How to add iMenu and Speedbar support for a major mode

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The iMenu and Speedbar features provide the ability to list various items inside a file. Emacs supports these features in several major-modes but not all. This document describes how PEL provides iMenu and Speedbar support for major modes that doe not already support them. It describes: • The Emacs commands you can use to investigate the existing support. • The Emacs Lisp code PEL uses to add support. Note that the Speedbar uses information gathered by the iMenu system. To support the Speedbar a major mode must support the iMenu and then identify the files that are presented by the Speedbar.			
<f11> ? e i</f11>	(pel-imenu-dbg-print-vars)	functionality for the current buffer. • Print this information in a *imenu-	dbg* buffer. nenu support for a major mode: use
There are several ways to provide iMenu support for a given major mode. Simplest Method Create a set of regular expressions to detect various types of elements and add these in one of potentially many (MENU-TITLE REGEXP INDEX) list elements of the imenu-generic-expression variable. Where: • MENU-TITLE describes the item. Use nil to put this entry at the top of the menu or when you only have one category of items. • REGEXP is the regexp string used to identify the elements. These are match expressions with potentially several groups. • INDEX is the index integer of the regular expression match, where 1 is for the first match group. Use 0 to include the complete expression. Most Flexible Method Implement a function that creates a menu-specific data structure similar in format to imenuindex-alist then set imenu-create-index-function to that function in a hook for your major mode. This is an Emacs Lisp alist that can hold the following element types: • simple element: (INDEX-NAME • POSITION), where: • INDEX-NAME is a string describing the element type, • POSITION can be a character position integer, a marker, or an overlay. • Only one entry may use a negative value for POSITION to force a rescan of all entries. • special element: (INDEX-NAME POSITION FUNCTION ARGUMENTS), where • a menu entry means executing the following Emacs Lisp expression: (FUNCTION INDEX-NAME POSITION ARGUMENTS) • nested list element: (INDEX-NAME • SUB-ALIST), where SUB-ALIST is a nested alist. Use this for hierarchical menus.			
To support Speedbar, the major- Identify the file extensions used by The speedbar system must be in There is an association betwee association is not done by the For the major modes support when pel-init runs. For example, the default New used by PEL to associate (add-to-list 'auto) The speedbar system must are the index of	riles using that major-mode Informed about the files it must check. Informed about the file and the major mode: the file and the major mode code, then it must be come to the file association is middle. Informed about file association is middle extension to the makefile and th	You need to ensure that: ille identification (regexp) must be parl done in the initialization code. ssing PEL adds them in the pel keys es with the .mak extension that is son e-nmake-mode: makefile-nmake-mode)) if it is not already informed. In function and passing the file extension which ele-add-speedbar-extension which le and show various call scenarios:	rt of the auto-mode-alist. If this s.el file. That code is executed by netimes used. The following code is sion.
	• The Emacs Lisp code PEL uses to Note that the Speedbar uses informated identify the files that are processed by Use the following commands to check	• The Emacs Lisp code PÉL uses to add support. Note that the Speedbar uses information gathered by the iMenu system. identify the files that are processed by the Speedbar. Use the following commands to check what is currently supported by the <fil>? e i</fil>	Note that the Speedbar uses information gathered by the liMenu system. To support the Speedbar a major motidentify the files that are processed by the Speedbar. Vise the following commands to check what is currently supported by the major mode of the current buffer. Vise the following commands to check what is currently supported by the major mode of the current buffer. Vise the following commands to check what is currently supported by the major mode of the current buffer. Vise the following commands to check what is currently supported by the major mode of the current buffer. Visit is the first of the first was a currently primitive) Emacs of the first was a few as a currently primitive) Emacs of the search was a currently primitive) Emacs of the first was a currently primitive Emacs of the first was a currently primitive) Emacs of the first was a currently primitive) Emacs of the first was a currently primitive Emacs of the first was

iMenu - Reference

Topic/URL	Comment
Articles describing iMenu	Exploiting Emacs Imenu's Potential Emacs: Rapid Buffer Navigation with Imenu