## **Emacs support for AWK**

Description	<u>Keystroke</u>	Function	<u>Note</u>
Editing AWK			of the <u>CC Mode</u> . Most functionality provided by the cc-mode is available for AWK editing.
Help & customize     cc-mode learn/mod	<ul> <li>PEL extends Emacs support for the AWK programming language as it does for C, when pel-use-awk user-option is set to t.</li> <li>Type C-h o pel-use-awk RET to open the customization buffer to activate it.</li> </ul>		
o cc-mode set/help			
<ul><li><u>electric keys</u></li><li><u>electric-pair mode</u></li></ul>		read if you do not know what AWK is.	AWK is particularly good at parsing lines of text organized in multiple columns, allowing data field data extraction and transformation.
o insert new line(s) comments	AWK in 20 Minutes: provides a quick overview of writing a     AWK script. Worth reading.     AWK Linux Manual page: for the command line.     The GNU AWK Manual: the definitive reference.		M. HODHOME arrived and AWIII for a constant
hide/show comment			<ul> <li>My <u>USRHOME</u> project uses AWK for some commands.</li> <li>The <u>ps-emacs</u> command lists all Emacs processes running in a terminal. The</li> </ul>
<ul><li>delete whitespace</li><li>indentation</li></ul>	Ine GNU AWK Manus     AWK built-in function	_	information includes the current working process directory of each of these Emacs processes.
<ul><li>indent rigidly</li><li>unindent</li></ul>	2-way communica	tion with other process in GNU AWK	This information is extracted using a very simple GNU AWK script:
open file at point			ps-emacs-format.awk
<ul><li>insert ()</li><li>mark function</li></ul>			
<ul><li>show function name</li><li>search support</li></ul>			
<ul><li>highlighting blocks</li><li>navigate in AWK</li></ul>			
code			
<ul><li>by xref</li><li>by statement</li></ul>			
o by block o Programming help			
Last updated on:	2025-09-22		
Open this PDF file.	<f11> SPC W <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-	Open the <u>\$\mathbb{N}\tilde{L} - Awk</u> local PDF. If the prefix argument (like <b>C-u</b> or <b>M</b> ) is used, then it
See also: <u>E Help/Info</u>	<f12> <f1></f1></f12>	PAGE)	opens the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-
			option is set it's the other way around.
∑ Customize PEL Awk support	<f11> SPC W <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	<ul> <li>Customize PEL Awk support.</li> <li>If OTHER-WINDOW is non-nil (use C-u), display in another window.</li> </ul>
	<f12> <f2></f2></f12>		, , ,
∑ Customize Emacs Awk support	<f11> SPC W <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs Awk support: c, electric.  • If OTHER-WINDOW is non-nil (use <b>C-u</b> ), display in another window.
	<f12> <f3></f3></f12>		, , , , , ,
Comments			
Toggle display of comments in buffer	<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.
or active region See also:		,	This requires the hide-comnt.el package (see Comments). 2 PEL activates it
• <u>\( \text{\subset} \) Comments</u>			when the <b>pel-use-hide-comnt</b> user option is <b>t</b> .
CC Mode Style	Automatic indentation, brace format style and several other AWK stylistic elements are controlled by the CC Mode and the CC mode variables.		
CO mode <u>otyle</u>			listic elements are controlled by the CC Mode and the CC mode variables.
Management	<ul><li>You can impose an inden</li><li>You can also adjust the s</li></ul>	ntation style by customization.  style to what is used in the current buffer:	Emacs provides the following commands to parse the source code and identify the style it
Management • Learn/Modify	You can impose an inden You can also adjust the suses. It learns the style a	ntation style by customization. style to what is used in the current buffer: and sets the style controlling variables fro	Emacs provides the following commands to parse the source code and identify the style it m what it detects in the buffer.
Management	<ul> <li>You can impose an inden</li> <li>You can also adjust the suses. It learns the style a</li> <li>Use this to adapt to so</li> </ul>	ntation style by customization.  style to what is used in the current buffer:  and sets the style controlling variables froi  ource code written by others and want to	Emacs provides the following commands to parse the source code and identify the style it
Management • Learn/Modify style used in	<ul> <li>You can impose an inden</li> <li>You can also adjust the suses. It learns the style a</li> <li>Use this to adapt to so</li> </ul>	ntation style by customization.  style to what is used in the current buffer:  and sets the style controlling variables froi  ource code written by others and want to	Emacs provides the following commands to parse the source code and identify the style it m what it detects in the buffer.  continue using the same style, or to <b>modify</b> the style.
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Management  Learn/Modify style used in current buffer  Show/Modify syntactic context  Set style indentation  Show syntactic information for current line  Guess the style used in the current buffer, do not install it  Guess the style of the code in the buffer and install it.  Guess tyle in the region and install it.	You can impose an inden You can also adjust the s uses. It learns the style a Use this to adapt to so For the following commodified  C-c C-o  C-c C-s <f12> <f4> g g  <f12> <f4> g B  <f12> <f4> g G</f4></f12></f4></f12></f4></f12>	ntation style by customization.  style to what is used in the current buffer: and sets the style controlling variables froi ource code written by others and want to mands all commands that use a key bind  (c-set-offset SYMBOL OFFSET &optional IGNORED)  (c-show-syntactic-information ARG)  (c-guess-buffer-no-install &optional ACCUMULATE)  (c-guess-buffer &optional ACCUMULATE)  (c-guess &optional ACCUMULATE)	Emacs provides the following commands to parse the source code and identify the style it what it detects in the buffer.  continue using the same style, or to modify the style.  ing that ends with an upper case letter install the style.  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 syntactic element.  • Use this to modify a specific style, like how something is indented.  Show syntactic information for each syntactic element present on the current line.  • Display the syntactic information list: style and position highlight the reference position(s) listed as argument to the syntactic list.  • Each list starts with a syntactic symbol with zero or several reference positions.  • With universal argument, inserts the analysis as a comment on that line.  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 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 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 using the first 'c-guess-region-max' bytes of the file, and install it.
