Marking

Emacs support for the Seed7 Programming Language

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8 Discussion of the Comment of the C	Description	<u>Keystroke</u>	Function	<u>Note</u>						
Count in the Count of the Cou	O Help & customization Comments Template Expansion Auto-indent Marking Navigation Compilation	PEL supports for the Seed7 programming language is experimental and not yet documented except for what you see here. The seed7-mode external package is installed when the pel-use-seed7 user-option is set to t. Seed7 files are files with .sd7 and .s7i extensions. The seed7-mode supports: Seed7 code highlighting Insertion of Seed7 bock or line-end comments. Ability to select which type is inserted by comment-swim. PEL also provides a command to select the comment style allowing easy selection of different styles of multi-line comments, a feature provided by Emacs that PEL uses and provides an easy selection at prompt. Seed7 code navigation across function and procedures as well to start/end of blocks inside functions/procedure as well as enum and struct. imenu support, allowing use of all imenu-based navigation commands and pop-up menus. Identifies callable (functions and procedures), interfaces, enums, structs. Seed7-syntax-aware auto-indentation and auto-fill-mode are supported. Code keyword expansion to Seed7 statements with ability to jump to next field to fill with tempo markers and navigation to those.								
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The one specific to send? -node an island risk. Toggle between Society - Send So			, ,		· ·					
Seed? Flock y and Process Proc	Comments			ed in <u>E Comments</u> . Se	ome are duplicated here for convenience.					
Code Template expansion Code Template expans	Seed7 (* block *) and	C-c ;	(seed7-toggle-comment-style &optional ARG)	 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. Note: the default style for all Seed7 buffers is controlled by the `seed7-uses-block- 						
START END) START END) If the region is active then toggle in the region. Otherwise, in the whole buffer when the region is commentally and the commental public commental publ	comment/uncomment	M-;	(comment-dwim ARG)	On a single line, the	On a single line, the comment is placed after the code.					
### Care in the currently used one. Apply the color to the current buffer to control selection of the default comment style in a supports several comment style, as specified by the comment-style user-option (which can be modified to comment-style user-option) which can be modified to somewhere the box comment style for all buffers the comment-style user-option (which can be modified to the house comment style in the same buffer. **Parameter of the style o	comments in buffer or active region	<f11> ; ;</f11>		• If the region is active then toggle in the region. Otherwise, in the whole buffer. This requires the <a #"="" href="https://linear.com/html/html/>hide-com/html/>hide-com/html/>hide-com/html/>hide-com/html/>hide-com/html/>hide-com/html/>hide-com/html/>hide-com/html/>hide-com/html/>hide-com/html/ hide-com/html/ hide-com/html</td></tr><tr><td>region of several lines is comments. By changing the style you can create the boxed comments, for instance and also uncomment with comment with comment with comment with comment with comment of the same buffer. As of Enacs 30, Enaces 30, Ena</td><td></td><td><f11> ; s</td><td>(pel-comment-style &optional CUSTOMIZE)</td><td colspan=2>• With C-u prefix, open the customize buffer to control selection of the default</td></tr><tr><th>Finds to complete the template easily. Code keyword expansion is performed by the seed7-complete-statement-or-indent command, bout to the <table loss of the season of th</th><th>supports 8 different comment styles, listed</th><th colspan=5><pre>swim (bound to M-;) and then change for another comment style in the same buffer. • The style selected by the command only affects the current buffer. It is not persistent. The persistent setting is the comment-style user option. • 0 = plain:</th></tr><tr><td>const constant declaration for u for-until statement var variable declaration fors for-step statement proc procedure declaration fore for-seach statement function declaration fore for-seach statement combined with an until condition fore sexpand the corresponding code. The sexpand the corresponding code of the first statement type declaration foreku for-seach statement combined with an until condition struct struct type declaration foreku for-seach-key statement combined with an until condition foreku for-seach-key statement combined with an until condition struct struct type declaration foreku for-seach-key statement combined with an until condition foreku for-seach-key statement combined with an until condition struct struct type declaration forku for-key statement combined with an until condition foreku for-seach-key statement combined with an until condition struct struct struct type declaration forku for-key statement combined with an until condition for first