric ARG is pecial happens.
()	literal. • Whitespace between a fund	ction name and the parenthesis	Insert a parenthesis. on-nil, the line is reindented unless a numeric ARG is supplied, or the parenthesis is inserted inside a smay get added or removed; see the variable 'c-cleanup-list'. nil, some newline cleanups are done if appropriate; see the variable 'c-cleanup-list'.
()	a) If the auto-newline fea 'c-hanging-braces-alis	ture is turned on (indicated by	Insert a brace. and a numeric ARG hasn't been supplied, the command performs several electric actions: "/la" on the mode line) newlines are inserted before and after the brace as directed by the settings in also reindented unless 'c-syntactic-indentation' is nil.
	1 -	•	s based on the settings of 'c-cleanup-list' are done.
:	a) If the auto-newline feath hanging-colons-alist'.b) Any auto-newlines are	ture is turned on (indicated by indented. The original line is a	Insert a colon. and a numeric ARG hasn't been supplied, the command performs several electric actions: "/la" on the mode line) newlines are inserted before and after the colon based on the settings in 'c- also reindented unless 'c-syntactic-indentation' is nil. o colons will be "cleaned up" leaving a scope operator, if this action is set in 'c-cleanup-list'.
:,	• ;	(c-electric-semi, ARG)	Insert a comma or semicolon.
	If 'c-electric-flag' is non-nil, a) When the auto-newlincriteria' for how newlind b) Any auto-newlines are	point isn't inside a literal and a e feature is turned on (indicated he insertion is determined. indented. The original line is a	a numeric ARG hasn't been supplied, the command performs several electric actions: d by "/la" on the mode line) a newline might be inserted. See the variable 'c-hanging-semi&comma- also reindented unless 'c-syntactic-indentation' is nil. ace list or a semicolon following a defun might be cleaned up, depending on the settings of 'c-

Description	<u>Keystroke</u>	Function	Note
Electric pairs	Type the first of a pair to inse	ert this one and its matching ch	activating the electric-pair-mode in the buffer. aracter for (), [], $\{\}$, "" and ". line lighter set by the pel-electric-pair-lighter is shown. This defaults to $E(1)$
Toggle electric-pair-mode in current buffer Lighter:= $\epsilon(1)$	Electric Pair mode is a globa	al minor mode. When enabled,	Toggle automatic parens pairing (Electric Pair mode) and org-mode special pair electric keys only in this buffer. RG is positive, and disable it otherwise. typing an open parenthesis automatically inserts the corresponding closing parenthesis, and vice the parentheses (brackets, etc.) are inserted around the region instead.
Insert New Line(s)	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. • With PEL the default behaviour can be selected by customization and modified dynamically for the current buffer with the pel-cc-change-newline-mode command (bound to <f12> M-RET) see the CC-Mode behaviour control section above. • The pel-cc-newline command also aligns comments and assignment in the code block if the pel-modes-activating-align-on-return user option list includes the current major mode. The state for the current buffer can also be modified by the pel-cc-change-newline-mode command (<f11> M-RET).</f11></f12>		
Insert a new line and operate according to the currently active selected return mode. With PEL, modify	RET	(pel-cc-newline &optional N)	Insert a newline and perhaps align. • With argument N repeat N times. • For newline insertion, operate according to the value of the variable 'pel-cc-newline-mode' which selects one of 3 commands (see the full description in the 3 row below): • c-context-line-break • newline
behaviour with <f12> M- RET.</f12>	Lieu (a contrat lieu lieu	da . Da - line horele e italia te	 electric-indent-just-newline If the variable 'pel-newline-does-align' is t, then perform the text alignment done by the function 'align'.