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Management  Learn/Modify style used in current buffer  Show/Modify syntactic context  Set style indentation  Show syntactic information for current line  Guess the style used in the current buffer, do not install it  Guess the style of the code in the buffer and install it.  Guess the style in the region and install it.	You can impose an inden You can also adjust the suses. It learns the style a Use this to adapt to suse. For the following commoderate C-c C-c  C-c C-s <f12> <f4> g g  <f12> <f4> g g  <f12> <f4> g R  <f12> <f4> g R</f4></f12></f4></f12></f4></f12></f4></f12>	intation style by customization.  Interpretation style to what is used in the current buffer: and sets the style controlling variables from ource code written by others and want to mands all commands that use a key bind (c-set-offset SYMBOL OFFSET & aptional IGNORED)  (c-show-syntactic-information ARG)  (c-guess-buffer-no-install & aptional ACCUMULATE)  (c-guess-buffer & aptional ACCUMULATE)  (c-guess & aptional ACCUMULATE)	Emacs provides the following commands to parse the source code and identify the style it m what it detects in the buffer.  continue using the same style, or to modify the style.  ing that ends with an upper case letter install the style.  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 syntactic element.  Use this to modify a specific style, like how something is indented.  Show syntactic information for each syntactic element present on the current line.  Display the syntactic information list: style and position highlight the reference position(s) listed as argument to the syntactic list.  Each list starts with a syntactic symbol with zero or several reference positions.  With universal argument, inserts the analysis as a comment on that line.  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 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 previous guess is extended, otherwise a new guess is made from scratch.  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 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 previous guess is extended, otherwise a new guess is made from
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Management  Learn/Modify style used in current buffer  Show/Modify syntactic context  Set style indentation  Show syntactic information for current line  Guess the style used in the current buffer, do not install it  Guess the style of the code in the buffer and install it.  Guess the style of a region and install it.  Set buffer style to guessed style and install it.	You can impose an inden You can also adjust the suses. It learns the style a Use this to adapt to su For the following comm C-c C-o  C-c C-s <f12> <f4> g g  <f12> <f4> g G  <f12> <f4> g R  <f12> <f4+ <f12="" g="" r=""> <f4+ g="" r<="" td=""><td>ntation style by customization. style to what is used in the current buffer: and sets the style controlling variables froi ource code written by others and want to mands all commands that use a key bind  (c-set-offset SYMBOL OFFSET &amp;optional IGNORED)  (c-show-syntactic-information ARG)  (c-guess-buffer-no-install &amp;optional ACCUMULATE)  (c-guess-buffer &amp;optional ACCUMULATE)  (c-guess &amp;optional ACCUMULATE)  (c-guess-region START END &amp;optional ACCUMULATE)  (c-guess-install &amp;optional STYLE- NAME)</td><td>Emacs provides the following commands to parse the source code and identify the style it m what it detects in the buffer.  continue using the same style, or to modify the style.  ing that ends with an upper case letter install the style.  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 syntactic element.  • Display the syntactic information for each syntactic element present on the current line.  • Display the syntactic information list: style and position highlight the reference position(s) listed as argument to the syntactic list.  • Each list starts with a syntactic symbol with zero or several reference positions.  • With universal argument, inserts the analysis as a comment on that line.  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 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 previous guess is extended, otherwise a new guess is made from scratch.  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 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 previous guess is extended, otherwise a new guess is made from scratch.  Install the latest guessed</td></f4+></f4+></f12></f4></f12></f4></f12></f4></f12>	ntation style by customization. style to what is used in the current buffer: and sets the style controlling variables froi ource code written by others and want to mands all commands that use a key bind  (c-set-offset SYMBOL OFFSET &optional IGNORED)  (c-show-syntactic-information ARG)  (c-guess-buffer-no-install &optional ACCUMULATE)  (c-guess-buffer &optional ACCUMULATE)  (c-guess &optional ACCUMULATE)  (c-guess-region START END &optional ACCUMULATE)  (c-guess-install &optional STYLE- NAME)	Emacs provides the following commands to parse the source code and identify the style it m what it detects in the buffer.  continue using the same style, or to modify the style.  ing that ends with an upper case letter install the style.  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 syntactic element.  • Display the syntactic information for each syntactic element present on the current line.  • Display the syntactic information list: style and position highlight the reference position(s) listed as argument to the syntactic list.  • Each list starts with a syntactic symbol with zero or several reference positions.  • With universal argument, inserts the analysis as a comment on that line.  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 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 previous guess is extended, otherwise a new guess is made from scratch.  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 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 previous guess is extended, otherwise a new guess is made from scratch.  Install the latest guessed

Description	<u>Keystroke</u>	Function	<u>Note</u>	
CC Mode support Behaviour control Use <f12> <f4>? to display the current state.</f4></f12>	the indentation and bracket  CC Mode state displaye  1 is the CC mode pr  C is the C comment	style and what happens when electric ch d in the mode line: \$C{} where: rogramming language name: AWK, C, C+ style: '*' for block command (/* */) a		
Toggle Electric state	• C-c C-1 • <f12> <f4> e</f4></f12>	( <b>c-toggle-electric-state</b> & 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 <a brompts="" for="" href="mailto:branche: " name"="" the="">brompts for the name</a> .  Prompts for the name.  Supports tab completion (so use tab to see the list). Can be one of the <a href="mailto:values supported by Emacs">values supported by Emacs</a> . You can add your customized mode with Emacs Lisp code.	
