Search and Replace

Description	<u>Keystroke</u>	Function	<u>Note</u>	
Emacs Search & Replace			acement mechanisms described in this table. It supports:	
O Help & Customize	Search a set of fill	es. See: <u>▼ Grep</u>	on-incremental search and replace in one or several buffers and files.	
Search settingsSearch pre-defined text	·	 Search a set of specified files in a directory. See <u>Dired</u> Search & replace in the files of a specific project. See <u>Projectile</u> 		
Non incremental searchWord search	With the <u>□ Xref</u> mechanisms, you can also jump to the definitions of code elements.			
combined balanced exp	Emacs provides its ov	Emacs provides its own regex search engine. Several external packages provide extensions:		
Incremental searchsymbol isearch	visual-regexp		when pel-use-visual-regexp is t.	
commands during isearchoccur search	visual-regexp		r while you type the regexp. It shows both the match in original text and its replacement. If when pel-use-visual-regexp-steroids is t. Allows other rexgexp engines: pcre2el and Python.	
 fuzzy search 		ing related external packages:		
<u>iedit mode</u><u>unconditional replace</u>		' ~	able when pel-use-cexp is t . See <u>example of using cexp to match balanced parenthesis</u>	
query replaceUsing Projectile	easy-escape (simplifies escaping) 🕍 availa	able when pel-use-easy-escape is t.	
 Interpret regexp with xr 	fzf.el uses fzf	command line utility avail	able when pel-use-fzf is t. Perform interactive fuzzy search. See fzf manual .	
 regexp lint Regular expressions syntax 	pcre2el (PC		able when pel-use-pcre2el is t	
regexp-tool,easy-escape, re-builder	xr (regexp par	ser & analyzer)	able when pel-use-xr is t	
PCRE support				
Last updated on:	2025-03-22			
Open this PDF file. See also: <u>∑ Help/Info</u>	<f11> s <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the <u>Search/Replace</u> local PDF. If the prefix argument (like C-u or M) 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	1 1	search tools that impact the way Search (which uses the C-s bind	the C-s command operates. PEL supports the following search tools: ding).	
See also:			set pel-use-anzu to t .	
• <u> \[\tilde{\su}\] Customize</u>			set pel-use-swiper to t	
			ze group that holds these user options. ect which search tool is used when Emacs starts.	
∑ Customize PEL basic	<f11> s <f2></f2></f11>	(pel-customize-pel	Customize PEL basic search support.	
search support S Customize PEL Regular	<f11> s x <f2></f2></f11>	&optional OTHER-WINDOW) (pel-customize-pel	When a prefix argument (like C-u) opens the buffer inside another window. Customize PEL regular expression tool support.	
Expression support	The following commar	&optional OTHER-WINDOW)	Select default regexp engine with pel-initial-regexp-engine user option.	
Customize Search Tools Customize Emacs basic	The following commands provide access to the custor <f11> s <f3> (pel-customize-library)</f3></f11>		nization groups that control the behaviour of the various search tools. Customize Emacs Search support: isearch, anzu, iedit, easy-escape, fzf, swiper.	
search mechanism Solutionize Emacs Regular	&optional OTHER-WINDOW) <f11> s x <f3> (pel-customize-library (</f3></f11>		Customize Emacs regular expression support: rxt, re-builder, visual-regex.	
Expression support		&optional OTHER-WINDOW) mands to show the currently ac		
Select Search Tool		-		
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</f11>	(pel-select-search-tool)	Prompt user for search tool to use with C-s . Show new active one.	
Emacs normally maps the isearch-forward command to C-s . PEL provides the ability to activate the following search extension minor modes:		·		
		 Manage of the strength of the str		
			e PEL search customize group and set pel-initial-search-tool user option to identify which tool is used	
	when Emacs starts. Searching using Emacs default ISearch and Swiper helps as they are both very useful in different scenarios.			
Select the search/replace	<f11> s S (pel-select-search-regexp- Select the search/replace and regexp engine to use. Shows currently used engine at the prompt.</f11>			
regexp engine	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	New line in search and replace: In Emacs search and replace queries use C-q C-j to identify newline characters. • Several editors use the C string syntax "\n" to identify the newline character. Emacs does not use it in search and replace queries.			
Control/Query how	Emacs searches are by			
Search Operates			ecified by search-upper-case user option variable. Detween words are considered unimportant.	
See also:	Emacs can also search	n for words and symbols. The co	oncept of "words" can be modified to include or exclude underscores and hyphens. It supports:	
