Search and Replace

		Search and no		
Description	Keystroke	Function	Note	
Control/Query how Search Operates	"lax space matching": Emacs can also search fo superword mode, useful f as distinct words	nsensitive searches. As specified by sea where number of spaces between word r words and symbols, and the concept	Is are considered unimportant. of "words" can be modified to include or exclude underscores and hyphen <u>case</u> a lot and subword mode that treats sections of <u>camelCase</u> and <u>PascalCase</u>	
Show how search behaves in mini buffer	<f11> s m ?</f11>	(pel-show-search-case-state)	Display the search behaviour relative to: case handling, case folding, lax-whitespace and subword and superiors modes in the minibuffer.	
Toggle search case sensitivity	<f11> s m f</f11>	(pel-toggle-case-fold-search)	Toggle value of case-fold-search variable.	
Toggle lax space searching	<f11> s m 1</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, and lower case text when yank in search minibuffer.	
Toggle subword-mode	• <f11> t m b</f11>	(subword-mode &optional ARG)	Toggle subword-mode: a minor mode that treats sections of <u>camelCase</u> and	
(See also: ∑ Text Modes)	• <f12> M-b • <m-f12> M-b</m-f12></f12>		 PascalCase as distinct words. With a prefix argument ARG, enable Subword mode if ARG is positive, and disable it otherwise. PEL provides the <f12> M-b key for the programming language modes where camelCase and PascalCase are popular.</f12> 	
Toggle superword-mode	• <f11> t m p</f11>	(superword-mode &optional ARG)	Toggle superword-mode: a minor mode that treats snake case as one word. In Lisp, '-' and '_' are treated part of words.	
(See also: ∑ Text Modes)	• <f12> M-p • <m-f12> M-p</m-f12></f12>		 With a prefix argument ARG, enable Superword mode if ARG is positive, and disable it otherwise. PEL provides the <f12> M-p key for the programming language modes where snake case is popular (Emacs Lisp, C, C++, Erlang, Python, etc)</f12> 	
Search Tools Selection	PEL supports several sea • Emacs' default ISear		command operates. PEL supports the following search tools:	
(See also: ∑ Customize)	• ▶ Anzu, ISearch with match count • ▶ Swiper search with overview match list • ▶ Swiper search with overview			
			 Emacs normally maps the search-forward command to C-s. 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 modeline when search command is used. The Swiper external package activated by pel-use-swiper user option. Swiper is not using isarch-forward; it shows a list of matching lines in the mini-buffer. Use the <f11> <f1> s 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.</f1></f11> Being able to search using either Emacs default ISearch (see below) and Swiper helps as they are both very useful in different scenarios. 	
Show which search tool is currently used	<f11> ? s</f11>	(pel-show-active-search-tool)	Display the currently used search tool.	
newlines in search and replace	New line in search and replace: Several editors use the C string syntax "\n" to identify the newline character. Emacs does not use it in search and replace queries. In Emacs search and replace queries use C-q C-j to identify newline characters.			
Non-Incremental Search			commands and keystrokes listed below. ation of the incremental search commands (see below).	
Search for word taken at point from the top of current or specified window (See also: ∑ Key-Chords) Note: • Captures string searched, • search again with C-s or C-r	• <f11> s . • :i</f11>	(pel-search-word-from-top &optional N)	Search word at point from top/bottom of buffer in window identified by N. • Search direction: • If N is nil, 0 or larger, perform a search-forward from the top of the buffer in window identified by N. • If N is negative: perform a isearch-backward from the bottom of the buffer 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 4 := 'left 5 := 'current 6 := 'right 2 := 'down • Temporary word mode toggle: detecting a 'word' is affected by the subword-mode and superword-mode. When searching in current buffer, the following values of N temporary toggle the mode when grabbing the word: • If N is 7: temporary toggle subword-mode to grab the word. • If N is 9: temporary toggle superword-mode to grab the word. • 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. • Using superword-mode allows you to search for function names in buffer for programming languages. If you do not want to change the mode but want to search for the word as interpreted by the other state of the mode type the command with N equal to 9: M-9 <fil> file > M-9 <fil></fil></fil>	

Description	Keystroke	Function	Note
Search forward • Basic 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 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.
Search regexp forward • Basic 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'.
• Basic search: • repeat using prompt history	<f11> s x b</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 comm	quence of words without regard for the type nands do not perform character folding and ax" word searches that succeed on incomp	toggling lax whitespace matching have no effect on them.