Change indentation width for current buffer	<f12> <f4> TAB</f4></f12>	(pel-cc-set-indent-width &optional NEW-WIDTH)	Interactively change the Indentation with for current buffer to NEW-WIDTH.  • Prompt for new value. Use 0 to restore value specified by configuration (pel-c-indent-width).   Use 0 to restore value specified by configuration (pel-c-indent-width).	
Toggle syntactic indentation	<f12> <f4> i</f4></f12>	(c-toggle-syntactic-indentation &optional ARG)	Toggle syntactic indentation. Toggle if no ARG or if ARG is 0.  • With positive ARG turn on syntactic indentation, turns it off when negative.	
	When it's turned off, the e     M-x c-indent-command	electric keys don't reindent, the indentation	of functions and electric keys indent according to syntactic context keys, when applicable. On functions indents every new line to the same level as the previous nonempty line, and d by 'c-basic-offset'. The indentation style has no effect in this mode, nor any of the	
Toggle Hungry Delete mode	<f12> <f4> DEL</f4></f12>	( <b>c-toggle-hungry-state</b> &optional ARG)	Toggle hungry-delete-key feature. Affects < DEL> and C-d keys.  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 step.	
Toggle text alignment on pel-newline-and- indent-below	<f11> M-RET</f11>	(pel-toggle-newline-indent-align)	Toggle variable <i>pel-newline-does-align</i> for the local buffer: toggles how 'pel-newline-and-indent-below' operates: If <i>pel-newline-does-align</i> is t, it aligns several syntactic element in the current block: the comments, the assignments.	
See also:  • ∑ Align  • ∑ Indentation	align-on-return user opti	ion.	activated (set to t) by adding the major mode to the list in the <b>pel-modes-activating-</b> line (assigned to <b>RET</b> in CC modes. pel-newline-and-indent-below (assigned the <b>M-RET</b> )	
Toggle auto-newline insertion mode	• C-c C-a • <f12> <f4> M-RET</f4></f12>	( <b>c-toggle-auto-newline</b> &optional ARG)	Toggle <u>auto-newline</u> 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 <i>electric indentation</i> .  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, semi-colon, and colon.	
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. The modes are:  1. context-newline: the default: uses (c-context-line-break) with the extra ability to repeat its execution with an argument.  2. newline-and-indent: uses (newline ARG t) to insert newline and indent.  3. just-newline-no-indent: uses (electric-indent-just-newline ARG)	
	the current buffer and doe	Emacs default is to use newline. PEL sets the default to c-context-line-break which provides more functionality for CC modes. A mode change is local to the current buffer and does not affect RET key behaviour in the other buffers using the same mode.  PEL user option pel-initial-c-newline-mode can be set to change the default for c-mode.		
Electric Keys			electrical state is active in a buffer using awk-mode. electric-state (C-c C-1 or <f12> <f4> e).</f4></f12>	
()	• ( )	(c-electric-paren ARG)	Insert a parenthesis.  le line is reindented unless a numeric ARG is supplied, or the parenthesis is inserted inside	
	a literal.  • Whitespace between a fu	nction name and the parenthesis may ge	et added or removed; see the variable 'c-cleanup-list'. e newline cleanups are done if appropriate; see the variable 'c-cleanup-list'.	
{}	• { }	(c-electric-brace ARG)	Insert a brace.	
	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:  a) 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 setting in 'c-hanging-braces-alist'.  b) Any auto-newlines are indented. The original line is also reindented unless 'c-syntactic-indentation' is nil.			
:	c) if auto-newline is tur	(c-electric-colon ARG)	on the settings of 'c-cleanup-list' are done.  Insert a colon.	
	a) If the auto-newline for hanging-colons-alist b) Any auto-newlines a	eature is turned on (indicated by "/la" on i'. ire indented. The original line is also rein	umeric ARG hasn't been supplied, the command performs several electric actions: the mode line) newlines are inserted before and after the colon based on the settings in 'c-dented unless 'c-syntactic-indentation' is nil.  s will be "cleaned up" leaving a scope operator, if this action is set in 'c-cleanup-list'.	
;,	if 'c-electric-flag' is non-ray     When the auto-newly semi&comma-criterib) Any auto-newlines a	(c-electric-semi, ARG)  iil, point isn't inside a literal and a numeri ine feature is turned on (indicated by "/la a' for how newline insertion is determine ire indented. The original line is also reine	Insert a comma or semicolon.  c ARG hasn't been supplied, the command performs several electric actions: on the mode line) a newline might be inserted. See the variable 'c-hanging-	
Electric pairs	It is also possible to control the insertion of character pairs by activating the <b>electric-pair-mode</b> in the buffer.  • Type the first of a pair to insert this one and its matching character for (), [], {}, "" and ".  • When the electric-pair-mode is active in a buffer the mode-line lighter set by the pel-electric-pair-lighter is shown. This defaults to £(1)			
Toggle electric-pairmode in current buffer $\dagger$ Lighter:= $\epsilon(1)$	<f11> M-e</f11>	( <b>electric-pair-local-mode</b> &optional ARG)	Toggle automatic parens pairing (Electric Pair mode) and org-mode special pair electric keys only in this buffer. With this typing (inserts the matching). Same for other pairs.  • With a prefix argument ARG, enable Electric Pair mode if ARG is positive, and disable it otherwise.  • Electric Pair mode is a global minor mode. When enabled, typing an open parenthesis automatically inserts the corresponding closing parenthesis, and vice versa. (Likewise for brackets, etc.). If the region is active, the parentheses (brackets, etc.) are inserted around the region instead.	

