Search and Replace

Description	<u>Keystroke</u>	Function	- <u>Note</u>
Emacs Search and	Emacs provides severa	very powerful search and repla	acement mechanisms. They are described in this table along with their key bindings and the
Replace	various extensions provided by external packages. Emacs supports:		
Regular expressions	 Literal and regular expression search. Incremental and non-incremental. In one or several buffers and files. The same for replacement. With the <u>Projectile</u> package, you can search and replace in all files of a specific project. With the <u>Projectile</u> mechanisms, you can also jump to the definitions of code elements. You can also perform searches within: 		
	· ·	∑ Grep illes in a directory. See ∑ Dired fic project. See ∑ Projectile projectile Direction	
Open this PDF file. See also: <u>E Help/Info</u>	<f11> s <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the $\underline{\mathbb{F}}$ Search/Replace local PDF. If the prefix argument (like $\mathbf{C} - \mathbf{u}$ or $\mathbf{M} - \mathbf{n}$) is used, then it opens the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-option is set it's the other way around.
Search Tools Selection	Emacs' default ISe	earch (which uses the C-s bind	
See also: • Customize	 Manzu, ISearch Swiper search 	with match count :	☑ set pel-use-anzu to t. ☑ set pel-use-swiper to t
	Set the pel-initial- When any of the extra s	search-tool user option to sele	er group that holds these user options. Sect which search tool is used when Emacs starts. For exponding pel-use- user option, pel-init makes the following commands available to change currently active.
∑ Customize PEL basic search support	<f11> s <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL basic search support. • When a prefix argument (like C-u) opens the buffer inside another window.
∑ Customize PEL Regular Expression support	<f11> s x <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL regular expression tool support.
Customize Search Tools	The following command	ds provide access to the custon	nization groups that control the behaviour of the various search tools.
Customize Emacs basic search mechanism	<f11> s <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs Search support: isearch, anzu, iedit, easy-escape, fzf, swiper.
∑ Customize Emacs Regular Expression support	<f11> s x <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs regular expression support: rxt, re-builder, visual-regex.
Select Search Tool	Use the following comm	nands to show the currently act	ive search tool or to change it.
Show all search settings	• <f11> s ? • <f11> ? s</f11></f11>	(pel-show-search-status &optional WITH-DETAILS)	Display search status and configuration: the name of the search tool used, the regular expression tool used, the search case settings used. • On first use, or with any prefix argument, displays more information about available choices.
Select search tool to use	<f11> s s (pel-select-search-tool)</f11>		Prompt user for search tool to use with C-s . Show new active one.
Also see <f11> s S below to select regexp search tool</f11>	 PEL provides the ability to activate the following tools that can be activated for searching: ™ The Anzu external package activated by pel-use-anzu user option. Anzu provides a match count in the mode line. ™ The Swiper external package activated by pel-use-swiper user option. Swiper shows a list of matching lines in the mini-buffer. ™ Use the <f11> s <f2> command to open the PEL search customize group and set the pel-initial-search-tool user option to identify which tool is used when Emacs starts. See the ∑Customize table for more information.</f2></f11> ■ Being able to search using either Emacs default ISearch (see below) and Swiper helps as they are both very useful in different scenarios. 		
Control/Query how Search Operates See also: • ∑ Text Modes	Emacs searches are by default, using: "case folding": case insensitive searches. As specified by search-upper-case user option variable. "lax space matching": where number of spaces between words are considered unimportant. Emacs can also search for words and symbols, and the concept of "words" can be modified to include or exclude underscores and hyphens. It supports the following special mode: "superword-mode that treats words separated by hyphen and underscores as a single entity, useful for programming languages using snake case like C, C++, Erlang. "subword-mode that treats sections of camelCase and PascalCase as distinct words. That is useful when editing portions of these longer symbols. PEL provides the ability to activate these modes automatically for various major modes by identifying the major modes in the following user options: "pel-modes-activating-superword-mode"		
Show how search behaves in	<f11> s m ?</f11>	ds control the various aspects of the control the contro	Display the search behaviour relative to: case handling, case folding, lax-whitespace and
mini buffer Toggle search case sensitivity	<f11> s m f</f11>	state) (pel-toggle-case-fold-search)	subword and superiors modes in the minibuffer. Toggle value of case-fold-search variable.
Toggle lax space searching	<f11> s m l</f11>	(isearch-toggle-lax- whitespace)	Toggle lax-whitespace searching on or off.
Toggle case impact on search	<f11> s m u</f11>	(pel-toggle-search-upper- case)	Toggle case sensitivity behaviour of yank in search prompt. Rotates the value of search-upper-case to: • nil: upper case don't force case sensitivity • t: upper case force case sensitivity • not-yanks: upper case force case sensitivity, lower case text when yank in search minibuffer.
Toggle subword-mode ↑ See also: ∑ Text Modes	• <f11> t m b • <f12> M-b • M-<f12> M-b</f12></f12></f11>	(subword-mode &optional ARG)	Toggle subword-mode: a minor mode that treats sections of <u>camelCase</u> and <u>PascalCase</u> as distinct words. • With prefix argument ARG, enable Subword mode if ARG is positive, disable it otherwise. • Use <f12> M-b key for modes where <u>camelCase</u> and <u>PascalCase</u> are popular.</f12>
Toggle superword-mode the see also: Text Modes	• <f11> t m p • <f12> M-p • M-<f12> M-p</f12></f12></f11>	(superword-mode &optional ARG)	Toggle superword-mode: a minor mode that treats <u>snake_case</u> as one word. In Lisp, '-' and '_' are treated part of words. • With prefix argument ARG, enable Superword mode if ARG is positive, disable it otherwise. • Use <f12> M-p key for modes for <u>snake_case</u> (Emacs Lisp, C, C++, Erlang, Python, etc)</f12>
Specialized Search/Move See also: Navigation	PEL provides a set of c	onvenience/specialized search/ 	navigation commands that move to pre-defined searched strings.
	PEL provides a set of c • <f11> s SPC • M-g M-SPC</f11>	(pel-search-two-spaces BACKWARDS)	Move point forward to next location of 2 consecutive space characters. • With any argument: move backward to previous location of 2 consecutive spaces.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>	
PEL Regular Expression Search/ Replace Command Selection	The visual-regexp en providing useful feed The visual-regexp-st PEL provides the ability	hances the Emacs regexp seam back when learning Emacs regeroids extends this further by a to dynamically select the exter	o searches. Emacs provides its own. But several external packages provide extensions. In and replace engine by showing matches in the buffer while you are typing the regexp, exp. For replacement it shows both the match in original text and its replacement. Its lowing the use of other rexgexp engines like pcre2el and Python. In the use of other rexgexp search and replace operations.	
	Emacs provides the following commands to perform string replacement in buffers. • The following external packages also provides several useful extensions: • pcre2el • visual-regexp • visual-regexp-steroids • visual-regexp-steroids • xr (regexp parser & analyzer)			
Search/Replace Regexp Engine Selection See also:	 Emacs' default reg visual-regexp 	PEL supports several regular expression search/replace engines that control the way several Search and Replace commands operate: • Emacs' default regex engine • wisual-regexp • It provides visual feedback during search and replace operation: it shows matches in buffer while typing the search text.		
• © Customize	• emacs, emac Use <f11> s x • Set the pel-initial When any of the extra s</f11>	visual-regex which provides sacs-plain, pcre2el, python and cu <f2> to open the customize cregexp-engine user option to search tool is activated via the co</f2>	visual-regexp-steroids is t ame visual feedback but supports several regexp engines: astom (no special custom regexp yet implemented by PEL). group that allows you to set these user options. select which regexp engine is used when Emacs starts. corresponding pel-use- user option, pel-init makes the following commands available to change to see which one is currently active.	
Select the search/replace regexp engine	<f11> s S</f11>	(pel-select-search-regexp- engine)	Select the search/replace and regexp engine to use. • Shows currently used engine at the prompt. Supports completion. With PEL, activating the engines provided by visual-regexp-steroids currently prevents restoring the original engine. Needs more work.	
newlines in search and replace			fy the newline character. Emacs does not use it in search and replace queries. to identify newline characters.	
Non-Incremental Search			d using the commands and keystrokes listed below. he invocation of the incremental search commands (see below).	
