Search and Replace

Description	Manatural.		Note
Description Emacs Search and	Keystroke Emacs provides severa	Function	Note accement mechanisms. They are described in this table along with their key bindings and the
Emacs Search and Replace See also:	various extensions prove Literal and regular exertions. With the Projectile With the Xref med This table describes the The following PEL key various mechanisms The beginning of the	vided by external packages. Empression search. Incremental at a package, you can search and hanisms, you can also jump to be classic search and replace means provide quick access to a lown. Use the commands to access table lists the various commands to several useful references at	nacs supports: Ind non-incremental. In one or several buffers and files. The same for replacement. In replace in all files of a specific project. In definitions of code elements. In echanism and reference to some of the other features of the Projectile. In all files and to the various customization groups that control the behaviour of these the PEL customization groups to control the various search mechanisms. In the PEL customization groups to control the various search mechanisms. In the PEL customization groups to control the various search mechanisms. In the PEL customization groups to control the various search mechanisms.
Open this PDF file. See also: <u>▼ Help/Info</u>	<f11> s <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the local copy of the <u>Search/Replace</u> PDF file unless a command prefix (like C-u) was used. In that case it opens the Github-hosted file instead.
Search Tools Selection See also: • <u>∑ Customize</u>	 Emacs' default ISc Anzu, ISearch Swiper searc Use <f11> s</f11> Set the pel-initial When any of the extra s 	earch (which uses the C-s bind with match count : () h with overview match list : () £2> to open the PEL customizes to open the PEL customizes to select the control of the control of the control open to select the control open the period open to select the control open the control open to select the control o	set pel-use-anzu to t. set pel-use-swiper to t group that holds these user options. ect which search tool is used when Emacs starts. corresponding pel-use- user option, pel-init makes the following commands available to change
<u>∑ Customize</u> PEL basic search support	<f11> s <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL basic search support. • When a prefix argument (like C-u) opens the buffer inside another window.
<u>∑ Customize</u> PEL Regular Expression support	<f11> s x <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL regular expression tool support.
Customize Search Tools	The following command	ds provide access to the custor	mization groups that control the behaviour of the various search tools.
∑ Customize Emacs basic search mechanism	<f11> s <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs Search support: search, anzu, swiper, iedit.
∑ Customize Emacs Regular Expression support	<f11> s x <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs regular expression support: rxt, re-builder, visual-regex.
Select Search Tool	Use the following comr	nands to show the currently act	tive search tool or to change it.
Show all search settings	<f11> s ?</f11>	(pel-show-search-status &optional WITH-DETAILS)	Display search status: the name of the search tool used, the regular expression tool used, the search case settings used. • With any prefix argument, displays more information about available choices.
Show which search tool is currently used	<f11> ? s</f11>	(pel-show-active-search-tool)	Display the currently used search tool.
Select search tool to use	<f11> s s</f11>	(pel-select-search-tool)	Prompt user for search tool to use with C-s . Show new active one.
Control/Query how	• The Swiper exter • Use the <f11> tool is used when En</f11>	nal package activated by pess <f2> command to open the nacs starts. See the Customize using either Emacs default ISe</f2>	el-use-anzu user option. Anzu provides a match count in the mode line. el-use-swiper user option. Swiper shows a list of matching lines in the mini-buffer. e PEL search customize group and set the pel-initial-search-tool user option to identify which the table for more information. earch (see below) and Swiper helps as they are both very useful in different scenarios.
Search Operates See also: Text Modes	"case folding": c "lax space matchi Emacs can also search supports the following superword-mode snake case like C subword-mode the symbols. PEL provides the ability lists: pel-modes-active pel-modes-active	ase insensitive searches. As sping": where number of spaces to for words and symbols, and the special mode: a that treats words separated by C++, Erlang. The treats sections of camelCas and the special mode.	ecified by search-upper-case user option variable. between words are considered unimportant. le concept of "words" can be modified to include or exclude underscores and hyphens. It by hyphen and underscores as a single entity, useful for programming languages using and PascalCase as distinct words. That is useful when editing portions of these longer matically for various major modes by identifying the major modes in the following user option of the search behaviour.
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 l</f11>	(isearch-toggle-lax- whitespace)	Toggle lax-whitespace searching on or off.
Toggle case impact on search	<f11> s m u</f11>	(pel-toggle-search-upper- case)	Toggle case sensitivity behaviour of yank in search prompt. • Rotates the value of search-upper-case to: • nil: upper case don't force case sensitivity • t: upper case force case sensitivity • not-yanks: upper case force case sensitivity, and lower case text when yank in search minibuffer.
Toggle subword-mode See also: • <u>▼ Text Modes</u>	• <f11> t m b • <f12> M-b • <m-f12> M-b</m-f12></f12></f11>	(subword-mode &optional ARG)	Toggle subword-mode: a minor mode that treats sections of camelCase and 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 See also: ▼ ∑ Text Modes	• <f11> t m p • <f12> M-p • <m-f12> M-p</m-f12></f12></f11>	(superword-mode &optional ARG)	 Toggle superword-mode: a minor mode that treats <u>snake case</u> as one word. In Lisp, '-' and ' are treated part of words. With 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 <u>snake case</u> is popular (Emacs Lisp, C, C++, Erlang, Python, etc)</f12>

Description	<u>Keystroke</u>	Function	<u>Note</u>
PEL Regular Expression Search/ Replace Command Selection	The <u>visual-regexp</u> en providing useful feed The <u>visual-regexp-steady</u>	hances the Emacs regexp search back when learning Emacs rego eroids extends this further by a	o searches. Emacs provides its own. But several external packages provide extensions. ch and replace engine by showing matches in the buffer while you are typing the regexp, exp. For replacement it shows both the match in original text and its replacement. Illowing the use of other rexgexp engines like pcre2el and Python. In sion to use for your regexp search and replace operations.