Description	<u>Keystroke</u>	Function	<u>Note</u>
Insert New Line(s)	active the point also moves  With PEL the default behave command (bound to <f1: comman<="" command="" pel-cc-newline="" td="" the=""><td>to the proper indentation according to the aviour can be selected by customization 2&gt; M-RET) see the CC-Mode behaviour on and also aligns comments and assignment</td><td>ctric mode is active or not. When it is not active it simply inserts a new line. When it is the syntactic context. The following commands can also be used. The following commands can also be modified by the pel-modes-activating-align-on-return user option list can also be modified by the pel-cc-change-newline-mode command (<f11> M-RET).</f11></td></f1:>	to the proper indentation according to the aviour can be selected by customization 2> M-RET) see the CC-Mode behaviour on and also aligns comments and assignment	ctric mode is active or not. When it is not active it simply inserts a new line. When it is the syntactic context. The following commands can also be used. The following commands can also be modified by the pel-modes-activating-align-on-return user option list can also be modified by the pel-cc-change-newline-mode command ( <f11> M-RET).</f11>
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 (PEL default for RET)  • newline (Emacs default for RET)  • electric-indent-just-newline
behaviour with <f12> M-RET.</f12>	<ul> <li>When point is outsiden which case the new</li> <li>When point is insident the end of the cpp</li> <li>When point is insident variables for details)</li> </ul>	line is indented as the previous non-empethe content of a preprocessor directive, directive doesn't count as inside it.	and indent according to the syntactic context, unless 'c-syntactic-indentation' is nil, in by line instead.  a line continuation backslash is inserted before the line break and aligned appropriately.  riate comment prefix (see the 'c-comment-prefix-regexp' and 'c-block-comment-prefix' loesn't count as inside it.
See also:  • ∑ Filling/ Justification	Use: (newline &optional ARG INTERACTIVE): Insert a newline, and move to left margin of the new line if it's blank.  • With ARG, insert that many newlines.  • If option 'use-hard-newlines' is non-nil, the newline is marked with the text-property 'hard'.  • If 'electric-indent-mode' is enabled, this indents the final new line that it adds, and reindents the preceding line.  • To just insert a newline, use M-x electric-indent-just-newline.  Calls 'auto-fill-function' if the current column number is greater than the value of 'fill-column' and ARG is nil.		
	Use: ( <b>electric-indent-j</b> u	ust-newline ARG): Insert just a newline, v	vithout any auto-indentation. With ARG, insert that many newlines.
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. Does not break current 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 <f11> M-RET.  But lightly modes where 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.</f11>
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:
	In programming lang	guage modes, this is the same as TAB.	tion is done using the value of 'indent-line-function': indents to the column specified by the function 'current-left-margin'.
Open New Line in	C-o	(c-context-open-line)	Insert a line break suitable to the context and leave point before it.
Context See also:  •   Whitespace	Normally C-o is bound to	e-break' equivalent to 'open-line', which o open-line. PEL rebinds it to c-context- the line without indenting the next use op	•
Open new line	• <f12> C-o • M-<f12> C-o</f12></f12>	(open-line N)	Insert a newline and leave point before it. With arg N, insert N newlines.  • If there is a fill prefix and/or a 'left-margin', insert them on the new line if the line would have been blank.
Comment/un- comment  ★★ See also:  Comments	M-;	(pel-c-comment-dwim ARG)	Comment line or region with // or /* */ style comments depending on the comment style currently used in the buffer.  • When no marked region and no comment:  • 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:  • Comment region with style selected by pel-c-multiline-comments user-option:  • default (like comment-dwim): each line is commented with a /* */  • 1: single start multi-line comment (see example in box above)  • 2: double star multi-line comment (see example in the box above)  • With marked commented region:  • removes the comment.  • When a prefix ARG is specified, call 'comment-kill'. Else, call 'comment-indent'.
Comment/un- comment	C-c C-c	(comment-region BEG END &optional ARG)	Comment or uncomment each line in the region.  • With just C-1 prefix are uncomment each line in region REG. END
See also: Comments	<ul> <li>Numeric prefix ARG means use ARG comment characters. If ARG is negative, delete that many comment characters instead.</li> <li>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'.</li> </ul>		
Fill current paragraph See also:  ∑ Filling/Justification	• M-q • <f12> F • M-<f12> F</f12></f12>	( <b>c-fill-paragraph</b> &optional <u>ARG</u> )	Like <f11> t f p.  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.  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>
Toggle subword-mode See also:  Text Modes	• <f11> t m b • <f12> M-b • M-<f12> M-b</f12></f12></f11>	(subword-mode &optional ARG)	Toggle subword-mode: a minor mode that treats sections of <u>camelCase</u> and <u>PascalCase</u> as distinct words.  • With a prefix argument ARG, enable Subword mode if ARG is positive, and disable it otherwise.
HIde/Show comments See also:	<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 <a doi.org="" href="https://doi.org/li&gt; &lt;/a&gt; This requires the &lt;a href=" https:="" li=""> <a doi.org="" href="https://doi.org/li&gt; &lt;a href=" https:="" li=""> <a <="" href="https://doi.org/li&gt; &lt;a href=" https:="" td=""></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>

Description	<u>Keystroke</u>	Function	Note
Hungry Deletion of Whitespace	The CC mode provides two commands that can perform "hungry whitespace deletion" that can also be used in every mode.  • FEL 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 AWK, C, C++, D, Java, Pike, etc) it is also possible to activate the Hungry Delete Mode to modify the behaviour of the simple <del> 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 '//!' 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).  • Toggle hurry deletion mode of the DEL and C-d key for the current buffer with c-toggle-hungry-state (<f12> M-DEL).</f12></f12></del></f11>		
Delete preceding char or all preceding whitespace.  See also: <u>See Cut &amp; Paste</u>	• C-c DEL • C-c \( \Pi \) • C-c C-\( \Pi \) • C-c C-\( \pi \) • C-c C-DEL • <f11> \( \Pi \) • <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: <u>See Also:</u> <u>Cut &amp; Paste</u>	• 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	<ul><li>behaviour control section a</li><li>The first set of command</li></ul>	bove. You can also explicitly request in Is perform syntactic indentations s control	
Indent current line or region	<tab></tab>	( <b>c-indent-line-or-region</b> &optional ARG REGION)	Indent active region, current line, or block starting on this line.