	When point is outside a case the new line is ind When point is inside the end of the cpp directiv When point is inside a variables for details). The case of the component is inside a variables for details.	dented as the previous non-em e content of a preprocessor di e doesn't count as inside it. comment, continue it with the The end of a C++-style line con	newline and indent according to the syntactic context, unless 'c-syntactic-indentation' is nil, in which
	 With ARG, insert that n If option 'use-hard-nev If 'electric-indent-mode To just insert a newl 	nany newlines. vlines' is non-nil, the newline is e' is enabled, this indents the fi ine, use M-x electric-indent-jus	wline, and move to left margin of the new line if it's blank. marked with the text-property 'hard'. inal new line that it adds, and reindents the preceding line. st-newline. is greater than the value of 'fill-column' and ARG is nil.
	Use: (electric-indent-just • With ARG, insert that n		ewline, without any auto-indentation.
Insert an indented line below unbroken current line See also: Indentation	• M-RET • <f11> <tab> RET</tab></f11>	(pel-newline-and-indent- below)	Insert an indented line just below current line regardless of the position of point and move point to the beginning of the next line. For example 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. If pel-newline-does-align is t, it aligns several syntactic element in the current block: the comments, the assignments. You can toggle this on/off with <fil> M-RET.</fil>
			• Solution like the list in the pel-newline-does-align is automatically activated (set to t) by adding the c-mode to the list in the pel-modes-activating-align-on-return user option.
Insert a newline	C-j	(electric-newline-and- maybe-indent)	 Insert a newline. If 'electric-indent-mode' is enabled, that's that, but if it is *disabled* then additionally indent according to major mode. Indentation is done using the value of 'indent-line-function'. In programming language modes, this is the same as TAB. In some text modes, where TAB inserts a tab, this command indents to the column specified by the function 'current-left-margin'.
Open New Line in Context See also:	C-0	(c-context-open-line)	Insert a line break suitable to the context and leave point before it. • 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. solution Normally C-o is bound to open-line. PEL rebinds it to c-context-open-line for the CC modes. If you want to open the line without indenting the next use open-line via <f12> C-o</f12>
Open new line	• <f12> C-o • M-<f12> C-o</f12></f12>	(open-line N)	Insert a newline and leave point before it. If there is a fill prefix and/or a 'left-margin', insert them on the new line if the line would have been blank. With arg N, insert N newlines.
<u>D</u> comments	2 more characters have electric behaviour: / and * to help support comments in D. D supports the following types of comments (only the first 2 are explicitly supported by Emacs): • Block Comments: /* comment */ • Line Comments: // comment to end of line • Nesting Block Comments: /+ nesting /+comments +/ can span multiple lines and surround // style comment +/		2 are explicitly supported by Emacs):
1	/	(c-electric-slash ARG)	Insert a slash character. Insert a slash character. 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: 1. The slash is second of a "//" line oriented comment introducing token and we are on a comment-only-line, or 2. 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. 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: /* Two star ** continuation ** prefix for ** multi-line ** C comment. */ /* Single star * prefix for * multi-line * C comment. */ 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.

Description	<u>Keystroke</u>	Function	<u>Note</u>
Comment/un-comment	M-;	(comment-dwim ARG)	Comment line or region with // or /* */ style comments depending on the comment style
See also: <u>∑ Comments</u>		(not comment diving ADC)	currently used in the buffer.
With PEL: Comment the current line with M-0 M-;	On line with code: insert of With marked un-commented With marked commented re Call the comment commanc If the region is active and region'). Else, if the currer ARG is specified, call 'cole With numeric argument: con	ament starter at the proper indecomment starter after the code d region: Comment region (egion: Removes the comit you want (Do What I Mean). 'transient-mark-mode' is on, c the line is empty, call 'comment-mment-kill'. Else, call 'comment-mment current line. M-0 M-;	each line is commented) ment. all 'comment-region' (unless it only consists of comments, in which case it calls 'uncomment- insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a prefix t-indent'.
	C-c C-c	(comment-region BEG END &optional ARG)	Comment or uncomment each line in the region. • 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. • 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'. • 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'. If you try this when no region is marked and the /* */ style comments is active, the comment ends on the next space, which is probably not what you want. The command comment-dwim works better.
