## **Search and Replace**

Expression Search/ Replace Command Selection	<ul> <li>The <u>visual-regexp</u> enh providing useful feedbe</li> <li>The <u>visual-regexp-stern</u></li> <li>PEL provides the ability</li> </ul>	hances the Emacs regexp search back when learning Emacs rege	ch and replace engine by showing matches in the buffer while you are typing the regexp,	
	-macs provides the follo	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.		
	Emacs provides the following commands to perform string replacement in buffers.  • The following external packages also provides several useful extensions:  • pcre2el  • visual-regexp  • visual-regexp-steroids  • visual-regexp-steroids  • virection available when pel-use-visual-regexp is t  • visual-regexp-steroids  • virection available when pel-use-visual-regexp-steroids is t  • virection available when pel-use-visual-regexp-steroids is t  • virection available when pel-use-visual-regexp-steroids is t			
Engine Selection  See also:  • <u>N Customize</u>	PEL supports several regular expression search/replace engines that control the way several Search and Replace commands operate:  • Emacs' default regex engine  • wisual-regexp : default regex engine  • It provides visual feedback during search and replace operation: it shows matches in buffer while typing the search text.  • wisual-regexp-steroids : default 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> s x <f2> to open the customize group that allows you to set these user options.  • Set the pel-initial-regexp-engine user option to select which regexp engine is used when Emacs starts.  When any of the extra search tool is activated via the corresponding pel-use- user option, pel-init makes the following commands available to change the currently used search/replace regexp engine and to see which one is currently active.</f2></f11>			
Select the search/replace regexp engine	<f11> s S</f11>	(pel-select-search-regexp- engine)	Select the search/replace and regexp engine to use.  • Shows currently used engine at the prompt. Supports completion.  With PEL, activating the engines provided by visual-regexp-steroids currently prevents restoring the original engine. Needs more work.	
<u>replace</u>		•	by the newline character. Emacs does <b>not</b> use it in search and replace queries. to identify newline characters.	
			using the commands and keystrokes listed below. ne invocation of the incremental search commands (see below).	
text in marked region or	• <f11> s . • M-<f5></f5></f11>	(pel-search-word-from-top &optional N)	Search for text in marked region or word at point from top/bottom of buffer of window identified by the number of non-dedicated windows and by the numeric argument N.  • A numeric argument is composed with the Meta key prior to the command:  • For example, to search a word in the buffer of window located at the right of the current one, position the point on the word to search and type one of the following key sequences:  • M-6 <f11> s • M-6 M-<f5>  With PEL, the : key-chord is available when pel-use-key-chord is non-nil.  • Command numeric prefix is available with the key-chord binding. See   Key-Chords</f5></f11>	
See also:			⚠ Inside keyboard macros the key chords do not work well. Use the <f11> s . or the M-<f5> keystroke when recording keyboard macros.</f5></f11>	
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	<ul> <li>If there are 3 or more non-dedicated windows search into the buffer of the window identified by the numeric argument N (see below).</li> <li>If N is negative: perform a <i>isearch-backward from the bottom of the buffer</i> in the window selected by the absolute value of N.</li> <li>Window selection:</li> <li>If N is not specified, nil, 1, 3, 7 or 9 and larger: search in current window.</li> <li>If N is 0: : search in other window</li> <li>If N in [2,8] range, search in window identified by the direction corresponding to the cursor in a numeric keypad:  8 := 'up</li> </ul>			
Search forward  Basic forward search: repeat using prompt history:  F5> <up></up>	<f11> s f</f11>	(search-forward STRING &optional BOUND NOERROR COUNT)	Search forward from point for STRING.  Set point to the beginning of the occurrence found.  Search case-sensitivity is determined by the value of the variable 'case-fold-search'.  Lax Search is not supported.	
Search backward  • Basic backward search:  • repeat using prompt history  • <f5><up></up></f5>	<f11> s b</f11>	(search-backward STRING &optional BOUND NOERROR COUNT)	Search backward from point for STRING.  Set point to the beginning of the occurrence found.  Search case-sensitivity is determined by the value of the variable 'case-fold-search'.  Lax Search is not supported.	
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'.	
	• <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'.	

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Word Search	A word search finds a sequence of words without regard for the type of punctuation between them.  The word search commands do not perform character folding and toggling lax whitespace matching have no effect on them.  However there are "lax" word searches that succeed on incomplete words, they are listed below.		
Incremental Search Word	• M-s w	(isearch-forward-word	Do incremental search forward for a sequence of words.
