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 provided by external packages. Emacs supports: Literal and regular expression search. Incremental and non-incremental. In one or several buffers and files. The same for replacement. With the Projectile package, you can search and replace in all files of a specific project. With the Nate mechanisms, you can also jump to the definitions of code elements. This table describes the classic search and replace mechanism and reference to some of the other features of the Projectile. The following PEL keys provide quick access to a local copy of this file and to the various customization groups that control the behaviour of these various mechanisms. Use the commands to access the PEL customization groups to control the various search mechanisms. The beginning of the table lists the various commands that can be used to select the search engines and control the way they work. There's also a table with several useful references at the bottom of this document.		
Open this PDF file. See also: <u></u> Melp/Info	<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 Anzu external package activated by pel-use-anzu user option. Anzu provides a match count in the mode line. The Swiper external package activated by pel-use-swiper user option. Swiper shows a list of matching lines in the mini-buffer. Use the <f11> s <f2> command to open the PEL search customize group and set the pel-initial-search-tool user option to identify tool is used when Emacs starts. See the Customize table for more information.</f2></f11> Being able to search using either Emacs default ISearch (see below) and Swiper helps as they are both very useful in different scenarios. 		el-use-swiper user option. Swiper shows a list of matching lines in the mini-buffer. PEL search customize group and set the pel-initial-search-tool user option to identify which the table for more information.
Search Operates See also: Text Modes	Emacs searches are by default, using: • "case folding": case insensitive searches. As specified by search-upper-case user option variable. • "lax space matching": where number of spaces between words are considered unimportant. Emacs can also search for words and symbols, and the concept of "words" can be modified to include or exclude underscores and hyphens. It supports the following special mode: • superword-mode that treats words separated by hyphen and underscores as a single entity, useful for programming languages using snake case like C, C++, Erlang. • subword-mode that treats sections of camelCase and PascalCase as distinct words. That is useful when editing portions of these longer symbols. PEL provides the ability to activate these modes automatically for various major modes by identifying the major modes in the following user option lists: • pel-modes-activating-superword-mode • pel-modes-activating-subword-mode The following commands control the various aspects 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>

<u>Description</u>	<u>Keystroke</u>	Function	Note
PEL Regular Expression Search/ Replace Command Selection	Several regexp engines are available to perform regexp searches. Emacs provides its own. But several external packages provide extensions. • The <u>visual-regexp</u> enhances the Emacs regexp search and replace engine by showing matches in the buffer while you are typing the regexp, providing useful feedback when learning Emacs regexp. For replacement it shows both the match in original text and its replacement. • The <u>visual-regexp-steroids</u> extends this further by allowing the use of other rexgexp engines like pcre2el and Python. PEL provides the ability to dynamically select the extension to use for your regexp search and replace operations.		
	Emacs provides the following commands to perform string replacement in buffers. The following external packages also provides several useful extensions: pcre2el visual-regexp visual-regexp visual-regexp-steroids visual-regexp-steroids xr (regexp parser & analyzer) Emacs provides the following commands to perform string replacement in buffers. the purple of the following commands to perform string replacement in buffers. the purple of the following commands to perform string replacement in buffers. the purple of the following commands to perform string replacement in buffers. the purple of the following external packages also provides several useful extensions: a visual-regexp visual-regexp is t visual-regexp-steroids displayed the following external packages also provides several useful extensions: a visual-regexp visual-regexp visual-regexp-steroids displayed the following external packages also provides several useful extensions: a visual-regexp visual-regexp visual-regexp-steroids displayed the following external packages also provides several useful extensions: a visual-regexp visual-regexp-steroids visual-regexp-steroids visual-regexp-steroids displayed the following external packages also provides several useful extensions: a visual-regexp visual-regexp-steroids visual-regexp-steroids displayed the following external packages also provides several useful extensions: displayed the following external packages also provides several useful extensions: displayed the following external packages also provides several useful extensions: displayed the following external packages also provides several useful extensions: displayed the following external packages also provides several useful extensions: displayed the following extensions: displayed the followin		
Search/Replace Regexp Engine Selection	 Emacs' default reg visual-regexp 	gex engine : 🛂 set pel-use-v	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.