Hide/Show comments See also: Comments	<f11> ; ;</f11>	(hide/show-comments- toggle &optional START END)	Toggle hiding/showing of comments in the active region or whole buffer. • If the region is active then toggle in the region. Otherwise, in the whole buffer. • This requires the https://doi.org/like/hide-commt.el package (see E Comments). EL activates it when the peluse-hide-commt user option is t.
Fill current paragraph See also: Filling/Justification	• M-q • <f12> F • M-<f12> F • <f11> SPC D F</f11></f12></f12>	(c-fill-paragraph &optional <u>ARG</u>)	Like <f11> t f p but handles // and /* */ style comments. 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: char description[] = "\ A very long description of something that you want to fill to make nicely formatted output."; If point is in any other situation, i.e. in normal code, do nothing. Optional prefix ARG means justify paragraph as well.</f11>
Hungry Deletion of Whitespace	 Optional prefix ARG means justify paragraph as well. The CC mode provides two commands that can perform "hungry whitespace deletion" that can also be used in every mode. PEL provides the convenient keys with the <f11> prefix keys for those 2 commands, available in all modes.</f11> 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. When the Hungry Delete Mode is on, the mode-line displays a 'h' to the right of the '//l' 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 D).</f12> 		
Delete preceding char or all preceding whitespace. See also:	• C-c DEL • C-c @ • C-c C-@ • C-c C-\left backspace> • C-c C-DEL • <f11> @ @ • <f11> DEL DEL</f11></f11>	(c-hungry-delete- backwards)	Delete the preceding character or all preceding whitespace back to the previous non-whitespace character. 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. 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.</f11></backspace>
Delete next char or all following whitespace. See also:	• C-c C-d • C-c D • C-c C-D • C-c C- <delete> • <f11> D</f11></delete>	(c-hungry-delete-forward)	Delete the following character or all following whitespace up to the next non-whitespace character. 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. 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.</f11></delete>
Indentation			Mode logic and provided commands listed below. t the end of this list. They are also listed in the <u>∑</u> Indentation table.
Indent current line or region	<tab></tab>	(c-indent-line-or-region &optional ARG REGION)	Indent active region, current line, or block starting on this line.
See also: • <u>Indentation</u>	 Behaviour depends on syntactic-indentation mode (enabled by default but can be toggled on/off with the <f12> M-i key):</f12> With syntactic-indentation on (the default): 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. 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 its indentation or everything in the marked area if a block is marked.</tab> With syntactic-indentation off: <tab> always indent current line by one level</tab> C-u - <tab> or M- <tab> always un-indent current line by one level</tab></tab> 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: (pel-indent-rigidly &optional N) (bound to C-x <tab> and to <f11> <tab> <tab> <tab> to indent the line or region rigidly.</tab></tab></tab></f11></tab> (tab-to-tab-stop), bound to M-i to insert spaces to the next tab stop column. 		
Indent lines of list after point See: ∑ Indentation	С-М-q	(indent-pp-sexp &optional ARG)	Indent each line of the list starting just after point, or pretty-print it. • 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. • 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: 1. 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. 2. If 'indent-region-function' is non-nil, call that function to indent the region. 3. Indent each line via 'indent-according-to-mode'.
	When a region is marked yo	ou can also use the simple <ta< th=""><th>b> to do the same when syntactic-indentation is active.</th></ta<>	b> to do the same when syntactic-indentation is active.

Description	<u>Keystroke</u>	Function	<u>Note</u>
Non Syntactic Indentation		, it's best to set pel-d-tab-wid	gards to semantics. More information on indentation is available in the <u>Indentation</u> table. th and pel-d-indent-width to the same value: the first 2 commands use the value of pel-c-tab-width
Insert spaces or tabs to next defined tab-stop column See also: Indentation	M-i	(tab-to-tab-stop)	Insert spaces or tabs to next defined tab-stop column. 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. With PEL, the tab-stop interval is controlled by the value of pel-d-tab-width. PEL sets tab-width to the value of pel-d-tab-width for each d-mode buffer.