Captures string searched,     search again with C-s or C-r	• <f11> s w i</f11>	&optional NOT-WORD NO- RECURSIVE-EDIT)	<ul> <li>With a prefix argument, do a regular string search instead.</li> <li>Like ordinary incremental search except that your input is treated as a sequence of words without regard to how the words are separated.</li> <li>See the command 'isearch-forward' for more information.</li> </ul>
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)
Incremental Search (ISearch)  See also: Customize	the search. Re-type sar for same text. To reverse Type RET to stop sea but also perform the Abandon search (and On search exit, original C-s is normal package and the <f11< td=""><td>ne key-chord after reaching end se search direction, use the oth arch and leave cursor at found prequested operation (like C-a of return to where you started, typoint is added to mark ring, the lay mapped to isearch-forward.  s s key. That key allows y</td><td>ommands. Type text to search, <b><del></del></b> to remove chars. Other key-chords can be used during d of buffer, wrap to other end and continue searching. Or repeat key-chord to repeat last search er key-chord (for example: if searching with <b>C-s</b>, use <b>C-r</b> to go backward) position if next command is to insert a character. Other editing key-chords also stop the search which ends the search and moves point to the beginning of the line).  Yee <b><esc><esc></esc></esc></b> or <b>C-g C-g</b>.  Us you can use <b>C-u C-SPC</b> or <b>C-x C-x</b> to return to the position before the search.  With PEL you can set the <b>pel-use-swiper</b> user option which activates the <b>Swiper</b> external you to change what command is mapped to <b>C-s</b>: search-forward or swiper. You can specify <b>-tool</b> user option. Use <b><f11></f11></b> s <b><f2></f2></b> to customize PEL controlled search.</td></f11<>	ne key-chord after reaching end se search direction, use the oth arch and leave cursor at found prequested operation (like C-a of return to where you started, typoint is added to mark ring, the lay mapped to isearch-forward.  s s key. That key allows y	ommands. Type text to search, <b><del></del></b> to remove chars. Other key-chords can be used during d of buffer, wrap to other end and continue searching. Or repeat key-chord to repeat last search er key-chord (for example: if searching with <b>C-s</b> , use <b>C-r</b> to go backward) position if next command is to insert a character. Other editing key-chords also stop the search which ends the search and moves point to the beginning of the line).  Yee <b><esc><esc></esc></esc></b> or <b>C-g C-g</b> .  Us you can use <b>C-u C-SPC</b> or <b>C-x C-x</b> to return to the position before the search.  With PEL you can set the <b>pel-use-swiper</b> user option which activates the <b>Swiper</b> external you to change what command is mapped to <b>C-s</b> : search-forward or swiper. You can specify <b>-tool</b> user option. Use <b><f11></f11></b> s <b><f2></f2></b> to customize PEL controlled search.
ISearch - forward	• C-s	(isearch-forward &optional	Do incremental search forward: start or continue a search.
Incremental     Iteral search     regexp search	• #-f	REGEXP-P NO-RECURSIVE- EDIT)	On PEL: this key mapping is used when either <b>pel-initial-search-tool</b> nil or 'anzu' when <b>pel-use-anzu</b> is <b>t</b> . If <b>pel-use-swiper</b> is <b>t</b> , you can use <f11> s s to change the tool used for search operations.</f11>
• search again with C-s or C-r	<ul> <li>With a prefix argument, do an incremental regular expression search instead, something like:</li> <li>C-u 1 C-s</li> <li>M C-s</li> <li>With PEL, C C-s works.</li> <li>C-u C-s does not work to perform a regexp ISearch.</li> <li>Instead you can also use C-M-s to perform the regexp incremental search forward.</li> <li>To continue to next match during search: type C-s again (with prefix argument if that was used for regexp Isearch).</li> <li>To change direction: type C-r. To repeat last completed incremental search forward: C-s C-s</li> <li>%-f is always mapped to isearch-forward.</li> <li>When Anzu is used (see below) the mode line shows the match count.</li> </ul>		
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 <b>pel-use-swiper</b> is <b>t</b> and <b>pel-initial-search-tool</b> is set to swiper. You can use <b>f11&gt;</b> s s to change the tool used for search operations.
	<ul> <li>Narrow the search by typing a pattern.</li> <li>Multiple patterns are allowed by separating with a space.</li> <li>Select with C-n, C-p, <up> and <down>.</down></up></li> <li>Chose (and stop the search) with RET.</li> <li>It is earch for a space with Swiper, type 2 spaces in the search expression. So: type "foo_ubar" to search for "foo_bar".</li> </ul>		
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	<ul> <li>With a prefix argument, do an incremental regular expression search instead; something like:</li> <li>C-u 1 C-r</li> <li>M C-s</li> <li>With PEL, C C-r works.</li> <li>C-u C-r does not work to perform a regexp ISearch.</li> <li>Instead you can also use C-M-r to perform the regexp incremental search forward.</li> <li>To continue to next match during search: type C-r again (with prefix argument if that was used for regexp Isearch.</li> <li>To change direction: type C-s. To repeat last previously completed incremental search backward: C-r C-r</li> <li>When Anzu is used (see below) the modelling shows the match count.</li> </ul>		
ISearch - Regexp — forward   Incremental   regexp search	C-M-s	(isearch-forward-regexp &optional NOT-REGEXP NO- RECURSIVE-EDIT)	Incremental forward regular expression search.  ► Everything that can be done with <b>C</b> - <b>s</b> can also be done here. For example repeating the search can be done with <b>C</b> - <b>s</b> .