• <u>I Text Modes</u>	C, C++, Erlang.		/ hyphen and underscores as a single entity, useful for programming languages using snake case like	
			<u>e</u> and <u>PascalCase</u> as distinct words. Useful when editing portions of these longer symbols. natically for various major modes by identifying the major modes in the following user options:	
	• pel-modes-activ	ating-superword-mode	,	
		rating-subword-mode ands control the various aspects of	of the search behaviour.	
Show how search behaves in	<f11> s m ?</f11>	(pel-show-search-case-	Display the search behaviour relative to: case handling, case folding, lax-whitespace and subword and superiors modes in the minibuffer. If too long look in the Message buffer.	
mini buffer		state)		
mini buffer Toggle search case sensitivity	<f11> s m f</f11>	(pel-toggle-case-fold-search)	Toggle value of case-fold-search variable.	
	<f11> s m f</f11>	(pel-toggle-case-fold-	Toggle value of case-fold-search variable. Toggle lax-whitespace searching on or off.	
Toggle search case sensitivity Toggle lax space searching	<f11> s m l</f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-whitespace)	Toggle lax-whitespace searching on or off.	
Toggle search case sensitivity	<f11> s m l</f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-	Toggle lax-whitespace searching on or off. Toggle case sensitivity behaviour of yank in search prompt. Rotates the value of search-upper-case to:	
Toggle search case sensitivity Toggle lax space searching Toggle case impact on search	<f11> s m l</f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-whitespace) (pel-toggle-search-upper-	Toggle lax-whitespace searching on or off. Toggle case sensitivity behaviour of yank in search prompt.	
Toggle search case sensitivity Toggle lax space searching Toggle case impact on search	<f11> s m l</f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-whitespace) (pel-toggle-search-upper-	Toggle lax-whitespace searching on or off. 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	
Toggle search case sensitivity Toggle lax space searching Toggle case impact on search	<f11> s m 1 <f11> s m u • <f11> t m b</f11></f11></f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-whitespace) (pel-toggle-search-upper-case) (subword-mode &optional	Toggle lax-whitespace searching on or off. 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: a minor mode that treats sections of camelCase and PascalCase as distinct	
Toggle search case sensitivity Toggle lax space searching Toggle case impact on search Toggle subword-mode	<f11> s m l <f11> s m u</f11></f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-whitespace) (pel-toggle-search-upper-case)	Toggle lax-whitespace searching on or off. 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: a minor mode that treats sections of camelCase and PascalCase as distinct words. • With prefix argument ARG, enable Subword mode if ARG is positive, disable it otherwise.	
Toggle search case sensitivity Toggle lax space searching Toggle case impact on search	<f11> s m l <f11> s m u • <f11> t m b • <f12> M-b</f12></f11></f11></f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-whitespace) (pel-toggle-search-upper-case) (subword-mode &optional	Toggle lax-whitespace searching on or off. 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: a minor mode that treats sections of camelCase and PascalCase as distinct words.	
Toggle search case sensitivity Toggle lax space searching Toggle case impact on search Toggle subword-mode See also: Toggle superword-mode	<f11> s m l <f11> s m u • <f11> t m b • <f12> M-b • M-<f12> M-b</f12></f12></f11></f11></f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-whitespace) (pel-toggle-search-upper-case) (subword-mode &optional ARG)	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: a minor mode that treats sections of camelCase and PascalCase 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 camelCase and PascalCase are popular. Toggle superword-mode: a minor mode that treats snake-case as one word. In Lisp, '-' and '_' are</f12>	
Toggle search case sensitivity Toggle lax space searching Toggle case impact on search Toggle subword-mode See also: Text Modes	<f11> s m l <f11> s m u • <f11> t m b • <f12> M-b • M-<f12> M-b</f12></f12></f11></f11></f11>	(pel-toggle-case-fold-search) (isearch-toggle-lax-whitespace) (pel-toggle-search-upper-case) (subword-mode &optional ARG)	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: a minor mode that treats sections of camelCase and PascalCase 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 camelCase and PascalCase are popular.</f12>	