Indent/Unindent rigidly See also: ■ Indentation ■ Key-Chords	• C-x <tab> • <f11> <tab> <tab> • <tab>q</tab></tab></tab></f11></tab>	(pel-indent-rigidly &optional N)	 Indent rigidly the marked region or current line N times. • 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): • 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. ▶ PEL rebinds this key, but it extends the functionality: pel-indent-rigidly uses indent-rigidly.
		➤ PEL uses the above instead of the standard:	described below the dashed line. Indent all lines starting in the region. 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>.</right></left></right></left>
		(indent-rigidly START END ARG &optional INTERACTIVE)	Both of 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 indent-rigidly-map with by default provides: • S- <right> indent-rigidly-right-to-tab-stop • <right> indent-rigidly-left-to-tab-stop • <right> indent-rigidly-left Typing any other key deactivates the transient mode. • The S-<right> and S-<left> keys indent/de-indent to the next tab-stop position, which is controlled by the tab-width user option. • With PEL, the tab-stop interval is controlled by the value of pel-d-tab-width. • PEL sets tab-width to the value of pel-d-tab-width for each d-mode buffer.</left></right></right></right></right>
	If you use the cua-mode: the PEL binding <f11> <tab></tab></f11>		oke this command when cua-mode is active, type it really fast or type C-x C-x <tab> (or use the</tab>
Indent line(s) rigidly See also: ■ Indentation	• <f6> <tab> • <f11> <tab> c</tab></f11></tab></f6>	(pel-indent-lines &optional N)	Indent current or marked lines by N indentation levels. • Works with point anywhere on the line. • All lines touched by the region are indented. • A special argument N can specify more than one indentation level. It defaults to 1. • If a negative number is specified, 'pel-unindent-lines' is used. • If a region is marked, the function does not deactivate it to allow repeated execution of the command. It also modifies the region to include all characters in all affected lines. • Use C-g to de-activate the region. • Handles presence of hard tabs: • If indent-tabs-mode is non-nil the indentation is created with a mix of hard-tabs and space characters. • If indent-tabs-mode is nil, any hard tab in the indentation of the marked lines is replaced by the proper number of spaces. Hard tabs after first non-whitespace character on the line are left.
Un-indent line(s) rigidly See also: ■ Indentation	• <backtab> • <f6> <backtab> • <f11> <tab> C</tab></f11></backtab></f6></backtab>	(pel-unindent-lines &optional N)	 Un-indent current line or marked lines by N indentation levels. Works with point is anywhere on the line. All lines touched by the region are un-indented. If region was marked, the function does not deactivate it to allow repeated execution of the command. If a region was marked, the function does not deactivate it to allow repeated execution of the command. It also modifies the region to include all characters in all affected lines Use C-g to de-activate the region. Handles presence of hard tabs: If indent-tabs-mode is non-nil the indentation is created with a mix of hard-tabs and space characters. If indent-tabs-mode is nil, any hard tab in the indentation of the marked lines is replaced by the proper number of spaces. Hard tabs after first non-whitespace character on the line are left.
Marking	Emacs provides the following	command to quickly mark the	whole content of the current function. More mark commands exists, see the <u>R Marking</u> table.
Mark the complete function body See also: ∑ Marking	С-М-ћ	(c-mark-function)	Mark complete function. 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	• C-c C-z • <f12> f • M-<f12> f</f12></f12>	(c-display-defun-name &optional ARG)	Display the name of the current CC mode defun and the position in it. • With a prefix arg, push the name onto the kill ring too.
Highlighting blocks	show-paren-mode, which h	ighlights the parens that match	seful modes to highlight blocks of (), {}, and []. ses the one before or after point. are highlighted with the same colour.
