Search and Replace

Description	Keystroke	Function	Note Note
Emacs Search & Replace	Emacs provides severa	I very powerful search and repla	ace mechanisms described in this table. It supports:
Help & Customize Search settings	Search a set of file	es. See: <u>I Grep</u>	non-incremental search and replace in one or several buffers and files.
Search pre-defined text Non incremental search	 Search a set of specified files in a directory. See <u>S Dired</u> Search & replace in the files of a specific project. See <u>S Projectile</u> 		
Word search combined balanced exp	With the <u>X Xref</u> mechanisms, you can also jump to the definitions of code elements. Emacs provides its own regex search engine. Several external packages provide extensions:		
Incremental searchsymbol isearch	visual-regexp	: 🛂 activated	when pel-use-visual-regexp is t.
commands during isearchoccur search	visual-regexp-	_	r while you type the regexp. It shows both the match in original text and its replacement. d when pel-use-visual-regexp-steroids is t. Allows other rexgexp engines: pcre2el and Python.
fuzzy search iedit mode		ng related external packages:	
unconditional replace query replace Using Projectile	week (balanced expression match) was available when pel-use-cexp is t. See example of using cexp to match balanced parenthesis easy-escape (simplifies escaping) was available when pel-use-easy-escape is t.		
 Using Projectile Interpret regexp with xr regexp lint 			able when pel-use-fzf is t . Perform interactive fuzzy search. See fzf manual .
O Regular expressions syntax O regexp-tool,	pcre2el (PC xr (regexp pars		able when pel-use-pcre2el is t able when pel-use-xr is t
easy-escape, re-builderPCRE support	And the following iSear	ch extension packages:	
Last updated on:		ontrol isearch from minibuffer)	available when pel-use-isearch-mb is t or use-from-start (to activate the Emacs starts)
Open this PDF file.	<f11> s <f1></f1></f11>	(pel-help-pdf &optional	Open the <u>Search/Replace</u> local PDF. If the prefix argument (like C−u or M−−) is used, then it
See also: <u>▼ Help/Info</u>		OPEN-WEB-PAGE)	opens the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-option is set it's the other way around.
Search Tools Selection		earch tools that impact the way	the C-s command operates. PEL supports the following search tools:
See also:	• Sanzu, ISearch	`	varieties. It is a set in the se
• <u>∑ Customize</u>			ze group that holds these user options.
			ect which search tool is used when Emacs starts.
<u>S</u> <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.
∑ Customize PEL Regular Expression support	<f11> s x <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL regular expression tool support. Select default regexp engine with pel-initial-regexp-engine user option.
Customize Search Tools	The following command	ds provide access to the custor	nization 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: isearch, anzu, iedit, easy-escape, fzf, swiper.
∑ Customize Emacs Regular Expression support	<pre><f11> s x <f3></f3></f11></pre>		
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 & & optional WITH-DETAILS) tool used, the search case settings used.</f11>		Display search status and configuration: the name of the search tool used, the regular expression tool used, the search case settings used. • On first use, or with any prefix argument, displays more information about available choices.
Select search tool to use.	<f11> s s</f11>	(pel-select-search-tool)	Prompt user for search tool to use with C-s . Show new active one.
			o C-s. PEL provides the ability to activate the following search extension minor modes: n, provides a match count in the mode line.
	• Swiper 2 activated by pel-use-swiper user option, shows a list of matching lines in the mini-buffer.		
	• \$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\		
Select the search/replace	<f11> s S (pel-select-search-regexp- Select the search/replace and regexp engine to use. Shows currently used engine at the prompt.</f11>		
regexp engine		engine)	Supports completion. Whith PEL, activating the engines provided by visual-regexp-steroids currently prevents restoring the original engine. Needs more work.
newlines in search and replace			n and replace queries use C-q C-j to identify newline characters. fy the newline character. Emacs does not use it in search and replace queries.
Control/Query how	Emacs searches are by • "case folding":		pecified by search-upper-case user option variable.
Search Operates See also:	"lax space match	ning": where number of spaces	between words are considered unimportant. concept of "words" can be modified to include or exclude underscores and hyphens. It supports:
• <u>∑ Text Modes</u>	• <u>superword-mode</u> C, C++, Erlang.	that treats words separated by	y hyphen and underscores as a single entity, useful for programming languages using snake case like
	PEL provides the ability	to activate these modes auton	e and <u>PascalCase</u> as distinct words. Useful when editing portions of these longer symbols. natically for various major modes by identifying the major modes in the following user options:
	pel-modes-activa	ating-superword-mode ating-subword-mode ds control the various aspects o	of the search behaviour
Show how search behaves in	<f11> s m ?</f11>	(pel-show-search-case-	Display the search behaviour relative to: case handling, case folding, lax-whitespace and subword
mini buffer Toggle search case sensitivity	<f11> s m f</f11>	(pel-toggle-case-fold-	and superiors modes in the minibuffer. If too long look in the Message buffer. Toggle value of case-fold-search variable.