		: vailable whoids : vailable whoids	
Search/Replace Regexp Engine Selection See also: • <u>S Customize</u>	Emacs' default reg wisual-regexp It provides visual wisual-regexp An extension to emacs, emacs	gex engine : description set pel-use-val feedback during search and resteroids : description set pel-use-value set pel-u	e engines that control the way several Search and Replace commands operate: visual-regexp to t replace operation: it shows matches in buffer while typing the search text. visual-regexp-steroids is t time visual feedback but supports several regexp engines: ustom (no special custom regexp yet implemented by PEL). group that allows you to set these user options.
	When any of the extra s the currently used search	search tool is activated via the c ch/replace regexp engine and to	select which regexp engine is used when Emacs starts. corresponding pel-use- user option, pel-init makes the following commands available to change of see which one is currently active.
Show which search/replace regexp engine is used	<f11> ? S</f11>	(pel-show-active-search- regexp-engine &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).
Select the search/replace regexp engine	<f11> s S</f11>	(pel-select-search-regexp- engine)	Select the search/replace and regexp engine to use. • Shows currently used engine at the prompt. Supports completion. With PEL, activating the engines provided by visual-regexp-steroids currently prevents restoring the original engine. Needs more work.
newlines in search and replace			fy the newline character. Emacs does not use it in search and replace queries. to identify newline characters.
Non-Incremental Search			d using the commands and keystrokes listed below. he invocation of the incremental search commands (see below).
Search for: • text in marked region or, • word taken at point from the top of current or specified window	• <f11> s . • .;</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 .;</f11>
See also: Key-Chords Note: Captures string searched, Search again with C-s or C-r Supports toggling the word mode when grabbing word at point.	If there is 2 non-dedi if pel-search-fron another window (s if the pel-search- which case it sear If there are 3 or more If N is negative: pe Window selection: If N is not specifie If N is 0: se If N in [2,8] range, 8:= 4:='left 5:= 2:= Temporary word more following values of N If N is in [1018] ra If N is in [2028] ra In several major membedded unders If you do not want buffer, type the co	n-top-in-other user option is niee below). from-top-in-other user option ches from the top of the current non-dedicated windows search form a isearch-backward from dd, nil, 1, 3, 7 or 9 and larger: search in other window search in window identified by 'up 'ourrent 6:= 'right down of the top of the top of the top of the mode whange: temporary toggle subwords (but not all) using superwoods (but not all) using superwoods (but not all) using superwoods to change the mode but want to change the mode but want to change the mode but want to the mode with N in the 20 to 28 the minibuffer window, or a non-experience.	depends on the value of the pel-search-from-top-in-other user option: If (the default): search from the top of current buffer unless a numeric argument is specifying is t, search from the top of the other window unless a numeric argument 3 or 5 is specified, in the buffer. In into the buffer of the window identified by the numeric argument N (see below). If the bottom of the buffer in the window selected by the absolute value of N. In the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad: If the direction corresponding to the cursor in a numeric keypad:
Basic search: repeat using prompt history: <pre> <f5><up></up></f5></pre>	<fil> s f</fil>	&optional BOUND NOERROR COUNT)	 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>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'.
Search regexp backward • 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 con	nmands do not perform charact	rd for the type of punctuation between them. ter folding and toggling lax whitespace matching have no effect on them. eed on incomplete words, they are listed below.
 Incremental Search Word Captures string searched, search again with C-s or C-r 	• M-s w • <f11> s w i</f11>	(isearch-forward-word &optional NOT-WORD NO- RECURSIVE-EDIT)	Do incremental search forward for a sequence of words. With a prefix argument, do a regular string search instead. Like ordinary incremental search except that your input is treated as a sequence of words without regard to how the words are separated. See the command 'isearch-forward' for more information.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
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 to stop search also perform the Abandon search (and On search exit, original Consearch exit, or consearch exit,	ne key-chord after reaching end se search direction, use the other arch and leave cursor at found prequested operation (like C-a varieturn to where you started, typoint is added to mark ring, the lay mapped to isearch-forward. Source	ommands. Type text to search, to remove chars. Other key-chords can be used during d of buffer, wrap to other end and continue searching. Or repeat key-chord to repeat last search er key-chord (for example: if searching with C-s , use C-r to go backward) position if next command is to insert a character. Other editing key-chords also stop the search which ends the search and moves point to the beginning of the line). Type <esc><esc></esc></esc> or C-g C-g . Us you can use C-u C-SPC or C-x C-x to return to the position before the search. With PEL you can set the pel-use-swiper user option which activates the Swiper external you to change what command is mapped to C-s : search-forward or swiper. You can specify -tool user option. Use <f11></f11> s <f2></f2> to customize PEL controlled search.
Incremental Iteral search regexp search Captures string searched,	• C-s • %-f	(isearch-forward &optional REGEXP-P NO-RECURSIVE- EDIT)	Do incremental search forward: start or continue a search. On PEL: this key mapping is used when either pel-initial-search-tool nil or 'anzu' when pel-use-anzu is t. If pel-use-swiper is t, you can use <f11> s to change the tool used for search operations.</f11>
search again with C-s or C-r	C-u 1 C-s M C-s With PEL, C C C-u C-s does n Instead you can To continue to next n To change direction: To repeat last comple S-f is always mapp	−s works. ot work to perform a regexp ISe also use C−M−s to perform the natch during search: type C-s a type C-r eted incremental search forward	e regexp incremental search forward. Igain (with prefix argument if that was used for regexp Isearch). Id: C-s C-s
Perform Swiper search: interactive search with an overview list	C-s	(swiper &optional INITIAL-INPUT)	Perform a Swiper text search. In a minibuffer: show several matches as they are being typed. On PEL: this key mapping is used when pel-use-swiper is t and pel-initial-search-tool is set to swiper. You can use 111 s s to change the tool used for search operations.