See also:  • Indentation  • 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.</tab>	<ul> <li>Behaviour depends on syntactic-indentation mode (enabled by default but can be toggled on/off with the <f12> M-i key):</f12></li> <li>With syntactic-indentation on (the default):</li> <li>In Transient Mark mode, when the region is active, reindent the region.</li> <li>Otherwise, with a prefix argument, rigidly reindent the expression starting on the current line.</li> <li>Otherwise reindent just the current line.</li> <li>With syntactic-indentation off:</li> <li><tab> always indent current line by one level</tab></li> <li>C-u - <tab> or M <tab> always un-indent current line by one level.</tab></tab></li> <li>Indenting marked region is done without syntax knowledge and at the same level as previous line.</li> <li>If you want to indent rigidly you can use:</li> <li>pel-indent-rigidly, bound to C-x <tab> and to <f11> <tab><tab><tab> to indent the line or region rigidly.</tab></tab></tab></f11></tab></li> <li>tab-to-tab-stop, bound to M-i to insert spaces to the next tab stop column.</li> </ul>		
Indent lines of list after point See also:  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)	<ul> <li>Indent each nonblank line in the region.</li> <li>A numeric prefix argument specifies a column: indent each line to that column.</li> <li>With no prefix argument, the command chooses one of these methods and indents all the lines with it: <ol> <li>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.</li> <li>If 'indent-region-function' is non-nil, call that function to indent the region.</li> <li>Indent each line via 'indent-according-to-mode'.</li> </ol> </li> <li>When a region is marked you can also use the simple <tab> to do the same when syntactic-indentation is active.</tab></li> </ul>
Non Syntactic Indentation	Emacs provides the following command to indent without regards to semantics. More information on indentation is available in the <u>Sindentation</u> table.  The provides the following command to indent without regards to semantics. More information on indentation is available in the <u>Sindentation</u> table.  The provides the following command to indent without regards to semantics. More information on indentation is available in the <u>Sindentation</u> table.		
Insert spaces or tabs to next defined tabstop column See also: <u>∑ Indentation</u>	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-c-tab-width.  • PEL sets tab-width to the value of pel-c-tab-width for each c-mode buffer.
Indent/Unindent rigidly  See also:  E Indentation  Key-Chords	• C-x <tab> • <f11> <tab> <tab> • <tab>q</tab></tab></tab></f11></tab>	(pel-indent-rigidly &optional N)	<ul> <li>Indent rigidly the marked region or current line N times tab-width columns.</li> <li>If a region is marked, it uses 'indent-rigidly' and provides the same prompts to control indentation changes.</li> <li>If no region is marked, it operates on current line(s) identified by the numeric argument N (or if not specified N=1): <ul> <li>N = [-1, 0, 1] : operate on current line</li> <li>N &gt; 1 : operate on the current line and N-1 lines below.</li> <li>N &lt; -1 : operate on the current line and (abs N) -1 lines above.</li> </ul> </li> </ul>
	indent-rigidly Indent all line If called interactivel <right>, S-<le a="" are="" b="" both="" capabilities="" commands="" controlled="" of="" s-<left="" these=""> inde <left> inde Typing any other key deact The S-<right> and S With PEL, the tab-stop PEL sets tab-width</right></left></le></right>	y with no prefix argument, activate a tran  ft>, or S- <right>. ctivate a transient mode where Emacs properties the variable indent-rigidly-map with by int-rigidly-left-to-tab-stop int-rigidly-left ivates the transient mode.</right>	rompts for extra keys to control how to indent. Indenting and un-indenting is possible. The default provides:  light> indent-rigidly-right-to-tab-stop indent-rigidly-right  next tab-stop position, which is controlled by the tab-width user option.  l-awk-tab-width.  c-mode buffer.

⚠ 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>**).

Description	<u>Keystroke</u>	Function	<u>Note</u>	
Indent line(s) rigidly	• <f6> <tab> • <f11> <tab> c</tab></f11></tab></f6>	(pel-indent-lines &optional N)	Indent current or marked lines by N indentation levels controlled by <b>pel-c-indent-width</b> .  • Works with point anywhere on the line.	
See also: • <u>Indentation</u>	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			
	<ul> <li>modifies the region to include all characters in all affected lines. Use C-g to de-activate the region.</li> <li>Handles presence of hard tabs:</li> <li>If indent-tabs-mode is non-nil the indentation is created with a mix of hard-tabs and space characters.</li> <li>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.</li> </ul>			
Un-indent line(s) rigidly	• <backtab> • <f6> <backtab> • <f1> <tab> C</tab></f1></backtab></f6></backtab>	(pel-unindent-lines &optional N)	Un-indent current line or marked lines by N indentation levels controlled by pel-awk-indent-width. Works with point is anywhere on the line.	