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></ret>	(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></ret>	(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)	during the search. Re-typ last search for same text. Type <ret> to stop search but also perform Abandon search (and ron search exit, original pose control of the control</ret>	e same key-chord after reaching end of buf To reverse search direction, use the other earch and leave cursor at found position if n in the requested operation (like C-a which e eturn to where you started, type <esc><e added="" allows="" bint="" can="" change<="" is="" isearch-forward.="" key="" key.="" mapped="" mark="" pel="" ring,="" s="" td="" that="" thus="" to="" use="" with="" you=""><td>pe text to search, to remove chars. Other key-chords can be used fer, wrap to other end and continue searching. Or repeat key-chord to repeat key-chord (for example: if searching with C-s, use C-r to go backward) ext command is to insert a character. Other editing key-chords also stop the ends the search and moves point to the beginning of the line). SC><esc> or C-g C-g. C-u C-SPC or C-x C-x to return to the position before the search. can set the pel-use-swiper user option which activates the <u>Swiper external</u> what command is mapped to C-s: search-forward or swiper. You can specify ion. Use <f11></f11> <f1></f1> s to customize PEL controlled search.</esc></td></e></esc>	pe text to search, to remove chars. Other key-chords can be used fer, wrap to other end and continue searching. Or repeat key-chord to repeat key-chord (for example: if searching with C-s , use C-r to go backward) ext command is to insert a character. Other editing key-chords also stop the ends the search and moves point to the beginning of the line). SC> <esc> or C-g C-g. C-u C-SPC or C-x C-x to return to the position before the search. can set the pel-use-swiper user option which activates the <u>Swiper external</u> what command is mapped to C-s: search-forward or swiper. You can specify ion. Use <f11></f11> <f1></f1> s to customize PEL controlled search.</esc>
Isearch - forward Incremental Iteral search Tegexp search Captures string searched, search again with C-s or C-r	• C-s • ₩-f	(isearch-forward &optional REGEXP-P NO-RECURSIVE-EDIT)	Do incremental search forward: start or continue a search. • With a prefix argument, do an incremental regular expression search instead, something like: • 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. • When Anzu is used (see below) the modelling shows the match count. □ 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>
Perform Swiper search: interactive search with an overview list	C-s	(swiper &optional INITIAL-INPUT)	Perform a Swiper text search. Opens up the mini buffer and show several matches as they are being typed. Narrow the search by typing a pattern. Multiple patterns are allowed by separating with a space. Select with C-n, C-p, <up> and <down>. Chose (and stop the search) with RET. To search for a space with Swiper, type 2 spaces in the search expression. So: type "foobar" to search for "foo_bar". 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.</f11></down></up>
Isearch - backward Incremental Iteral search regexp search Captures string searched, search again with c-s or c-r	C-r	(isearch-backward &optional REGEXP-P NO-RECURSIVE-EDIT)	Do incremental search backward: start or continue a search. • With a prefix argument, do an incremental regular expression search instead; something like: • 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 • When Anzu is used (see below) the modelling shows the match count. 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>

	Description	Keystroke	Function	Note
• Ir	arch - Regexp— forward ncremental regexp search	C-M-s	(isearch-forward-regexp &optional NOT-REGEXP NO-RECURSIVE-EDIT)	Incremental forward regular expression search.
• Ir	arch - Regexp - backward ncremental regexp search	С-М-г	(isearch-backward-regexp &optional NOT-REGEXP NO-RECURSIVE-EDIT)	Incremental backward regular expression search. ► Everything that can be done with C-r can also be done here. For example repeating the search can be done with C-r.
	ual Regexp ISearch with hon 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.
	ual Regexp backward arch with Python regexp iine	<f11> s x C-r</f11>	(vr/isearch-backward)	Like isearch-backward, but using Python (or custom) regular expressions. Requires <u>visual-regexp-steroids</u> : available when pel-use-visual-regexp-steroids is t.
	remental Symbol arch	buffers' major mode). On word.		boundaries of the search must match the boundaries of a symbol (for the aple searching for <i>forward-word</i> in a Lisp file will not match <i>isearch-forward-ti-from-top</i> , bound to <f11> s.</f11>
• G	arch symbol at point frab word at point with c-w captures string searched, earch again with c-s or c-r	M-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.
• G	arch for symbol irab word at point with C-w captures string searched, earch 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".
• G	arch for sequence of rds irab word at point with C-w iaptures string searched, earch again with C-s or C-r	• M-s w • <fl1> s w i</fl1>	(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. After entering the prompt type C-w to capture the word(s) at point for the search
Du	ring ISearch		an be modified to perform other searches. emental search command you can type the	following characters to modify or repeat the search.