	Select with C-n, C-p,Chose (and stop the	allowed by separating with a sp. <up> and <down>. search) with RET.</down></up>	pace. in the search expression. So: type "foobar" to search for "foo_bar".
Incremental Iteral search regexp search Captures string searched,	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>
• search again with C-s or C-r	C-u 1 C-r M C-s With PEL, C C C-u C-r does n Instead you can To continue to next n To change direction: To repeat last previou	-r works. ot work to perform a regexp ISe also use C-M-r to perform the natch during search: type C-r a	e regexp incremental search forward. gain (with prefix argument if that was used for regexp Isearch. rch backward: C-r C-r
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 C-s can also be done here. For example repeating the search can be done with C-s .
ISearch - Regexp - backward Incremental regexp search	C-M-r	(isearch-backward-regexp &optional NOT-REGEXP NO- RECURSIVE-EDIT)	Incremental backward regular expression search. 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> . I-search-word-from-top, bound to <f11> s .</f11>
Search symbol at point Grab word at point with C-w Captures string searched, search again with C-s or C-r 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 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.
ISearch for symbol Grab word at point with C-w Captures string searched, search again with C-s or C-r	M-s _	(isearch-forward-symbol &optional NOT-SYMBOL NO-RECURSIVE-EDIT)	Prompt for symbol, perform symbol search . • Subsequent searches for the same symbol is done with C-s and/or C-r . • Useful for searching code. For example: "data size" matches "data.size" as well as "data->size", "data + size" and "data size".
ISearch for sequence of words • Grab word at point with C-w • 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. After entering the prompt type C-w to capture the word(s) at point for the search

	<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Du	ring ISearch		can be modified to perform other cremental search command you	ner searches. 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 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.
	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	repeat search backward	• C-r • %-d	(isearch-repeat-backward)	Repeat the current search, start searching again going backward
U	Select searched string	While performing a sea	rch you can issue the following	commands to modify the searched string text.
R	History previous	м-р	(isearch-ring-retreat)	Retrieve searched text from search history: get previous entry from history
N	History next	M-n	(isearch-ring-advance)	Retrieve searched text from search history: get next entry from history
G	"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.
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	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.
C	Add character at point to search string	С-М-У	(isearch-yank-char &optional ARG)	Appends character at point to the search string. If numeric argument appends that many characters.
Н	Yank from kill ring to search string	• С-у • Ж-е	(isearch-yank-kill)	Pull string from kill ring into search string.
C	Replace just-yanked search string with previously killed string	м-у	(isearch-yank-pop)	Replace just-yanked search string (via (search-yank-kill) with previously killed string.
M	Modify search method	While performing a sea	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. 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-% You can repeat the middle command to include several chars, words or lines. When prompted for replacement use M-p to retrieve the original text that you can then modify.
	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.
	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.
	Modify search mode	While performing a sea	rch the following commands mo	odify the search modes.
	Toggle lax whitespace matching	M-s SPC	(isearch-toggle-lax- whitespace)	Toggle lax matching during this search. Lax matching is on by default. • Any number of whitespace is accepted in the default lax matching. This can also be customized. When off: search exact string.
	Toggle case sensitivity	• M-c • M-s-c	(isearch-toggle-case-fold)	Toggle search case sensitivity.
	Toggle searching in invisible text	M-s i	(isearch-toggle-invible)	Toggle whether invisible text is searched. • Useful when editing outlined text.
	Toggle regular-expression searching	• M-r • M-s-r	(isearch-toggle-regexp)	Toggle regexp searching on or off.
	Toggles word mode	M-s w	(isearch-toggle-word)	Toggle word searching on or off. • Turning on word search turns off regexp mode. • For example: in C file: the expression it->second.first is not matched by "is second first" but when the word mode (or the symbol mode) is activated it matches.
	Toggles symbol mode	M-s _	(isearch-toggle-symbol)	Toggle symbol search mode. • Useful for searching code. For example: "data size" matches "data.size" as well as "data-size", "data + size" and "data size".
	Toggle character folding	M-s '	(isearch-toggle-char-fold)	Toggle char-fold searching on or off. • Turning on character-folding turns off regexp mode. • When character folding is activated all accentuated letters for a given letter match the letter, otherwise it does not match (ie: 'à' matches 'a' when character folding is activated and does not otherwise).
	Stop the incremental search		und text. Stop current search ar rts current search and return po	nd leave cursor right after the found text. int to original location.
	mbined expression regex arch	<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	<u>Note</u>
Occur Search	The results are shown in <pre> <pr< td=""><td>nside an *Occur* buffer which orresponding position in the se by the match in other window (beginning and end of the buffer er, refreshing the search results be Occur Edit Mode which allower Edit Mode eccurrences (in original buffer): E: C-x or M-g n o</td><td>ut does not select it) ws edits in both buffers simultaneously via edits in the *Occur* buffer. r M-g M-n</td></pr<></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	nside an *Occur* buffer which orresponding position in the se by the match in other window (beginning and end of the buffer er, refreshing the search results be Occur Edit Mode which allower Edit Mode eccurrences (in original buffer): E: C-x or M-g n o	ut does not select it) ws edits in both buffers simultaneously via edits in the *Occur* buffer. r M-g M-n
List all matching occurrences of regexp in current buffer	M-s o	(occur REGEXP &optional NLINES)	 M-g M-p Prompts for a regexp Can use M-n at prompt to recurse previous search strings Use M-n prefix to specify n lines of context in result. Default=list-matching-lines-default-context-lines.