Search for: text in marked region or word taken at point, forward from top or backward from bottom of: current or windows specified by argument number	• <f11> s . • M-<f5> • ::</f5></f11>	(pel-search-word-from-top &optional N)	Search for text in marked region or word at point from top/bottom of buffer of window identified by the number of non-dedicated windows and by the numeric argument N. • A numeric argument is composed with the Meta key prior to the command: • For example, to search a word in the buffer of window located at the right of the current one, position the point on the word to search and type one of the following key sequences: • M-6 <f11> s . • M-6 M-<f5> With PEL, the •; key-chord is available when pel-use-key-chord is non-nil.</f5></f11>	
**			Command numeric prefix is available with the key-chord binding. See <u>Exey-Chords</u>	
See also: •			⚠ Inside keyboard macros the key chords do not work well. Use the <f11> s . or the M-<f5> keystroke when recording keyboard macros.</f5></f11>	
 E Keyboard Macros Notes: Search word at point or marked area. Supports toggling the word mode when grabbing word at point. On search failure, does not move point even when searching inside another window. On search success:	 If there are 3 or more non-dedicated windows search into the buffer of the window identified by the numeric argument N (see below). If N is negative: perform a <i>isearch-backward from the bottom of the buffer</i> in the window selected by the absolute value of N. Window selection: If N is not specified, nil, 1, 3, 7 or 9 and larger: search in current window. If N is 0: : search in other window If N in [2,8] range, search in window identified by the direction corresponding to the cursor in a numeric keypad: 8 := 'up 			
Search forward	 Explicitly selecting the minibuffer window, or a non-existing window is not allowed, and search is done in current window. Searched word is remembered and can be used again to repeat an interactive search with C-s or C-r. Position before searched word is pushed on the mark ring. On search failure: 1) does not move point nor change window, 2) Throw an error signal (flash or beep depending on setting): this allows using the command inside keyboard macros: a keyboard macro with it will be interrupted on failed search. 			
Basic forward search: repeat using prompt history: <f5><up></up></f5>	<f11> s f</f11>	(search-forward STRING &optional BOUND NOERROR COUNT)	 Search forward from point for STRING. Set point to the beginning of the occurrence found. Search case-sensitivity is determined by the value of the variable 'case-fold-search'. Lax Search is not supported. 	
Search backward • Basic backward search: • repeat using prompt history • <f5><up></up></f5>	<f11> s b</f11>	(search-backward STRING &optional BOUND NOERROR COUNT)	Search backward from point for STRING. • Set point to the beginning of the occurrence found. • Search case-sensitivity is determined by the value of the variable 'case-fold-search'. • <u>A Lax Search</u> is not supported.	
Bearch regexp forward Basic forward regexp search: repeat using prompt history	<f11> s x f</f11>	(re-search-forward REGEXP &optional BOUND NOERROR COUNT)	Search forward from point for regular expression REGEXP. • Search case-sensitivity is determined by the value of the variable 'case-fold-search'.	
Search regexp backward Basic backward regexp search: repeat using prompt history	• <f11> s x b • M-R</f11>	• <f11> s x b (re-search-backward Search backward from point for regular expression REGEXP.</f11>		

Description	<u>Keystroke</u>	Function	<u>Note</u>
Word Search	The word search con	nmands do not perform charact	ter folding and toggling lax whitespace matching have no effect on them. eed on incomplete words, they are listed below.
 Incremental Search Word Captures string searched, search again with C-s or C-r 	• M-s w • <f11> s w i</f11>	(isearch-forward-word &optional NOT-WORD NO- RECURSIVE-EDIT)	Do incremental search forward for a sequence of words. With a prefix argument, do a regular string search instead. Like ordinary incremental search except that your input is treated as a sequence of words without regard to how the words are separated. See the command 'isearch-forward' for more information.
Search word forwardBasic search:repeat using prompt history	• M-s w RET • <f11> s w f</f11>	(word-search-forward STRING &optional BOUND NOERROR COUNT)	Searches for exact words that may be separated by punctuations and/or lines. Search string must be a complete set of words.
Search word forward lax • repeat using prompt history	<f11> s w F</f11>	(word-search-forward-lax STRING &optional BOUND NOERROR COUNT	Same as search word forward except that the search string may end in an incomplete word (unless it ends with whitespaces)
Search word backward • repeat using prompt history	• M-s w C-r RET • <f11> s w b</f11>	(word-search-backward STRING &optional BOUND NOERROR COUNT	Searches for exact words that may be separated by punctuations and/or lines. Search string must be a complete set of words.
Search word backward lax	<f11> s w B</f11>	(word-search-backward-lax STRING &optional BOUND NOERROR COUNT)	Same as search word forward except that the search string may end in an incomplete word (unless it ends with whitespaces)
Incremental Search (ISearch) See also: Customize	the search. Re-type sar for same text. To reverse to stop search the Abandon search (and On search exit, original C-s is normal package and the <f11< td=""><td>ne key-chord after reaching endse search direction, use the other arch and leave cursor at found prequested operation (like C-a value of the control of the</td><td>ommands. Type text to search, <pel> to remove chars. Other key-chords can be used during d of buffer, wrap to other end and continue searching. Or repeat key-chord to repeat last search er key-chord (for example: if searching with C-s, use C-r to go backward) position if next command is to insert a character. Other editing key-chords also stop the search which ends the search and moves point to the beginning of the line). Yee <esc><esc> or C-g C-g. Us you can use C-u C-SPC or C-x C-x to return to the position before the search. With PEL you can set the pel-use-swiper user option which activates the Swiper external rou to change what command is mapped to C-s: search-forward or swiper. You can specify -tool user option. Use <f11> s <f2> to customize PEL controlled search.</f2></f11></esc></esc></pel></td></f11<>	ne key-chord after reaching endse search direction, use the other arch and leave cursor at found prequested operation (like C-a value of the control of the	ommands. Type text to search, <pel> to remove chars. Other key-chords can be used during d of buffer, wrap to other end and continue searching. Or repeat key-chord to repeat last search er key-chord (for example: if searching with C-s, use C-r to go backward) position if next command is to insert a character. Other editing key-chords also stop the search which ends the search and moves point to the beginning of the line). Yee <esc><esc> or C-g C-g. Us you can use C-u C-SPC or C-x C-x to return to the position before the search. With PEL you can set the pel-use-swiper user option which activates the Swiper external rou to change what command is mapped to C-s: search-forward or swiper. You can specify -tool user option. Use <f11> s <f2> to customize PEL controlled search.</f2></f11></esc></esc></pel>
ISearch - forward • Incremental • literal search	• C-s • %-f	(isearch-forward &optional REGEXP-P NO-RECURSIVE- EDIT)	Do incremental search forward: start or continue a search. On PEL: this key mapping is used when either pel-initial-search-tool nil or 'anzu' when pel-use-anzu is t. If pel-use-swiper is t, you can use <f11> s s to change the tool used for earth expertions.</f11>
 regexp search Captures string searched, search again with C-s or C-r 	• C-u 1 C-s • M C-s • With PEL, C C-s works. • C-u C-s does not work to perform a regexp ISearch. • Instead you can also use C-M-s to perform the regexp incremental search forward. • To continue to next match during search: type C-s again (with prefix argument if that was used for regexp Isearch). • To change direction: type C-r. To repeat last completed incremental search forward: C-s C-s • %-f is always mapped to isearch-forward.		earch. regexp incremental search forward. gain (with prefix argument if that was used for regexp Isearch).
Perform Swiper search: interactive search with an overview list	C-s	(swiper &optional INITIAL-INPUT)	Perform a Swiper text search. In a minibuffer: show several matches as they are being typed. On PEL: this key mapping is used when pel-use-swiper is t and pel-initial-search-tool is set to swiper. You can use < f11> s s to change the tool used for search operations.
	Select with C-n, C-p, Chose (and stop the)	allowed by separating with a space, sups and space, search) with RET.	pace. in the search expression. So: type "foo _{uu} bar" to search for "foo _u bar".
Incremental Iteral search regexp search	C-r	(isearch-backward &optional REGEXP-P NO- RECURSIVE-EDIT)	Do incremental search backward: start or continue a search. On PEL: this key mapping is used when either pel-initial-search-tool nil or 'anzu' when pel-use-anzu is t. If pel-use-swiper is t, you can use <f11> s s to change the tool used for search operations.</f11>
Captures string searched, search again with C-s or C-r	With a prefix argument, do an incremental regular expression search instead; something like:		earch. regexp incremental search forward. gain (with prefix argument if that was used for regexp Isearch. busly completed incremental search backward: C-r C-r
ISearch - Regexp — forwardIncrementalregexp search	C-M-s	(isearch-forward-regexp &optional NOT-REGEXP NO- RECURSIVE-EDIT)	Incremental forward regular expression search. ■ Everything that can be done with C-s can also be done here. For example repeating the search can be done with C-s.
ISearch - Regexp - backward Incremental regexp search	C-M-r	(isearch-backward-regexp &optional NOT-REGEXP NO- RECURSIVE-EDIT)	Incremental backward regular expression search. Feverything that can be done with C-r can also be done here. For example repeating the search can be done with C-r.
Visual Regexp ISearch with Python regexp engine	<f11> s x C-s</f11>	(vr/isearch-forward)	Like isearch-forward, but using Python (or custom) regular expressions. Requires <u>visual-regexp-steroids</u> : available when pel-use-visual-regexp-steroids is t.