struct s</td><td>•</td><td colspan=5>The seed7-mode supports a set of code keyword expansion to Seed7 statements with ability to jump to next field to fill with tempo markers and navigation to these fields to complete the template easily. Code keyword expansion is performed by the seed7-complete-statement-or-indent command, bout to the <tab> key. Type the keyword then type <tab> to expand the keyword into the corresponding code that will be properly indented. There are 2 groups of supported keywords. The keywords shown in the first part of the table expand to their corresponding code template when the keyword is the only word on the line and point is placed just</td></tr><tr><td>Type the keyword at the beginning of the line and hit table to procedure declaration Type the keyword at the beginning of the line and hit table to procedure declaration Type the keyword at the beginning of the line and hit table to procedure declaration Type the keyword or the line and hit table to procedure declaration Type the keyword or the line and hit table to procedure declaration Type the keyword or the line and hit table to procedure declaration Type the keyword or the line and hit table to procedure declaration Type the keyword or the line and hit table to procedure declaration Type the keyword or the line and hit table to procedure declaration Type the keyword or the line and hit table to procedure declaration Type the keyword or the companies of the						
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The second group of keywords are expanded when the keyword precedes a closing parenthesis; they are use to expand the parameter declarations. Also expand with <tab> In Declaration of an in-parameter. Declaration of an in-underparameter. Perf Declaration of a reference-parameter. Inout Declaration of an in-var-parameter. Perf Declaration of a value-parameter. Perf Declaration of a value-parameter. If point follows a valid code keyword properly located, this perform code expansion, leaving point at the first location that must be filled. In that case you can then type <backtab> to move to the next field that needs to be filled (or has already been filled). Those are tempo markers that stay in the buffer of the buffer is closed. If point is located anywhere else indent the line or selected block. Move to next field Syntax-aware automatic lndentation Unless explicitly disabled by setting the seed7-auto-indent user-option to nil, the <tab> and <return> key perform syntax-aware automatic indentation of Seconds. The number of columns used for each indentation level is controlled by the seed7-indent-width user-option, which defaults to 2. Emacs can use hard tabs as appropriate when you activate the indent-tabs-mode. If it is off Emacs only uses space characters. See the Endentation page for more information related to indentation control and commands.</return></tab></backtab></tab>										
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Syntax-aware automatic Indentation Unless explicitly disabled by setting the seed7-auto-indent user-option to nil, the <tab> and <return> key perform syntax-aware automatic indentation of Seconds. The <return> key also supports the auto-fill-mode. The number of columns used for each indentation level is controlled by the seed7-indent-width user-option, which defaults to 2. Emacs can use hard tabs as appropriate when you activate the indent-tabs-mode. If it is off Emacs only uses space characters. See the Indentation page for more information related to indentation control and commands.</return></return></tab>		<tab></tab>	•	leaving point at the first location that must be filled. In that case you can then type <backtab> to move to the next field that needs to be filled (or has already been filled). Those are tempo markers that stay in the buffer until the buffer is closed.</backtab>						
automatic Indentation code. The <return> key also supports the auto-fill-mode. The number of columns used for each indentation level is controlled by the seed7-indent-width user-option, which defaults to 2. Emacs can use hard tabs as appropriate when you activate the indent-tabs-mode. If it is off Emacs only uses space characters. See the Indentation page for more information related to indentation control and commands.</return>	Move to next field	<backtab></backtab>	(tempo-forward-mark)	Move point to the nex	ct tempo marker, the next template field to fill.					
Auto-fill-mode The seed7-mode supports Emacs auto-fill-mode, useful when typing comments. See the Fill/Justify page and the pel-comment-style command above.	automatic	 The number of columns used for each indentation level is controlled by the seed7-indent-width user-option, which defaults to 2. Emacs can use hard tabs as appropriate when you activate the indent-tabs-mode. If it is off Emacs only uses space characters. 								
	Auto-fill-mode	The seed7-mode suppor	The seed7-mode supports Emacs auto-fill-mode, useful when typing comments. See the Fill/Justify page and the pel-comment-style command above.							