See also: • <u>\$\sigma\$ Indentation</u>	<ul> <li>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.</li> <li>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.</li> <li>Handles presence of hard tabs: If indent-tabs-mode is: <ul> <li>non-nil the indentation is created with a mix of hard-tabs and space characters.</li> <li>nil, any hard tab in the indentation of the marked lines is replaced by the proper number of spaces. Keeps hard tabs after first non-whitespace character.</li> </ul> </li> </ul>			
Open file at point  See also: Efile mngt After changing user- options you currently must restart PEL by executing pel-init or restarting Emacs!	The following command allow opening files from the file name taken at point (the cursor location).  In a awk-mode buffer the command is specialized to be more useful for AWK programming and has the extra capability of searching files where header files are stored. The search method is controlled by the following user-options:  pel-awk-file-finder-method  identifies one of 4 supported method of identifying the header files. See their descriptions below.  pel-awk-file-searched-extra-dir-trees  pel-awk-file-finder-ini-tool-name  the pel.ini file, a INI-format configuration file. The value mapped to that key identifies the list of directories to search for that tool-chain. The name of the tool chain can be overridden by the value of the environment variable PEL_CC_FIND_TOOLCHAIN, which is read and used when Emacs starts up (or pel-init is executed). Use the command pel-cc-set-file-finder-ini-tool-name to change the currently used tool chain name.  Note that when using the Ido completion mode, it is possible to instruct Ido to use a file name at point as the basis for the file name to open.  This Ido behaviour is controlled by the ido-use-filename-at-point user-option. With PEL you can control it globally or locally with <f11> f M</f11>			
Show active file finder setup for current buffer	• <f12> <f4> f • <m-f12> <f4></f4></m-f12></f4></f12>	(pel-cc-find-show-status &optional APPEND)	Print AWK specific PEL file finding control user-options and variables info inside a *pel-cc-ffind-status* <a href="help-mode">help-mode</a> buffer.  • Prints current state and values of relevant user-options and variables as buttons you can use to get more info and change the values of the user options.  • Clear previous buffer content by default. Use prefix arg (like C-u) to append instead.	
Set name of Tool-Chain specific include path.  • (with pel-ini-file search method)	• <f12> <f4> M-</f4></f12>	(pel-cc-set-file-finder-ini-tool-name &optional TOOL-NAME)	Change activate value of tool-chain name key identified by value of pel-c-file-finder-initool-name user-option. The change is not persistent. Requires pel-use-ini set to t. Used when the pel-c-file-finder-method is set to pel-ini-file. In that case it effectively select a new set of tool-chain specific directories to search by pel-open-at-point. The directories are identified by the corresponding TTT-c-path key in the [file-finder] section of the pel.ini file.	
Open file or web- page whose name is at point ★★	• M-* • <f11> f . • 6y</f11>	(pel-open-at-point &optional N)	Open the file, library or the URL, named at point, with potential line & column #s.  • If necessary will search source code files in current project as specified by pelfilename-at-point-finders user-option. Type <f12> <f4>? to show current file search method.  Supports glob characters, partial directory path. When multiple files are found it prompts using the method selected by pel-prompt-read-method user-option.</f4></f12>	
AWK file inclusion finding control	Aside from generic method the pel-awk-file-searched- to search using the search t • generic: the command project-root-identifier	This command works generically but is also specialized for AWK major mode: it opens the header file identified by the @include statement.  Aside from generic method described below, the command searches for the file to open using the method identified by the pel-awk-file-finder-method and the pel-awk-file-searched-extra-dir-trees user-options. The first one identifies one of the following search method, the other identifies extra directory tree(s) to search using the search tool identified by the pel-ffind-executable user-option:  • generic: the command searches, in current directory and its parents, for a file identifying the parent root directory; a file with a name identified in the pel-project-root-identifiers user-option. Something like .git, .hg, .project or .pel-project by default. Then searches for files inside that directory tree.		
☑ pel-use-ini 🔻	marker. The <i>pel.ini</i> file  The file must contain a  The project-path ke	e is a <u>.INI file forma</u> t. When found, it is o [file-finder] section with: ey. The value is a list of directories to sea	·	
Command is also specialized for:  • MreStructuredText  • Mr - C	The currently use The content of The content of	<ul> <li>One or several TTT-awk-path key(s), where TTT is a tool-chain name. The value is a list of directories to search recursively for that tool-chain.</li> <li>The currently used tool chain is identified by the following values in order (first one takes priority on startup):</li> <li>The content of the PEL_CC_FIND_TOOLCHAIN environment variable, if it exists.</li> <li>The content of the pel-awk-file-finder-ini-tool-name user-option; which identifies the name of a TTT-awk-path key.</li> </ul>		
• <u>\$\mathbb{Y}\tilde{\text{\chi}}\tilde{\text{-C++}}\$</u> • <u>\$\mathbb{Y}\tilde{\text{\chi}}\tilde{\text{-UNIX Shell}}\$</u>	You can modify this     With several TTT-     environment variable	<ul> <li>The paths identified in the two lists may use environment variables inside the path strings. Use the \$VARNAME format to identify them.</li> <li>You can modify this tool chain name anytime during an editing session by typing <f12> <f4> M-<f6> and specifying another name.</f6></f4></f12></li> <li>With several TTT-awk-path keys inside the pel.ini file, you can adjust the include path dynamically for various tool chains.</li> <li>environment variable name: the name of an environment variable (like INCLUDE) that holds a list of directory names to search files in.</li> </ul>		
Generic Delimiting characters	<ul> <li>Directories are not searched recursively for the last 2 options.</li> <li>explicit lists: two lists of directory names: one list holds the project directory names, the other hold the tool and library directory names. The lists may identify directory names indirectly via environment variables. The \$VARNAME format must be used. Directories are not searched recursively.</li> <li>In general the command extracts the file or directory name, and possibly line and column numbers, from text at point and tries to open the file or directory.</li> <li>The generic mode extraction works by identifying the beginning &amp; end of the file/directory/library/URL name string by delimiter characters, one of: tab, newline and: "`' ()[]{}&lt;&gt; ''" 「</li></ul>			
↑ The complete file detection heuristic is described in the ∑ File mngt description of the same command.	When finding several file names, the command lists them and prompts using the method selected by <b>pel-prompt-read-method</b> user-option.  The default is a very primitive function implemented by PEL. You can select a more powerful <u>ivy</u> prompting instead.  With <u>ivy</u> selected, PEL will automatically set <u>Pel-use-ivy</u> to t and <u>lvy mode</u> will be installed automatically when you restart Emacs.  Note that the command shows all files found by the specified search method, it does not only use the first one found.			