See also: • <u>S Customize</u>	• wisual-regexp- • An extension to • emacs, emac Use <f11> s x</f11>	steroids: description sets sets pel-use-visual-regex which provides sets-plain, pcre2el, python and cucf2> to open the customize	visual-regexp-steroids is t ame 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	search tool is activated via the c	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 . • <u>.;</u></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 .</f11>
See also: •			• M-6 •; With PEL, the •; key-chord is available when pel-use-key-chord is non-nil. Command numeric prefix is available with the key-chord binding. See Key-Chords Inside keyboard macros the key chords do not work well.
Notes: Search word at point or marked area. Supports toggling the word mode when grabbing word at point. On search failure, does not move point even when searching inside another window. On search success: Captures string searched: allow repeating that search with C-s or C-r	Use the <f11> s • keystroke when recording keyboard macros instead. • Search direction: • If there is only one window: search from the top of current buffer. • If there is 2 non-dedicated windows, the behaviour depends on the value of the pel-search-from-top-in-other user option: • if pel-search-from-top-in-other user option is nil (the default): search from the top of current buffer unless a numeric argument is specially another window (see below). • if the pel-search-from-top-in-other user option is t, search from the top of the other window unless a numeric argument 3 or 5 is specially another user as or more non-dedicated windows search into the buffer of the window identified by the numeric argument N (see below). • If N is negative: perform a isearch-backward from the bottom of the buffer in the window selected by the absolute value of N. • Window selection:</f11>		urrent buffer. Idepends 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 arch in current window. It is affected by the subword-mode and superword-mode. When searching in current buffer, the latengrabbing the word: Ind-mode to grab the word in current buffer, use the N-10 value to identify the window to search. Ind-mode to grab the word current buffer, use the N-20 value to identify the window to search. Ind-mode allows you to grab complete identifiers (function names, variables that use to search for the word as interpreted by the other state of the mode and search in the current trange. To toggle superword-mode and search in window above, use: M-28 <f11> s. In a search for the word as interpreted by the other state of the mode and search in the current trange. To toggle superword-mode and search in window above, use: M-28 <f11> s. In a search for the word as interpreted by the other state of the mode and search in the current trange. To toggle superword-mode and search in window above, use: M-28 <f11> s. In a search for the word as interpreted by the other state of the mode and search in the current trange. To toggle superword-mode and search in window above, use: M-28 <f11> s. In a search for the word as interpreted by the other state of the mode and search in the current trange. To toggle superword-mode and search in window above, use: M-28 <f11> s. In a search for the word as interpreted by the other state of the mode and search in the current trange. To toggle superword-mode and search in window above, use: M-28 <f11> s. In a search for the word as interpreted by the other state of the mode and search in the curr</f11></f11></f11></f11></f11></f11>
Basic search:repeat using prompt history:<f5><up></up></f5>	<f11> s f</f11>	(search-forward STRING &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>A Lax Search</u> is not supported.
Search regexp forward • Basic search: • repeat using prompt history	<f11> s x f</f11>	(re-search-forward REGEXP & optional BOUND NOERROR COUNT)	Search forward from point for regular expression REGEXP. • Search case-sensitivity is determined by the value of the variable 'case-fold-search'.
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'.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Word Search	A word search finds a sequence of words without regard for the type of punctuation between them. The word search commands do not perform character folding and toggling lax whitespace matching have no effect on them. However there are "lax" word searches that succeed on incomplete words, they are listed below.		ter folding and toggling lax whitespace matching have no effect on them.
Incremental Search Word	• M-s w	(isearch-forward-word	Do incremental search forward for a sequence of words.
Captures string searched, search again with C-s or C-r	• <f11> s w i</f11>	&optional NOT-WORD NO- RECURSIVE-EDIT)	 With a prefix argument, do a regular string search instead. Like ordinary incremental search except that your input is treated as a sequence of words without regard to how the words are separated. See the command 'isearch-forward' for more information.
Search word forwardBasic search:repeat using prompt history	• M-s w RET • <f11> s w f</f11>	(word-search-forward STRING &optional BOUND NOERROR COUNT)	Searches for exact words that may be separated by punctuations and/or lines. Search string must be a complete set of words.
Search word forward lax • repeat using prompt history	<f11> s w F</f11>	(word-search-forward-lax STRING &optional BOUND NOERROR COUNT	Same as search word forward except that the search string may end in an incomplete word (unless it ends with whitespaces)
Search word backward • repeat using prompt history	• M-s w C-r RET • <f11> s w b</f11>	(word-search-backward STRING &optional BOUND NOERROR COUNT	Searches for exact words that may be separated by punctuations and/or lines. Search string must be a complete set of words.