Description Specialized Search/Move	Keystroke PEL provides a set of o	Function convenience/specialized search	Note
Specialized Search/Move See also: Navigation	PEL provides a set of c	onvenience/specialized search/	/navigation commands that move to pre-defined searched strings.
Move point to next/previous two consecutive spaces	• <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.
Move point to next/previous empty line	• <f11> s RET • M-g M-RET</f11>	(pel-search-empty-line BACKWARDS)	Move point forward to the next empty line. • With any argument: move backward to previous empty line.
Non-Incremental Search	The normal (non-incremental) search can be performed using the commands and keystrokes listed below. • They can also be invoked by typing RET right after the 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 w . • M-<f5> • <u>.;</u></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 w . or M-6 M-<f5> With PEL, the .; key-chord is available when pel-use-key-chord is non-nil. Command numeric prefix is available with the key-chord binding. See Key-Chords</f5></f11>
**	! Inside keyboard ma	cros the key chords do not wor	k well. Use the <f11> s w . or the M-<f5> keystroke when recording keyboard macros.</f5></f11>
See also: • ∑ Key-Chords • ∑ 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: • Captures string searched: • allow repeating that search with C-s or C-r	• 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 4 := 'left 5 := 'current 6 := 'right 2 := 'down		
Search forward Basic forward search:		board macros: a keyboard mac (search-forward STRING &optional BOUND	le window, 2) Throw an error signal (flash or beep depending on setting): this allows using this ro with it will be interrupted on failed search. Search forward from point for STRING. Lax Search is not supported. • Set point to the beginning of the occurrence found.
repeat using: <f5><up></up></f5>		NOERROR COUNT)	Search case-sensitivity is determined by the value of the variable 'case-fold-search'.
Search backwardBasic backward search:repeat using: <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'.
Search 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 regxp search repeat using prompt history	• <f11> s x b • M-R</f11>	(re-search-backward REGEXP &optional BOUND NOERROR COUNT)	Search backward from point for regular expression REGEXP. • Search case-sensitivity is determined by the value of the variable 'case-fold-search'.
Word Search	The word search cor	nmands do not perform charac	I and for the type of punctuation between them. ter folding and toggling lax whitespace matching have no effect on them. eed on incomplete words, they are listed below.
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 forward • Basic 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)
Combined expression regex search	<f11> s c</f11>	(cexp-search-forward CEXP &optional BOUND NOERROR COUNT)	Search for combined regular and balanced expression CEXP. • 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 package. → PEL download & activates it when pel-use-cexp useroption is t. See example of using cexp to match balanced parenthesis on StackExchange