Toggle show-paren mode on/off See also: Highlight	<f12> M-9 • <f11> SPC D M-9 • <f11> h (</f11></f11></f12>	(show-paren-mode &optional ARG)	Toggle visualization of matching parens (Show Paren mode). 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 0,0,0.	<f12> M-r • <f11> SPC D M-r • <f11> h R</f11></f11></f12>	(rainbow-delimiters-mode &optional ARG)	Highlight nested parentheses, brackets, and braces with different colours according to their depth. • Customize the depth and colours with M-x customize-group rainbow-delimiters • Requires: rainbow-delimiters.el • PEL activates this when the pel-use-rainbow-delimiters user option is set to t.

See also: Nost commands are specials available. The list be also available and also available. The list be also available and also a	cialization of the normal navigation of low describe the specialized comm of function definition blocks or stru	er closing brace and show-paren-mode is on, the matching parentheses are highlighted. Move forward to the beginning of the next function or type definition. • Move point before the function type or the struct or typedef keyword. • 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. • Move back to previous position with M−ˆ or <f6><f6>. ■ Shift marking is available. With <f6> and <f12> hit Shift after function key, before cursor key. ■ This command complements what end-of-defun does. • 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. Move forward to the end of a top level declaration. • With argument, do it that many times. Negative argument -N means move back to Nth preceding end.</f12></f6></f6></f6>
By structures Jump over comments. When point is located top level function or struct Forward to end of current top-level function or struct. C-M-e C-M-e C-M-e C-M-e C-M-e C-M-e C-M-e C-M-e C-M-e	(pel-beginning-of-next-defun &optional ARG) (c-end-of-defun &optional ARG)	er closing brace and show-paren-mode is on, the matching parentheses are highlighted. Move forward to the beginning of the next function or type definition. • Move point before the function type or the struct or typedef keyword. • 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. • Move back to previous position with M−ˆ or <f6><f6>. ■ Shift marking is available. With <f6> and <f12> hit Shift after function key, before cursor key. ■ This command complements what end-of-defun does. • 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. Move forward to the end of a top level declaration. • With argument, do it that many times. Negative argument -N means move back to Nth preceding end.</f12></f6></f6></f6>
Forward to start of next top level function or struct Forward to end of current top-level function or struct. C-M-e • C-M-e • C-M-e • C-M-e • C-M-e	(pel-beginning-of-next-defun &optional SILENT DONT-PUSH_MARK) (c-end-of-defun &optional ARG) (end-of-defun &optional	Move forward to the beginning of the next function or type definition. • Move point before the function type or the struct or typedef keyword. • 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. • Move back to previous position with M−ˆ or <f6><f6>. ■ Shift marking is available. With <f6> and <f12> hit Shift after function key, before cursor key. ■ This command complements what end-of-defun does. • 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. Move forward to the end of a top level declaration. • With argument, do it that many times. Negative argument -N means move back to Nth preceding end.</f12></f6></f6></f6>
Forward to end of current top-level function or struct. C-M-e • C-M-e • C-M-e • c-M- <end> • cf6> <right></right></end>	defun & optional SILENT DONT-PUSH_MARK) (c-end-of-defun & optional ARG) (end-of-defun & optional	 Move point before the function type or the struct or typedef keyword. 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. Move back to previous position with M→ or <f6><f6>.</f6></f6> Shift marking is available. With <f6> and <f12> hit Shift after function key, before cursor key.</f12></f6> This command complements what end-of-defun does. 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. Move forward to the end of a top level declaration. With argument, do it that many times. Negative argument -N means move back to Nth preceding end.
top-level function or struct. • C-M- <end> • <f6> <right></right></f6></end>	ARG) (end-of-defun &optional	With argument, do it that many times. Negative argument -N means move back to Nth preceding end.
