Syntax Checking Tools

		Syntax	Checking Tools		
Description	<u>Keystroke</u>	Function	Note		
Syntax Checking Help & Customization Ising Flycheck Info/manual Setup Syntax check buffer/file Show/Navigate errors Using Flymake Last updated on:	PEL provides ke However, for solution and either flyche More info in the page	ey bindings to activate flycheck globa me major modes like Erlang, Go and U			
Open this PDF file. See also: <u>▼ Help/Info</u>	<f11> ! <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)		rgument (like C-u or M) is used, then it opens the II-flip-help-pdf-arg user-option is set it's the other way	
∑ Customize PEL syntax checking control	<f11> ! <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL support for: syntax checking. • If OTHER-WINDOW is non-nil (use C-u), displ	ay in other window.	
<u>S</u> Customize Emacs syntax checking control	<f11> ! <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs spelling support. Opens the fo	ollowing customization groups: flymake, fly check.	
<u>Flycheck</u>	Flycheck is a minor mode for on-the-fly syntax checking. The flycheck external package is activated by PEL when pel-use-flycheck user-option is turned on or another activated PEL user-option requires it. Saide from the following 2 key bindings that PEL provides to toggle the flycheck-mode, flycheck key prefix is C-c ! as set by its flycheck-keymap-prefix user-option. You can change it for a different key prefix. Type <f10> to open the menu bar and navigate to Tools/Syntax Checking for the list of flycheck commands from the menu.</f10>				
Toggle flycheck mode for current buffer	<f11> ! !</f11>	(flycheck-mode &optional ARG)	the user-option appropriate for the major mode. another command that is specific to the major mode.	or flymake syntax checking mode when it is selected by Several major modes binds the same key sequence to ode but either activate flycheck-mode or flymake-mode de. Refer to the documentation of the major mode for	
Toggle flycheck mode for all buffers	<f11> ! M-!</f11>	(global-flycheck-mode &optional ARG)	Toggle Flycheck mode in all buffers. • Flycheck mode is enabled in all buffers where '	flycheck-mode-on-safe' would do it.	
• Info about Flycheck	The following key bindings are available when flycheck-mode is active.				
Open Flycheck manual Display Flycheck version	C-c ! i	(flycheck-manual) (flycheck-version & optional SHOW-VERSION)	and different.	on-nil, show the version in the echo area and the rom package.el and the library version, if both a present signal an error, if called interactively, or if SHOW-	
Flycheck setup	The following key b	indings are available when flycheck-n	node is active.		
Display documentation about syntax checker	C-c ! ?	(flycheck-describe-checker CHECKER)	Display the documentation of CHECKER. • CHECKER is a checker symbol. • Pop up a help buffer with the documentation or	f CHECKER.	
Select Flycheck Checker for current buffer	C-c ! s	(flycheck-select-checker CHECKER)	 automatic checker selection via 'flycheck-chec If called interactively prompt for CHECKER. W enable automatic selection again. Set 'flycheck-checker' to CHECKER and auton changed. 	elect the current syntax checker (if any) and use	
Verify Flycheck setup	C-c ! v	(flycheck-verify-setup)	Check whether Flycheck can be used in this buffer Display a new buffer listing all syntax checkers syntax checkers, possible problems are shown	that could be applicable in the current buffer. For each	
Disable Flycheck checker	C-c ! x	(flycheck-disable-checker CHECKER &optional ENABLE)	Interactively disable CHECKER for the current bu • Prompt for a syntax checker to disable, and ad 'flycheck-disabled-checkers'. • With non-nil ENABLE or with prefix arg, promp' removing it from the buffer-local value of 'flyche	d the syntax checker to the buffer-local value of tor a disabled syntax checker and re-enable it by	
Flycheck buffer/file		oindings are available when flycheck-n			
Syntax Check current buffer	C-c ! c	(flycheck-buffer)	Start checking syntax in the current buffer. Get a syntax checker for the current buffer with	'flycheck-get-checker-for-buffer', and start it.	
Check syntax of current file	C-c ! C-c	(flycheck-compile CHECKER)	Run CHECKER via 'compile'. CHECKER must be a valid syntax checker. Intelligence in the buffer, this of the syntax checker tool, just like 'compile'.	eractively, prompt for a syntax checker to run. command pops up a separate buffer with the entire output	
Manage Errors	The following key b	pindings are available when flycheck-n	node is active.		
Show error list for current buffer	• C-c ! 1 • <f11> ! 1</f11>	(flycheck-list-errors)	Show the error list for the current buffer.		
Display all errors at point	C-c ! h	(flycheck-display-error-at-point)	Display all the error messages at point.		
Explain error at point	C-c ! e	(flycheck-explain-error-at-point)	·	or at point. ror at point with a non-nil ':error-explainer' function nction is then called with this error to produce the	
Copy errors	C-c ! C-w	(flycheck-copy-errors-as-kill POS &optional FORMATTER)			
Clear all errors	C-c ! C	(flycheck-clear &optional SHALL-INTERRUPT)	Clear all errors in the current buffer. • With prefix arg or SHALL-INTERRUPT non-nil,	also interrupt the current syntax check.	
Move point to next error	C-c ! n	(flycheck-next-error &optional N RESET)	Visit the N-th error from the current point. N is the number of errors to advance by, where advance from the beginning of the buffer, other	a negative N advances backwards. With non-nil RESET, wise advance from the current position.	
Move point to prior error	C-c ! p	(flycheck-previous-error &optional N)	Visit the N-th previous error. If given, N specifies the number of errors to mo If N is negative, move forwards instead.	ve backwards by.	