Visual Regexp backward ISearch with Python regexp engine	<f11> s x C-r</f11>	(vr/isearch-backward)	Like isearch-backward, but using Python (or custom) regular expressions. Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t.
Incremental Symbol Search	major mode). Only con	nplete match will be found. For	except that the boundaries of the search must match the boundaries of a symbol (for the buffers' example searching for <i>forward-word</i> in a Lisp file will not match <i>isearch-forward-word</i> . I-search-word-from-top, bound to <f11> s .</f11>
Search symbol at point Grab word at point with C-w Captures string searched, search again with C-s or C-r	М-s .	(isearch-forward-symbol- at-point)	Perform a symbol search starting with current symbol at point. • After capturing the word at point you can extend it by typing C-w . • Useful for searching inside source code while superiors mode is disabled. • Use C-s and/or C-r to perform extra searches on the same symbol.
Grab word at point with C-w Captures string searched, search again with C-s or C-r	M-s _	(isearch-forward-symbol &optional NOT-SYMBOL NO-RECURSIVE-EDIT)	Prompt for symbol, perform symbol search . • Subsequent searches for the same symbol is done with C-s and/or C-r . • Useful for searching code. For example: "data size" matches "data.size" as well as "data->size", "data + size" and "data size".

	<u>Description</u>	<u>Keystroke</u>	Function	Note
	arch for sequence of	• M-s w	(isearch-forward-word	Do incremental search forward for a sequence of words .
• G	r <u>ds</u> Grab word at point with C-w	• <f11> s w i</f11>	&optional NOT-WORD NO- RECURSIVE-EDIT)	 With a prefix argument, do a regular string search instead. Like ordinary incremental search except that your input is treated as a sequence of words
	captures string searched, earch again with C-s or C-r			without regard to how the words are separated. • After entering the prompt type C-w to capture the word(s) at point for the search
		The incremental search	can be modified to perform oth	
Du	ring ISearch			u can type the following characters to modify or repeat the search.
	Change the search type	RET	(search-forward STRING	Typing RET right after typing the command (C - s , C - r , C - M - s or C - M - r) and before typing
	to: simple search		&optional BOUND NOERROR COUNT)	the text to search for: • C-s RET or C-r RET perform a regular search instead of an ilSearch.
			(search-backward STRING &optional	• C-M-s RET or C-M-r RET perform a regular regex search.
			BOUND NOERROR COUNT)	
	Add word at point to	C-w	(isearch-yank-word-or-	Appends the next character or word at point to the search string. Repeat it to append more to
	search string	- · ·	char)	the search string.
	repeat search forward	• C-s	(isearch-repeat-forward)	Repeat the current search, start searching again going forward
	name at a cauch has lowered	• #-g	/incomple woment books would	Dancet the assument according according again background
D	repeat search backward	• C-r • %-d	(isearch-repeat-backward)	Repeat the current search, start searching again going backward
U	Select searched string	While performing a seal	rch you can issue the following	commands to modify the searched string text.
R	History previous	м-р	(isearch-ring-retreat)	Retrieve searched text from search history: get previous entry from history
I	History next	M-n	(isearch-ring-advance)	Retrieve searched text from search history: get next entry from history
N	"tab" complete history in	• C-M-i	(isearch-complete)	Perform "tab" completion for search item in the minibuffer against the search history. Opens a
G	buffer	• M- <tab></tab>	. ,	buffer with the complete search history. Any one of the past search string can be selected to perform the new search.
I	Edit search string	м-е	(isearch-edit-string)	Use this while performing a search and wanting to change the string being searched. • When M-e is typed during the search, the prompt goes back to the minibuffer allowing the
S				editing of the searched string. • Edit then search string in minibuffer.
E				• End editing with RET , C - j , C - s or C - r
A	Add rest of line at point to search string	М-ѕ С-е	(isearch-yank-line &optional ARG)	While searching select the text from cursor to end of line as the search text. If point is already at end of line, appends next line. With numeric argument appends that many next lines.
R C	Add character at point to search string	С-м-у	(isearch-yank-char &optional ARG)	Appends character at point to the search string. If numeric argument appends that many characters.
Н	Yank from kill ring to search string	• С-у • ж-е	(isearch-yank-kill)	Pull string from kill ring into search string.
C	Replace just-yanked search string with previously killed string	м-у	(isearch-yank-pop)	Replace just-yanked search string (via (search-yank-kill) with previously killed string.
М	Modify search method	While performing a seal	rch the following commands mo	odify the search method.
M	Start query replace	M-%	(isearch-query-replace	Transforms the Search into a query replace, using the current string as the string to be
A			&optional ARG REGEXP- FLAG)	replaced. You can repeat the middle command to include several chars, words or lines. To replace char at point, do: C-s, C-M-y then M-%
N				To replace word at point, do: C-s, C-w then M-%
D				do replace line at point, do: C-s, C-y then M-%
S				When prompted for replacement, M-p retrieves the original text that you can then modify.
	Start query replace	• C-M-%	(isearch-query-replace- regexp &optional ARG)	Transforms the Search into a regex query replace, using the current string as the regex string to
	regexp	• <f11> s x i • C-c Q</f11>	regexp aoptional And)	be replaced. EPEL provides direct access to the command via <f11> s x i.</f11> • If pel-bind-keys-for-regexp user-option is t, PEL adds the C-c Q key binding.
	Enter equir equipment list		/income accome DECEVE	Start an "occur" search with current search string.
	Enter occur search: list all occurrences	M-s o	(isearch-occur REGEXP &optional NLINES)	See "M-s o" row above for more information.
	Modify search mode	While performing a seal	rch the following commands mo	odify the search modes.
	Toggle lax whitespace	M-s SPC	(isearch-toggle-lax-	Toggle lax matching during this search. Lax matching is on by default.
	matching		whitespace)	 Any number of whitespace is accepted in the default lax matching. This can also be customized. When off: search exact string.
	Toggle case sensitivity	• M-c • M-s-c	(isearch-toggle-case-fold)	Toggle search case sensitivity.
	Toggle searching in invisible text	M-s i	(isearch-toggle-invible)	Toggle whether invisible text is searched. • Useful when editing outlined text.
	Toggle regular-expression searching	• M-r • M-s-r	(isearch-toggle-regexp)	Toggle regexp searching on or off.
	Toggles word mode	M-s w	(isearch-toggle-word)	Toggle word searching on or off. Turning on word search turns off regexp mode. For example: in C file: the expression it->second.first is not matched by "is second first" but when the word mode (or the symbol mode) is activated it matches.
	Toggles symbol mode	M-s _	(isearch-toggle-symbol)	Toggle symbol search mode. • Useful for searching code. For example: "data size" matches "data.size" as well as "data-size", "data + size" and "data size".
	Toggle character folding	M-s '	(isearch-toggle-char-fold)	Toggle char-fold searching on or off. Turning on character-folding turns off regexp mode. When character folding is activated all accentuated letters for a given letter match the letter., otherwise it does not match (ie: 'à' matches 'a' when character folding is activated and does not otherwise).
	Stop the incremental search		und text. Stop current search arts current search and return po	nd leave cursor right after the found text. int to original location.
	mbined expression regex	<f11> s c</f11>	(cexp-search-forward	Search for combined regular and balanced expression CEXP.
sea	rch		CEXP & Optional BOUND NOERROR COUNT)	 The syntax of CEXP is almost that of a regular expression with the exception that the string \! (introduces a balanced expression and \!) closes a balanced expression. The matched balanced expressions and the matches for the regular expressions before, in between, and after the sexps appear in the match data. Regular expression braces \((\) and \(\) may not include balanced expressions. On the other hand balanced expressions may include regular expressions with groups. The optional parameters BOUND, NOERROR, AND COUNT work like for 'search-forward'. Requires the cexp external pel-use-cexp
				user-option is t. See example of using cexp to match balanced parenthesis on StackExchang

Description	<u>Keystroke</u>	Function	<u>Note</u>
Occur Search See: Searching & Editing in Buffers with Occur Mode ★★ Edit source buffer ▼ Note: all occur searches done in buffers, not files!	The results are shown inside an *Occur* buffer which supports the following commands:		
in bullers, not mes:	• I (Low	er case L) Center buffer where f	ound text is located. Emacs >= 28 ion controls the # of contextual lines around the match
List all matching occurrences of regexp in current buffer	NLINES)		 Prompts for a regexp to search. Use numeric prefix to specify n lines of context in result (defaults to list-ming-li see above) Can use M-n and M-n at prompt to recurse previous search regexp strings. M-s o can be used during an incremental search.