Occur search in selected buffers	<f11> s 0</f11>	(multi-occur-in-matching- buffers BUFREGEXP REGEXP &optional ALLBUFS)	 "M-s o" can be used during an incremental search. 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.
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 • 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 mode	C-c C-c	(occur-cease-edit)	Exit the occur-edit mode. See "M-s o" note above.
<u>iEdit mode</u>			egion in the same way simultaneously loads, installs and activates it when either pel-use-iedit or pel-use-lispy user options is set to t.
Toggle iedit mode See also: • ∑ Cursor • ∑ Highlight • ∑ Key-Chords	If iEdit mode is off, tu When iEdit mode is t occurrence is modifice. If region is not active address, markup tag. In the above two situ refactoring in program. You can also switch to	urn iEdit mode on. urned on, all the occurrences of ed, the change are propagated of 'iedit-default-occurrence' is caror current symbol(or word). ations, with digit prefix argumnming. to iEdit mode from isearch mode.	Toggle iEdit mode: edit all symbols in scope or region simultaneously. Both iEdit and Flyspell use the C-; key as their default binding. PEL detects and reports that situation: modify the binding of one of them if you see it. e mark, point, prefix argument and variable 'iedit-transient-mark-sensitive'. f the current region in the buffer (possibly narrowed) or a region are highlighted. If one to all other occurrences simultaneously. alled to get an occurrence candidate, according to the thing at point. It might be url, email tent 0, only occurrences in current function are matched. This is good for renaming the directly. The current search string is used as occurrence. All occurrences of the current
	intended to recover law the region active, iEdit me with digital prefix arg behavior serves as a law the iEdit mode is on an region is excluded. Turn off iEdit mode is on an iedit does not prope until this bug-fix is	If ix argument, the occurrence ast iEdit mode which is turned of sal prefix argument, the occurre ode is limited within the current jument 1, iEdit mode is limited of start point of incremental selected region is active, iEdit mode is diregion is active, with a universal other situations. If you disable iedit-mode restorations incorporated PEL implements ode breaking the key-chords of	on the current symbol or the active region, which means just one instance is highlighted. This
iedit-mode help commands	Use the following comm	nands to get extra help on the o	commands available when the edit-minor mode is active.
Show edit-mode help	<f1> <f1></f1></f1>	(iedit-help-for-help)	Display ledit help menu. Use b to show all edit-mode key binding or m for complete help.
Show keys used to modify occurrences	• C-? • <f1> <f2></f2></f1>	(iedit-help-for-occurrences)	Display a short message showing the key bindings for edit commands used to modify the occurrence text.
Show/hide occurence lines.	• C-" • <f1> C-o</f1>	(iedit-show/hide- occurrence-lines)	Show or hide occurrence lines using invisible overlay.
Show/Hide context lines	• C-' • <f1> C-a</f1>	(iedit-show/hide-context- lines &optional ARG)	Show or hide context lines. Show all instances selected by hiding all occurence lines. A prefix ARG specifies how many lines before and after the occurrences are not hidden; negative is treated the same as zero. If no prefix argument, the prefix argument last time or default value of 'iedit-occurrence-context-lines' is used for this time.
iedit-mode navigation	Use the following comm	nands to move point to other or	ocurence.
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></tab>	(iedit-next-occurrence)	Move forward to the next occurrence in the 'iedit'. If the point is already in the last occurrences, you are asked to type another 'iedit-next-occurrence', it starts again from the beginning of the buffer.
Move to first occurence	M-<	(iedit-goto-first- occurrence)	Move to the first occurrence.
Move to last occurence	M->	(iedit-goto-last- occurrence)	Move to the last occurrence.
iedit-mode search area	Use the following comn	nands to change the text area v	where occurrences are found.
Toggle selection of occurrence	м-;	(iedit-toggle-selection)	Select or deselect the occurrence under point. Select or deselect the occurrence under point. When deselecting, if there was only 1 occurrence, iedit-mode is also turned off.
Restrict searched area to current function	м-н	(iedit-restrict-function &optional ARG)	Restricting ledit mode in current function.

Description	<u>Keystroke</u>	Function	<u>Note</u>
Restrict searched area to current line	M-I	(iedit-restrict-current-line)	Restrict ledit mode to current line.
Expand searched area backwards	M-{	(iedit-expand-up-a-line &optional N)	After start iedit-mode only on current symbol or the active region, this function expands the search region upwards by N line. N defaults to 1. If N is negative, collapses the top of the search region by '-N' lines.
Expand searched area forward	M-}	(iedit-expand-down-a-line &optional N)	After start iedit-mode only on current symbol or the active region, this function expands the search region downwards by N line. N defaults to 1. If N is negative, collapses the bottom of the search region by '-N' lines.
Expand searched area to previous match	м-р	(iedit-expand-up-to- occurrence &optional ARG)	Expand the search region upwards until reaching a new occurrence. If no such occurrence can be found, throw an error. With a prefix, bring the top of the region back down one occurrence.
Expand searched area to next match	M-n	(iedit-expand-down-to- occurrence &optional ARG)	Expand the search region downwards until reaching a new occurrence. If no such occurrence can be found, throw an error. With a prefix, bring the bottom of the region back up one occurrence.
Toggle case sensitivity of occurence matching	• M-C • <f1> M-c</f1>	(iedit-toggle-case- sensitive)	Toggle case-sensitive matching occurrences.
iedit-mode replacement	Use the following comm	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 • M-C	(iedit-upcase-occurrences)	Convert occurrences to upper case. With PEL, the default M-U key is replaced by M-C. This way M-U remains bound to pelredo.
Replace text of occurrences	M-R	(iedit-replace-occurrences &optional TO-STRING)	Replace occurrences with STRING. Prompt for replacement string. • Note: instead of using this command the occurrences can also be edited using in place.