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Description	Keystroke	Function	Note	
Using Flymake	Flymake performs syntax checking while the user is editing. PEL provides flymake support for some major modes. Flymake has several customizable variables, which some listed here: The following customization variables determine the exact circumstances whereupon Flymake decides to initiate a check of the buffer: • flymake-start-on-flymake-mode: t to start checking when flymake-mode is started. nil to prevent check. • flymake-no-changes-timeout: time to wait after last change to start checking. Default = 0.5 seconds. • flymake-start-syntax-check-on-newline: t to check after insertion or removal of newline char from buffer. nil to prevent check. The following variable control navigation to next or previous error: • flymake-wrap-around: If non-nil, moving to errors wraps around buffer boundaries. • flymake-diagnostic-types-alist: Alist ((KEY: PROPS)*) of properties of Flymake diagnostic types. See Emacs documentation for more info.			
Toggle Flymake mode on/ off	M-x flymake- mode	(flymake-mode &optional ARG)	Toggle Flymake mode on or off. With a prefix argument ARG, enable Flymake mode if ARG is positive, and disable it otherwise. Flymake is an Emacs minor mode for on-the-fly syntax checking. Flymake collects diagnostic information from multiple sources, called backends, and visually annotates the buffer with the results.	
	<f11> ! !</f11>		Several major modes binds this key sequence to another command that is specific to the major mode but either activate flycheck-mode or flymake-mode depending on the customization of the major mode. Refer to the documentation of the major mode for more information. • If it is not bound, invoke the command manually as above.	
Go to next flymake diagnostic	M-n	(flymake-goto-next-error &optional N FILTER INTERACTIVE)	Move point to the next Flymake diagnostic. • With a prefix arg, skip any diagnostics with a severity less than ':warning'. • Display the error message in the echo line.	
Go to previous flymake diagnostic	М-р	(flymake-goto-prev-error &optional N FILTER INTERACTIVE)	Move point to the previous Flymake diagnostic. • With a prefix arg, skip any diagnostics with a severity less than ':warning'. • Display the error message in the echo line.	

Syntax Checking Tools - References

Topic & link	Description
Flymake	
GNU Flymake Manual	Flymake is part of Emacs. It has its own manual.
Flycheck	
Spotlight: Flycheck, a Flymake replacement	Flycheck description by Mickey Petersen
Flycheck home page	
Flycheck supported languages	List of programming and markup languages supported by Flycheck.
Modern Emacs setup for Erlang (with autocompletion and lint)	LambdaCat December 2015 blog, which describes how to use Flycheck for Erlang.