Occur search in selected buffers	<f11> s 0</f11>	(multi-occur-in-matching- buffers BUFREGEXP REGEXP & optional ALLBUFS)	Show all lines matching REGEXP in buffers specified by BUFREGEXP. • Prompts for a regular expression that identifies files, then one for the text to search. • Normally BUFREGEXP matches against each buffer's visited file name, but if you specify a prefix argument, it matches against the buffer name. • For example to occur search in all .py files, select the buffers with \.py\$
Occur search in selected files	<f11> s o</f11>	(multi-occur BUFS REGEXP &optional NLINES)	Show all lines in buffers BUFS containing a match for REGEXP. • This function acts on multiple buffers; otherwise, it is exactly like 'occur'. When you invoke this command interactively, you must specify the buffer names that you want, one by one.
Occur search in buffer of same mode	<f11> s M-o</f11>	(pel-multi-occur-in-this- mode)	Perform an occur search in all buffers in the same major mode as the current buffer. • Credits: Mickey Petersen
Search for occurrence of text in <u>Eprojectile</u> project buffers	<f8> o</f8>	(projectile-multi-occur &optional NLINES)	Do a 'multi-occur' in the project's buffers . • With a prefix argument, show NLINES of context.
During Occur Search ★★	Navigate through oc	currences with commands issue	ed from the original, possibly multiple, buffer(s). No need to be inside the *Occur* buffer.
occur - next occurence	• C-x ` • M-g n • M-g M-n	(next-error &optional ARG RESET)	A prefix ARG specifies how many error messages to move; • negative means move back to previous error messages. • Just C - u as a prefix means reparse the error message buffer and start at the first error.
occur - previous occurence	• M-g p • M-g M-p	(previous-error &optional N)	Prefix arg N says how many error messages to move backwards (or forwards, if negative).
Exit occur-edit mode	C-c C-c	(occur-cease-edit)	Exit the occur-edit mode from within the *Occur* buffer or incremental search via M-s o
Fuzzy Finders Search See <u>S File-mngt</u>	The <u>fzf command line utility</u> is a very fast fuzzy file finder that can be used within Emacs via the <u>fzf.el</u> emacs front-end. It can be used with grep, <u>ripgrep</u> or other search tools. To use it inside Emacs, you must: 1) install and configure the <u>fzf command line utility</u> , and 2) Use the <u>fzf.el</u> external package activated by <u>pel-use-fzf</u>		
Search current buffer with fzf	<f11> s z</f11>	(fzf-find-in-buffer)	Fuzzy search the current buffer visiting a file.
iEdit mode ★★	iEdit Mode - Edit multiple symbols in a function or region in the same way simultaneously Requires the <u>iedit</u> external package. PEL downloads, installs and activates it when either pel-use-iedit or pel-use-lispy user options is set to t. PEL extends the iedit-mode slightly and uses different key bindings for some keys whose global mode meaning is sometimes useful when point is inside a iedit-mode highlighted area. Since most iedit-mode key bindings use key bindings that require holding the Meta and the Shift keys, PEL replaces the use of the <tab>, <backtab> and M-; keys by M-S-<fx> function key bindings. You can force the use of the default iedit-mode keys by turning pel-iedit-use-alternate-keys user option off.</fx></backtab></tab>		
Toggle iedit mode See also:	• C-; • <f11> e • <f11> h i • <f11> m i</f11></f11></f11>	(iedit-mode &optional ARG)	Toggle iEdit mode: edit all symbols in scope or region simultaneously. When turning it on: With C-u prefix, highlight last highlighted text of current buffer With C-u C-u prefix highlight text last highlighted in any buffer. With numerical argument 0, only highlight symbols in current function. With numerical argument 1, highlight current symbol only. If region is active, highlight symbols inside region only. With C-u prefix: outside of region
Select only current function occurrences with numerical prefix 0	 This command behaves differently, depending on the mark, point, prefix argument and variable 'iedit-transient-mark-sensitive'. With iEdit mode, all the occurrences of the current region in the buffer (possibly narrowed) or a region are highlighted. If one occurrence is modified, the change are propagated to all other occurrences simultaneously. If region is not active, 'iedit-default-occurrence' is called to get an occurrence candidate, according to the thing at point. It might be url, email address, markup tag or current symbol(or word). Can switch iEdit mode from isearch mode directly. The current search string is used as occurrence. Highlights all current search string occurrences. With a universal prefix argument, the occurrence when iEdit mode is turned off last time in current buffer is used as occurrence. This is intended to recover last iEdit mode which is turned off. If region active, iEdit mode is limited within the current region. With repeated universal prefix argument, the occurrence when iEdit mode is turned off last time (might be in other buffer) is used as occurrence. If region active, iEdit mode is limited within the current region. With digital prefix argument 1, iEdit mode is limited on the current symbol or the active region, which means just one instance is highlighted. This behavior serves as a start point of incremental selection work flow. I iedit does not properly disable iedit-mode restoration when desktop is restoring previous session. See See iedit bug #115, and my fix for this. Until this bug-fix is incorporated PEL implements a fix to ensure that iedit-mode restoration is not done during a desktop restoration. 		
See <u>X Key-Chords</u>	 	•	n being detected: disable and re-enable the keychord mode with <f11> M-K. fault binding. PEL detects and reports that situation.</f11>
Customize iedit-mode			xtra key binding are activated, like the <f11> <f2> and the <f11> <f3> below, that open and for iedit-mode itself. For those, the background colour is a little darker.</f3></f11></f2></f11>
Customize PEL's iedit-mode	<f11> <f2></f2></f11>	(pel-customize-pel-iedit)	Open the customization buffer for the PEL control of the iedit-mode group.
Customize edit-mode	<f11> <f3></f3></f11>	(pel-customize-iedit)	Open the customization buffer for the iedit group.
iedit-mode help commands			commands available when the edit-minor mode is active.
Show edit-mode help Show keys used to modify	<f1> <f1></f1></f1>	(iedit-help-for-help) (iedit-help-for-occurrences)	Display iedit help menu. Use b to show all edit-mode key binding or m for complete help. Display a short message showing the key bindings for edit commands used to modify the
occurrences Show/hide occurence lines.	• <f1> <f2></f2></f1>	(iedit-show/hide-	occurence text. Show or hide occurrence lines using invisible overlay.
and describe intes.	• C-c C-o	occurrence-lines)	2 2. mas seem shot doing invision overlay.
Show/Hide context lines	• C-' • C-c C-a	(iedit-show/hide-context- lines &optional ARG)	Show or hide context lines. Show all instances selected by hiding all occurence lines. A prefix ARG specifies how many lines before and after the occurrences are not hidden; negative is treated the same as zero. If no prefix argument, the prefix argument last time or default value of 'iedit-occurrence-context-lines' is used for this time.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
iedit-mode navigation		nands to move point to other or	courrence. key bindings (show in red) , set pel-iedit-use-alternate-keys user option off (nil).
Move to previous occurence	• S- <tab> × • <backtab> × • M-S-<f7></f7></backtab></tab>	(iedit-prev-occurrence)	Move backward to the previous occurrence in the 'iedit'. • If the point is already in the first occurrences, you are asked to type another 'iedit-prevoccurrence', it starts again from the end of the buffer. Sometimes with PEL, the backtab keys are not used for iedit, allowing their standard bindings. • To use them with iedit-mode, set pel-iedit-use-alternate-keys user option off (nil).
Move to next occurrence	• <tab> × • M-S-<f9></f9></tab>	(iedit-next-occurrence)	Move forward to the next occurrence in the 'iedit'. If the point is already in the last occurrences, you are asked to type another 'iedit-next-occurrence', it starts again from the beginning of the buffer. With PEL, the tab key is not used for iedit, allowing its standard bindings. To use it with iedit-mode, set pel-iedit-use-alternate-keys user option off (nil).
Move to first occurence	M-<	(iedit-goto-first- occurrence)	Move to the first occurrence.
Move to last occurence	M->	(iedit-goto-last- occurrence)	Move to the last occurrence.
iedit-mode search area	Use the following comn	nands to change the text area v	where occurrences are found. PEL replace some bindings for convenience (see < > >)
Toggle selection of occurrence	• M-; × • M-S- <f8></f8>	(iedit-toggle-selection)	Select or deselect the occurrence under point. When deselecting, if there was only 1 occurrence, iedit-mode is also turned off. With PEL, M-; is replaced by M- <f8> which does not clash with comment-dwim. To use the default M-; key binding, set pel-iedit-use-alternate-keys user option off (nil).</f8>
Restrict searched area to current function	м-н	(iedit-restrict-function &optional ARG)	Restricting ledit mode in current function.
Restrict searched area to current line	M-I	(iedit-restrict-current-line)	Restrict ledit mode to current line.
Expand searched area backwards	M-{	(iedit-expand-up-a-line &optional N)	After start iedit-mode only on current symbol or the active region, this function expands the search region upwards by N line. N defaults to 1. If N is negative, collapses the top of the search region by '-N' lines.