Blank occurences	M-SPACE	(iedit-blank-occurrences)	Replace occurrences with blank spaces.
Delete occurrences text	M-D	(iedit-delete-occurrences)	Delete occurrences.
Prefix occurrences with a number	M-N	(iedit-number-occurrences START-AT &optional FORMAT-STRING)	Insert numbers in front of the occurrences. • START-AT, if non-nil, should be a number from which to begin counting. FORMAT, if non-nil, should be a format string to pass to 'format-string' along with the line count. • When called interactively with a prefix argument, prompt for START-AT and FORMAT.
Other iedit-mode commands			
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	Simple text replacemen	nt command.	
Unconditional replace	<f11> s r</f11>	(replace-string FROM- STRING TO-STRING &optional DELIMITED START	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>	(replace-regexp REGEXP TO-STRING & optional DELIMITED START END BACKWARD) (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 if the pel-bind-keys-for-regexp 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-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 C-c : help C-c a : toggle show all or up to the default limit. Default limit is specified by vr/default-feedback-limit
Visual Regexp Replace with engine selection	<f11> s x M-r</f11>	(vr/select-replace)	C-c p: toggle preview The following are available only when using the Python regexp engine: C-c i: toggle case sensitivity (ignore case) C-c m: toggle multi-line match of ^ and \$ C-c s: toggle dot matches newline C-c u: enable Unicode by default.
Visual Regexp Search to multiple-cursors See also: <u>∑ Cursor</u>	• <f11> s x M • C-c m</f11>	(vr/mc-mark REGEXP START END) Requires both visual-regexp and multiple-cursors	Convert regexp selection to multiple cursors. • First performs a Visual regexp search. When the result of the search is accepted (by hitting RET) all matches are converted to multiple cursors, which allows performing the same operations on all matches until the user quits the multiple cursor operation with C-g.
Visual Regexp Search to multiple-cursors with engine selection See also: <u>∑ Cursor</u>	<f11> s x M-m</f11>	external packages. (vr/select-mc-mark) Requires both visual-regexp-steroids & multiple-cursors external packages.	☑ 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 user option is set to t .

<u>Description</u>	<u>Keystroke</u>	Function	Note
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>	(query-replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P) — (pel-query-replace-string)	Replace some occurrences of a regex match with a specified string. • A negative argument replaces backwards. • C-M-% does not work in Terminal mode. ② PEL only activates the C-c q binding if pel-bind-keys-for-regexp user option is set to t. ③ ② 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 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
with engine selection		Requires <u>visual-regexp-steroids</u> : available when pel-use-visual-regexp-steroids is t .	C-c p: toggle preview The following are available only when using the Python regexp engine: C-c i: toggle case sensitivity (ignore case) C-c m: toggle multi-line match of ^ and \$ C-c s: toggle dot matches newline C-c u: enable Unicode by default.
Replace text with regexp found in marked file(s) using Dired See also: M Dired	Open a Dired buffer with C-x d then mark the files and directories to search/replace into with m ,	(dired-do-find-regexp-and- replace FROM TO)	Replace matches of FROM with TO, 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, files matching 'grep-find-ignored-files' and subdirectories matching 'grep-find-ignored-directories' are skipped in the marked directories.
	then invoke the command by typing Q		REGEXP should use constructs supported by your local 'grep' command.
QR Response : keys to use during a query replacement to identify actions	• n or • . • , • ! • ` • ` • ` • ` • ` • ` • ` • ` • ` • `	replace all the rest and don't at back up to the previous instant undo last replacement undo ALL replacements abort/exit query-replace modify the replacement string enter recursive edit - Exit the related this instance and enter exit recursive edit and resume Exit recursive edit and exit que get help replace all strings in all buffer, in the product of the product of the previous results and the product of the product of the previous results and the product of the previous results and the pr	recursive edit with one of: C-M-c or C-1 recursive edit —to make a custom replacement query-replace
Interpret and Lint Emacs Lisp Regexp with <u>xr</u> . Convert it to <u>rx-style</u> <u>semantic form</u>	 All commands descri The <u>rx Emacs Lis</u> PEL provides <u>xr</u>, a r 	bed below require the <u>xr</u> extern p macro can be used in Emacs egex parser and analyzer, whe	terprets Emacs Lisp regexp and prints a descriptive rx-style semantic form to explain it. all package activated when the pel-use-xr user option is set to t. s Lisp code to express a regexp in a more readable fashion. Type <f1> o rx for more info. n the pel-use-xr user option is set to t. PEL provides the following commands which take a scription inside the *regexp-eval* buffer.</f1>
Interpret Emacs Lisp regexp at point.	<f11> s x x</f11>	(pel-xr-at-point &optional DIALECT)	Grab regexp at point and print its interpretation in *regexp-eval* buffer. • Uses `xr-pp' to expand regexp in rx notation. • If region is marked, grab content of region instead. • DIALECT is selected by numeric argument: • nil, 1 := medium verbose • < 0 := terse • 4 := brief : short keywords • 16 := verbose : verbose keywords. To pass 4 type the C-u prefix, and 16 type C-u C-u prefix keys. • LIMITATION: it does not support double quote inside a regexp taken at point even if it is quoted. To grab it mark the region, excluding the delimiting quotes.
Interpret Emacs Lisp regexp provided at prompt.	<f11> s x X</f11>	(pel-xr-regxp)	Prompt for regexp and print its interpretation in *regexp-eval* buffer. • Uses `xr-pp' to expand regexp in rx notation.