Search word backward lax	<f11> s w B</f11>	(word-search-backward-lax STRING &optional BOUND NOERROR COUNT)	Same as search word forward except that the search string may end in an incomplete word (unless it ends with whitespaces)
Incremental Search (ISearch) See also: <u>▼ Customize</u>	the search. Re-type sar for same text. To reverse Type RET to stop sea but also perform the Abandon search (and On search exit, original C-s is normal package and the <f11< td=""><td>ne key-chord after reaching endse search direction, use the other arch and leave cursor at found prequested operation (like C-a value of the control of the</td><td>commands. Type text to search, CPEL> 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 the reference of the remainder of the search in the search and moves point to the beginning of the line). The results of the search and moves point to the beginning of the line). The results of the search and moves point to the beginning of the line). The results of the search and moves point to the beginning of the line). The results of the search are results of the search and moves point to the beginning of the line). The results of the search are results of the search and move the results of the search are results of 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 the results of the</td></f11<>	ne key-chord after reaching endse search direction, use the other arch and leave cursor at found prequested operation (like C-a value of the control of the	commands. Type text to search, CPEL> 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 the reference of the remainder of the search in the search and moves point to the beginning of the line). The results of the search and moves point to the beginning of the line). The results of the search and moves point to the beginning of the line). The results of the search and moves point to the beginning of the line). The results of the search are results of the search and moves point to the beginning of the line). The results of the search are results of the search and move the results of the search are results of 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 the results of the
Incremental Iteral search regexp search	• C-s • ₩-f	(isearch-forward &optional REGEXP-P NO-RECURSIVE- EDIT)	Do incremental search forward: start or continue a search. On PEL: this key mapping is used when either pel-initial-search-tool nil or 'anzu' when pel-use-anzu is t. If pel-use-swiper is t, you can use <f11> s s to change the tool used for search operations.</f11>
 Captures string searched, search again with C-s or C-r 	 With a prefix argument, do an incremental regular expression search instead, something like: C-u 1 C-s M- C-s With PEL, C C-s works. C-u C-s does not work to perform a regexp ISearch. Instead you can also use C-M-s to perform the regexp incremental search forward. To continue to next match during search: type C-s again (with prefix argument if that was used for regexp Isearch). To change direction: type C-r. To repeat last completed incremental search forward: C-s C-s 		earch. e regexp incremental search forward. again (with prefix argument if that was used for regexp Isearch).
Perform Swiper search: interactive search with an overview list	C-s	(swiper &optional INITIAL-INPUT)	Perform a Swiper text search. In a minibuffer: show several matches as they are being typed. On PEL: this key mapping is used when pel-use-swiper is t and pel-initial-search-tool is set to swiper. You can use < f11> s s to change the tool used for search operations.
	 Narrow the search by typing a pattern. Multiple patterns are allowed by separating with a space. Select with C-n, C-p, <up> and <down>.</down></up> Chose (and stop the search) with RET. To search for a space with Swiper, type 2 spaces in the search expression. So: type "foo_ubar" to search for "foo_bar". 		
Incremental Iteral search regexp search	C-r	(isearch-backward &optional REGEXP-P NO- RECURSIVE-EDIT)	Do incremental search backward: start or continue a search. On PEL: this key mapping is used when either pel-initial-search-tool nil or 'anzu' when pel-use-anzu is t. If pel-use-swiper is t, you can use <f11> s s to change the tool used for search operations.</f11>
Captures string searched, search again with C-s or C-r	With a prefix argument, do an incremental regular expression search instead; something like:		earch. e regexp incremental search forward. gain (with prefix argument if that was used for regexp Isearch. busly completed incremental search backward: C-r C-r
ISearch - Regexp — 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 <u>visual-regexp-steroids</u> : available when pel-use-visual-regexp-steroids is t.
Incremental Symbol Search	major mode). Only con	pplete match will be found. For	except that the boundaries of the search must match the boundaries of a symbol (for the buffers' example searching for <i>forward-word</i> in a Lisp file will not match <i>isearch-forward-word</i> .
Search symbol at point Grab word at point with C-w Captures string searched, search again with C-s or C-r	M-s .	(isearch-forward-symbol- at-point)	Perform a symbol search starting with current symbol at point. • After capturing the word at point you can extend it by typing 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".