Expand searched area forward	M-}	(iedit-expand-down-a-line &optional N)	After start iedit-mode only on current symbol or the active region, this function expands the search region downwards by N line. N defaults to 1. If N is negative, collapses the bottom of the search region by '-N' lines.
Expand searched area to previous match	м-р	(iedit-expand-up-to- occurrence &optional ARG)	Expand the search region upwards until reaching a new occurrence. If no such occurrence can be found, throw an error. With a prefix, bring the top of the region back down one occurrence.
Expand searched area to next match	M-n	(iedit-expand-down-to- occurrence &optional ARG)	Expand the search region downwards until reaching a new occurrence. If no such occurrence can be found, throw an error. With a prefix, bring the bottom of the region back up one occurrence.
Toggle case sensitivity of occurence matching	• M-C × • <f1> M-c</f1>	(iedit-toggle-case- sensitive)	Toggle case-sensitive matching occurrences.
iedit-mode replacement	Use the following comn	nands to replace all marked occ	currences. These commands are available over a highlighted occurrence.
Convert occurrences to lower case letters	• M-L • M-C	(iedit-downcase- occurrences)	Convert occurrences to lower case.
Convert occurrences to upper case letters	• M-U ===================================	(iedit-upcase-occurrences)	Convert occurrences to upper case. With PEL, default M-U key is replaced by M-C. This way M-U remains bound to pel-redo.
Replace text of occurrences	M-R	(iedit-replace-occurrences &optional TO-STRING)	Replace occurrences with STRING. Prompt for replacement string. Note: instead of using this command the occurrences can also be edited using in place.
Blank occurences	M-SPACE	(iedit-blank-occurrences)	Replace occurrences with blank spaces.
Delete occurrences text	M-D	(iedit-delete-occurrences)	Delete occurrences.
Prefix occurrences with a number	M-N	(iedit-number-occurrences START-AT & optional FORMAT-STRING)	 Insert numbers in front of the occurrences. START-AT, if non-nil, should be a number from which to begin counting. Format string specified by iedit-increment-format-string user option. When called interactively with a prefix argument, prompt for START-AT and FORMAT.
Misc iedit commands	Other iedit-mode comr	nands. These commands are a	vailable over a highlighted occurrence.
Buffering	Suffering M_B (iedit-toggle-buffering)		 Toggle buffering. This is intended to improve iedit's response time. If the number of occurrences are huge, it might be slow to update all the occurrences for each key stoke. When buffering is on, modification is only applied to the current occurrence and will be applied to other occurrences when buffering is off.
Apply last global modification	M-G	(iedit-apply-global- modification)	Apply last global modification.
Switch to multiple-cursors- mode			Switch to 'multiple-cursors-mode'. So that you can navigate out of the occurrence and edit simultaneously with multiple cursors. Requires the multiple-cursors external package. PEL activates it when pel-use-multiple-cursors is set to t.
Quit edit-mode	C-g	(iedit-quit)	Quit edit-mode. Must be typed while cursor is over a highlighted occurence character.
Unconditional Replace	Non-interactive text rep	lacement commands.	
Unconditional replace	<f11> s r</f11>	(replace-string FROM- STRING TO-STRING &optional DELIMITED START END BACKWARD)	Replace all instances of from-string by to-string from point to end of buffer. • Emacs displays the number of string replaced after the operation.
Unconditional regex replace	• <f11> s x r • C-c r</f11>	(pel-replace-regexp) (replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD) (vr/replace REGEXP REPLACE START END)	Replace every match for regex with new string. PEL only activates the C-c r binding when pel-bind-keys-for-regexp is set to t. When pel-use-visual-regexp or pel-use-visual-regexp-steroids is set to t, PEL selects the pel-query-replace-regexp command instead of Emacs' replace-regexp. • This command uses the regex engine provided by Emacs or one of the these external package as selected by pel-select-search-engine-regexp (bound to <f11> s S) With Emacs engine selected, replace-regexp is used and it's possible to use lisp expressions in the replacement string, making this super powerful.</f11>
		(vr/select-replace)	See examples in the Emacs Wiki. The vr/replace and vr/select-replace are only available when any of pel-use-visual-regexp or pel-use-visual-regexp-steroids is set to t.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Visual Regexp Replace	<f11> s x R</f11>	(vr/replace REGEXP REPLACE START END) Requires visual-regexp: available when pel-use-visual-regexp is t.	Replace every match for regex with new string. With visual feedback. The following sub-commands are available while composing the search text: • M-p : Previous search/replacement string • C-c : help • C-c a : toggle show all or up to the default limit. Default limit is specified by vr/default-feedback-limit
Visual Regexp Replace with engine selection	<f11> s x M-r</f11>	(vr/select-replace) Requires visual-regexp- steroids: available when pel-use-visual-regexp- steroids is t.	C-c p: toggle preview The following are available only when using the Python regexp engine: C-c i: toggle case sensitivity (ignore case) C-c m: toggle multi-line match of ^ and \$ C-c s: toggle dot matches newline C-c u: enable Unicode by default.
Visual Regexp Search to multiple-cursors See also: <u>© Cursor</u>	• <f11> s x M • C-c m</f11>	(vr/mc-mark REGEXP START END) Requires both visual-regexp and multiple-cursors	Convert regexp selection to multiple cursors. • First performs a Visual regexp search. When the result of the search is accepted (by hitting RET) all matches are converted to multiple cursors, which allows performing the same operations on all matches until the user quits the multiple cursor operation with C-g.
Visual Regexp Search to multiple-cursors with engine selection See also: <u>© Cursor</u>	<f11> s x M-m</f11>	(vr/select-mc-mark) Requires both visual-regexp-steroids & multiple-cursors external packages.	☑ PEL activates these commands when both pel-use-multiple-cursors is t and either pel-use-visual-regexp or visual-regexp-steroids is t. ☑ PEL only activates the C-c m binding when pel-bind-keys-for-regexp is set to t.
Query Replace	Query replacement pro		ds are query replace. The answers to prompts are listed after the 2 commands.
Query Replace	M-%	(query-replace FROM- STRING TO-STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P)	Replace <i>some</i> occurrences of a string with another, both specified by user. • A negative argument replaces backwards. • When prompted for replacement use M-p to retrieve the original text that you can then modify.
Query Replace Regexp	• C-M-% • <f11> s x q • C-c q</f11>	(pel-query-replace-regexp) (query-replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P) (vr/query-replace REGEXP REPLACE START END) (vr/select-query-replace)	Replace some occurrences of a regex match with a specified string. • A negative argument replaces backwards. • C-M-% does not work in Terminal mode. PEL only activates the C-c q binding if pel-bind-keys-for-regexp user option is set to t. When pel-use-visual-regexp or pel-use-visual-regexp-steroids is set to t, PEL selects the pel-query-replace-regexp command instead of Emacs' query-replace-regexp. • This command uses the regex engine provided by Emacs or one of the these external package as selected by pel-select-search-engine-regexp (bound to <f11> s S).</f11>
Visual Regexp Query Replace	<f11> s x Q</f11>	(vr/query-replace REGEXP REPLACE START END)	Replace some occurrences of a regex match with a specified string with visual feedback inside the buffer. A negative argument replaces backwards. The following sub-commands are available while composing the search text: • M-p : Previous search/replacement string • C-c ? : help • C-c a : toggle show all or up to the default limit. Default limit is specified by vr/default-feedback-limit
Visual Regexp Query Replace with engine selection	<f11> s x M-q</f11>	(vr/select-query-replace) Requires visual-regexp- steroids: available when pel-use-visual-regexp- steroids is t.	C-c p : toggle preview The following are available only when using the Python regexp engine: C-c i : toggle case sensitivity (ignore case) C-c m : toggle multi-line match of ^ and \$ C-c s : toggle dot matches newline C-c u : enable Unicode by default.
Replace text with regexp found in marked file(s) using Dired See also: <u>Dired</u>	Open a Dired buffer with C-x d, mark the files and directories to search/replace into with m, then type Q	(dired-do-find-regexp-and- replace FROM TO)	Replace matches in all files and/or directories currently marked in Dired buffer. For any marked directory, matches in all of its files are replaced, recursively. However, skip files matching grep-find-ignored-files & subdirectories matching grep-find-ignored-directories REGEXP should use constructs supported by your local 'grep' command.