Lint Emacs Lisp regexp at point	<f11> s x 1</f11>	(pel-xr-lint-at-point &optional FOR-FILE-MATCH)	Lint the regexp at point or inside region if region is marked. • If FOR-FILE-MATCH argument is non-nil (use any prefix keystroke such as C-u or M or C), perform additional checkings to see if the regexp is OK for matching file name. • LIMITATION: does not support double quote inside a regexp taken at point even if it is quoted. To grab it: mark the region, excluding the delimiting quotes.
Lint Emacs Lisp regexp provided at prompt	<f11> s x L</f11>	(pel-xr-lint &optional FOR- FILE-MATCH)	Prompt for a regexp, lint it and display results. If FOR-FILE-MATCH argument is non-nil (use any prefix keystroke such as C-u or M or C), perform additional checkings to see if the regexp is OK for matching file name.
relint — Regular Expression Lint See also: ⊈शा - Emacs Lisp	the current Emace an Emacs Lisp file all Emacs Lisp file From the *relint* buffile the current Emacs the current Emacs	s Lisp buffer, or, es inside a directory tree. er press g to re-run the same cl	
	Requires the relint e	xternal package. 🛂 PEL instal	ar expressions using Emacs batch invocation. Is and activates it when the pel-use-relint user-option is set to t.
Lint regular expressions in current buffer	<f11> s x M-l b</f11>	(relint-current-buffer)	Scan the current buffer for regexp errors. The buffer must be in emacs-lisp-mode.
Lint regular expressions in specified file	<f11> s x M-l f</f11>	(relint-file FILE)	Scan FILE, an elisp file, for regexp-related errors. • Prompts for Emacs Lisp file.
Lint regular expressions in specified directory	<f11> s x M-1 d</f11>	(relint-directory DIR)	Scan all *.el files in DIR for regexp-related errors. Prompts for the directory. Scans directory tree: all Emacs Lisp files in the specified directory all all sub-directories, recursively.

Description Keystroke **Function** 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 $\mbox{\em V}$: end of {line, string, buffer} : beginning of {string, buffer} : End of {string, buffer} • \' : word boundary marker : any word character. Alternative: [[:word:1] \w : any non-word character. Alternative: [^[:word:]] Basic: : (a period) any single character except newline. To search for any character including newline use: [^\0] · \. : 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:= the longest valid match) - greedy : 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:] : 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 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. unibyte : any unibyte character : any upper-case letter, as determined by the current case table upper If case-fold-search is non-nil, it also matches any lower-case letter! word : any character that has word syntax.
 xdigit : the hexadecimal digits: '0' through '9', 'a' through 'f' and 'A' through 'F'. **Special Characters:** • \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
 w : 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 \s" and \S". In read-syntax those become \\s\" and \\S\" 🔔 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:** : Capturing group • \(... \)
• \(?: ... \) : Shy, non-capturing group, which cannot be referred to with \1 to \9. Is not counted in the group numbers • \1 to \9
• \#1 to \#9 : Insert text from group N
: 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 • \&
• \,(form ...) : insert whole match string : 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 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 \d : any digit Alternative: [[:digit:]] • \D : 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	• See <u>easy-escape</u> • "\\(\\ \\)" • "[\\t\\n]" •	Github page for more informat ↔ "()" → "[\t\n]"	s a single fontified using 'easy-escape-face' and composed into 'easy-escape-character'. tion and an example, which includes:
	You can also identify Use <f11> s <f2 distin="" easy-esc<="" find="" if="" in="" options="" td="" the="" you=""><td>major modes where it is activat > to open the relevant PEL cust ction between the fontified dou</td><td>PEL activates when the pel-use-easy-escape is set to t. ted automatically by setting the pel-modes-activating-easy-escape user-option. tomization group. ble-slash and the single slash too subtle, try the following, customizing the following user- PEL use <f11> s <f3> 5 to open the easy-escape customization group):</f3></f11></td></f2></f11>	major modes where it is activat > to open the relevant PEL cust ction between the fontified dou	PEL activates when the pel-use-easy-escape is set to t . ted automatically by setting the pel-modes-activating-easy-escape user-option. tomization group. ble-slash and the single slash too subtle, try the following, customizing the following user- PEL use <f11> s <f3> 5 to open the easy-escape customization group):</f3></f11>
	Set 'easy-escape	-character' to a different chara	_
Regex-tool	While regex-tool is ru The regex-tool uses I	inning: type C-c C-c 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 <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. • C-c C-c forces an update of the regex-tool to rescan using the new backend.
re-builder: Emacs Regular Expression Builder	To open (start) the received while the re builder is type the regular e if needed, change Use C-c C-i With PEL, you use one of the spe	gular expression, execute M-x s running: xpression (regexp) and see the the regular expression syntax to select the new syntax. can also use <f11> s x <f< td=""><td>ular Expression Builder, targeted to learn the Emacs regular expression syntax. re-builder. PEL provides the <f11> s x B key for that. matches in the other window, (Emacs supports 3 syntaxes, see below): 1> to quickly open the customize page to change the default syntax user option. reb-mode. These are listed below.</f11></td></f<></f11>	ular Expression Builder, targeted to learn the Emacs regular expression syntax. re-builder. PEL provides the <f11> s x B key for that. matches in the other window, (Emacs supports 3 syntaxes, see below): 1> to quickly open the customize page to change the default syntax user option. reb-mode. These are listed below.</f11>
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 M-B</f11>	(pel-reb-re-syntax)	Select regular expression syntax used by the re-builder: • customize reb-re-syntax user option. Solution 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	C-c C-e	(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	read-syntax, you need the backslash characte	to escape the double quote char. 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 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: \((foo\ bar\) \) 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"

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
PCRE support: pcre2el	This requires the process of the provide live font-location and provides the comprovides of the provides of the prov	provides the rxt-mode (RegeX ntax to PCRE tax to rx, an S-expression base regexps by showing the parse e list of strings (productions) manager pocking of regexp syntax (so far of	s available when pel-use-pcre2el is t. p Translator or RegeXp Tools). According to its documentation the pcre2el package provides the d regexp syntax tree in rx form and highlighting the corresponding chunks of code atching a regexp, provided the list is finite only for Elisp buffers – 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.