ISearch - Regexp - backward     Incremental     regexp search	C-M-r	(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.
Visual Regexp ISearch with Python regexp engine	<f11> s x C-s</f11>	(vr/isearch-forward)	Like isearch-forward, but using Python (or custom) regular expressions.  Requires <u>visual-regexp-steroids</u> : available when pel-use-visual-regexp-steroids is t.
Visual Regexp backward ISearch with Python regexp engine	<f11> s x C-r</f11>	(vr/isearch-backward)	Like isearch-backward, but using Python (or custom) regular expressions.  Requires visual-regexp-steroids: available when pel-use-visual-regexp-steroids is t.
Incremental Symbol Search	major mode). Only con	nplete match will be found. For	except that the boundaries of the search must match the boundaries of a symbol (for the buffers' example searching for <i>forward-word</i> in a Lisp file will not match <i>isearch-forward-word</i> .
Search symbol at point Grab word at point with C-w Captures string searched, search 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 <b>C-w</b> .  • <b>Useful</b> for searching inside source code while superiors mode is disabled.  • Use <b>C-s</b> and/or <b>C-r</b> to perform extra searches on the same symbol.
Search for symbol	M-s _	(isearch-forward-symbol &optional NOT-SYMBOL NO-RECURSIVE-EDIT)	Prompt for symbol, perform <a href="mailto:symbol search">symbol search</a> .  • Subsequent searches for the same symbol is done with <b>C-s</b> and/or <b>C-r</b> .  • Useful for searching code. For example: "data size" matches "data.size" as well as "data-size", "data + size" and "data size".

	<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
• G	arch for sequence of ds rab word at point with C-w aptures string searched, earch 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.  After entering the prompt type C-w to capture the word(s) at point for the search
Du	ring ISearch		can be modified to perform oth	u can type the following characters to modify or repeat the search.
	Change the search type to: simple search	RET	(search-forward STRING & optional BOUND NOERROR COUNT)     (search-backward STRING & optional BOUND NOERROR COUNT)	Typing <b>RET</b> right after typing the command ( <b>C-s</b> , <b>C-r</b> , <b>C-M-s</b> or <b>C-M-r</b> ) and before typing the text to search for:  • <b>C-s RET</b> or <b>C-r RET</b> perform a regular search instead of an ilSearch.  • <b>C-M-s RET</b> or <b>C-M-r RET</b> perform a regular regex search.
	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 • 光-g	(isearch-repeat-forward)	Repeat the current search, start searching again going forward
D U	repeat search backward	• C-r • 第-d	(isearch-repeat-backward)	Repeat the current search, start searching again going backward
R	Select searched string	While performing a sea	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
N	History next	M-n	(isearch-ring-advance)	Retrieve searched text from search history: get next entry from history
G	<u>"tab" complete history in buffer</u>	• 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.
I S E	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
A R	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.
С	Add character at point to search string	С-М-У	(isearch-yank-char &optional ARG)	Appends character at point to the search string. If numeric argument appends that many characters.
Н	Yank from kill ring to search string	• C-y • Ж-e	(isearch-yank-kill)	Pull string from kill ring into search string.
C	Replace just-yanked search string with previously killed string	м-у	(isearch-yank-pop)	Replace just-yanked search string (via (search-yank-kill) with previously killed string.
M	Modify search method	While performing a sear	rch the following commands mo	odify the search method.
M A N D	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.  To 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.
S	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. PEL provides direct access to the command via <f11> s x i.  If pel-bind-kevs-for-regexp user-option is t. PEL adds the C-c 0 key binding.</f11>
	Enter occur search: list	M-s o	(isearch-occur REGEXP	Start an "occur" search with current search string.
	all occurrences	NAME II	&optional NLINES)	See "M-s o" row above for more information.  2.15. the according to the control of the cont
	Modify search mode  Toggle lax whitespace matching	M-s SPC	rch the following commands mo (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)	<ul> <li>Toggle word searching on or off.</li> <li>Turning on word search turns off regexp mode.</li> <li>For example: in C file: the expression it-&gt;second.first is not matched by "is second first" but when the word mode (or the symbol mode) is activated it matches.</li> </ul>
	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		ts current search and return po	
Corsea	nbined expression regex rch	<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 user-option is t. See example of using cexp to match balanced parenthesis on StackExchange

<u>Description</u>	<u>Keystroke</u>	Function	Note Note
Occur Search ★★			supports the following commands:
See: Searching & Editing in	<ul> <li><ret> visit corresponding position in the searched buffer</ret></li> <li>C-o display the match in other window (but does not select it)</li> </ul>		
Buffers with Occur Mode	• < , > go to the beginning and end of the buffer		
★★ Edit source buffer ►	• e buffer enters the Occur Edit Mode which allows edits in both buffers simultaneously via edits in the *Occur* buffer.		