	Change the search type to: simple search	<ret></ret>	(search-forward STRING &optional BOUND NOERROR COUNT) (search-backward STRING &optional BOUND NOERROR COUNT)	Typing <ret> right after typing the command (C-s, C-r, C-M-s or C-M-r) and before typing the text to search for: • C-s <ret> or C-r <ret> perform a regular search instead of an ilSearch. • C-M-s <ret> or C-M-r <ret> perform a regular regex search.</ret></ret></ret></ret></ret>
	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.
	repeat search forward	• C-s	(isearch-repeat-forward)	Repeat the current search, start searching again going forward
	repeat search backward	•	(isearch-repeat-backward)	Repeat the current search, start searching again going backward
		• %-d	,	, , , , ,
	Select searched string History previous		n you can issue the following commands to (isearch-ring-retreat)	Retrieve searched text from search history: get previous entry from history
	History next	M-p M-n	(isearch-ring-advance)	Retrieve searched text from search history: get previous drity horninstery
D U	"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 new search.
R I N G	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 editing of the searched string. • Edit then search string in minibuffer. • End editing with <ret>, C-j, C-s or C-r</ret>
I S	Add rest of line at point to search string	M-s C-e	(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.
Е	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.
A R	Yank from kill ring to search string	• С-у • Ж-е	(isearch-yank-kill)	Pull string from kill ring into search string.
C H	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.
	Modify search method	While performing a search	the following commands modify the searc	h method.
C	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.
M	Start query replace regexp	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 be replaced.
M	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.
A	Modify search mode	While performing a search	the following commands modify the searc	th modes.
N D	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.

Description	Keystroke	Function	Note
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 and leave cur current search and return point to original leave.	
Occur Search			
List all matching occurrences of regexp in current buffer	M-s o	(occur REGEXP &optional NLINES)	 Prompts for a regexp Can use M-n at prompt to recuse previous search strings Use M-n prefix to specify n lines of context in result. Default=list-matching-lines-default-context-lines. "M-s o" can be used during an incremental search. In *Occur* buffer: <ret> visit corresponding position in the searched buffer</ret> "C-o" display the match in other window (but does not select it) <, >: go to the beginning and end of the buffer g: revert the buffer, refreshing the search results e: buffer enters the Occur Edit Mode which allows edits in both buffers simultaneously via edits in the *Occur* buffer. Exit Occur Edit Mode with: "C-c C-c" (which is: (occur-cease-edit)) Navigate though occurrences (in original buffer): (next-error): "C-x ~" or "M-g n" or "M-g M-n" (previous-error): "M-g p" or "M-g M-p"
Occur search in selected buffers	<f11> s 0</f11>	(multi-occur-in-matching-buffers BUFREGEXP REGEXP &optional ALLBUFS)	For example to occur search in all .py files, select the buffers with "\.py\$" (without the quotes).
Occur search in selected files	<f11> s o</f11>	(multi-occur BUFS REGEXP &optional NLINES)	
During Occur Search			
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	(previous-error &optional N)	Prefix arg N says how many error messages to move backwards (or forwards, if negative).
Exit occur mode	C-c C-c	(occur-cease-edit)	Exit the occur-edit mode. See "M-s o" note above.
PEL Search/Replace Command Selection	Several regexp engines are available to perform regexp searches. Emacs provides its own. But several external packages provide extensions. • The <u>visual-regexp</u> enhances the Emacs regexp search and replace engine by showing matches in the buffer while you are typing the regexp, providing useful feedback when learning Emacs regexp. For replacement it shows both the match in original text and its replacement. • The <u>visual-regexp-steroids</u> extends this further by allowing the use of other rexgexp engines like pcre2el and Python. PEL provides the ability to dynamically select the extension to use for your regexp search and replace operations. Use the <f11> ? S to see what is available and active and use <f11> s S to change the regexp engine. 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 • visual-regexp-steroids • visual-regexp-steroids • visual-regexp-steroids • visual-regexp-steroids • visual-regexp-steroids • visual-visual-visual-visual-visual-regexp-steroids is t • visual-visu</f11></f11>		
Search/Replace Regexp Engine Selection (See also: ∑ Customize)	PEL supports several regular expression search/replace engines that control the way several Search and Replace commands operate: • Emacs' default regex engine • wisual-regexp : diset pel-use-visual-regexp to t • It provides visual feedback during search and replace operation: it shows matches in buffer while typing the search text. • wisual-regexp-steroids : diset pel-use-visual-regexp-steroids is t • An extension to visual-regex which provides same visual feedback but supports several regexp engines: • emacs, emacs-plain, pcre2el, python and custom (no special custom regexp yet implemented by PEL). • Use <f11><f1> r, to customize the PEL completion group user options above. • Set the pel-initial-regexp-engine user option to select which regexp engine is used when Emacs starts.</f1></f11>		
		arch tool is activated via the corresponding I search/replace regexp engine and to see v	pel-use- user option, pel-init makes the following commands available to 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. More work is required on PEL code for full dynamic flexibility.