Toggle lay space searching #	<f11> s m 1</f11>	search) (isearch-toggle-lax-	Toggle lax-whitespace searching on or off.
Toggle lax space searching † Toggle case impact on search	<f11> s m 1</f11>	whitespace) (pel-toggle-search-upper-	Toggle case sensitivity behaviour of yank in search prompt.
†		case) se don't force case sensitivity.	Rotates the value of search-upper-case to: nil, t, no-yanks t: upper case force case sensitivity
	not-yanks : upper ca	ase force case sensitivity, lower	case text when yank in search minibuffer.
Toggle subword-mode See also: Text Modes	• <f11> t m b • <f12> M-b</f12></f11>	(subword-mode &optional ARG)	Toggle subword-mode: a minor mode that treats sections of <u>camelCase</u> and <u>PascalCase</u> as distinct words.
	• M- <f12> M-b</f12>		 With prefix argument ARG, enable Subword mode if ARG is positive, disable it otherwise. Use <f12> M-b key for modes where <u>camelCase</u> and <u>PascalCase</u> are popular.</f12>
Toggle superword-mode	• <f11> t m p • <f12> M-p</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.
See also: <u>Text Modes</u>	• M- <f12> M-p</f12>		 With prefix argument ARG, enable Superword mode if ARG is positive, disable it otherwise. Use <f12> M-p key for modes for snake case (Emacs Lisp, C, C++, Erlang, Python, etc)</f12>
			Coo -122 is project induction of the control of the

<u>Description</u>	<u>Keystroke</u>	Function	Note (
Specialized Search/Move See also: <u>∑ Navigation</u>	PEL provides a set of c	onvenience/specialized search/	/navigation commands that move to pre-defined searched strings.
Move point to next/previous two consecutive spaces	• <f11> s SPC • M-g M-SPC</f11>	(pel-search-two-spaces BACKWARDS)	Move point forward to next location of 2 consecutive space characters. • With any argument: move backward to previous location of 2 consecutive spaces.
Move point to next/previous empty line	• <f11> s RET • M-g M-RET</f11>	(pel-search-empty-line BACKWARDS)	Move point forward to the next empty line. • With any argument: move backward to previous empty line.
Non-Incremental Search	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		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, • forward from top or • backward from bottom of: • current or windows specified by argument number	• <f11> s w . • M-<f5> • <u>.i</u></f5></f11>	(pel-search-word-from-top &optional N)	Search for text in marked region or word at point from top/bottom of buffer of window identified by the number of non-dedicated windows and by the numeric argument N. • A numeric argument is composed with the Meta key prior to the command: • For example, to search a word in the buffer of window located at the right of the current one, position the point on the word to search and type one of the following key sequences: M-6 <f11> s w . or M-6 M-<f5> With PEL, the .; key-chord is available when pel-use-key-chord is non-nil.</f5></f11>
See also: •		cros the key chords do not wor	k well. Use the $<$ f11> s w . or the M- $<$ f5> keystroke when recording keyboard macros.
E Keyboard Macros Notes: Search word at point or marked area. Supports toggling the word mode when grabbing word at point. On search failure, does not move point even when searching inside another	If there is 2 non-dedi if pel-search-fror window (see belov if the pel-search- case it searches If there are 3 or more If N is negative: p Window selection: If N is not specifie	n-top-in-other user option is ni v). from-top-in-other user option from the top of the current buffer a non-dedicated windows searc	depends on the value of the pel-search-from-top-in-other user option: il (the default): search from the top of current buffer unless a numeric argument is specifying another is t, search from the top of the other window unless a numeric argument 3 or 5 is specified, in which r. In into the buffer of the window identified by the numeric argument N (see below). The bottom of the buffer in the window selected by the absolute value of N.