• G	arch for sequence of ds rab word at point with c-w	• M-s w	(isearch-forward-word	Do incremental accept forward for a commence of words
	aptures string searched, earch again with C-s or C-r	• <f11> s w i</f11>	&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
Dui	ring ISearch		can be modified to perform oth	
	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 • Ж-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 sear	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
	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	М-ѕ С-е	(isearch-yank-line &optional ARG)	While searching select the text from cursor to end of line as the search text. If point is already at end of line, appends next line. With numeric argument appends that many next lines.
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 sear	rch the following commands mo	odify the search method.
M A N D	Start query replace	M-%	(isearch-query-replace &optional ARG REGEXP- FLAG)	Transforms the Search into a query replace, using the current string as the string to be replaced. 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
	Start query replace regexp	C-M-%	(isearch-query-replace- regexp &optional ARG)	modify. 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 sear	ch 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" by when the word mode (or the symbol mode) is activated it matches.
	Toggles symbol mode	M-s _	(isearch-toggle-symbol)	Toggle <u>symbol search</u> 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 ts current search and return po	nd leave cursor right after the found text. int to original location.
Con sea	nbined expression regex rch	<f11> s c</f11>	(cexp-search-forward CEXP &optional BOUND NOERROR COUNT)	Search for combined regular and balanced expression CEXP. • The syntax of CEXP is almost that of a regular expression with the exception that the string \(! \) (introduces a balanced expression and \(! \)) closes a balanced expression. • The matched balanced expressions and the matches for the regular expressions before, in between, and after the sexps appear in the match data. • Regular expression braces \(\) and \(\) may not include balanced expressions. On the other hand balanced expressions may include regular expressions with groups. • The optional parameters BOUND, NOERROR, AND COUNT work like for 'search-forward'. • Requires the cexp external package. • PEL download & activates it when pel-use-cexp user-option is t. See example of using cexp to match balanced parenthesis on StackExchange.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Occur Search	With the occur and multi-occur regular expression search commands you can search for a regexp in one or several buffers (not files). The results are shown inside an *Occur* buffer which supports the following commands: • <ret> visit corresponding position in the searched buffer • C-O display the match in other window (but does not select it) • <, > : go to the beginning and end of the buffer • g : revert the buffer, refreshing the search results • e : buffer enters the Occur Edit Mode which allows edits in both buffers simultaneously via edits in the *Occur* buffer. • C-c C-c Exit Occur Edit Mode • Navigate though occurrences (in original buffer): • next occurrence: C-x or M-g n or M-g M-n</ret>		
List all matching occurrences of regexp in current buffer	NLINES)		 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 (multi-occur-in-matching-buffers BUFREGEXP REGEXP & optional ALLBUFS)</f11>		 "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	 C-; <f11> e</f11> <f11> h i</f11> <f11> m i</f11> This command behaves differently, depending on the mark, point, prefix argument and variable 'iedit-transient-mark-sensitive'. If iEdit mode is off, turn iEdit mode on. When iEdit mode is turned on, all the occurrences of the current region in the buffer (possibly narrowed) or a region are highlighted. If one occurrence is modified, the change are propagated to all other occurrence simultaneously. If region is not active, 'iedit-default-occurrence' is called to get an occurrence candidate, according to the thing at point. It might be url, email address, markup tag or current symbol(or word). In the above two situations, with digit prefix argument 0, only occurrences in current function are matched. This is good for renaming refactoring in programming. You can also switch to iEdit mode from isearch mode directly. The current search string is used as occurrence. All occurrences of the current 		
	 with a universal prefix argument, the occurrence when iEdit mode is turned off last time in current buffer is used as occurrence. This is intended to recover last iEdit mode which is turned off. If region active, iEdit mode is limited within the current region. With repeated universal prefix argument, the occurrence when iEdit mode is turned off last time (might be in other buffer) is used as occurrence. If region active, iEdit mode is limited within the current region. With digital prefix argument 1, iEdit mode is limited on the current symbol or the active region, which means just one instance is highlighted. This behavior serves as a start point of incremental selection work flow. If iEdit mode is on and region is active, iEdit mode is restricted in the region, e.g. the occurrences outside of the region is excluded. If iEdit mode is on and region is active, with a universal prefix argument, iEdit mode is restricted outside of the region, e.g. the occurrences in the region is excluded. Turn off iEdit mode in other situations. iedit does not properly disable iedit-mode restoration when desktop is restoring previous session. See See iedit bug #115, and my fix for this Until this bug-fix is incorporated PEL implements a fix to ensure that iedit-mode restoration is not done during a desktop restoration. I have seen iedit-mode breaking the key-chords commands from being detected. If this happens, disable and re-enable the keychord mode with 		
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 (iedit-show/hide-context-lines &optional ARG)</f1>		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 replacement 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	Query replacement prompts. The following 2 commands 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 : don't replace, move to next : replace current and quit : replace & let me see result before moving on — Press SPC to move on. : replace all the rest and don't ask : back up to the previous instance : undo last replacement : undo ALL replacements : abort/exit query-replace : modify the replacement string : enter recursive edit - Exit the recursive edit with one of: C-M-c or C-] : delete this instance and enter recursive edit — to make a custom replacement : exit recursive edit and resume query-replace : Exit recursive edit and exit query-replace : get help : replace all strings in all buffer, no questions. — Multi-buffer QR Response : skip to next buffer without replacing remaining matches in current buffer — Multi buffer QR Response.	