QR Response : keys to use during a query replacement to identify actions	• n or • . • . • ! • . • u • u • u • q or <ret> • E • C-r • C-w • C-M-c • C-] • ?</ret>	: replace : don't replace, move to next : replace current and quit : replace & let me see result before moving on — Press SPC to move on. : replace all the rest and don't ask : back up to the previous instance : undo last replacement : undo ALL replacements : abort/exit query-replace : modify the replacement string : enter recursive edit - Exit the recursive edit with one of: C-M-c or C-] : delete this instance and enter recursive edit —to make a custom replacement : exit recursive edit and resume query-replace : Exit recursive edit and exit query-replace : get help : replace all strings in all buffer, no questions. — Multi-buffer QR Response	
Using <u>S Projectile</u>		mmands Projectile mode must it the key sequence: <f11> <</f11>	be activated first. PEL provides the following key binding to do it when pel-use-projectile <f8> <f8></f8></f8>
Search in Project Using <u>National Projectile</u>	 Searching in project buffers: projectile provides the multi-occur for project buffers, shown non the first row. Searching in project files: projectile provides the following recursive-grep like search tools, they are listed starting on the second row. The first one searches inside buffers, not in files. That may be useful when looking for unsaved buffers or for special buffers. The last 2 require external packages and external command line utilities that must have been installed separately: ripgrep and ag. The ripgrep and ag searches are faster than the standard grep search. 		
Search for occurrence of text in project buffers	<f8> o</f8>	(projectile-multi-occur &optional NLINES) Do a 'multi-occur' in the project's buffers. • With a prefix argument, show NLINES of context. See Occur section above	
Search in project files with recursive grep	<f8> s g</f8>	(projectile-grep &optional REGEXP ARG)	Perform rgrep in the project. • With a prefix ARG asks for files (globbing-aware) which to grep in. • With prefix ARG of '-' (such as 'M'), default the files (without prompt), to 'projectile-grep-default-files'. • With REGEXP given, don't query the user for a regexp.
Search in project files with ripgrep • Rust (ripgrep) regex syntax	<f8> s r</f8>	• With REGEXP given, don't query the user for a regexp. (projectile-ripgrep SEARCH-TERM & optional ARG) Run a Ripgrep search with 'SEARCH-TERM' at current project root. • With an optional prefix argument ARG SEARCH-TERM is interpreted as a regular external packages as well as the ripgrep commutility. ✓ PEL activates this command when pel-use-projectile is non-nil. But to work you must also set pel-use-ripgrep to t. Also note that the ripgrep command limust be installed manually.	

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Search in project files with ag	<f8> s s</f8>	(projectile-ag SEARCH- TERM &optional ARG)	Run an ag search with SEARCH-TERM in the project. • With an optional prefix argument ARG SEARCH-TERM is interpreted as a • regular expression.
PCRE regex syntax			Requires the <u>projectile</u> , <u>ag.el</u> external packages as well as the <u>ag</u> command line utility. PEL activates this command when pel-use-projectile is non-nil. But to make it work you must also set pel-use-ag to t . Also note that the <u>ag</u> command line utility must be installed manually.
Replace in Project	Text replacement inside	all project files.	
Replace test in project files	<f8> r</f8>	(projectile-replace &optional ARG)	Replace literal string in project using non-regexp 'tags-query-replace'. • With a prefix argument ARG prompts you for a directory on which to run the replacement.
Interpret and Lint Emacs Lisp Regexp with <u>xr</u> . Convert it to <u>rx-style</u> <u>semantic form</u>	 All commands descr The <u>rx Emacs Lis</u> PEL provides <u>xr</u>, a r 	bed below require the <u>xr</u> exterr <u>p macro</u> can be used in Emacs egex parser and analyzer, whe	terprets Emacs Lisp regexp and prints a descriptive rx-style semantic form to explain it. It is a lisp code to express a regexp in a more readable fashion. Type f1 o rx for more info. In the pel-use-xr user option is set to t. . PEL provides the following commands which take a scription inside the *regexp-eval* buffer.
Interpret Emacs Lisp regexp at point.	<f11> s x x</f11>	(pel-xr-at-point &optional DIALECT)	Grab regexp at point and print its interpretation in *regexp-eval* buffer. • Uses `xr-pp' to expand regexp in rx notation. • If region is marked, grab content of region instead. • DIALECT is selected by numeric argument: • nil, 1 := medium verbose • < 0 := terse • 4 := brief : short keywords • 16 := verbose : verbose keywords. To pass 4 type the C-u prefix, and 16 type C-u C-u prefix keys. • LIMITATION: it does not support double quote inside a regexp taken at point even if it is quoted. To grab it mark the region, excluding the delimiting quotes.
Interpret Emacs Lisp regexp provided at prompt.	<f11> s x X</f11>	(pel-xr-regxp)	Prompt for regexp and print its interpretation in *regexp-eval* buffer. • Uses `xr-pp' to expand regexp in rx notation.
Lint Emacs Lisp regexp at point	<f11> s x 1</f11>	(pel-xr-lint-at-point &optional FOR-FILE-MATCH)	Lint the regexp at point or inside region if region is marked. • If FOR-FILE-MATCH argument is non-nil (use any prefix keystroke such as C-u or M or C), perform additional checkings to see if the regexp is OK for matching file name. • LIMITATION: does not support double quote inside a regexp taken at point even if it is quoted. To grab it: mark the region, excluding the delimiting quotes.
Lint Emacs Lisp regexp provided at prompt	<f11> s x L</f11>	(pel-xr-lint &optional FOR- FILE-MATCH)	Prompt for a regexp, lint it and display results. If FOR-FILE-MATCH argument is non-nil (use any prefix keystroke such as C-u or M or C), perform additional checkings to see if the regexp is OK for matching file name.
relint — Regular Expression Lint See also: <u>#和 - Emacs Lisp</u>	The following commands can be used to analyze the validity of the regular expressions inside Emacs Lisp code stored inside: • the current Emacs Lisp buffer, • an Emacs Lisp file or, • all Emacs Lisp files inside a directory tree. • From the "relint" buffer press g to re-run the same checks. The package can also used in a script to analyze regular expressions using Emacs batch invocation.		
		elint external package. 🛂 PEL installs and activates it when the pel-use-relint user-option is set to t.	
Lint regular expressions in current buffer	<f11> s x M-1 b</f11>	(relint-current-buffer)	Scan the current buffer for regexp errors.
Lint regular expressions in specified file	<f11> s x M-l f</f11>	(relint-file FILE)	Scan FILE, an elisp file, for regexp-related errors. • Prompts for Emacs Lisp file.
Lint regular expressions in specified directory	<f11> s x M-1 d</f11>	(relint-directory DIR)	Scan all *.el files in DIR for regexp-related errors. Prompts for the directory. Scans directory tree: all Emacs Lisp files in the specified directory all all sub-directories, recursively.

Description Keystroke **Function** Note **Emacs Regexp Syntax** The following rows describe Emacs regular expressions (which differ from other styles of regex) and tools to try them out. Emacs Regular expression Special characters: syntax **Boundary anchors:** : beginning of {line, string, buffer}. Can be used at the beginning of the regexp or after $\$ or $\$ Backslash constructs (elisp) Ś end of {line, string, buffer} **Backslash constructs** : beginning of (string, buffer) : end of {string, buffer} ! Of the above 2 manuals, the : match empty string, but only at point. (This construct is not defined when matching against a string.) \= Elisp manual is more complete. • \b word boundary marker The Emacs manual does not : not word boundary marker **\B** describe all available syntax. any word character. Alternative: [[:word:]] : any non-word character. Alternative: [^[:word:]] \W Basic: : (a period) any single character except newline. To search for any character including newline use: [^\0] ١. : one period • \ : either quotes a special character (such as \$) or introduces special construct (see below). : Alternative Expression Quantifiers - postfix operators: • ? : 0 or or 1 of the previous expression - greedy (greedy:= the longest valid match) : 0 or more of the previous expression - greedy : 1 or more of the previous expression - greedy : 0 or or 1 of the previous expression - non-greedy (non-greedy := the shortest valid match) • ?? : 0 or more of the previous expression - non-greedy • +? 1 or more of the previous expression - non-greedy Expression Quantifiers - repetition postfix operators: : n repetitions. For example, x\{4\} matches the string xxxx and nothing else. • \{n\} • \{n,m\} : between n and m repetitions: must match at least n times but no more than m times. If m is omitted there is no upper limit. **Boundaries:** \< : beginning of word • \> end of word \ < : beginning of a symbol _> : end of a symbol
 GNU extensions to regular expressions supported by Emacs include \w, \W, \b, \B, \<, \>, \', \' (start and end of buffer) So if you want to express a space or tab. use 2 square brackets, as in: [[:blank:]] : an alternative of characters, may include the following: • Character range: [C1-C2] where C1 is the first character in the range and C2 is the last, inclusive one. Example: [a-z] matches all lowercase characters (on case sensitive search).

