

# Xref Mode support 🚧

Language	<a href="#">etags</a>	<a href="#">GNU Global gtags with ggtags</a>	<a href="#">Universal Ctags</a>	<a href="#">rtags</a> for C/C++ only	Notes	Best choice
Ada	Yes					
assembler	Yes					
C	Yes			Yes	<ul style="list-style-type: none"> <li><code>etags</code> — declarations create tags for declarations</li> </ul>	
C++	Yes			Yes	<ul style="list-style-type: none"> <li><code>etags -Q</code> support class qualification</li> <li><code>etags</code> — declarations create tags for declarations</li> </ul>	
Clojure						
Cobol	Yes					
Common Lisp	Yes					
D						
Elixir						
Elm						
Emacs Lisp	Yes	Yes, via Universal CTags	Yes		<ul style="list-style-type: none"> <li><code>etags</code> supports Emacs Lisp and C, the 2 programming languages used by Emacs.</li> <li>creates a TAGS file</li> <li><code>etags</code> can create a TAGS file for files in several directory trees, with files in <code>.gz</code> files.</li> <li>tools: <ul style="list-style-type: none"> <li><b><code>etags-el</code></b>: create TAGS file for 1 directory</li> <li><b><code>tags-for-pel</code></b> : create 1 TAGS file for all PEL and Emacs elisp and C code.</li> </ul> </li> </ul>	<code>etags</code>
Erlang						
forth	Yes					
Fortran	Yes					
go	Yes					
Haskell						
Java	Yes				<ul style="list-style-type: none"> <li><code>etags -Q</code> support class qualification</li> <li><code>etags</code> — declarations create tags for declarations</li> </ul>	
Javascript						
LaTeX	Yes					
LFE						
lua	Yes					
makefile	Yes					
Nim						
Objective C	Yes				<ul style="list-style-type: none"> <li><code>etags -Q</code> support class qualification</li> <li><code>etags</code> — declarations create tags for declarations</li> </ul>	
OCaml						
Pascal	Yes					
Perl	Yes					
php	Yes					
Postscript	Yes					
proc	Yes					
Prolog	Yes					
Python	Yes					
ruby	Yes					
Rust						
Scheme	Yes					
TCL						
Tex	Yes					
Texinfo	Yes					
V						
yacc	Yes					

## Integration

Tool	Programming Language	<a href="#">xref</a>	<a href="#">auto-complete</a>	<a href="#">company</a>	<a href="#">flycheck</a>	<a href="#">flymake</a>	<a href="#">ivy</a>	<a href="#">helm</a>
<a href="#">rtags</a>	C, C++	Yes	Yes	Yes	Yes	No	Yes	Yes
<a href="#">hashtags</a>	Haskell							
<a href="#">fast-tags</a>	Haskell							

xref-backend-functions				
		local	Global	
C	c-mode		• etags--xref-backend	With nothing activated
			• dumb-jump-xref-activate • etags--xref-backend	With pel-use-dumb-jump = t
		• ggtags--xref-backend • t	• etags--xref-backend	with ggtags-mode active in buffer
Python			• etags--xref-backend	With nothing activated
		• ggtags--xref-backend • t	• etags--xref-backend	with ggtags-mode active in buffer
Erlang		• erlang-etags--xref-backend • t	etags--xref-backend	With nothing activated
		• ggtags--xref-backend • erlang-etags--xref-backend • t		with ggtags-mode active in buffer. Tested a little on jabbed source, but could not get many hits.
Rust	rust-mode		etags--xref-backend	With nothing activated
		• ggtags--xref-backend • t	etags--xref-backend	with ggtags-mode active in buffer
Javascript	js-mode		etags--xref-backend	With nothing activated
				with ggtags-mode active in buffer

GGTags Programming Language Support				
	C			
Modules	• Header files:			
functions	Yes			
structures				
Macros	• pre-processor symbols: • pre-processor macros: yes			