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 following commands can be used to analyze the validity of the regular expressions inside Emacs Lisp code stored inside: • the current Emacs Lisp buffer, • an Emacs Lisp file or, • all Emacs Lisp files inside a directory tree. • From the *relint* buffer press g to re-run the same checks.		
	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	 When this mode is active, \\ in strings is displayed as a single fontified using 'easy-escape-face' and composed into 'easy-escape-character'. See <u>easy-escape Github page</u> for more information and an example, which includes: "\\\\\\\" → "(\" "[\\t\\\\\\\" → "(\" Requires the <u>easy-escape external package</u>. PEL activates when the <u>pel-use-easy-escape</u> is set to t. You can also identify major modes where it is activated automatically by setting the <u>pel-modes-activating-easy-escape</u> user-option. Use <f11> s <f2> to open the relevant PEL customization group.</f2></f11> If you find the distinction between the fontified double-slash and the single slash too subtle, try the following, customizing the following user-options in the easy-escape customization group (with PEL use <f11> s <f3> 5 to open the easy-escape customization group): Adjust the foreground of 'easy-escape-face' Set 'easy-escape-character' to a different character. </f3></f11> 		
Regex-tool	 The external regex-tool library implements a simple regular expression tester tool. While regex-tool is running: type C-c C-c to force an update and C-c C-k to quit using it. The regex-tool uses Emacs Lisp regular expressions by default. It can also use full Perl regexp if you have Perl installed on your system. The regex-tool-backend user option identifies the regexp engine used. It can be emacs or perl. 		
Open the regex-tool	<f11> s x T</f11>	(regex-tool)	Open a 3-window frame (replacing all previous windows). The 3 windows are: Regular expression: enter/edit the expression freely Test string: enter text to match against Groups: lists the matching groups
Force an update of regex-tool windows	C-c C-c	(regex-tool-markup-text &optional BEG END LEN)	Force an update of the regex-tool windows.
Quit regex-tool	C-c C-k	(regex-tool-quit)	Quit regex-tool and close its 3 windows, revert to the window layout used before it was used.
Change the regex-tool backend engine - select between Emacs and Perl.	C-c <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	Emacs provides another regexp tester: the built-in Regular Expression Builder, targeted to learn the Emacs regular expression syntax. • To open (start) the regular expression, execute M-x re-builder. PEL provides the <f11> s x B key for that. • While the re builder is running: • type the regular expression (regexp) and see the matches in the other window, • if needed, change the regular expression syntax (Emacs supports 3 syntaxes, see below): • Use C-c C-i to select the new syntax. • With PEL, you can also use <f11> s x <f1> to quickly open the customize page to change the default syntax user option. • use one of the specialized commands available in reb-mode. These are listed below. • To close (stop) the re-builder, type C-c C-q</f1></f11></f11>		
Build regular expression interactively with rebuilder This is a great way to learn Emacs regexp!	<f11> s x B</f11>	(re-builder)	Construct and test a regexp interactively. • This command makes the current buffer the "target" buffer of the regexp builder. It displays a buffer named "*RE-Builder*" in another window, initially containing an empty regexp. • As you edit the regexp in the "*RE-Builder*" buffer, the matching parts of the target buffer will be highlighted. • re-builder supports different styles of regular expressions, selected by the value of the rebre-syntax user option. The possible values are: • read: the default. The syntax used by Emacs Lisp code: requires double escaping of backslashes. For example: "\\(red\\ green\\)" • string: Like read but no double backslashes are needed. Example: "\(red\ green\)" • rx: A more advanced, s-expression regexp engine, used if you want lisp-style regexp engine.