Note: all occur searches done	C-c C-c Exit Occur Edit Mode     q Quit occur search: close *Occur* buffer.		
in <b>buffers</b> , not files!		and previous match. <b>Emacs</b> >: er case L) Center buffer where f	= 28 found text is located. Emacs >= 28
	list-matching-lines-	default-context-lines user-opt	tion controls the # of contextual lines around the match
List all matching occurrences of regexp in current buffer	M-s o	(occur REGEXP &optional NLINES)	<ul> <li>Prompts for a regexp to search.</li> <li>Use numeric prefix to specify n lines of context in result (defaults to list-ming-li see above)</li> <li>Can use M-n and M-n at prompt to recurse previous search regexp strings.</li> <li>M-s o can be used during an incremental search.</li> </ul>
Occur search in selected buffers	<f11> s 0</f11>	(multi-occur-in-matching- buffers BUFREGEXP REGEXP &optional ALLBUFS)	Show all lines matching REGEXP in buffers specified by BUFREGEXP.  • Prompts for a regular expression that identifies files, then one for the text to search.  • Normally BUFREGEXP matches against each buffer's visited file name, but if you specify a prefix argument, it matches against the buffer name.  • For example to occur search in all .py files, select the buffers with \.py\$
Occur search in selected files	<f11> s o</f11>	(multi-occur BUFS REGEXP &optional NLINES)	Show all lines in buffers BUFS containing a match for REGEXP.  This function acts on multiple buffers; otherwise, it is exactly like 'occur'. When you invoke this command interactively, you must specify the buffer names that you want, one by one.
Occur search in buffer of same mode	<f11> s M-o</f11>	(pel-multi-occur-in-this- mode)	Perform an occur search in all buffers in the same major mode as the current buffer.  • Credits: Mickey Petersen
Search for occurrence of text in <u>Projectile</u> project buffers	<f8> o</f8>	(projectile-multi-occur &optional NLINES)	Do a 'multi-occur' in the project's <b>buffers</b> .  • With a prefix argument, show NLINES of context.
During Occur Search ★★	Navigate through occ	currences with commands issue	ed from the original, possibly multiple, buffer(s). No need to be inside the *Occur* buffer.
occur - next occurence	• C-x ` • M-g n • M-g M-n	(next-error &optional ARG RESET)	<ul> <li>A prefix ARG specifies how many error messages to move;</li> <li>negative means move back to previous error messages.</li> <li>Just C-u as a prefix means reparse the error message buffer and start at the first error.</li> </ul>
occur - previous occurence	• M-g p • M-g M-p	(previous-error &optional N)	Prefix arg N says how many error messages to move backwards (or forwards, if negative).
Exit occur-edit mode	C-c C-c	(occur-cease-edit)	Exit the occur-edit mode from within the *Occur* buffer or incremental search via M-s o
Fuzzy Finders Search See <u>▼ File-mngt</u>	The <u>fzf command line utility</u> is a very fast fuzzy file finder that can be used within Emacs via the <u>fzf.el</u> emacs front-end. It can be used with grep, <u>ripgrep</u> or other search tools. To use it inside Emacs, you must:  1) install and configure the <u>fzf command line utility</u> , and 2) Use the <u>fzf.el</u> external package		
Search current buffer with fzf	<f11> s z</f11>	(fzf-find-in-buffer)	Fuzzy search the current buffer visiting a file.
iEdit mode ★★	iEdit Mode - Edit multi	ple symbols in a function or re	egion in the same way simultaneously
	Requires the iedit e	xternal package. 🛂 PEL down	loads, installs and activates it when either <b>pel-use-iedit</b> or <b>pel-use-lispy</b> user options is set to <b>t</b> .
Toggle iedit mode	• C-; • <f11> e</f11>	(iedit-mode &optional ARG)	Toggle iEdit mode: edit all symbols in scope or region simultaneously.  Both iEdit and Flyspell use the C-; key as their default binding.
See also: •	• <f11> h i • <f11> m i</f11></f11>		PEL detects and reports that situation: modify the binding of one of them if you see it.
• <u>Select only current function</u> occurrences	<ul> <li>This command behaves differently, depending on the mark, point, prefix argument and variable 'iedit-transient-mark-sensitive'.</li> <li>If iEdit mode is off, turn iEdit mode on.</li> <li>With iEdit mode, all the occurrences of the current region in the buffer (possibly narrowed) or a region are highlighted. If one occurrence is modified, the change are propagated to all other occurrences simultaneously.</li> <li>If region is not active, 'iedit-default-occurrence' is called to get an occurrence candidate, according to the thing at point. It might be url, email address, markup tag or current symbol(or word).</li> <li>In the above two situations, with digit prefix argument 0, only occurrences in current function are matched.</li> </ul>		
	<ul> <li>Can switch iEdit mode from isearch mode directly. The current search string is used as occurrence. Highlights all current search string occurrences.</li> <li>With a universal prefix argument, the occurrence when iEdit mode is turned off last time in current buffer is used as occurrence. This is intended to recover last iEdit mode which is turned off. If region active, iEdit mode is limited within the current region.</li> <li>With repeated universal prefix argument, the occurrence when iEdit mode is turned off last time (might be in other buffer) is used as occurrence. If region active, iEdit mode is limited within the current region.</li> <li>With digital prefix argument 1, iEdit mode is limited on the current symbol or the active region, which means just one instance is highlighted. This behavior serves as a start point of incremental selection work flow.</li> <li>If iEdit mode is on and region is active, iEdit mode is restricted in the region, e.g. the occurrences outside of the region is excluded.</li> <li>If iEdit mode is on and region is active, with a universal prefix argument, iEdit mode is restricted outside of the region, e.g. the occurrences in the region is excluded.</li> </ul>		
		erly disable iedit-mode restoration	on when desktop is restoring previous session. See <b>**</b> See <b>iedit bug #115</b> , and <b>my fix for this</b> . a fix to ensure that iedit-mode restoration is not done during a desktop restoration.