Show which search/replace	<f11> ? S</f11>	(pel-show-active-search-regexpengine &optional WTH-DETAILS)	Display the currently used search regexp engine. Display a detailed message describing what is available the first time it is run and when a prefix argument is used (C-u or any numeric argument will do).
regexp engine is used			and whom a promy argument to about (C a or any mamorite argument will ab).
•	Simple text replacement of	command.	and the press digenters to accept the any national digenters will accept

Description	Keystroke	Function	Note
Unconditional regex replace	• <f11> s x r • C-c r</f11>	(replace-regexp REGEXP TO-STRING & optional DELIMITED START END BACKWARD)	Replace every match for regex with new string. PEL only activates the C-c r binding if the pel-bind-keys-for-regexp user option is set to t. Will With PEL, when any of pel-use-visual-regexp or pel-use-visual-regexp-
		(pel-replace-regexp): • (replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD) • (vr/replace REGEXP REPLACE START END) • (vr/select-replace)	steroids is set to t, you can select a regexp engine provided by these external package (using <f11> s S to select another) and it affects what command is used here (pel-replace-string uses the command corresponding to your selection). It's possible to use lisp expressions in the replacement string, making this super powerful. See examples in the Emacs Wiki.</f11>
Visual Regexp Replace	<f11> s x R</f11>	(vr/replace REGEXP REPLACE START END)	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
		Requires <u>visual-regexp</u> : when pel-use-visual-regexp is t.	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 ∑ Cursor)	• <f11> s x M • C-c m</f11>	(vr/mc-mark REGEXP START END) This requires both visual-regexp and	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
	46115	multiple-cursors external packages.	quits the multiple cursor operation with C-g .
Visual Regexp Search to multiple-cursors with engine selection (See also ∑ Cursor)	<f11> s x M-m</f11>	(vr/select-mc-mark) This requires both visual-regexp-steroids and multiple-cursors external	PEL activates this command 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 if the pel-bind-keys-for-regexp
(Occ also <u>y</u> oursor)		packages.	user option is set to t.
Query Replace	Query replacement promp		eplace. 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 some occurrences of a string with another, both specified by user. A negative argument replaces backwards.
Query Replace Regexp	• C-M-% • <f11> s x q • C-c q</f11>	(query-replace-regexp REGEXP TO- STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P)	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 the pel-bind-keys-for-regexp
		(pel-query-replace-string)	user option is set to t. With PEL, when any of pel-use-visual-regexp or pel-use-visual-regexp- steroids is set to t, you can select a regexp engine provided by these external package (using <f11> s S to select another) and it affects what command is used here (pel-query-replace-string uses the command corresponding to your selection).</f11>
Visual Regexp Query Replace	<f11> s x Q</f11>	(vr/query-replace REGEXP REPLACE START END) Requires visual-regexp: available when pel-use-visual-regexp is t.	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
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 a : toggle show all or up to the default limit. Default limit is specified by vr/default-feedback-limit 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.
QR Response : keys to use during a query replacement to identify actions	• n or :di • . :n • , :re • , :re • ^ :bi • u :ui • u :ui • q or <ret> :al • E :m • C-r :ei • C-w :di • C-M-c :ei • C-J :E • ? :gg • Y :re</ret>	eplace on't replace, move to next eplace current and quit eplace & let me see result before moving on eplace all the rest and don't ask eack up to the previous instance endo last replacement endo ALL replacements endo replacements endoffy the replacement string enter recursive edit - Exit the recursive edit elete this instance and enter recursive edit recursive edit and resume query-replace exit recursive edit and exit query-replace exit recursive edit and exit query-replace et help eplace all strings in all buffer, no questions - exit to next buffer without replacing remainin	 Press SPC to move on. with one of: C-M-c or C-] to make a custom replacement
Interpret and Lint Emacs Lisp Regexp with <u>xr</u> .	The <u>xr</u> external package. All commands describe	ge provides a function that interprets Emacs do below require the <u>xr</u> external package act	s Lisp regexp and prints a descriptive <u>rx-style semantic form</u> to explain it. tivated when the pel-use-xr user option is set to t . xpress a regexp in a more readable fashion. Type < f1> o rx for more info.