Description	<u>Keystroke</u>	Function	<u>Note</u>	
Incremental Search (ISearch) See also: You have no idea how powerful search is! Customize	search. Re-type same letext. To reverse search Type RET to stop sea also perform the requestance to the Abandon search (and On search exit, original Company C	an incremental search with one of the following commands. Type text to search, < DEL> to remove chars. Other key-chords can be used during the h. Re-type same key-chord after reaching end of buffer, wrap to other end and continue searching. Or repeat key-chord to repeat last search for same To reverse search direction, use the other key-chord (for example: if searching with C-s , use C-r to go backward) The RET to stop search and leave cursor at found position if next command is to insert a character. Other editing key-chords also stop the search but to perform the requested operation (like C-a which ends the search and moves point to the beginning of the line). The analysis of the search and return to where you started, type <esc><esc></esc></esc> or C-g C-g . The arch exit, original point is added to mark ring, thus you can use C-u C-SPC or C-x C-x to return to the position before the search. The arch exit original point is added to isearch-forward. With PEL you can set the pel-use-swiper user option which activates the <u>Swiper external package</u> and <f11></f11> see key. That key allows you to change what command is mapped to C-s : search-forward or swiper. You can specify which one is by default via the pel-initial-search-tool user option. Use <f11></f11> see 152> to customize PEL controlled search.		
Showing match count →			ption to t to show match count during isearch. The Anzu watare by pel-use-anzu does = 27 PEL automatically activates isearch-lazy-count when pel-use-anzu is nil.	
Incremental Iteral search regexp search Captures string searched, search again with c-s or c-r	• C-u 1 C-s • C-u C-s does no	or M C-s or, wit	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 search operations. expression search instead, something like: h PEL, C C-s works. earch. Instead you can also use C-M-s to perform the regexp incremental search forward.</f11>	
	To change direction: ##-f is always mapp	type C-r. To repeat last comp	gain (with prefix argument if that was used for regexp Isearch). leted incremental search forward: C-s C-s s the match count.	
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 to change the tool used for search operations.	
	 Select with C-n, C-1 Chose (and stop the 	o, <up> and <down>. search) with RET.</down></up>	in the search expression. So: type "fooulbar" to search for "fooubar".	
ISearch - backward 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 	C-u 1 C-r M C-s With PEL, C C-r works. C-u C-r does not work to perform a regexp ISearch. Instead you can also use C-M-r to perform the regexp incremental search forward. To continue to next match during search: type C-r again (with prefix argument if that was used for regexp Isearch. To change direction: type C-s. To repeat last previously completed incremental search backward: C-r C-r		earch. regexp incremental search forward. gain (with prefix argument if that was used for regexp Isearch.	
ISearch - Regexp - forward Incremental regexp search	C-M-s	(isearch-forward-regexp &optional NOT-REGEXP NO- RECURSIVE-EDIT)	Incremental forward regular expression search. F 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. F Everything that can be done with C-r can also be done here. For example repeating the search can be done with C-r.	
Incremental	C-M-r <f11> s x C-s</f11>	&optional NOT-REGEXP NO-	► Everything that can be done with C-r can also be done here. For example repeating the	
Incremental regexp search Visual Regexp ISearch with		&optional NOT-REGEXP NO- RECURSIVE-EDIT)	 ▼ Everything that can be done with C-r can also be done here. For example repeating the search can be done with C-r. Like isearch-forward, but using Python (or custom) regular expressions. 	
Incremental regexp search Visual Regexp ISearch with Python regexp engine Visual Regexp backward ISearch with Python regexp	<f11> s x C-s <f11> s x C-r Incremental symbol semode). Only complete</f11></f11>	&optional NOT-REGEXP NO- RECURSIVE-EDIT) (vr/isearch-forward) (vr/isearch-backward) arch is like incremental search ematch will be found. For exam	 ▶ Everything that can be done with C-r can also be done here. For example repeating the search can be done with C-r. Like isearch-forward, but using Python (or custom) regular expressions. ▶ Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t. Like isearch-backward, but using Python (or custom) regular expressions. 	
Incremental regexp search Visual Regexp ISearch with Python regexp engine Visual Regexp backward ISearch with Python regexp engine Incremental Symbol	<f11> s x C-s <f11> s x C-r Incremental symbol semode). Only complete</f11></f11>	&optional NOT-REGEXP NO- RECURSIVE-EDIT) (vr/isearch-forward) (vr/isearch-backward) arch is like incremental search ematch will be found. For exam	 ▶ Everything that can be done with C-r can also be done here. For example repeating the search can be done with C-r. Like isearch-forward, but using Python (or custom) regular expressions. ▶ Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t. Like isearch-backward, but using Python (or custom) regular expressions. ▶ Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t. Except that the boundaries of the search must match the boundaries of a symbol (for the buffers' major ple searching for forward-word in a Lisp file will not match isearch-forward-word. 	
Incremental regexp search Visual Regexp ISearch with Python regexp engine Visual Regexp backward ISearch with Python regexp engine Incremental Symbol Search ISearch symbol at point Grab word at point with c-w Captures string searched,	<f11> s x C-s <f11> s x C-r Incremental symbol semode). Only complete Note: slaso see the co</f11></f11>	&optional NOT-REGEXP NO-RECURSIVE-EDIT) (vr/isearch-forward) (vr/isearch-backward) arch is like incremental search ematch will be found. For examommand described above: pei (isearch-forward-symbol-	 ▶ Everything that can be done with C-r can also be done here. For example repeating the search can be done with C-r. Like isearch-forward, but using Python (or custom) regular expressions. ▶ Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t. Like isearch-backward, but using Python (or custom) regular expressions. ▶ Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t. Except that the boundaries of the search must match the boundaries of a symbol (for the buffers' major pole searching for forward-word in a Lisp file will not match isearch-forward-word. -search-word-from-top, bound to <f11> s.</f11> 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. 	
Incremental regexp search Visual Regexp ISearch with Python regexp engine Visual Regexp backward ISearch with Python regexp engine Incremental Symbol Search ISearch symbol at point Grab word at point with c-w Captures string searched, search again with c-s or c-r ISearch for symbol Grab word at point with c-w Captures string searched,	<f11> s x C-s <f11> s x C-r Incremental symbol semode). Only complete Note: also see the complete Note: also see</f11></f11>	&optional NOT-REGEXP NO-RECURSIVE-EDIT) (vr/isearch-forward) (vr/isearch-backward) arch is like incremental search ematch will be found. For examommand described above: pei (isearch-forward-symbol-at-point) (isearch-forward-symbol & optional NOT-SYMBOL	F Everything that can be done with C−r can also be done here. For example repeating the search can be done with C−r. Like isearch-forward, but using Python (or custom) regular expressions. Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t. Like isearch-backward, but using Python (or custom) regular expressions. Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t. Except that the boundaries of the search must match the boundaries of a symbol (for the buffers' major ple searching for forward-word in a Lisp file will not match isearch-forward-word. -search-word-from-top, bound to <f11> s . Perform a symbol search starting with current symbol at point. After capturing the word at point you can extend it by typing C-w. Use C-s and/or C-r to perform extra searches on the same symbol. 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-</f11>	
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(describe-mode &optional BUFFER)