See <u><b>∑ Key-Chords</b></u>	iedit-mode bmay b	reak key-chords commands fro	m being detected: disable and re-enable the keychord mode with <f11> M-K.</f11>
iedit-mode help commands	Use the following comn		commands available when the edit-minor mode is active.
Show edit-mode help Show keys used to modify	<f1> <f1></f1></f1>	(iedit-help-for-help) (iedit-help-for-occurrences)	Display ledit help menu. Use <b>b</b> to show all edit-mode key binding or <b>m</b> for complete help.  Display a short message showing the key bindings for edit commands used to modify the
occurrences Show/hide occurence lines.	• <f1> <f2> • C-"</f2></f1>	(iedit-show/hide-	occurence text.  Show or hide occurrence lines using invisible overlay.
Show/Hido context !!	• C-c C-o	occurrence-lines)	
Show/Hide context lines	• C-′ • C-c C-a	(iedit-show/hide-context- lines &optional ARG)	<ul> <li>Show or hide context lines. Show all instances selected by hiding all occurence lines.</li> <li>A prefix ARG specifies how many lines before and after the occurrences are not hidden; negative is treated the same as zero.</li> <li>If no prefix argument, the prefix argument last time or default value of 'iedit-occurrence-context-lines' is used for this time.</li> </ul>
iedit-mode navigation	Use the following comn	nands to move point to other or	ccurence.
Move to previous occurence	• <s-tab> • <backtab></backtab></s-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.
Move to next occurrence	<tab> (iedit-next-occurrence)</tab>		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.
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.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
iedit-mode search area	Use the following commands to change the text area where occurrences are found. PEL replace some bindings for convenience (see ⋈)		
Toggle selection of occurrence	• M-;	(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 default M-; is replaced by M- <f6> which does not clash with comment-dwim</f6>
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	(iedit-toggle-case- sensitive)	Toggle case-sensitive matching occurrences.
iedit-mode replacement	Use the following comn	nands to replace all marked occ	currences.
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-enriched- occurrences)	Convert occurrences to upper case.  With PEL, default M-U key is replaced by M-C. This way M-U remains bound to pel-redo.
Replace text of occurrences	M-R	(iedit-replace-occurrences	Replace occurrences with STRING. Prompt for replacement string.
Blank occurences	M-SPACE	&optional TO-STRING) (iedit-blank-occurrences)	Note: instead of using this command the occurrences can also be edited using in place.  Replace occurrences with blank spaces.
Delete occurrences text	M-D	(iedit-delete-occurrences)	Delete occurrences.
Prefix occurrences with a	M-N	(iedit-number-occurrences	Insert numbers in front of the occurrences.
number	M-N	START-AT & optional FORMAT-STRING)	<ul> <li>START-AT, if non-nil, should be a number from which to begin counting. FORMAT, if non-nil, should be a format string to pass to 'format-string' along with the line count.</li> <li>When called interactively with a prefix argument, prompt for START-AT and FORMAT.</li> </ul>
Misc	Other iedit-mode co	ommands	
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.  PEL activates it when pel-use-multiple-cursors is set to t.
Quit edit-mode	C-g	(iedit-quit)	Quit edit-mode. Must be typed while cursor is over a highlighted occurence character.
Unconditional Replace	Non-interactive text rep	lacement commands.	
<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  Visual Regexp Replace with	<f11> s x R</f11>	(vr/replace REGEXP REPLACE START END) Requires visual-regexp: available when pel-use-visual-regexp is t. (vr/select-replace)	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  C-c p : toggle preview
engine selection	-	Requires <u>visual-regexp-steroids</u> : available when pel-use-visual-regexp-steroids is t.	The following are available only when using the Python regexp engine:  C-c i : toggle case sensitivity (ignore case)  C-c m : toggle multi-line match of ^ and \$  C-c s : toggle dot matches newline  C-c u : enable Unicode by default.
Visual Regexp Search to multiple-cursors  See also: <u>∑ Cursor</u>	• <f11> s x M • C-c m</f11>	(vr/mc-mark REGEXP START END)  Requires both visual- regexp and multiple-cursors	<ul> <li>Convert regexp selection to multiple cursors.</li> <li>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.</li> </ul>
Visual Regexp Search to multiple-cursors with engine selection See also: <u>▼ Cursor</u>	<f11> s x M-m</f11>	external packages.  (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.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Query Replace	Query replacement pro	mpts. The following 2 comman	ds are query replace. The answers to prompts are listed after the 2 commands.