• <f6> <right></right></f6>		Maye forward to the end of next function or type definition
<f12> <right></right></f12>		Move forward to the end of next function or type definition. With argument, do it that many times. Negative argument -N means move back to Nth preceding end of defun. Shift marking is available. With <f6> and <f12> hit Shift after function key, before cursor key.</f12></f6>
		⚠ This command moves to the end of the next top-level function. It skips nested functions.
Backward to beginning of current top-level function or struct	(c-beginning-of-defun &optional ARG)	Move backward to the beginning of a function or type definition. With a positive argument, move backward that many functions or structures. A negative argument -N means move forward to the Nth following beginning.
• C-M- <home> • <f6> <up></up></f6></home>	(beginning-of-defun &optional ARG)	Move backward to the beginning of function or type definition. • Move point before the function type or the struct or typedef keyword. • With ARG, do it that many times. Negative ARG means move forward to the ARGth following
<f12> <up></up></f12>		beginning of defun. Shift marking is available. With <f6> and <f12> hit Shift after function key, before cursor key. This command moves to the beginning go the next function or of the same nesting level of the current location. It skips the functions that are more deeply nested.</f12></f6>
Backward to end of previous top level function or struct <pre><f6> <left></left></f6></pre> <pre><f12> <left></left></f12></pre>	(pel-end-of-previous-defun &optional SILENT DONT- PUSH_MARK)	Move backwards to the end of the previous function or type definition. • 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. • Move back to previous position with M− or <f6><f6>. ■ Shift marking is available. With <f6> and <f12> hit Shift after function key, before cursor key. In some cases it fails to detect the end of the previous block and fails.</f12></f6></f6></f6>
By blocks Move across D statemer	ents and D scope blocks, or any gro	
By List element Move to the end or the	he beginning of a block	
Backward block/list C-M-p	(backward-list &optional	Move backward across one balanced group of parentheses.
See also: Navigation	ARG)	 This command will also work on other parentheses-like expressions defined by the current language mode. With ARG, do it that many times. Negative arg -N means move forward across N groups of parentheses. This command assumes point is not in a string or comment. C-M-p : ► Shift marking is available in graphics mode, not in terminal mode.
Move block backward See also: ■ Navigation C-M-b C-M- <left> C-[C-b Esc C-b Esc C-<left></left></left>	(backward-sexp &optional ARG)	Move backward across one balanced expression (sexp). • With ARG, do it that many times. Negative arg -N means move forward across N balanced expressions. This command assumes point is not in a string or comment. • C-M-b : ► Shift marking is available in graphics mode, not in terminal mode. • C-M- <left>: ► Shift marking works with this command. • With PEL: if you want to use Esc C-<left> binding you must ensure that pel-windmove-on-esc-cursor user option is set to nil, otherwise it does something else. • C-M-<left> does not work on Windows, but H-<left> works. • Several Linux distros map C-M-<left> to desktop workspace operation. In that case you can either use another key binding or change Linux key binding in Systems->settings->keyboard->shortcuts to prevent it from using that key sequence.</left></left></left></left></left>
Forward block/list C-M-n See also: ∑ Navigation	(forward-list &optional ARG)	Move forward across one balanced group of parentheses. This command will also work on other parentheses-like expressions defined by the current language mode. With ARG, do it that many times. Negative arg -N means move backward across N groups of parentheses. This command assumes point is not in a string or comment. C-M-n: Shift marking is available in graphics mode, not in terminal mode.
Move block forward See also: ■ ∑ Navigation • C-M-f • C-M- <right> • C-[C-f • Esc C-f • Esc C-<right></right></right>	(forward-sexp &optional ARG)	Move forward across one balanced expression (sexp). • With ARG, do it that many times. Negative arg -N means move backward across N balanced expressions. This command assumes point is not in a string or comment. • C-M-f : Shift marking is available in graphics mode, not in terminal mode. • C-M- <right> : Shift marking works with this command. • With PEL: if you want to use Esc C-<right> binding you must ensure that pel-windmove-on-esc-cursor user option is set to nil, otherwise it does something else. • C-M-<right> does not work on Windows, but H-<right> does. • Several Linux distros map C-M-<right> to desktop workspace operation. In that case you can either use another key binding or change Linux key binding in Systems->settings->keyboard->shortcuts to prevent it from using that key sequence.</right></right></right></right></right>
in/out of blocks Move in or out of C sco	pe blocks, or any group of (), [], {}	or < > blocks.