Convert it to <u>rx-style</u> <u>semantic form</u>	PEL provides <u>xr</u> when	the pel-use-xr user option is set to t. PEL	provides the following commands which take a regexp at the prompt or from
Interpret Emacs Lisp regexp at point.	text at point to print a des	(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.

Description	Keystroke	Function	Note
Interpret Emacs Lisp regexp	<f11> s x X</f11>	(pel-xr-regxp)	Prompt for regexp and print its interpretation in *regexp-eval* buffer.
provided at prompt.	ZE115 1	(not yr lint at noint 9 antice - 1 500	Uses `xr-pp' to expand regexp in rx notation. Lint the regexp at point or incide region if region is marked.
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.
Regex-tool	While regex-tool is run: The regex-tool uses En	ning: type C-c C-c to force an update and	can also use full Perl regexp if you have Perl installed on your system.
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, reverting to the window layout used before it was just turned on.
Change the regex-tool backend engine - select between Emacs and Perl.	C-c <f1></f1>	(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. • Force an update of the regex-tool to rescan using the new backend, with C-c C-c.
re-builder: Emacs Regular Expression Builder	To open (start) the regu While the re builder is r type the regular exp if needed, change the Use C-c C-i to With PEL, you ca	lar expression, execute M-x re-builde unning: ression (regexp) and see the matches in the regular expression syntax (Emacs suppo to select the new syntax. In also use <f11> s x <f1> to quickly alized commands available in reb-mode.</f1></f11>	open the customize page to change the default syntax user option.
Build regular expression interactively with re-builder This is a great way to learn Emacs regexp!	<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 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 highlighted. re-builder supports different styles of regular expressions, selected by the value of the reb-re-syntax user option. The possible values are: read: the default. Similar to string but requires double escaping of backslashes - similar to how it must be done in Elisp source code. For example: "\\('(red\\\green\\\)" string: Similar to 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.
Select the regular expression syntax used by the re-builder	<f11> s x <f1></f1></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.
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 mode	С-с С-е	(reb-enter-subexp-mode)	 Enter the subexpression mode in the RE Builder. Use this to only highlight the capturing groups. Type 0 to 9 to identify the group to highlight. Type q to exit that mode.
Select regular expression syntax used	• C-c C-i • C-c <tab></tab>	(reb-change-syntax &optional SYNTAX)	Change the syntax used by the RE Builder.
Quit re-builder	C-c C-q	(reb-quit)	Quit the RE Builder 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. It also converts (where applicable) the expression to a string format suitable for use in Emacs Lisp source code.
Convert string-syntax regexp to read-syntax	the read-syntax, you nee escaping the backslash c	d to escape the double quote character (to haracter. So to identify a backslash in a Elis	at when writing a regex in Emacs Lisp code, which accepts what Emacs calls allow the "character be part of a string). The regex syntaxes also require sp string regex you need to use 4 consecutive backslash. The following tool as 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: \((foo\ bar\\) "\\ foo\ bar\\)" this text is inserted: "\\(foo\ bar\\\"-\\\)" Example 2: when typing: \((foo\ bar\\\"-\\\)" this text is inserted: "\\(foo\ bar\\\\"-\\\)" Example 3, using a C-u prefix argument for: abo\S"gh this is inserted: abo\S"gh -> "abc\\S\"gh" Notice that you must not type the surrounding double quotes.

```
Function
                                                                                                                                                            Note
             Description
                                              Kevstroke
Emacs Regular
                                      The following rows describe Emacs regular expressions (which differ from other styles of regex) and tools to try them out.
                                      A Be aware the the character classes like [:alpha:] must be used within a character alternative s
Expressions Syntax
                                              So if you want to express a space or tab, use 2 square brackets, as in: [[:blank:]]
                                                                  .*+?[^$\
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 \
                                        $
\`
                                                     end of {line, string, buffer
                                      • \`
• \'
                                                     : beginning of {string, buffer}
                                                    : End of {string, buffer}
: word boundary marker
                                      • \w
                                                     : any word character. Alternative: [[:word:]]
                                                    : any non-word character. Alternative: [^[:word:]]
                                         \w
                                      Basic:
                                                    : (a period) any single character except newline
                                                     : 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\} :n repetitions. For example, x\{4\} matches the string xxxx and nothing else.