(isearch-repeat-forward)

Show isearch command information

repeat search forward

Repeat/reverse

• C-h m • <f1> m

• C-s • %-g

Repeat last search, reverse the direction.

Show information about the currently used interactive search command. That also lists some of the key bindings.

Repeat the current search, start searching again going forward

	<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
	repeat search backward	• C-r • %-d	(isearch-repeat-backward)	Repeat the current search, start searching again going backward
	Select iSearched string	While performing a sear	rch you can issue the following	commands to modify the searched string text.
	History previous	м-р	(isearch-ring-retreat)	Retrieve searched text from search history: get previous entry from history
S	History next	M-n	(isearch-ring-advance)	Retrieve searched text from search history: get next entry from history
Е	"tab" complete history in buffer	• C-M-i • M- <tab></tab>	(isearch-complete)	Perform "tab" completion for search item in the minibuffer against the search history. Opens a buffer with the complete search history. Any one of the past search string can be selected to perform the
A R C	Edit search string	м-е	(isearch-edit-string)	new search. 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 editing of the searched string.
Н	Add broken 10 comb	Mile it - or of some in the		 Edit then search string in minibuffer. End editing with RET, C-j, C-s or C-r
C	Add text to iSearch Add rest of line at point to search string	M-s C-e	(isearch-yank-line &optional ARG)	commands to modify the searched string text, grabbing text from current location. 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.
M	Add word at point to search string	C-w	(isearch-yank-word-or- char)	Appends the next character or word at point to the search string. • Repeat it to append more to the search string.
M A	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.
N	Add killed text to search	While performing a sear	rch you can issue the following	commands to modify the searched string text, grabbing it from the kill ring.
D S	Yank from kill ring to search string	• C-y • %-e	(isearch-yank-kill)	Pull string from kill ring into search string.
	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.
	iSearch first/last			earch for the first or last string in the buffer. 1-allow-motion ' instead of these 2 commands. See below.
	Go to first occurrence in buffer (Emacs >= 27.1)	M-s M-<	(isearch-beginning-of- buffer &optional ARG)	Go to the first occurrence of the current search string. • Move point to the beginning of the buffer and search forwards from the top. • With a numeric argument, go to the ARGth absolute occurrence counting from the beginning of the buffer. To find the next relative occurrence forwards, type C - s with a numeric argument.
	Go to last occurrence in buffer (Emacs >= 27.1)	M-s M->	(isearch-end-of-buffer &optional ARG)	Go to the last occurrence of the current search string. • Move point to the end of the buffer and search backwards from the bottom. • With a numeric argument, go to the ARGth absolute occurrence counting from the end of the buffer. To find the next relative occurrence backwards, type C-r with a numeric argument.
	iSearch Motion (Emacs >= 28.1)	These include the abov	e 2 commands plus 2 more. Th	user-option set to 1 (on), you can use the following single keys to perform quick navigation searches. usese commands, however, do not accept arguments like their counterparts above. er-option set to t (on) for Emacs >= 28. Since this simplifies navigation.
	Go to first occurrence in buffer (Emacs >= 28.1)	M-<	(beginning-of-buffer)	Go to the first occurrence of the current search string. • Move point to the beginning of the buffer and search forwards from the top.
	Go to last occurrence in buffer (Emacs >= 28.1)	M->	(end-of-buffer)	Go to the last occurrence of the current search string. • Move point to the end of the buffer and search backwards from the bottom.
	Go to previous occurrence in previous window portion of buffer (Emacs >= 28.1)	• M-v • <pgup></pgup>	(scroll-down-command)	Go to the previous occurrence of the current search string located in the currently non-visible part of the buffer: in the previous <i>window</i> portion of the buffer.
	Go to next occurrence in next window portion of buffer (Emacs >= 28.1)	• C-v • <pgdn></pgdn>	(scroll-up-command)	Go to the next occurrence of the current search string located in the currently non-visible part of the buffer: in the next <i>window</i> portion of the buffer.
	Modify iSearch mode	While performing a isea	rch the following commands m	odify the search modes.
	Toggle lax whitespace matching	M-s SPC	(isearch-toggle-lax- whitespace)	Toggle lax matching during this search. Lax matching is on by default. • 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).
	Use occur search	While performing isearc	h you can start an occur search	n for it.
	Enter occur search: list all occurrences	M-s o	(isearch-occur REGEXP &optional NLINES)	Start an "occur" search with current search string. • See "M-s o" row above for more information.
	Start query replace	While performing a isea	rch the following commands st	art a query replace.
	Start query replace	M-%	(isearch-query-replace &optional ARG REGEXP- FLAG)	Transforms the Search into a query replace, using the current string as the string to be replaced. You can repeat the middle command to include several chars, words or lines. It is replace char at point, do: C-s, C-M-y then M-% To replace word at point, do: C-s, C-w then M-% To replace line at point, do: C-s, C-y then M-% When prompted for replacement, M-p retrieves the original text that you can then modify.
	Start query replace regexp	• C-M-% • <f11> s x i • C-c Q</f11>	(isearch-query-replace- regexp &optional ARG)	Transforms the Search into a regex query replace, using the current string as the regex string to be replaced. SPEL provides direct access to the command via <f11> s x i. • If pel-bind-keys-for-regexp user-option is t, PEL adds the C-c Q key binding.</f11>