Backward Up/outside sexp hierarchy See also: ■ Navigation • C-M-u • C-M- <up> • C-[C-u • Esc C-u • Esc C-<up></up></up>	(backward-up-list &optional ARG ESCAPE-STRINGS NO-SYNTAX-CROSSING)	Move backward out of one level of parentheses or nested blocks. • This command will also work on other parentheses-like expressions defined by the current language mode. With ARG, do this that many times. A negative argument means move forward but still to a less deep spot. • ⚠ With PEL: if you want to use Esc C- <up> binding you must ensure that pel-windmove-on-esc-cursor user option is set to nil. • C-M-u : ▼ Shift marking is available in graphics mode, not in terminal mode. • C-M-<up> : ▼ Shift marking works with this command. • C-M-<up> does not work on Windows, but H-<up> does.</up></up></up></up>
Forward Up/outside sexp hierarchy See also: Navigation	(up-list &optional ARG ESCAPE-STRINGS NO- SYNTAX-CROSSING)	Move forward out of one level of parentheses or nested blocks. This command will also work on other parentheses-like expressions defined by the current language mode. With ARG, do this that many times. A negative argument means move backward but still to a less deep spot.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Down/inside sexp/block See also: ■ Navigation	• C-M-d • C-M- <down> • C-[C-d • Esc C-d</down>	(down-list &optional ARG)	Move forward down one level of parentheses. • This command will also work on other parentheses-like expressions defined by the current language mode. • With ARG, do this that many times. A negative argument means move backward but still go down a level. • This command assumes point is not in a string or comment. • ⚠ With PEL: if you want to use Esc C- <down> binding you must ensure that pel-windmoveon-esc-cursor user option is set to nil. • C-M-d : ▼ Shift marking is available in graphics mode, not in terminal mode. • C-M-<down> : ▼ Shift marking works with this command.</down></down>
By statements	Move to beginning /end of sta	tement of comment sentence.	
Go to beginning of statement	м-а	(c-beginning-of-statement &optional COUNT LIM SENTENCE-FLAG)	Go to the beginning of the innermost statement. • 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	М-е	(c-end-of-statement &optional COUNT LIM SENTENCE-FLAG)	Go to the end of the innermost statement. • 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.
Rendering markup embedded in comments	The following commands are used to create images from specific markup code embedded inside D source code comments. This can be useful when using these markup languages to describe UML diagrams or finite-state machines for example. You can also use Graphviz, see Graphviz Dot		
Preview UML diagram from plantUML source in current plantUML region of commented source code See also: M PlantUML	<f12> u</f12>	(pel-render-commented- plantuml PREFIX &optional POS)	Render the PlantUML markup embedded in current mode comment. • Use region if identified otherwise use PlantUML block at point. • Uses prefix (as PREFIX) to choose where to display it: • 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. d 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. Requires the plantuml-mode external package, activated by pel-use-plantuml user option being non-nil.

Emacs & D— References

Document	Notes
The D Programming Language	
D (programming language) - Wikipedia	Overview of D
D Home Page	
D Home Page - Documentation	Links to the Language Reference, Library Reference, Command-line Reference (macOS), Feature Overview and Articles.
