

Emacs support for C3

Description	Keystroke	Function	Note
C3 Support			
• File associations		C3 is a programming language based off the C language. It is relatively new and still evolving. PEL supports the only supported mode for C3: the tree-sitter-based c3-ts-mode provided by the external c3-ts-mode package. 📦 Requires the c3-ts-mode file  PEL installs it in the utils directory when <code>pel-use-c3</code> user-option is set to <code>t</code> . • PEL associates the files with the .c3, .c3i and .c3t file extensions with c3-ts-mode . ⚠️ PEL support for C3 requires Emacs >= 30.1 because tree-sitter is required by c3-ts-mode , and PEL only support tree-sitter for Emacs >= 30.1: • See Tree Sitter and Tree-sitter . • PEL activates Speedbar support for the C3 files when <code>pel-use-speedbar</code> user-option is on (set to <code>t</code>). • imenu support provided by c3-ts-mode is available.	
Last updated on:	2025-12-27		
Open this PDF file. See also: Help/Info	<code><f11> SPC M-G <f1></code> <code><f12> <f1></code>	(<code>pel-help-pdf</code> &optional OPEN-WEB-PAGE)	Open the PI - C3 local PDF. If the prefix argument (like <code>C-u</code> or <code>M--</code>) is used, then it opens the remote GitHub hosted raw PDF instead. If the <code>pel-flip-help-pdf-arg</code> user-option is set it's the other way around.
Customize PEL C3 support	<code><f11> SPC M-G <f2></code> <code><f12> <f2></code>	(<code>pel-customize-pel</code> &optional OTHER-WINDOW)	Customize PEL C3 support. • If OTHER-WINDOW is non-nil (use <code>C-u</code>), display in another window.
Customize Emacs C3 support	<code><f11> SPC M-G <f3></code> <code><f12> <f3></code>	(<code>pel-customize-library</code> &optional OTHER-WINDOW)	Customize Emacs C3 support: c3-ts. • If OTHER-WINDOW is non-nil (use <code>C-u</code>), display in another window. 👉 Several aspects of c3-ts-mode are controlled by PEL as defined in the user-options accessed by <code><f12> <f2></code> and override the c3-ts ones.
Show PEL setup for C3	<code><f11> SPC M-G ?</code> <code><f12> ?</code>	(<code>pel-c3-setup-info</code> &optional APPEND)	Display C3 setup information inside a *pel-c3-info* buffer with buttons providing quick access to the customization buffer of each variable shown. The information shown includes the value and interpretation of: c3-ts-indent-offset, tab-width, activated minor modes To append information in the buffer instead of clearing the previous content type any prefix argument (such as <code>C-u</code>) before the command keystroke.
Set visual rendering of hard tabs for the current buffer See Indentation for more information and commands.	<code><f11> <tab> w</code> <code><f12> M-t</code>	(<code>pel-set-tab-width N</code>)	Change the tab width of the current buffer, only affecting the display rendering of hard tabs inserted in the buffer text. Prompts for a new value in the [2, 8] range. • This modifies a buffer local value of the <code>tab-width</code> user-option. • The change is temporary and affects the current buffer only. • To change the tab width used for all C3 source code files, change the ' <code>pel-c3-tab-width</code> ' user-option variable instead.
Comments	See also: Comments		
Insert, realign, comment/uncomment region	<code>M-;</code>	(<code>comment-dwim</code> ARG)	Insert or realign comment on current line (or region if a region is active). If line/region is already commented, uncomment it. • On a single line, the comment is placed <i>after</i> the code. • <code>C-u M-;</code> executes comment-kill
With PEL: Comment the current line with <code>M-0 M-;</code>		(<code>pel-comment-dwim</code> ARG)	Same as <code>comment-dwim</code> but comments the current line with a numeric ARG or 0.
Select C3 comment style	<code><f12> <f4> M-;</code>	(<code>pel-select-c3-comment-style</code>)	Select from the following C3 comment styles generated by <code>comment-dwim</code> and <code>pel-comment-dwim</code> commands: • // • /* */ • <* *>

Emacs & C3 – References

Document	Notes	
The C3 Programming Language	• C3 home • c3c: C3 Compiler @ Github	GitHub repos: • Awesome C3 Projects @ Github • c3 vendor libraries @ Github
Learning C3	• What is C3?	
C3 LSP servers	• c3-lsp : LSP-server for the C3 language. This must be installed manually. See the installation instructions .	
Emacs support	• c3-ts-mode @ Github : tree-sitter-based major-mode for C3. • tree-sitter-c3 @ Github : tree-sitter language grammar for C3.	