Select target window <b>F</b>	<ul> <li>Use this to detect potential duplication in header file names in large include paths.</li> <li>The command opens the file in the window selected by the following logic controlled by presence or absence of typed numerical prefix arguments:</li> <li>Select target window:</li> </ul>			
N>20 : open the directory	<ul> <li>Without argument:</li> <li>If file or directory is already opened in a window, move point to that window and to the line column coordinates if specified following the file name at point.</li> <li>If no window holds that file, select the target window according to the number of editable windows in frame: if 1, split that window and use the new window, if 2: use the other window, if 3 or more, use the current window.</li> <li>With prefix numeric argument N:</li> <li>N &lt; 0: create a new window and use that.</li> <li>(abs N) &gt; 20: then open the directory instead of the file. Interpret the window position from the N value adjusted: N-20 (or N+20 if N is negative)</li> <li>N = 0: use the 'other' (the next) window.</li> <li>N = 1, 3, 7or above (excluding 8, 9 and 10): select the target window based on the number of editable windows in frame:</li> </ul>			
See function docstring for more info.	<ul> <li>if 1 window: split that window and use the new window,</li> <li>if 2 windows: use the other window,</li> <li>if 3 or more windows: use the current window.</li> <li>N is: 8: up, 2: down, 4:left, 5:current, 6:right.</li> <li>N is 9: force opening the file in the OS associated application (with N=29 or N=-29, open the file's directory with the OS associated application (eg. macOS Finder, Windows Explorer). If this is a URL, open it in the OS default web browser.</li> <li>Selecting Minibuffer, inexistent or dedicated window is not allowed.</li> </ul>			

Description	<u>Keystroke</u>	Function	<u>Note</u>
Inserting code			
Insert Parentheses	м-(	(insert-parentheses &optional ARG)	For C++: insert a parenthesis pair '()', leaving point after open-paren.  • 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.
Marking	Emacs provides the following	ng command to quickly mark the whole co	ontent of the current function. More mark commands exists, see the <u>S Marking</u> table.
Mark the complete function body	C-M-h	(c-mark-function)	Mark complete function.  • Put mark at end of the current top-level declaration or macro, point at beginning.
See also: <u>S Marking</u>			<ul> <li>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.</li> <li>A mark is left where the command started, unless the region is already active (in Transient Mark mode).</li> <li>As opposed to C-M-a and C-M-e, this function does not require the declaration to contain a brace block.</li> </ul>
Getting Syntactic Information	Use the following command	s to extract syntactic information from th	ne 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.
Search Support			is often used. Using superword-mode helps searching.  nge this use the <f11> t <f2> to access the customize buffer.</f2></f11>
Toggle superword-mode  See also:	• <f11> t m p • <f12> M-p</f12></f11>	(superword-mode &optional ARG)	<ul> <li>Toggle superword-mode: a minor mode that treats snake case as one word. In C++ '_' are treated as part of words.</li> <li>With a prefix argument ARG, enable superword mode if ARG is positive, and disable it otherwise.</li> <li>PEL provides the <f12> M-p key for the programming language modes where</f12></li> </ul>
• ∑ Search/Replace			snake case is popular (Emacs Lisp, C, C++, Erlang, Python, etc)
Highlighting blocks	show-paren-mode, which	an be used to activate or toggle useful months in highlights the parens that matches the compared matching nested parens are highlighter.	one before or after point.
Toggle show-paren mode on/off	• <f12> M-9 • M-<f12> M-9</f12></f12>	(show-paren-mode &optional ARG)	Toggle visualization of matching parens (Show Paren mode).  • With prefix argument ARG, enable Show Paren mode if ARG is positive, disable it otherwise.
See also: <u>E Highlight</u>	• <f11> h (</f11>		<ul> <li>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.</li> </ul>
Enable/Disable coloured highlight of nested blocks (),(),[] See also: Englishment	• <f12> M-r • M-<f12> M-r • <f11> h R</f11></f12></f12>	(rainbow-delimiters-mode &optional ARG)	Highlight nested parentheses, brackets, and braces with colours according to their depth.  • Customize the depth and colours with M-x customize-group rainbow-delimiters
Gee also. <u>E riigiliigili</u>			Requires: rainbow-delimiters.el  PEL activates this when the pel-use-rainbow-delimiters user option is set to t.
Navigation in AWK		ribe the specialized commands only. See (is similar to navigation in C.	e the others inside <u>ℤ <b>Navigation</b></u>
By definitions	Move to the definition of fur	nction or type at point. See <u>xref</u> for m	nore information to activate the various engines that support cross referencing for C code.
Find definition of identifier at point  See also:   Xref	м	(xref-find-definitions IDENTIFIER)	Grab symbol at point and move cursor to its definition.  If there are more than one match, prompt in the *xref* buffer.  To search for a symbol entered manually, type C-u M  With dumb-jump this performs a search using ag, ripgrep or git grep if available.
Go back to where M was last issued	М-,	(xref-pop-marker-stack)	<ul> <li>Pop back to where M was last invoked.</li> <li>Marker depth is controlled by the xref-marker-ring-length user option.</li> </ul>
By statements	Move to beginning /end of s	statement or comment.	
