## How to add iMenu and Speedbar support for a major mode

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Overview  See:  • <u>&gt; Menus</u>	not all. This document describes ho	se to investigate the existing support.	support for major modes that doe no	eatures in several major-modes but ot already support them. It describes:
• <u>Speedbar</u>	Note that the Speedbar uses information identify the files that are processed by	ation gathered by the iMenu system. by the Speedbar.	To support the Speedbar a major mo	de must support the iMenu and then
Investigation Commands	Use the following commands to che	ck what is currently supported by the	major mode of the current buffer.	
Print imenu controlling variables See also: Menus	<f11> ? e i</f11>	(pel-imenu-dbg-print-vars)	Print the value of the imenu variable functionality for the current buffer.  Print this information in a *imenu-  Use this when investigating the in as a (currently primitive) Emacs of	dbg* buffer. nenu support for a major mode: use
How to add iMenu	There are several ways to provide iMenu support for a given major mode.			
support for a major mode See: • Emacs Manual - iMenu • Search/Replace for Emacs Lisp regexp syntax.	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 imenu—index-alist and 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.			
How to add Speedbar support for a major mode	Speedbar support requires iMenu support  To support Speedbar, the major-mode must have support for iMenu. If it does not have iMenu support, add it using the instructions above.  Identify the file extensions used by files using that major-mode  The speedbar system must be informed about the files it must check. You need to ensure that:  • there is an association between the file and the major mode: the file identification (regexp) must be part of the auto-mode-alist. If this association is not done by the major mode code, then it must be done in the initiation code. For the major modes supported by PEL if the file association is not done by the major mode code, then it must be done in the initiation code. For the major modes supported by PEL if the file association is not done by the major mode support files with the .mak extension that is sometimes used. The following code is used by PEL to associate the .mak file extension to the makefile-nmake-mode)  • the speedbar system must also be informed about file extensions if it is not already informed. This is done by calling the speedbar-add-supported-extension function and passing the file extension. PEL provides a proxy function that also loads speedbar-atality: pel-add-speedbar-extension which is only called when the pel-use-speedbar user-option is turned on. The following code snippets are taken from the pel-keys.el file and show various call scenarios:  • A single file extension  (when pel-use-speedbar  (pel-add-speedbar-extension "(",y"			
	(when pel-use-speedbar (pel-add-speedbar-extension ".li?sp")			

## iMenu - Reference

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