DUB - The D Package Registry	Browsable/searchable list of packages
<u>The D Style</u> - D Code Guideline	This document provides a set of style conventions promoted by the D community. Several items in this guideline identify stylistic aspects that can be configured in Emacs. Some of them are listed here: • Indentation: • spaces instead of tabs • indentation level: 4 columns >> c-basic-offset = 4 • Line Length: soft limit of 80, hard limit of 120. They can exceed 80 columns but never 120. • Brackets style: • Use the Allman style (also called BSD style) where each brace is on their own line. >> add: (d-mode . "bsd") to c-default-style • Whitespace in statements: • 1 space after for, foreach, if, while and version keyword and the opening parenthesis: if (x) { } • 1 space between binary operators, assignments, casts, lambdas. • No space between unary operators, after assert, function calls, function definition name. • Naming Conventions: • Constant, enums, variable and function names should be camelCased. • User defined type names should be PascalCased.
The Next Big Programming Language You've Never Heard Of WIRED - 2014	D is a very nice language, unfortunately it never got the attention could have got if it had some big corporate backup. Interview with Andrei Alexandrescu discussing his encounter with Walter Bright and the D language.
Emacs Support for D	Support for D for Emacs is based on: • Emacs D Mode • Code completion support that uses: • A completion front end, either: • Auto-Complete based using ac-dcd. • Company based using company-dcd. • Both of these depend on flycheck-dmd-dub, which uses DCD, the D Completion Daemon, written in D. • Both require/use flycheck • D Unit test support: flycheck-d-unittest
Emacs D Mode	The main support for D. Available on MELPA as <u>d-mode</u> . The d-mode is based on cc-mode.
<u>ac-dcd</u> : Auto Complete D Code Completion via DCD backend	Available on MELPA as <u>ac-dcd</u> . • This project also recommend using <u>vasnippet</u> and <u>popwin</u> .
Company-DCD - Company D Code Completion via DCD backend • See also: <u>∑ Customize</u>	Available on MELPA as company-dcd. • DCD is the D Completion Daemon (DCD @ Github). • For Emacs customization of company-dcd, see the company-dcd Emacs customization group (use <f11> <f2> g company-dcd)</f2></f11>
flycheck-dmd-dub	Available from melba as flycheck-dmd-dub. Flycheck support for D: reads D library dependency information from DUB (the D Package Registry). To use it you must install DCD separately: see next row.
DCD: D Completion Daemon	 DCD instruction installation on the <u>DCD Github page</u>. See also the <u>DUB DCD page</u> which has the same info as GitHub but also has internal documentation of the D code interfaces down to the source code. On macOS, the dcd-client and dcd-server commands can be installed with Homebrew.
D Unit Test support: <u>flycheck-d-unittest</u>	Available on MELPA as flycheck-d-unittest. Runs D unit test with "dmd -uninttest and -main options". Takes advantage that D has built-in syntax and dmd support for unit test builds and runs. The project has a wiki page, "Start D with Emacs", describing how to install Emacs support for D (but only describes d-mode and flycheck-d-unittest)
yasnippets for D	I have found the following: Per Nordlöw snippets for D

Document	Notes
Emacs Support for Curly Bracket Programming Languages	The d-mode is based on the CC Mode. The CC Mode, a collection of libraries, provides support for several <u>curly-bracket languages</u> like C, C++, Java, Objective-C, Pike, AWK and it also applies to D. Several features of the CC Mode are used for the D support, so it's useful to be aware of them.
GNU Emacs CC Mode Manual	D is a <u>curly-bracket programming language</u> and therefore supported by Emacs CC Mode. It controls: • whether hard tabs or spaces are used: indent-tabs-mode • the number of columns per tab: tab-width • the <u>indentation style</u> (see <u>indentation style meanings</u>): c-default-style a-list with an entry for D PEL provides user options to activate the use of D in Emacs (pel-use-D) and user options for the tab, style to use and what CC modes are activated by default.
GNU Emacs Manual - C and Related Modes	The main Emacs manual also provides information on the support for C and similar programming languages, and these apply to the D programming language as well. The sections include: • Motion in C • Electric C • Hungry Delete • Other C Commands