Go to beginning of statement (backward)	м-а	(c-beginning-of-statement &optional COUNT LIM SENTENCE-FLAG)	<ul> <li>Go to the beginning of the innermost statement.</li> <li>With prefix arg, go back N - 1 statements.</li> <li>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).</li> <li>If within or next to a comment or multiline string, move by sentences instead of statements.</li> </ul>
Go to the end of statement (forward)	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.
Go to start of current switch statement	<f6> t w s</f6>	(pel-cc-to-switch-begin)	<ul> <li>Move point to the start { of current switch statement, if any.</li> <li>If point is inside switch statement, mark position before moving point. Move it back with M-`.</li> <li>If point is not inside a switch statement, issue a user error.</li> </ul>
Go to end of current switch statement	<f6> t w e</f6>	(pel-cc-to-switch-end)	Move point just past the end } of current switch statement, if any  If point is inside switch statement, mark position before moving point. Move it back with M—`.  If point is not inside a switch statement, issue a user error.

Description	<u>Keystroke</u>	Function	<u>Note</u>
By blocks     functions     structures	<ul><li>Move across C++ statem</li><li>When point is located</li></ul>		
Move block forward See also:  • ∑ Navigation  • Use this to move to end of next syntax element or to end of block when already outside the block.  • Use C-M-u to exit a block (see below).	<pre>   <f12> <right>   <m-f12> <right>    C-M-f   C-M-<right>   C-[ C-f   Esc C-f   Esc C-<right></right></right></right></m-f12></right></f12></pre>	(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-&gt;settings-&gt;keyboard-&gt;shortcuts to prevent it from using that key sequence.</right></right></right></right></right>
Forward block/list See also:  Navigation	C-M-n	(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 backward  See also:  ■ Navigation	<pre>   <f12> <left>   <m-f12> <left>    C-M-b   C-M-<left>   C-[ C-b   Esc C-b   Esc C-<left> ! </left></left></left></m-f12></left></f12></pre>	(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 pelwindmove-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.  ⑤ 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-&gt;settings-&gt;keyboard-&gt;shortcuts to prevent it from using that key sequence.</left></left></left></left></left>
Backward block/list See also: Navigation	С-м-р	(backward-list &optional ARG)	<ul> <li>Move backward across one balanced group of parentheses.</li> <li>This command will also work on other parentheses-like expressions defined by the current language mode.</li> <li>With ARG, do it that many times.</li> <li>Negative arg -N means move forward across N groups of parentheses.</li> <li>This command assumes point is not in a string or comment.</li> <li>C-M-p : Shift marking is available in graphics mode, not in terminal mode.</li> </ul>
Backward to beginning of current top-level function or	С-М-а	( <b>c-beginning-of-defun</b> & 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.
struct	• <f12> <up> • <m-f12> <up> C-M-<home></home></up></m-f12></up></f12>	(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 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>
Forward to end of current top-level function or struct.	С-М-е	(c-end-of-defun &optional ARG)	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> <down> • <m-f12> <down> C-M-<end></end></down></m-f12></down></f12>	(end-of-defun &optional ARG)	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.  ⚠ This command moves to the end of the next top-level function. It skips nested functions.</f12></f6>
Backward to end of previous top level function or struct	• <f12> <m-up> • <m-f12> <m-up></m-up></m-f12></m-up></f12>	(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−ˆ 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.   In some cases.</f12></f6></f6></f6>
Forward to start of next top level function or struct  Use this to move from the top of the file to the first block.	• <f12> <m-down> • <m-f12> <m-down></m-down></m-f12></m-down></f12>	(pel-beginning-of-next-defun &optional SILENT DONT- PUSH_MARK)	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⁻ 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.</f12></f6></f6></f6>
in/out of blocks	Move in or out of C scope	e 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 pelwindmove-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.</up></up>
			• C-M- <up>: ▼ Shift marking works with this command.  • C-M-<up> does not work on Windows, but H-<up> does.</up></up></up>

Description	<u>Keystroke</u>	Function	<u>Note</u>
Forward Up/outside sexp hierarchy See also: Navigation	C-M-]	(up-list &optional ARG ESCAPE- STRINGS NO-SYNTAX-CROSSING)	Move forward out of one level of parentheses or nested blocks.  Also work on other parentheses-like expressions defined by the current language mode.  With ARG, do it that many times. Negative arg means move backward but to a less deep spot.
Down/inside sexp/block  See also:  ■ Navigation	• C-M-d • C-M- <down> • C-[ C-d • Esc C-d • Esc C-<down></down></down>	(down-list &optional ARG)	Move forward down one level of parentheses.  Also work on other parentheses-like expressions defined by the current language mode.  With ARG, do it that many times. Negative arg mans move backward but still go down a level.  This command assumes point is not in a string or comment.  Mith PEL: if you want to use Esc C- <down> binding you must ensure that pelwindmove-on-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.  C-M-<down> does not work on Windows, but H-<down> does.</down></down></down></down>
Programming Help	PEL has bindings for the following commands that are useful when editing source code, markup files or any file that has a mode that supports imenu.		
Show what completion mode is currently used.	• <f11> ? M-c • <f11> M-c ?</f11></f11>	(pel-show-active-completion-mode)	Display the completion mode currently used, and the Ido prompt geometry when appropriate. Show key bindings for changing other aspects of input completion.
Show function at point	<f11> ? F</f11>	(pel-show-function)	Display the name of the current "function" at point in the mini-buffer.
Toggle which- function-mode to display name of	• <f11> ? f • <f11> M-d f</f11></f11>	(which-function-mode &optional ARG)	Toggle mode line display of current function (Which Function mode).  • With a prefix argument ARG, enable Which Function mode if ARG is positive, and disable it otherwise.
current function at point  See also:  ■ ▼ Menus  ■ Mode Line  The concept of "function" is major mode specific. For example, in C++ mode, if point is inside a class definition it shows the name of the class.	ss		