The $\underline{seed7\text{-}mode}$ support specialized marking. It is also compatible with other Emancs native and package commands. See $\underline{\Sigma}$ $\underline{Marking}$ for more information.

Description	<u>Keystroke</u>	Function	Note			
Mark current callable	C-M-h	(seed7-mark-defun)	Mark the current Seed7 function or procedure. • Put the mark at the end and point at the beginning. • If point is before or between 2 functions or procedure, mark the next one.			
Code Navigation	The <u>seed7-mode</u> supports syntax-aware procedure/function as well as block aware navigation commands • PEL provides some extra key bindings to Emacs native navigation commands. • The <u>seed7-mode</u> also supports imenu-compliant parsing which enables the ability to use a large set of navigation packages. • See <u>navigation</u> by <u>symbol definition</u> in the <u>Navigation</u> page for more information. • The <u>seed7-mode</u> navigation commands display the name and type of block found when the <u>seed7-verbose-navigation</u> user-option is turned on (set to t).					
Shift-Selection	If you press and hold the shift key while typing a movement command, that sets the mark before moving point (Emacs name for cursor) so that the region extends from the original point to its new position. This is called: Shift-Selection. Shift selection is supported by some navigation commands, not all. The following symbols are used to identify whether the command supports shifts selection: This command supports shift selection in GUI and terminal mode. This command supports shift selection only in GUI mode. This command supports shift selection in GUI mode and also in terminal mode under some conditions (described in the description cell for the command). This command does not support shift selection. Sometimes for this you can first set the mark before moving. Pressing the Shift key when using the key binding for commands that do not show any of these 3 arrows have no impact on the shift selection (and may be inappropriate for the command).					
Move Point	The following sub-sections describe how to navigate across various types of textual and syntactical entities.					
• by <u>defun</u>	The commands move point by Seed7 function and procedure definitions. In PEL: The <f12> cursor key mappings use <up> and <down> to move to the beginning or end of the function, procedure or other blocks. The <f6> cursor key mapping use <up> and <down> to move to the beginning or end of the function or procedure. The <f6> cursor key mapping use <right> and <left> to move to the beginning or end of the next/previous function or procedure. The advantage of the <f6> and <f12> key bindings is they support Shift-Selection for Emacs in terminal mode, as opposed to the key bindings that sue the Control key which can only support Shift-Selection when Emacs is running in Graphics mode.</f12></f6></left></right></f6></down></up></f6></down></up></f12>					
Backward to beginning of defun	• <f6> <up> • C-M-a • C-M-<home> • C-[C-a • Esc C-a</home></up></f6>	(seed7-beg-of-defun &optional N SILENT DONT-PUSH-MARK)	Move backward to the beginning of a defun. With ARG, do it that many times. Negative ARG means move forward to the ARGth following beginning of defun. Prints the name of the function or procedure in the message area. On successful move, you can move back to original position by typing M-`, <f6> <f6> or <f11> . Supports Shift-Selection in graphics mode. <f6><up> supports it in terminal motoo.</up></f6></f11></f6></f6>			
Forward to end of defun ♥ ↓	• <f6> <down> • C-M-e • C-M-<end> • C-[C-e • Esc C-e</end></down></f6>	(seed7-end-of-defun &optional N SILENT DONT-PUSH-MARK)	Move forward to next end of defun. With argument, do it that many times. Negative argument -N means move back to preceding end of defun. Prints the name of the function or procedure in the message area. On successful move, you can move back to original position by typing M- <f6> <f6> or <f11> . Supports Shift-Selection in graphics mode. <f6><down> supports it in terminal mode too.</down></f6></f11></f6></f6>			
Forward to start of next defun	<f6> <right></right></f6>	(seed7-beg-of-next-defun &optional N SILENT DONT-PUSH-MARK)	Move forward to the beginning of the next function or procedure. • With optional argument N, repeat the search that many times. • Move back to previous position with M-`, <f6> <f6> or <f11> . • Supports Shift-Selection.</f11></f6></f6>			
Backward to end of previous define will be replaced	<f6> <left></left></f6>	(pel-end-of-previous-defun &optional SILENT DONT-PUSH_MARK)	Move backwards to the end of the previous function definition. Issue user error 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 unle DONT-PUSH_MARK is non-nil. Move back to previous position with M-`, <f6> <f6> or <f11> . Supports Shift-Selection.</f11></f6></f6>	ess		
Forward to end of current block statement	<f12> <down></down></f12>	(seed7-to-block-forward)	Move forward from the beginning of a Seed7 block to its end. Supports the Seed7 if/end if, block/end block, case/end case, enum/end enum, for end for, repeat/until, struct/end struct, while/end while. It also supports moving to the end of a function or a procedure. Move back to previous position with M-`, <f6> <f6> or <f11> . Supports Shift-Selection.</f11></f6></f6>			
Backward to beginning of current block statement	<f12> <up></up></f12>	(seed7-to-block-backward)	Move backward from the end of a Seed7 block to its beginning. • supports the Seed7: if/end if, block/end block, case/end case, enum/end enum, for end for, repeat/until, struct/end struct, while/end while. It also supports moving to the end of a function or a procedure. • Move back to previous position with M-`, <f6> <f6> or <f11> . • Supports Shift-Selection.</f11></f6></f6>			
Compilation	The Seed7 source code is either interpreted or compiled. In both cases you can verify it's validity by performing a static check of the code, an operation that does not generate any binary file but perform the same language checking that the compiler will do.					
Static check or compile Seed7 file	<f12> c</f12>	c (seed7-compile &optional COMPILE) Static check current Seed7 file, show errors in compilation-mode buffer. • If optional COMPILE argument set, compile the file to executable instead.				
See <u>See Compilation</u> Mode	 For example: type C-u <f12> c for compiling the file. Without the C-u prefix it just static checks the file, an operation that is much faster.</f12> The static analysis is performed by the command identified by the seed7-checker user-option, which defaults to s7-check. You can specify any command with or without its path. The compilation is performed by the command identified by the seed7-compiler user-option, which defaults to s7c. You can specify any command with or without its path. Any detected error is shown in a *compilation* <u>S Compilation Mode</u> buffer. Use it to navigate to the line of the code in error. 					

Emacs & Seed7 — References

Document	Notes		
The Seed7 Programming Language	Seed7 @ Wikipedia Seed7 Home Seed7 @ Github	Seed7 Manual Seed7 Language Reference	
	Seed7 @ reddit Seed7 @ Rosetta code		
Presentations	 The Seed7 Programming Language @ Youtube The Seed7 Programming Language Presentation at CPP Vienna @ Youtube Another speech about the Seed7 Programming Language 		
	Modern Extensible Languages. Daniel Zingaro, McMaster U. April 11, 2007 (pdf)		
Emacs support 🗯 is partial, not yet completed.	seed7-mode @ Github		
Other tools that support Seed7	 ripgrep a very fast grep replacement - supports seed7 file types with this pull request accepted April 7 2025 With this version of ripgrep, you can use deadgrep to identify Seed7 files by name in Emacs. See <u>Serep</u> ugrep another very fast grep replacement - supports seed7 files with this pull request. 		