Query Replace	M-%	(query-replace FROM- STRING TO-STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P)	Replace <i>some</i> occurrences of a string with another, both specified by user.  • A negative argument replaces backwards.  • When prompted for replacement use M-p to retrieve the original text that you can then modify.
Query Replace Regexp	• C-M-% • <f11> s x q • C-c q</f11>	(pel-query-replace-regexp) (query-replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P) (vr/query-replace REGEXP REPLACE START END) (vr/select-query-replace)	Replace some occurrences of a regex match with a specified string.  • A negative argument replaces backwards.  • C-M-% does not work in Terminal mode.  PEL only activates the C-c q binding if pel-bind-keys-for-regexp user option is set to t.  When pel-use-visual-regexp or pel-use-visual-regexp-steroids is set to t, PEL selects the pel-query-replace-regexp command instead of Emacs' query-replace-regexp.  • This command uses the regex engine provided by Emacs or one of the these external package as selected by pel-select-search-engine-regexp (bound to <f11> s S).</f11>
Visual Regexp Query Replace  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.  (vr/select-query-replace)	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  • C-c p : toggle preview
with engine selection		Requires <u>visual-regexp-steroids</u> : available when pel-use-visual-regexp-steroids is t.	<ul> <li>The following are available only when using the Python regexp engine:</li> <li>C-c i : toggle case sensitivity (ignore case)</li> <li>C-c m : toggle multi-line match of ^ and \$</li> <li>C-c s : toggle dot matches newline</li> <li>C-c u : enable Unicode by default.</li> </ul>
Replace text with regexp found in marked file(s) using Dired  See also: Dired	Open a Dired buffer with <b>C-x d</b> , mark the files and directories to search/replace into with <b>m</b> , then type <b>Q</b>	(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-directories 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 : replace n or <del> : don't replace, move to next : replace current and quit : replace &amp; 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 : u : undo last replacement : u : undo ALL replacement : u : undo ALL replacement : u : undo ALL replacement : c : modify the replacement string : c : modify the replacement string : c : enter recursive edit - Exit the recursive edit with one of: C-M-c or C-] : c : enter recursive edit and resume query-replace : c : exit recursive edit and exit query-replace : c : 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.</del>		
Interpret and Lint Emacs Lisp Regexp with <u>xr</u> . Convert it to <u>rx-style</u> <u>semantic form</u>	The <u>xr</u> external package provides a function that interprets Emacs Lisp regexp and prints a descriptive <u>rx-style semantic form</u> to explain it.  All commands described below require the <u>xr</u> external package activated when the <u>pel-use-xr</u> user option is set to t.  The <u>rx Emacs Lisp macro</u> can be used in Emacs Lisp code to express a regexp in a more readable fashion. Type <f1> o rx for more info.  PEL provides <u>xr</u>, a regex parser and analyzer, when the <u>pel-use-xr</u> user option is set to t. PEL provides the following commands which take a</f1>		
Interpret Emacs Lisp regexp at point.	regexp at the prompt of	r from text at point to print a de  (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 <b>C-u</b> or <b>M</b> or <b>C</b> ), 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 <b>C-u</b> or <b>M</b> or <b>C</b> ), perform additional checkings to see if the regexp is OK for matching file name.
relint — Regular Expression Lint  See also: ##I - Emacs Lisp	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 <b>g</b> to re-run the same checks.  The package can also used in a script to analyze regular expressions using Emacs batch invocation.		
Lint regular expressions in current buffer	Requires the relint e		Is and activates it when the pel-use-relint user-option is set to t.  Scan the current buffer for regexp errors.
Lint regular expressions in specified file	<f11> s x M-1 f</f11>	(relint-file FILE)	The buffer must be in emacs-lisp-mode.  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 Kevstroke 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  $\mbox{\em V}$ Backslash constructs (elisp) \$ : end of {line, string, buffer} : beginning of {string, buffer} : End of {string, buffer} Backslash constructs the Elisp manual is more • \b : word boundary marker : any word character. Alternative: [[:word:1] \w complete : any non-word character. Alternative: [^[:word:]] Basic: : (a period) any single character except newline. To search for any character including newline use: [^\0] • : one period : either quotes a special character (such as \$) or introduces special construct (see below). ١ • \| Alternative **Expression Quantifiers - postfix operators:** • ? : 0 or or 1 of the previous expression - greedy (greedy:= the longest valid match) : 0 or more of the previous expression - greedy : 1 or more of the previous expression - greedy · ?? : 0 or or 1 of the previous expression - non-greedy (non-greedy := the shortest valid match) : 0 or more of the previous expression - non-greedy • +? : 1 or more of the previous expression - non-greedy Expression Quantifiers - repetition postfix operators: : n repetitions. For example, x 4 matches the string xxx 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) So if you want to express a space or tab, use 2 square brackets, as in: [[:blank:]] : an alternative of characters, may include the following: • [ ] • Character range: [c¹-c²] where c¹ is the first character in the range and c² is the last, inclusive one. Example: [a-z] matches all lowercase characters (on case sensitive search). Inside alternative sets the following characters or expressions can be used:

• ^ : complements the set (ie: means that we want to match anything but what is in the set. • [:C:] :  $\underline{\text{character class}}\ C$ , where C can be any of the following (eg. [[:alnum:]]): : any letter or digit • alnum : any letter : any of the 127 ASCII characters • alpha 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 '-'. : any graphic character; everything except whitespace. graph ASCII and non-ASCII control characters, surrogates and code points unassigned by Unicode. · lower : lower-case letters. If case-fold-search is non-nil it also matches upper-case letters. Use < f11> s m f to toggle the value of this variable. • multibyte : any multi-byte character.
