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

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Overview  See:	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.				
• <u> ∑ Speedbar</u>	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 processed by the Speedbar.				
<b>Investigation Commands</b>	Use the following commands to check what is currently supported by the major mode of the current buffer.				
Print imenu controlling variables	<f11> ? e i</f11>	(pel-imenu-dbg-print-vars)	Print the value of the imenu variable functionality for the current buffer.		
See also: <u><b>∑ Menus</b></u>			Print this information in a *imenu-     Use this when investigating the im as a (currently primitive) Emacs d	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 match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to include the complete expression match, where 1 is for the first match group. Use 0 to incl				
	special element: (INDEX-N.     a menu entry means exec				
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 initialization code. For the major modes supported by PEL if the file association is missing PEL adds them in the pel_keys.el file. That code is executed by when pel-init runs.  • For example, the default Make file support does not 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:  (add-to-list 'auto-mode-alist '("\\.mak\\'" . 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-				
	<pre>supported-extension function and passing the file extension. PEL provides a proxy function that also loads speedbar lazily: 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:</pre>				
	<pre>(when pel-use-speedbar</pre>				

## iMenu - Reference

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