Inside alternative sets the following characters or expressions can be used: : complements the set (ie: means that we want to match anything but what is in the set. : character class C, where C can be any of the following (eg. [[:alnum:]]): · [:C:] : any letter or digit • alnum any letter alpha : any of the 127 ASCII characters ascii : horizontal whitespace: a space or tab character • blank cntrl : any ASCII control character any digit character, same as [0-9]. [-+[:digit:]] matches any digit as well as '+' and '-'. digit : any graphic character; everything except whitespace,
ASCII and non-ASCII control characters, surrogates and code points unassigned by Unicode. • graph · lower : lower-case letters. If case-fold-search is non-nil it also matches upper-case letters. Use <f11> s m f to toggle the value of this variable. • multibyte : any multi-byte character. • nonascii : matches any non-ASCII character : matches any printing character, either whitespace, or graphic character matched by [:graph:] : any punctuation character. For multibyte character matches anything that has non-word syntax. · punct any character that has whitespace syntax. Note that syntax depends on the major mode. space : any unibyte character unibvte any upper-case letter, as determined by the current case table. upper If case-fold-search is non-nil, it also matches any lower-case letter! word : any character that has word syntax.
 xdigit : the hexadecimal digits: '0' through '9', 'a' through 'f' and 'A' through 'F'. Special Characters: : Match any character whose $\underline{\text{syntax table}}$ code is $\textbf{\textit{C.}}$ · \sC • \sc : Match any character whose $\underline{\text{syntax table}}$ code is not $\textit{\textbf{c}}.$ The syntax table code c cab be one of: • SPC or -: any whitespace : space, newline, tab, carriage return, formfeed, backspace word constituents: normally all upper- and lower-case letters, and digits. w : symbol constituents: extra characters used in variable, function, command names. : punctuation characters. There is none in Lisp. C has some. _ Use describe-syntax to see description of the syntax-table : matches the open "parens" characters identified by the syntax-table of the buffer major-mode; typically: '(', '{', '[', ... : matches the close "parens" characters identified by the syntax-table of the buffer major-mode; typically: '), '}', ']',... of the current buffer.) See: <u>∑ Help/Info</u> : string quotes.

This is useful and important. In 'string-syntax' the double quote does **not** require escaping! **Syntax Table** Inside the 'string-syntax' regexp, you can use \s^* and \s^* . In read-syntax those become \s^* and \s^* . Syntax Descriptors ⚠ Because double quote is not needed in the string-syntax means that the string-syntax cannot be used **Syntax Classes** inside Emacs Lisp source code. Don't be misled by its name! Emacs Lisp code only accepts read-syntax. : escape-syntax characters : character quotes : comment starters : comment enders : generic string delimiters : generic comment delimiters : Match any character whose <u>category</u> is **C.** · \cC Some of the <u>category</u> chars: \mathbf{a} : ASCII, \mathbf{b} : arabic, \mathbf{c} : chinese, \mathbf{g} : greek, \mathbf{l} : latin • \cC : Match any character whose $\underline{\text{category}}$ is not $\emph{\textbf{c}}.$ **Grouping:** • \(... \)
• \(?: ... \) Capturing group See Also (elisp): $\underline{\text{Shy, non-capturing group}}$, which cannot be referred to with \1 to \9. Is not counted in the group numbers **Backslash constructs** ... \): Explictly numbered capturing group. No restriction on numbering. Several groups can have the same number, the last match wins. \(?num: **Match Data** • \1 to \9 : Insert text from group N Replacing matched text \#1 to \#9 : Insert text from group \N but cast as an integer (only useful in lisp forms) Simple Match Data Other: • \# Access Entire Match prompt for user input : inserts a number incremented from 0 : insert whole match string • \& Saving/Restoring Match : uses an Emacs Lisp form with arguments. Use elisp form that take and return strings, such in the following examples: \,(form ...) \,(upcase \2)
 \,(format "%.2f" \#3)
 : uppercase capturing group 2
 \,(format "%.2f" \#3)
 : Cast group 3 as number and format it as decimal with 2 decimal points. See also this article. New Line, hard-tab and ASCII control character <u>basic char syntax</u>: 🤘 When typing a regexp in read-syntax inside Elisp code string, you can represent the newline character with the \n character sequence. But, when typing it interactively at the prompt of a command you must insert the new line character by typing C-q C-j key sequence. The re-builder will accept the \n sequence when it uses the read-syntax, in string-syntax you must insert the newline with C-q C-j. This is the same for most ASCII control characters that have $\underline{\sf Emacs\ basic\ char\ syntax} : \mbox{\bf \ l}, \mbox{\bf\ l},$: any digit Alternative: [[:digit:]] : any non digit character. Alternative: [^[:digit:]] • \d • \D

Description	<u>Keystroke</u>	Function	Note	
Toggle easy-escape minor mode	<f11> "</f11>	(easy-escape-minor-mode & optional ARG)	Compose escape signs together to make regexps more readable.	
Simplify display of escape characters used in regexp	When this mode is active, \\ in strings is displayed as a single fontified using 'easy-escape-face' and composed into 'easy-escape-character' See easy-escape Github page for more information and an example, which includes:			
strings	<pre>• "\\(\\\)" \(\psi "()" • "[\\t\n]" \(\psi "[\t\n]" \)</pre>			
	Requires the easy-	escape external package.	PEL activates when the pel-use-easy-escape is set to t . ted automatically by setting the pel-modes-activating-easy-escape user-option.	
	• Use <f11> s <f2< td=""><td>to open the relevant PEL cust</td><td>tomization group.</td></f2<></f11>	to open the relevant PEL cust	tomization group.	
	options in the easy-esc • Adjust the foregro		ble-slash and the single slash too subtle, try the following, customizing the following user-PEL use <f11> s <f3> 4 to open the easy-escape customization group): cter.</f3></f11>	
Regex-tool	While regex-tool is ru The regex-tool uses I	nning: type C-c C-c to force Emacs Lisp regular expressions	regular expression tester tool. PEL activates it when pel-use-regex-tool is t. an update and C-c C-k to quit using it. by default. It can also use full Perl regexp if you have Perl installed on your system. e regexp engine used. It can be emacs or perl.	
Open the regex-tool	<f11> s x T</f11>	(regex-tool)	Open a 3-window frame (replacing all previous windows). The 3 windows are: Regular expression: enter/edit the expression freely Test string: enter text to match against Groups: lists the matching groups	
Force an update of regex-tool windows	C-c C-c	(regex-tool-markup-text &optional BEG END LEN)	Force an update of the regex-tool windows.	
Quit regex-tool	C-c C-k	(regex-tool-quit)	Quit regex-tool and close its 3 windows, revert to the window layout used before it was used.	
Change the regex-tool backend engine - select between Emacs and Perl.	C-c <f2></f2>	(pel-select-regex-tool- engine)	Open the customize buffer to change regex-tool-backend user option. • Select between Emacs and Perl backend. • To close the customize buffer, type q . • C-c C-c forces an update of the regex-tool to rescan using the new backend.	
re-builder:			ular Expression Builder, targeted to learn the Emacs regular expression syntax.	
Emacs Regular Expression Builder	While the re builder is		re-builder. PEL provides the <f11> s x B key for that.</f11>	
Expression bullder	if needed, change		(Emacs supports 3 syntaxes, see below):	
	With PEL, you use one of the spe	can also use <f11> s x <f3< td=""><td>1> to quickly open the customize page to change the default syntax user option. reb-mode. These are listed below.</td></f3<></f11>	1> to quickly open the customize page to change the default syntax user option. reb-mode. These are listed below.	
Build regular expression interactively with re-	<f11> s x B</f11>	(re-builder)	Construct and test a regexp interactively. • This command makes the current buffer the "target" buffer of the regexp builder. It displays	
builder			a buffer named "*RE-Builder*" in another window, initially containing an empty regexp. • As you edit the regexp in the "*RE-Builder*" buffer, the matching parts of the target buffer will	
d This is a great way to			be highlighted. re-builder supports different styles of regular expressions, selected by the value of the reb-	
learn Emacs regexp!			<pre>re-syntax user option. The possible values are: read: the default. The syntax used by Emacs Lisp code: requires double escaping of backslashes. For example: "\\(red\\ green\\)"</pre>	
			 string: Like read but no double backslashes are needed. Example: "\(red\ green\)" rx: A more advanced, s-expression regexp engine, used if you want lisp-style regexp 	
Customize re-builder	46115 a a W B	(not not no eventory)	engine.	
regular expression syntax	<f11> s x M-B</f11>	(pel-reb-re-syntax)	Select regular expression syntax used by the re-builder: • customize reb-re-syntax user option.	
			 This user option is part of the re-builder group which contains other related settings. This is a global binding: it can be used any time. 	
Select re-builder regular expression syntax	• C-c C-i • C-c <tab></tab>	(reb-change-syntax &optional SYNTAX)	Change the syntax used by the RE Builder. • Affects current session. Does not change customize default.	
Change target buffer	C-c C-b	(reb-change-target-buffer BUF)	Change the target buffer and display it in the target window.	