• nonascii : matches any non-ASCII character : matches any printing character, either whitespace, or graphic character matched by [:graph:] : any punctuation character. For multibyte character matches anything that has non-word syntax. • print punct any character that has whitespace syntax. Note that syntax depends on the major mode. space : any unibyte character unibyte : 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: • \sC : Match any character whose syntax table code is C. • \sc : Match any character whose syntax table code is not C. The syntax table code C cab be one of: • SPC or - : any whitespace : space, newline, tab, carriage return, formfeed, backspace : word constituents: normally all upper- and lower-case letters, and digits. W : symbol constituents: extra characters used in variable, function, command names. : punctuation characters. There is none in Lisp. C has some. Use **describe-syntax** to see : matches the open "parens" characters identified by the syntax-table of the buffer major-mode; typically: '(', '{', '[', ...]}', ']', ... matches the close "parens" characters identified by the syntax-table of the buffer major-mode; typically: '), '}', ']',... a description of the syntax-table of the current buffer. ) See: <u>▼ Help/Info</u> : string quotes. 🕏 This is useful and important. In 'string-syntax' the double quote does **not** require escaping! **Syntax Table** Inside the 'string-syntax' regexp, you can use  $\slash$ s" and  $\slash$ S". Syntax Descriptors
Syntax Classes In read-syntax those become \\s\" and \\S\" Syntax Flags 🔔 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 See Also (elisp): **Grouping:** Backslash constructs • \( ... \)
• \(?: ... \) : Capturing group **Match Data** : Shy, non-capturing group, which cannot be referred to with \1 to \9. Is not counted in the group numbers Replacing matched text • \(?num: **Simple Match Data** • \#1 to \#9 : Insert text from group \N but cast as an integer (only useful in lisp forms) Access Entire Match Other: <u>Data</u> · \? : prompt for user input Saving/Restoring Match : 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 in 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. See also this article. New Line, hard-tab and ASCII control character <u>basic char syntax</u>: 🤘 When typing a regexp in read-syntax inside Elisp code string, you can represent the newline character with the 🐚 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. • \d • \D : any digit Alternative: [[:digit:]] : any non digit character. Alternative: [^[:digit:]]

Description	<u>Keystroke</u>	Function	<u>Note</u>
Toggle easy-escape minor mode	<f11> "</f11>	(easy-escape-minor-mode &optional ARG)	Compose escape signs together to make regexps more readable.
Simplify display of escape characters used in regexp strings	<ul> <li>When this mode is active, \\ in strings is displayed as a single  fontified using 'easy-escape-face' and composed into 'easy-escape-character'.</li> <li>See <a href="mailto:easy-escape">easy-escape</a> for more information and an example, which includes: <ul> <li>"\\\\\\\\" \" (\\\\\)" \" "[\\\\\\\\\\\\\\\\\\\\\\\\\\\</li></ul></li></ul>		
	Adjust the foregroup	ape customization group (with und of 'easy-escape-face' -character' to a different chara	PEL use <f11> s <f3> 4 to open the easy-escape customization group):  cter.</f3></f11>
Regex-tool	While regex-tool is ru     The regex-tool uses I	nning: type <b>C-c C-c</b> to force Emacs Lisp regular expressions	e regular expression tester tool.
Open the regex-tool	<f11> s x T</f11>	(regex-tool)	Open a 3-window frame (replacing all previous windows). The 3 windows are:  Regular expression: enter/edit the expression freely  Test string: enter text to match against  Groups: lists the matching groups
Force an update of regex-tool windows	C-c C-c	(regex-tool-markup-text &optional BEG END LEN)	Force an update of the regex-tool windows.
Quit regex-tool	C-c C-k	(regex-tool-quit)	Quit regex-tool and close its 3 windows, revert to the window layout used before it was used.