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>	
Occur Search ★★			supports the following commands: arched buffer C-c C-c Visit corresponding position in searched buffer.	
See: Searching & Editing in Buffers with Occur Mode	• C-o displa	C-o display the match in other window (but does not select it)		
All occur searches are done	• n,p Next			
in buffers , not files! ★★ Edit source buffer	• e buffe	r enters the Occur Edit Mode v	which allows edits in both buffers simultaneously via edits in the *Occur* buffer.	
* Edit Source buller	 g revert the buffer, refreshing the search results q Quit occur search: close *Occur* buffer. list-matching-lines-default-context-lines user-option controls the # of contextual lines around the match 			
List all matching occurrences of regexp in current buffer	M-s o	(occur REGEXP &optional NLINES)	 Prompts for a regexp to search. Use numeric prefix to specify n lines of context in result (defaults to list-matching-lines-default-context-lines 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 M-s /</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 all buffers of same mode	• <f11> s M-o • M-s m</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	
Occur search in all buffers visiting files (or all buffers)	M-s /	(pel-multi-occur-in-all REGEXP &optional ALL)	Perform an occur search in all file-visiting buffers. • With a prefix argument (such as C-u or any numeric argument) search all buffers.	
Search for occurrence of text in <u>E Projectile</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	ccurrences 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	The fzf command line	utility is a very fast fuzzy file fin	nder that can be used within Emacs via the <u>fzf.el</u> emacs front-end. It can be used with grep, <u>ripgrep</u>	
See: <u>Sele-mngt</u> , fzf manual, fzf search syntax	other search tools. To u	use it inside Emacs, you must:	and 2) We use the fzf.el external package	
Search current buffer with fzf	<f11> s z</f11>	(fzf-find-in-buffer)	Fuzzy search the current file-visiting buffer. Move point to the selected line.	
		1		
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 in 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 of the <tab></tab>tab> , <backtab></backtab> and M- ; keys by M-S-<fx></fx> function key bindings.		ent key bindings for some keys whose global mode meaning is sometimes useful when point is inside key bindings use key bindings that require holding the Meta and the Shift keys, PEL replaces the use	
Toggle iedit mode	• C-;	(iedit-mode &optional ARG)	Toggle iEdit mode: edit all symbols in scope or region simultaneously. When turning it on:	
See also: • <u>\(\tilde{\tilde{\tilde{L}}} \tilde{\tilde{Cursor}} \) • <u>\(\tilde{\tilde{L}} \tilde{\tilde{Highlight}} \)</u></u>	• <f11> e • <f11> h i • <f11> m i</f11></f11></f11>		 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. 	
Select only current function			• If region is active, highlight symbols inside region only. With C-u prefix: outside of region	
occurrences with numerical prefix 0	With iEdit mode, all the change are propagate.	the occurrences of the current reted to all other occurrences similar	e mark, point, prefix argument and variable 'iedit-transient-mark-sensitive'. egiorn in the buffer (possibly narrowed) or a region are highlighted. If one occurrence is modified, the ultaneously. alled to get an occurrence candidate, according to the thing at point. It might be url, email address,	
	markup tag or currer Can switch iEdit mod	nt symbol(or word). de from isearch mode directly. ⁻	The current search string is used as occurrence. Highlights all current search string occurrences.	
	to recover last iEdit r • With repeated univer active, iEdit mode is	mode which is turned off. If regions real prefix argument, the occurred 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 behave serves as a start point of incremental selection work flow. iedit does not properly disable iedit-mode restoration when desktop is restoring previous session. See See iedit bug #115, and my fix for this. 			
See <u>E Key-Chords</u>	iedit-mode may bre	eak key-chords commands from	a fix to ensure that iedit-mode restoration is not done during a desktop restoration. 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	A Both iEdit and Flyspell use the C-; key as their default binding. PEL detects and reports that situation. With point over text highlighted by iedit-mode, some extra key binding are activated, like the <f11> <f2> and the <f11> <f3> below, that open customization buffer for the PEL control of iedit-mode 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	Use the following comm		commands available when the edit-minor mode is active.	
Show edit-mode help	<f1> <f1></f1></f1>	(iedit-help-for-help)	Display iedit help menu. Use b to show all edit-mode key binding or m for complete help.	
Show keys used to modify occurrences	• C-? • <f1> <f2></f2></f1>	(iedit-help-for-occurrences)	Display a short message showing the key bindings for edit commands used to modify the occurence text.	
Show/hide occurence lines.	• C-" • C-c C-o	(iedit-show/hide- occurrence-lines)	Show or hide occurrence lines using invisible overlay.	

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
iedit-mode navigation		nands to move point to other or	
			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. 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 comr	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 comr	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.
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 com	mands. These commands are a	vailable over a highlighted occurrence.
Buffering	м-в	(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	м-м	(iedit-switch-to-mc-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. 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.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Unconditional Replace	Non-interactive text rep	placement commands.	
<u>Unconditional replace</u>	<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) (vr/select-replace)	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. 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.</f11>
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)	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>E Cursor</u>	• <f11> s x M • C-c m</f11>	(vr/mc-mark REGEXP START END) Requires both visual-regexp and multiple-cursors external packages.	 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	mpts. The following 2 comman	nds 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: Dired	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	• y or SPC • n or • . • . • . • . • ! • . • 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 : skip to next buffer without replacing remaining matches in current buffer — Multi buffer QR Response.	

Description	<u>Keystroke</u>	Function	<u>Note</u>
Using <u>∞ Projectile</u>		mmands Projectile mode must key sequence: <f11> <f8></f8></f11>	be activated first. A PEL provides the following key binding to do it when pel-use-projectile user <f8></f8>
Search in Project Using <u>▼ 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. 		lowing recursive-grep like search tools, they are listed starting on the second row. That may be useful when looking for unsaved buffers or for special buffers. command line utilities that must have been installed separately: ripgrep and ag.
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 for navigation.
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	<f8> s r</f8>	(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 expression. • Requires the projectile, ripgrep.el external packages as well as the ripgrep command line utility. • PEL activates this command when pel-use-projectile is non-nil. But to make it work you must
<u>syntax</u>			also set pel-use-ripgrep to t . Also note that the <u>ripgrep</u> command line utility must be installed manually.
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	e 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 described The <u>rx Emacs Lis</u> PEL provides <u>xr</u>, a r 	bed below require the <u>xr</u> extern <u>p macro</u> can be used in Emacs	terprets Emacs Lisp regexp and prints a descriptive rx-style semantic form to explain it. It package activated when the pel-use-xr user option is set to t. Is 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 regexp at 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	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 q to re-run the same checks.		
See also: <u>∦⊉l - Emacs Lisp</u>			ar expressions using Emacs batch invocation. Is and activates it when the pel-use-relint user-option is set to t.
Lint regular expressions in current buffer	<f11> s x M-l b</f11>	(relint-current-buffer)	Scan the current buffer for regexp errors. The buffer must be in emacs-lisp-mode.
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.