                                      • \{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 <u>Character Classes</u>:
                                                    : 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.

                                                          • [:C:]
                                                                            : \underline{\text{character class}}\ C, where C can be any of the following (\underline{\text{eg. [[:alnum]]:}}):
                                                             • alnum
                                                                            : any letter or digit
                                                             • alpha
                                                                            : any letter
                                                                            : any of the 127 ASCII characters
                                                                ascii
                                                                            : horizontal whitespace: a space or tab character : any ASCII control character
                                                             • blank
                                                                cntrl
                                                             · digit
                                                                            : any digit character, same as [0-9]. [-+[:digit:]] matches any digit as well as '+' and '-'.
                                                                            : any graphic character; everything except whitespace,

    graph

                                                                            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
                                                                           : 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.
                                                              • print
                                                                punct
                                                                            : 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 case table
                                                                             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:
                                         • \sC
                                                      : Match any character whose syntax table code is \emph{\textbf{C}}.
                                         • \sC
                                                      : Match any character whose syntax table code is not \emph{\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.
                                                                         : symbol constituents: extra characters used in variable, function, command names,
                                                                         : punctuation characters. There is none in Lisp. C has some.
                                                                         : open parenthesis. Support '(', '{', '[' : close parenthesis. Support '), '}', ']'
                                                          )
                                                                         : string quotes. 🕏 This is useful and important. In 'string-syntax' the double quote does not require escaping!
                                                                              Inside the 'string-syntax' regexp, you can use \slashs" and \slashs.
                                                                              In read-syntax those become \strut^{"} and \strut^{"}
                                                                              1 The fact that a double quote is not needed in the string-syntax means that the string-syntax cannot be used
                                                                                  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 comment delimiters
                                                                         : generic string delimiters
                                      Grouping:
                                     • \( ... \)
• \(?: ... \)
• \1 to \9
                                                          : Capturing group
                                                          : Shy, non-capturing group, which cannot be referred to with \1 to \9. Is not counted in the group numbers
                                                          : Insert text from group N
                                         \#1 to \#9
                                                          : Insert text from group \N but cast as an integer (only useful in lisp forms)
                                      Other:
                                      · \?
                                                          : prompt for user input
                                                            inserts a number incremented from 0
                                      • \&
                                                          : insert whole match string
                                      • \,(form ...)
                                                          : uses an Emacs Lisp form with arguments. Use elisp form that take and return strings, such as the following examples:
                                                             • \,(upcase \2) : uppercase capturing group 2
• \,(format "%.2f" \#3) : Cast group 3 as number and format it as decimal with 2 decimal points.
                                      New Line, hard-tab and ASCII control character \underline{\text{basic char syntax}} :
                                       蠉 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:
                                      1 The following do NOT work in Emacs, but there are alternatives, see above.
                                                   : any digit : alternative: [[:digit:]]
                                      • \D
```

: any non digit character. Alternative: [^[:digit:]]

Description	Keystroke	Function	Note
PCRE support: pcre2el	This requires the pore The pcre2el package p the following features: convert Emacs synt convert either synta untangle complex re show the complete l provide live font-loc This provides the comma	ax to PCRE x to rx, an S-expression based regexp syntage gexps by showing the parse tree in rx form list of strings (productions) matching a regex king of regexp syntax (so far only for Elisp b	en pel-use-pcre2el is t . RegeXp Tools). According to its documentation the pcre2el package provides ax and highlighting the corresponding chunks of code xp, provided the list is finite suffers – other modes on the TODO list)
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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Exploring Emacs Rx Macro from Francis Murillo A more extensive presentation of rx with several examples.	
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xr - converts regex to structured rx form Converts a string regular expression into the rx notation S-Exp form. Usefull to understand contemporary Emacs Lisp source code.	nplex regex in
As described in its overview: "`pcre2el' or `rxt' (RegeXp Translator or RegeXp Tools) is a utility regular expressions in Emacs, based on a recursive-descent parser for regexp syntax."	for working with
visual-regexp Useful library that provides commands to show regex matches in search and replace operations	S.
<u>visual-regexp-steroid</u> Extends visual-regexp to bring simpler regex to Emacs commands. It supports both Python an requires Python installed.	d pcre2el. It
regex-tool Tool using frame to test Emacs regular expressions.	