Change the regex-tool backend engine - select between Emacs and Perl.	C-c <f2></f2>	(pel-select-regex-tool- engine)	Open the customize buffer to change regex-tool-backend user option.  • Select between Emacs and Perl backend.  • To close the customize buffer, type q.  • C-c C-c forces an update of the regex-tool to rescan using the new backend.
re-builder: Emacs Regular Expression Builder	Emacs provides another regexp tester: the built-in Regular Expression Builder, targeted to learn the Emacs regular expression syntax.  • To open (start) the regular expression, execute M-x re-builder. PEL provides the <f11> s x B key for that.  • While the re builder is running:  • type the regular expression (regexp) and see the matches in the other window,  • if needed, change the regular expression syntax (Emacs supports 3 syntaxes, see below):  • Use C-c C-i to select the new syntax.  • With PEL, you can also use <f11> s x <f1> to quickly open the customize page to change the default syntax user option.  • use one of the specialized commands available in reb-mode. These are listed below.  • To close (stop) the re-builder, type C-c C-q</f1></f11></f11>		
Build regular expression interactively with rebuilder  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 rebre-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 regular expression syntax	<f11> s x M-B</f11>	(pel-reb-re-syntax)	Select regular expression syntax used by the re-builder:  customize reb-re-syntax user option.  This user option is part of the re-builder group which contains other related settings.  This is a global binding: it can be used any time.
Select re-builder regular expression syntax	• C-c C-i • C-c <tab></tab>	(reb-change-syntax &optional SYNTAX)	Change the syntax used by the RE Builder.  • Affects current session. Does not change customize default.
Change target buffer	C-c C-b	(reb-change-target-buffer BUF)	Change the target buffer and display it in the target window.
Enter/leave sub- expression highlight mode	C-c C-e	(reb-enter-subexp-mode)	<ul> <li>Enter the subexpression mode in the RE Builder.</li> <li>Use this to only highlight the capturing groups.</li> <li>Type 0 to 9 to identify the group to highlight.</li> <li>Type q to exit that mode.</li> </ul>
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.
Quit re-builder	C-c C-q	(reb-quit)	Quit the RE Builder mode.
Convert string-syntax regexp to read-syntax	read-syntax, you need the backslash characte	to escape the double quote chr. So to identify a backslash in	This means that when writing a regex in Emacs Lisp code, which accepts what Emacs calls the aracter (to allow the " character be part of a string). The regex syntaxes also require escaping a Elisp string regex you need to use 4 consecutive backslash. The following tool help convert a secaping for Emacs Lisp purposes (as reb-copy, described above does).
Prompt for regexp, insert quoted & escaped regexp string at point.	<f11> s x <spc></spc></f11>	(pel-insert-regexp &optional INSERT_BOTH)	Prompt for a regexp literal, insert corresponding quoted regexp at point.  Converts what Emacs calls the 'string syntax' into the Emacs 'read syntax'.  When INSERT-BOTH argument is non-nil, insert both strings.  If INSERT-BOTH is a string, it is inserted between both strings, otherwise> is inserted.  At the prompt enter the literal regexp string, ie. a string with double quote, the capturing group parentheses and the alternative bar all escaped with a single backslash.  Example 1: when typing: \( (foo\ bar\) \)"  this text is inserted: \( (foo\ bar\)"-\\)"  Example 2: when typing: \( (foo\ bar\)"-\\)"  this text is inserted: \( (foo\ bar\)"-\\)"  Example 3, using a C-u prefix argument for: \( abc\)S"gh  this is inserted: \( abc\)S"gh -> "abc\)S\"gh"

Description	<u>Keystroke</u>	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.  More work needed here to better document and integrate inside PEL.		
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'
Toggle rtx-mode on/off	<f11> s x p</f11>	(rxt-mode &optional ARG)	Also alters the behavior of 'isearch-mode' when searching by regexp.  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.
Using <u>∑ Projectile</u>		mmands Projectile mode must in the key sequence: <f11> &lt;</f11>	be activated first. PEL provides the following key binding to do it when <b>pel-use-projectile</b> <f8> <f8></f8></f8>
Search in Project Using <u>National Projectile</u>	Searching in project buffers: projectile provides the multi-occur for project buffers, shown non the first row. Searching in project files: projectile provides the following recursive-grep like search tools, they are listed starting on the second row. The first one searches inside buffers, not in files. That may be useful when looking for unsaved buffers or for special buffers. The last 2 require external packages and external command line utilities that must have been installed separately: ripgrep and ag. The ripgrep and ag searches are faster than the standard grep search.		
Search for occurrence of text in project buffers	<f8> o</f8>	(projectile-multi-occur &optional NLINES)	Do a 'multi-occur' in the project's <b>buffers</b> .  • 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.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Search in project files with ripgrep  • Rust (ripgrep) regex syntax	<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 also set pel-use-ripgrep to t. Also note that the ripgrep command line utility must be installed manually.
Search in project files with ag  • PCRE regex syntax	<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.  • Requires the projectile, ag.el external packages as well as the ag 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 ag command line utility must be installed manually.
Replace in Project	Text replacement inside all project files.		
Replace test in project files	<f8> r</f8>	(projectile-replace &optional ARG)	Replace literal string in project using non-regexp 'tags-query-replace'.  • With a prefix argument ARG prompts you for a directory on which to run the replacement.

## Search & Replace — References

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<u>regex-tool</u> Tool using frame to test Emacs regular expressions.	visual-regexp-steroid	
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