Function Description Keystroke Note The following rows describe Emacs regular expressions (which differ from other styles of regex) and tools to try them out. **Emacs Regexp Syntax Emacs Regular expression** Special characters: .*+?[^\$\ **Boundary anchors:** : beginning of {line, string, buffer}. Can be used at the beginning of the regexp or after $\$ or $\$ Backslash constructs (elisp)Backslash constructs end of {line, string, buffer} \$ `\` \' : beginning of {string, buffer} (emacs) : end of {string, buffer} ! Of the above 2 manuals, the \= \b : match empty string, but only at point. (This construct is not defined when matching against a string.) Elisp manual is more complete. The Emacs manual does not : word boundary marker **\B** : not word boundary marker describe all available syntax. • \w : any word character. Alternative: [[:word:]] : any non-word character. Alternative: [^[:word:]] Basic: : (a period) any single character except newline. To search for any character including newline use: [^\0] ٠ ١. • \ : either quotes a special character (such as \$) or introduces special construct (see below). • 1 <u>Alternative</u> **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) Character alternative sets and Character Classes: 🛕 character classes like [:alpha:] must be used within a character alternative set. 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). $\textbf{Inside alternative sets} \ \text{the following characters or expressions can be used:} \\$: complements the set (ie: means that we want to match anything but what is in the set. · [:C:] : character class C, where C can be any of the following (eg. [[:alnum:]]): • alnum any letter or digit • alpha : any letter any of the 127 ASCII characters • ascii • blank : horizontal whitespace: a space or tab character any ASCII control character cntrl • digit : any digit character, same as [0-9]. [-+[:digit:]] matches any digit as well as '+' and '-'. • graph : any graphic character; everything except whitespace, ASCII and non-ASCII control characters, surrogates and code points unassigned by Unicode. : lower-case letters. If case-fold-search is non-nil it also matches upper-case letters. • lower Use <**f11>** s m f to toggle the value of this variable. • multibyte : any multi-byte character. nonascii : matches any non-ASCII character • print : matches any printing character, either whitespace, or graphic character matched by [:graph:] • punct any punctuation character. For multibyte character matches anything that has non-word syntax. any character that has whitespace syntax. Note that syntax depends on the major mode. space unibyte : any unibyte character : any upper-case letter, as determined by the current <u>case table</u>. If case-fold-search is non-nil, it also matches any lower-case letter! · upper : any character that has word syntax. : the hexadecimal digits: '0' through '9', 'a' through 'f' and 'A' through 'F'. xdigit · Special Characters: : Match any character whose syntax table code is C. • \sC • \sc : Match any character whose syntax table code is not C. The syntax table code C cab be one of: : any whitespace : space, newline, tab, carriage return, formfeed, backspace SPC or -: word constituents: normally all upper- and lower-case letters, and digits. : symbol constituents: extra characters used in variable, function, command names. 🤞 Use **describe-syntax** to see punctuation characters. There is none in Lisp. C has some. : matches the open "parens" characters identified by the syntax-table of the buffer major-mode: typically: '('. '{'}. ...' a description of the syntax-table of the current buffer. : matches the close "parens" characters identified by the syntax-table of the buffer major-mode; typically: '), '}', ']',...) See: <u>∑ Help/Info</u> : string quotes. 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. Syntax Flags : escape-syntax characters : character quotes • < : comment starters : comment enders generic comment delimiters : generic string delimiters Some of the <u>category</u> chars: \mathbf{a} : ASCII, $\dot{\mathbf{b}}$: arabic, \mathbf{c} : chinese, \mathbf{g} : greek, \mathbf{I} : latin · \cC : Match any character whose category is C. • \cC : Match any character whose category is not c. **Grouping:** • \(... \) : Capturing group
• \(?: ... \) : Shy, non-capturing group, which cannot be referred to with \1 to \9. Is not counted in the group numbers
• \(?num: ... \): Explictly numbered capturing group. No restriction on numbering. Several groups can have the same number, the last match wins. See Also (elisp): Backslash constructs Match Data Replacing matched text Simple Match Data \#1 to \#9 : Insert text from group \N but cast as an integer (only useful in lisp forms) Other: <u>Access</u> · \? : prompt for user input Access Entire Match inserts a number incremented from 0 Data Saving/Restoring Match ۱& : insert whole match string • \,(form ...) : uses an Emacs Lisp form with arguments. Use elisp form that take and return strings, such in the following examples: Data \,(upcase \2)
\,(format "%.2f" \#3)
: uppercase capturing group 2
: 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 basic char syntax: 🤞 When typing a regexp in read-syntax inside Elisp code string, you can represent the newline character with the 🖍 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 Emacs basic char syntax: \a, \b, \t, \n, \v, \f, \r, and \e Unavailable sequences: ⚠ The following do NOT work in Emacs, but there are alternatives, see above. : any digit Alternative: [[:digit:]] \d : any non digit character. Alternative: [^[:digit:]]