Customize re-builder regular expression syntax	<f11> s x M-B</f11>	(pel-reb-re-syntax)	Select regular expression syntax used by the re-builder: • customize reb-re-syntax user option. Understand This user option is part of the re-builder group which contains other related settings. • This is a global binding: it can be used any time.
Select re-builder regular expression syntax	• C-c C-i • C-c <tab></tab>	(reb-change-syntax &optional SYNTAX)	Change the syntax used by the RE Builder. • Affects current session. Does not change customize default.
Change target buffer	C-c C-b	(reb-change-target-buffer BUF)	Change the target buffer and display it in the target window.
Enter/leave sub- expression highlight mode	C-c C-e	(reb-enter-subexp-mode)	 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.
Move point to previous match	C-c C-r	(reb-prev-match)	Go to previous match in the RE Builder target window.
Move point to next match	C-c C-s	(reb-next-match)	Go to next match in the RE Builder target window.
Force update Copy Regular Expression to kill ring.	C-c C-w	(reb-force-update) (reb-copy)	Force an update in the RE Builder target window without a match limit. Copy current RE into the kill ring for later insertion. It also converts (where applicable) the expression to a string format suitable for use in Emacs Lisp source code.
Quit re-builder	C-c C-q	(reb-quit)	Quit the RE Builder mode.
Convert string-syntax regexp to read-syntax	read-syntax, you need the backslash characte	to escape the double quote ch c. 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	PCRE (Perl Compatible Regular Expressions) is a popular regex syntax. This requires the pcre2el external package. It is available when pel-use-pcre2el is t. The pcre2el package provides the rxt-mode (RegeXp Translator or RegeXp Tools). According to its documentation the pcre2el package provides the following features: convert Emacs syntax to PCRE convert either syntax to rx, an S-expression based regexp syntax untangle complex regexps by showing the parse tree in rx form and highlighting the corresponding chunks of code show the complete list of strings (productions) matching a regexp, provided the list is finite provide live font-locking of regexp syntax (so far only for Elisp buffers – other modes on the TODO list) This provides the commands listed below. More work needed here to better document and integrate inside PEL.		
Toggle pcre-mode on/off.	<f11> s x P</f11>	(pcre-mode &optional ARG)	Use emulated PCRE syntax for regexps wherever possible.
In pcre-mode regexp use the PCRE syntax. Experimental function and experimental binding until it gets integrated better in PEL.			Advises the 'interactive' specs of 'read-regexp' and the following other functions so that they read PCRE syntax and translate to its Emacs equivalent: 'align-regexp' 'find-tag-regexp' 'sort-regexp-fields' 'isearch-message-prefix' 'ibuffer-do-replace-regexp' 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 buffers: projectile provides the multi-occur for project buffers, shown non the first row. Searching in project files: projectile provides the following recursive-grep like search tools, they are listed starting on the second row. The first one searches inside buffers, not in files. That may be useful when looking for unsaved buffers or for special buffers. The last 2 require external packages and external command line utilities that must have been installed separately: ripgrep and ag. The ripgrep and ag searches are faster than the standard grep search. To navigate through search results use: move to next occurrence: C-x or M-g n or M-g M-n move to previous occurrence: M-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 <u>projectile</u> , <u>ripgrep.el</u> external packages as well as the <u>ripgrep</u> command line utility. • PEL activates this command when pel-use-projectile is non-nil. But to make it work you must also set pel-use-ripgrep to t. Also note that the <u>ripgrep</u> command line utility must be installed manually.
Search in project files with ag	<f8> s s</f8>	(projectile-ag SEARCH- TERM &optional ARG)	Run an ag search with SEARCH-TERM in the project. • With an optional prefix argument ARG SEARCH-TERM is interpreted as a • regular expression. • Requires the projectile, ag.el external packages as well as the ag command line utility. • PEL activates this command when pel-use-projectile is non-nil. But to make it work you must also set pel-use-ag to t. Also note that the ag command line utility must be installed manually.
Replace in Project	Text replacement inside all project files.		
Replace test in project files	<f8> r</f8>	(projectile-replace &optional ARG)	Replace literal string in project using non-regexp 'tags-query-replace'. • With a prefix argument ARG prompts you for a directory on which to run the replacement.

Search & Replace — References

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