Explains regexp at point	C-c / /	(rxt-explain)	 With a prefix argument ARG, enable rxt-mode if ARG is positive, and disable it otherwise. 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.
		mmands Projectile mode must n: the key sequence: <f11> <</f11>	be activated first. PEL provides the following key binding to do it when pel-use-projectile <f8> <f8></f8></f8>
Search in Project Using <u>∑ Projectile</u>	Searching in project The first one searc The last 2 require	files: projectile provides the fol- ches inside buffers, not in files. external packages and external d ag searches are faster than the arch results use: urrence: C-x or M-	multi-occur for project buffers, shown non the first row. lowing recursive-grep like search tools, they are listed starting on the second row. That may be useful when looking for unsaved buffers or for special buffers. command line utilities that must have been installed separately: ripgrep and ag. e standard grep search. g n or M-g M-n g p or M-g M-p
Search for occurrence of text in project buffers	<f8> o</f8>	(projectile-multi-occur &optional NLINES)	Do a 'multi-occur' in the project's buffers . • With a prefix argument, show NLINES of context.
Search in project files with recursive grep	<f8> s g</f8>	(projectile-grep &optional REGEXP ARG)	 With a prefix argument, snow NLINES of context. 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	<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	<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

GNU Emacs - Searching and Replacement Regular Expression Help © EmacsWiki Search - Incremental Search - Emacs Wiki Search - Incremental Search - Emacs Wiki Large list of commands and key bindings. Also contains links to several other pages describing search modificite, etc Replace - GNU Emacs Manual - Replacement Commands Replace - EngoEmacs - Emacs: Find and Replace Commands Replace - EngoEmacs - Emacs: Find and Replace Commands Replace - How do 1 "M-x replace-string" across all buffers in emacs? Emacs Regular Expression Syntax Emacs Regular Expression Syntax @ GNU Emacs Manual Regeler Expression © Emacs Wiki Also describe the Emacs Lisp regexp syntax. Less dry. More examples. Describes the power of Emacs regexp in replace-regexp with ability to use embedded lisp code. Several examples. Emacs Crash Regexp © Emacs Wiki More examples using query-replace-regexp which query before any change. Multiline Regexp © Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output More examples several packages and functions to perform directory tree searches. Regular Expressions & re-builder re-builder. The Interactive regexp builder, © Mastering Emacs by Mick of Paters and Pat
Replace - GNU Emacs Manual - Replacement Commands Replace - ErgoEmacs - Emacs: Find and Replace Commands Replace - Leva do 1 "M-x replace-string" across all buffers in emacs? Emacs Regular Expression Syntax Emacs Regular Expression Syntax @ GNU Emacs Manual Replace - How do 1 "M-x replace-string" across all buffers in emacs? Emacs Regular Expression Syntax @ GNU Emacs Manual Regular Expression @ Emacs Wiki Replace Regexp with Lisp Expressions @ Emacs Wiki Replace Regexp with Lisp Expression @ Emacs Wiki Replace Regexp @ Emacs Wiki More examples using query-replace-regexp which query before any change. Multilline Regexp @ Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder: the Interactive regexp builder, @ Mastering Emacs by Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax with from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Large list of commands and key bindings. Also contains links to several other pages describing search mode lock. Quick view of what's available by default. Some info here using ICycle. Some info here using ICycle. Search at point with "M-s."
lcicle, etc Replace - GNU Emacs Manual - Replacement Commands Replace - ErgoEmacs - Emacs: Find and Replace Commands Replace - How do 1 "M-x replace-string" across all buffers in emacs? Emacs Regular Expression Syntax Emacs Regular Expression Syntax Emacs Regular Expression Syntax @ GNU Emacs Manual Regular Expression @ Emacs Wiki Also describe the Emacs Lisp regexp syntax. Less dry, More examples. Describes the Demacs regexp syntax. Less dry, More examples. Describes the Demacs regexp in replace-regexp with ability to use embedded lisp code. Several examples. Multilline Regexp @ Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder: the Interactive regexp builder, @ Mastering Emacs by Mickey Potersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the Interactive regular expressions? **Regular Expressions created with the regex builder use syntax different from the Interactive regetar builder **Search at Point** "super star" or find the word under the cursor equivalent in Search at point with "M-s ."
Replace - ErgoEmacs - Emacs: Find and Replace Commands Replace - How do I "M-x replace-string" across all buffers in emacs? Emacs Regular Expression Syntax Emacs Regular Expression Syntax © GNU Emacs Manual Regular Expression © Emacs Wiki Replace Regex with Lisp Expressions © Emacs Wiki Replace Regex p with Lisp Expressions © Emacs Wiki Replace Regex p Emacs Wiki More examples using query-replace-regexp which query before any change. Multiline Regexp © Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder: the Interactive regexp builder, © Mastering Emacs by Mick ye degular expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressions? Resular Expressions created with the regex builder use syntax different from the interactive regular expressio
Replace - How do I "M-x replace-string" across all buffers in emacs? Emacs Regular Expression Syntax Emacs Regular Expression Syntax @ GNU Emacs Manual Regular Expression © Emacs Wiki Replace Regexp with Lisp Expressions © Emacs Wiki Replace Regexp with Lisp Expressions © Emacs Wiki Replace Regexp @ Emacs Wiki More examples using query-replace-regexp which query before any change. Multiline Regexp © Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder Expressions & re-builder re-builder Emacs Wiki Mastering Emacs by Mickey Petersen Re Builder © Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s ."