<u>Description</u>	Keystroke	Function	Note .		
Toggle easy-escape minor node	<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 ctrings		e Github page for more informa	as a single fontified using 'easy-escape-face' and composed into 'easy-escape-character'. ation and an example, which includes:		
	• "[\\t\\n]" \(\t\\n]"				
	You can also identif		PEL activates when the pel-use-easy-escape is set to t . ated automatically by setting the pel-modes-activating-easy-escape user-option.		
	If you find the distinction between the fontified double-slash and the single slash too subtle, try the following, customizing the following user-options in the easy-escape customization group (with PEL use <f11> s <f3> 4 to open the easy-escape customization group):</f3></f11>				
	Adjust the foregreen	omization group (with PEL use < ound of 'easy-escape-face' e-character' to a different chara			
Regex-tool			e regular expression tester tool. PEL activates it when pel-use-regex-tool is t.		
	The regex-tool uses	Emacs Lisp regular expressions	s 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.		
pen 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 		
orce an update of regex-tool vindows	C-c C-c	(regex-tool-markup-text &optional BEG END LEN)	Force an update of the regex-tool windows.		
uit 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 eackend engine - select	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.		
etween Emacs and Perl.			 To close the customize buffer, type q. C-c C-c forces an update of the regex-tool to rescan using the new backend. 		
<u>re-builder</u> :			gular Expression Builder, targeted to learn the Emacs regular expression syntax.		
Emacs Regular	While the re builder	is running:	re-builder. PEL provides the <f11> s x B key for that.</f11>		
Expression Builder	if needed, change		matches in the other window, (Emacs supports 3 syntaxes, see below):		
	With PEL, you use one of the sp		to quickly open the customize page to change the default syntax user option. In 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.		
builder			 This command makes the current buffer the "target" buffer of the regexp builder. It displays 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 be 		
d This is a great way to			highlighted. dre-builder supports different styles of regular expressions, selected by the value of the reb-re-		
learn Emacs regexp!			 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\\)" 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 engine. 		
Customize re-builder	<f11> s x M-B</f11>	(pel-reb-re-syntax)	Select regular expression syntax used by the re-builder:		
regular expression syntax			 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	Change the target buffer and display it in the target window.		
Enter/leave sub-	С-с С-е	(reb-enter-subexp-mode)	Enter the subexpression mode in the RE Builder.		
expression highlight mode			 Use this to only highlight the capturing groups. 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	C-c C-u	(reb-force-update)	Force an update in the RE Builder target window without a match limit.		
Copy Regular Expression to kill ring.	C-c C-w	(reb-copy)	Copy current RE into the kill ring for later insertion. d It also converts (where applicable) the expression to a string format suitable for use in Emacs Lis 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 readsyntax, 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 a 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	<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'.		
string at point.			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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
			• Example 2: when typing: \(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" 		

Description	Keystroke	Function	<u>Note</u>
PCRE support: pcre2el	PCRE (Perl Compatible Regular Expressions) is a popular regex syntax. This requires the pcre2el external package. It is available when pel-use-pcre2el is t. The pcre2el package provides the rxt-mode (RegeXp Translator or RegeXp Tools). According to its documentation the pcre2el package provides the following features: convert Emacs syntax to PCRE convert either syntax to rx, an S-expression based regexp syntax untangle complex regexps by showing the parse tree in rx form and highlighting the corresponding chunks of code show the complete list of strings (productions) matching a regexp, provided the list is finite provide live font-locking of regexp syntax (so far only for Elisp buffers – other modes on the TODO list) This provides the commands listed below.		
In pcre-mode regexp use the PCRE syntax. Experimental function and experimental binding until it gets integrated better in PEL.	<f11> s x P</f11>	(pcre-mode &optional ARG)	Use emulated PCRE syntax for regexps wherever possible. 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.
pcre2el rxt-mode	You may want to atThat can be done	utomatically activate the rxt-mo by customization. With PEL us rxt-mode to the list of minor m	cal, buffer to activate the various commands that use the C-c / key prefix. bude for Perl buffers. (See NL - Perl). se the <f12> <f2> key sequence to open the PEL customization for the current major mode. nodes identified by the pel-cperl-activates-minor-modes to automatically activate rxt-mode in Perl</f2></f12>
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.
Do what I mean commands	The following comman	ds try to detect what regexp sy	ntax to use based on the current major mode.
Explains regexp at point	C-c / /	(rxt-explain)	Pop up a buffer with pretty-printed 'rx' syntax for the regex in marked area. Prompts for one if nothing currently marked. • 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 'rxt-elisp-to-pcre' and 'rxt-pcre-to-elisp' 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.
Commands that work on PCRE regexp	The following commands take a PCRE regexp.		
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.
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.
Translate PCRE regexp to RX syntax	С-с / р ж	(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.
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.
Commands that work on Emacs regexp	The following comman	ds take a Emacs regexp.	
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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Tool using frame to test Emacs regular expressions.	visual-regexp-steroid	
	regex-tool	Tool using frame to test Emacs regular expressions.