Enter/leave sub- expression highlight	С-с С-е	(reb-enter-subexp-mode)	Enter the subexpression mode in the RE Builder. • Use this to only highlight the capturing groups.	
mode			 Type 0 to 9 to identify the group to highlight. Type q to exit that mode. 	
Move point to previous match	C-c C-r	(reb-prev-match)	Go to previous match in the RE Builder target window.	
Move point to next match	C-c C-s	(reb-next-match)	Go to next match in the RE Builder target window.	
Force update Copy Regular Expression	C-c C-w	(reb-force-update)	Force an update in the RE Builder target window without a match limit. Copy current RE into the kill ring for later insertion.	
to kill ring.			It also converts (where applicable) the expression to a string format suitable for use in Emacs Lisp source code.	
Quit re-builder	C-c C-q	(reb-quit)	Quit the RE Builder mode.	
Convert string-syntax regexp to read-syntax	Emacs Lisp unfortunately does not have raw strings. This means that when writing a regex in Emacs Lisp code, which accepts what Emacs calls the read-syntax, you need to escape the double quote character (to allow the "character be part of a string). The regex syntaxes also require escaping the backslash character. So to identify a backslash in a Elisp string regex you need to use 4 consecutive backslash. The following tool help convert literal regexp into an elisp string regexp which provides escaping for Emacs Lisp purposes (as reb-copy, described above does).			
Prompt for regexp, insert quoted & escaped regexp string at point.	<f11> s x <spc></spc></f11>	(pel-insert-regexp &optional INSERT_BOTH)	Prompt for a regexp literal, insert corresponding quoted regexp at point. • Converts what Emacs calls the 'string syntax' into the Emacs 'read syntax'. • When INSERT-BOTH argument is non-nil, insert both strings.	
			 If INSERT-BOTH is a string, it is inserted between both strings, otherwise> is inserted. At the prompt enter the literal regexp string, ie. a string with double quote, the capturing 	
			group parentheses and the alternative bar all escaped with a single backslash. • Example 1: when typing: \((foo\ bar\))	
			this text is inserted: "\\(foo\\ bar\\\)" Example 2: when typing: \\(foo\\ bar\\\"-\\\) this text is inserted: \\(foo\\ bar\\\\"-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
			 this text is inserted: "\\(foo\\ bar=\\\\"\\\)" Example 3, using a C-u prefix argument for: abc\S"gh this is inserted: abc\S"gh -> "abc\\S\"gh" 	
			• this is inserted: abc\S"gh → "abc\\S\"gh" ▼ Notice that you must not type the surrounding double quotes.	

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
PCRE support: pcre2el		Regular Expressions) is a popular containing the	
	 This requires the <u>pcre2el</u> external package.		
Toggle pcre-mode on/off.	<f11> s x P</f11>	(pcre-mode &optional ARG)	Use emulated PCRE syntax for regexps wherever possible.
In pcre-mode regexp use the PCRE syntax. Experimental function and experimental binding until it gets integrated better in PEL.			Advises the 'interactive' specs of 'read-regexp' and the following other functions so that they read PCRE syntax and translate to its Emacs equivalent: 'align-regexp' 'find-tag-regexp' 'sort-regexp-fields' 'isearch-message-prefix' 'ibuffer-do-replace-regexp' Also alters the behavior of 'isearch-mode' when searching by regexp.
Toggle rtx-mode on/off	<f11> s x p</f11>	(rxt-mode &optional ARG)	Toggle pcre2el rxt-mode. • With a prefix argument ARG, enable rxt-mode if ARG is positive, and disable it otherwise.
Explains regexp at point	C-c / /	(rxt-explain)	Pop up a buffer with pretty-printed 'rx' syntax for the regex at point. • Chooses regex syntax to read based on current major mode, calling 'rxt-explain-elisp' if buffer is in 'emacs-lisp-mode' or 'lisp-interaction-mode', or 'rxt-explain-pcre' otherwise.
Convert regexp to other syntax	C-c / c	(rxt-convert-syntax)	Convert regex at point to other kind of syntax, depending on major mode. For buffers in 'emacs-lisp-mode' or 'lisp-interaction-mode', calls 'rxt-elisp-to-pcre' to convert to PCRE syntax. Otherwise, calls 'rxt-pcre-to-elisp' to convert to Emacs syntax. The converted syntax is displayed in the echo area and copied to the kill ring; see the two functions named above for details.
Convert regexp at point to RX syntax	C-c / x	(rxt-convert-to-rx)	Convert regex at point or in region to RX syntax. If other found, prompt/ Chooses Emacs or PCRE syntax by major mode.
Convert regexp at point to RX syntax	C-c / '	(rxt-convert-to-strings)	Convert regex at point to RX syntax. Chooses Emacs or PCRE syntax by major mode.
Translate PCRE regexp to Emacs Lisp regexp and string to kill ring	C-c / p e	(rxt-pcre-to-elisp PCRE &optional FLAGS)	Translate PCRE, a regexp in Perl-compatible syntax, to Emacs Lisp. Interactively, uses the contents of the region if it is active, otherwise reads from the minibuffer. Prints the Emacs translation in the echo area and copies it to the kill ring. PCRE regexp features that cannot be translated into Emacs syntax will cause an error.
Query replace using PCRE syntax.	C-c / %	(pcre-query-replace- regexp)	Perform 'query-replace-regexp' using PCRE syntax. • Consider using 'pcre-mode' instead of this function.
Translate PCRE regexp to RX syntax	С-с / р х	(rxt-pcre-to-rx PCRE &optional FLAGS)	Translate PCRE, a regexp in Perl-compatible syntax, to 'rx' syntax. • See 'rxt-pcre-to-elisp' for a description of the interactive behavior.
Return a list of strings matched by PCRE regexp	C-c / p '	(rxt-pcre-to-strings PCRE &optional FLAGS)	Return a list of all strings matched by PCRE, a Perl-compatible regexp. See 'rxt-elisp-to-pcre' for a description of the interactive behavior and 'rxt-elisp-to-strings' for why this might be useful. Throws an error if PCRE contains any infinite quantifiers.
Insert RX syntax for PCRE regexp in new buffer	C-c / p /	(rxt-explain-pcre REGEXP &optional FLAGS)	Insert the pretty-printed 'rx' syntax for REGEXP in a new buffer. • REGEXP is a regular expression in PCRE syntax. See rxt-pcre-to-elisp' for a description of how REGEXP is read interactively.
Insert RX syntax for Emacs Lisp regexp in new buffer	C-c / e /	(rxt-explain-elisp REGEXP)	Insert the pretty-printed 'rx' syntax for REGEXP in a new buffer. • REGEXP is a regular expression in Emacs Lisp syntax. See 'rxt-elisp-to-pcre' for a description of how REGEXP is read interactively.
Translate an Emacs Lisp regexp to PCRE	C-c / e p	(rxt-elisp-to-pcre REGEXP)	Translate REGEXP, a regexp in Emacs Lisp syntax, to Perl-compatible syntax. Interactively, reads the regexp in one of three ways. With a prefix arg, reads from minibuffer without string escaping, like 'query-replace-regexp'. Without a prefix arg, uses the text of the region if it is active. Otherwise, uses the result of evaluating the sexp before point (which might be a string regexp literal or an Emacs Lisp expression that produces a string). Displays the translated PCRE regexp in the echo area and copies it to the kill ring. Emacs regexp features such as syntax classes which cannot be translated to PCRE will cause an error.
Translate an Emacs Lisp regexp to RX syntax	C-c / e x	(rxt-elisp-to-rx REGEXP)	Translate REGEXP, a regexp in Emacs Lisp syntax, to 'rx' syntax. • See 'rxt-elisp-to-pcre' for a description of the interactive behavior and 'rx' for documentation of the S-expression based regexp syntax.
Get all strings that match an Emacs Lisp regexp	C-c / e '	(rxt-elisp-to-strings REGEXP)	 Return a list of all strings matched by REGEXP, an Emacs Lisp regexp. See 'rxt-elisp-to-pcre' for a description of the interactive behavior. This is useful primarily for getting back the original list of strings from a regexp generated by 'regexp-opt', but it will work with any regexp without unbounded quantifiers (*, +, {2, } and so on). Throws an error if REGEXP contains any infinite quantifiers.
Toggle regexp between Emacs Lisp systax and RX syntax	• C-c / e t • C-c / t	(rxt-toggle-elisp-rx)	Toggle the regexp near point between Elisp string and rx syntax.

Search & Replace — References

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Icide, etc.	Regular Expression Help @ EmacsWiki	Some quick info on Emacs regular expression syntax.
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requires Python installed.	visual-regexp	Useful library that provides commands to show regex matches in search and replace operations.
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	regex-tool	Tool using frame to test Emacs regular expressions.