Emacs Regular Expression Syntax @ GNU Emacs Manual Regular Expression © Emacs Wiki Replace Regexp with Lisp Expressions @ Emacs Wiki Replace Regexp with Lisp Expressions @ Emacs Wiki Replace Regexp with Lisp Expressions @ Emacs Wiki Describes the power of Emacs regexp yntax. Less dry. More examples. Bescribes the power of Emacs regexp in replace-regexp with ability to use embedded lisp code. Several examples. Muttiline Regexp @ Emacs Wiki More examples using query-replace-regexp which query before any change. Muttiline Regexp @ Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder.el Emacs built-in regular expression builder mode code. Rebuilder: the Interactive regexp builder. @ Mastering Emacs by Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions? Repular Expressions created with the regex builder use syntax different from the interactive regular expressions?
Emacs Regular Expression Syntax @ GNU Emacs Manual Regular Expression © Emacs Wiki Also describe the Emacs regexp syntax. Less dry. More examples. Beplace Regexp with Lisp Expressions © Emacs Wiki Describes the power of Emacs regexp in replace-regexp with ability to use embedded lisp code. Several examples. Emacs Crash Regexp © Emacs Wiki More examples using query-replace-regexp which query before any change. Multiline Regexp © Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder.el Emacs Duilt-in regular expression builder mode code. A great little article on the various regexp syntaxes supported by the re-builder and how to change them. Mickey Petersen Re Builder © Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
Regular Expression @ Emacs Wiki Replace Regexp with Lisp Expressions @ Emacs Wiki Describes the power of Emacs regexp in replace-regexp with ability to use embedded lisp code. Several examples. More examples using query-replace-regexp which query before any change. Multiline Regexp @ Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder: the Interactive regexp builder, @ Mastering Emacs by Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
Replace Regexp with Lisp Expressions @ Emacs Wiki Emacs Crash Regexp @ Emacs Wiki More examples using query-replace-regexp which query before any change. Multilline Regexp @ Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder: the Interactive regexp builder, @ Mastering Emacs by Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Describes the power of Emacs regexp in replace-regexp with ability to use embedded lisp code. Several examples. More examples using query-replace-regexp which query before any change. More examples using query-replace-regexp which query before any change. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. A great little article on the various regexp syntaxes supported by the re-builder and how to change them. A great little article on the various regexp syntaxes supported by the re-builder and how to change them. Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
examples. Emacs Crash Regexp @ Emacs Wiki More examples using query-replace-regexp which query before any change. Multiline Regexp @ Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder: the Interactive regexp builder, @ Mastering Emacs by Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in More examples using query-replace-regexp which query before any change. More examples using query-replace-regexp which query before any change. More examples using query-replace-regexp which query before any change. More examples using query-replace-regexp which query before any change. More examples using query-replace-regexp which query before any change. More examples using query-replace-regexp which query before any change. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. A great little article on the various regexp syntaxes supported by the re-builder and how to change them. More examples using query-replace-regexp which query before any change.
Multiline Regexp @ Emacs Wiki Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder.el Emacs built-in regular expression builder mode code. A great little article on the various regexp syntaxes supported by the re-builder and how to change them. Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
Searching in directory tree Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder.el Emacs built-in regular expression builder mode code. re-builder: the Interactive regexp builder, @ Mastering Emacs by Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. Emacs built-in regular expression builder mode code. A great little article on the various regexp syntaxes supported by the re-builder and how to change them. Search at Point with "M-s."
Is there a way to use query-replace from grep/ack/ag output modes? Regular Expressions & re-builder re-builder.el Emacs built-in regular expression builder mode code. Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches. This page describes several packages and functions to perform directory tree searches.
Regular Expressions & re-builder re-builder.el Emacs built-in regular expression builder mode code. re-builder: the Interactive regexp builder, @ Mastering Emacs by Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
re-builder: the Interactive regexp builder, @ Mastering Emacs by Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Emacs built-in regular expression builder mode code. A great little article on the various regexp syntaxes supported by the re-builder and how to change them. A great little article on the various regexp syntaxes supported by the re-builder and how to change them. Search at little article on the various regexp syntaxes supported by the re-builder and how to change them.
A great little article on the various regexp syntaxes supported by the re-builder and how to change them. Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
Mickey Petersen Re Builder @ Emacs Wiki Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
syntax different from the interactive regular expressions? re-builder: the Interactive regexp builder Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
Search at Point "super star" or find the word under the cursor equivalent in Search at point with "M-s."
"super star" or find the word under the cursor equivalent in Search at point with "M-s ."
Thing at point @ Emacs Wiki Describes functions to retrieve text elements at point
The built-in regex-opt.el library The built-in regex-opt package helps creation of simple regular expression strings.
Regexp Opt @ EmacsWiki Quick description of regex-opt capabilities.
The built-in rx.el library The rx macro converts an easy-to-read s-expression description of a regex into a regular expression
rx @ EmacsWiki A quick overview of the idea behind rx. Also shows a macro that extends it.
Exploring Emacs Rx Macro from Francis Murillo A more extensive presentation of rx with several examples.
Other Regular Expression Emacs Lisp Libraries
xr - converts regex to structured rx form Converts a string regular expression into the rx notation S-Exp form. Usefull to understand complex regex in Emacs Lisp source code.
As described in its overview: "`pcre2el' or `rxt' (RegeXp Translator or RegeXp Tools) is a utility for working we regular expressions in Emacs, based on a recursive-descent parser for regexp syntax."
visual-regexp Useful library that provides commands to show regex matches in search and replace operations.
visual-regexp-steroid Extends visual-regexp to bring simpler regex to Emacs commands. It supports both Python and pcre2el. It requires Python installed.
Tool using frame to test Emacs regular expressions.