window. • On search success:		search in window identified by	the direction corresponding to the cursor in a numeric keypad:
 Captures string searched: allow repeating that search with C-s or C-r 	4 := 'left 5 := 2 := • Temporary word mv values of N temporare • If N is in [1018] r • If N is in [2028] r • In several major munderscore or hyp	'current 6 := 'right 'down ode toggle: detecting a 'word' i y toggle the mode when grabbi ange: temporary toggle subwo ange: temporary toggle superv lodes (but not all) using superv when in their names).	is affected by the subword-mode and superword-mode. When searching in current buffer, the following ing the word: ord-mode to grab the current buffer word, use the N-10 value to identify the window to search. word-mode to grab the current buffer word, use the N-20 value to identify the window to search. vord-mode allows you to grab complete identifiers (function names, variables that use embedded to search for the word as interpreted by the other state of the mode and search in the current buffer,
	 If N is in [3038] range: temporary activate superword-mode to grab the current buffer word, use the N-30 value to identify the Customize window to search and transform the searched string to the Customize buffer title. For example, if you grab the text "pel-use-ido" the search transformed to "Pel Use Ido: ". Use M-31 <f11> s. to search for the customization entry for a specific user-option inside the curren customization buffer.</f11> Useful when reading a description in a customization buffer that refers to a user-option and you want to move point to that user option. Explicitly selecting the minibuffer window, or a non-existing window is not allowed, and search is done in current window. Searched word is remembered and can be used again to repeat an interactive search with C-s or C-r. Position before searched word is pushed on the mark ring. On search failure: 1) does not move point nor change window, 2) Throw an error signal (flash or beep depending on setting): this allows using 		ing to the Customize buffer title. For example, if you grab the text "pel-use-ido" the searched string is 11> s . to search for the customization entry for a specific user-option inside the current tomization buffer that refers to a user-option and you want to move point to that user option. existing window is not allowed, and search is done in current window. ain to repeat an interactive search with C-s or C-r. rk ring.
Search forward Basic forward search: repeat using: <f5><up></up></f5>	<f11> s f</f11>	(search-forward STRING &optional BOUND NOERROR COUNT)	Search forward from point for STRING. • Set point to the beginning of the occurrence found. • Search case-sensitivity is determined by the value of the variable 'case-fold-search'.
Search backward Basic backward search: repeat using: <f5><up></up></f5>	<f11> s b</f11>	(search-backward STRING &optional BOUND NOERROR COUNT)	Search backward from point for STRING. Lax Search is not supported. Set point to the beginning of the occurrence found. Search case-sensitivity is determined by the value of the variable 'case-fold-search'.
Search regexp forward Basic forward regexp search: repeat using prompt history	<f11> s x f</f11>	(re-search-forward REGEXP &optional BOUND NOERROR COUNT)	Search forward from point for regular expression REGEXP. • Search case-sensitivity is determined by the value of the variable 'case-fold-search'.
Search regexp backward Basic backward regxp search repeat using prompt history	• <f11> s x b • M-R</f11>	(re-search-backward REGEXP &optional BOUND NOERROR COUNT)	Search backward from point for regular expression REGEXP. • Search case-sensitivity is determined by the value of the variable 'case-fold-search'.
Word Search	The word search cor	nmands do not perform charact	turd for the type of punctuation between them. ter folding and toggling lax whitespace matching have no effect on them. eed on incomplete words, they are listed below.
Captures string searched, search again with c-s or c-r	• M-s w • <f11> s w i</f11>	(isearch-forward-word &optional NOT-WORD NO- RECURSIVE-EDIT)	Do incremental search forward for a sequence of words. With a prefix argument, do a regular string search instead. Like ordinary incremental search except that your input is treated as a sequence of words without regard to how the words are separated. See the command 'isearch-forward' for more information.
Search word forward • Basic search: • repeat using prompt history	• M-s w RET • <f11> s w f</f11>	(word-search-forward STRING &optional BOUND NOERROR COUNT)	Searches for exact words that may be separated by punctuations and/or lines. Search string must be a complete set of words.
Search word forward lax • repeat using prompt history	<f11> s w F</f11>	(word-search-forward-lax STRING &optional BOUND NOERROR COUNT	Same as search word forward except that the search string may end in an incomplete word (unless it ends with whitespaces)
Search word backward • repeat using prompt history	• M-s w C-r RET • <f11> s w b</f11>	(word-search-backward STRING &optional BOUND NOERROR COUNT	Searches for exact words that may be separated by punctuations and/or lines. Search string must be a complete set of words.
Search word backward lax	<f11> s w B</f11>	(word-search-backward-lax STRING &optional BOUND NOERROR COUNT)	Same as search word forward except that the search string may end in an incomplete word (unless it ends with whitespaces)
Combined expression regex search	<f11> s c</f11>	(cexp-search-forward CEXP &optional BOUND NOERROR COUNT)	Search for combined regular and balanced expression CEXP. • The syntax of CEXP is almost that of a regular expression with the exception that the string \! (introduces a balanced expression and \!) closes a balanced expression. • The matched balanced expressions and the matches for the regular expressions before, in between, and after the sexps appear in the match data. • Regular expression braces \((\text{ and \}) \text{ may not include balanced expressions.} \) On the other hand balanced expressions may include regular expressions with groups. • The optional parameters BOUND, NOERROR, AND COUNT work like for 'search-forward'. Requires the cexp external package. PEL download & activates it when pel-use-cexp useroption is t. See example of using cexp to match balanced parenthesis on StackExchange

Description	<u>Keystroke</u>	Function	Note
Incremental Search			ommands. Type text to search, to remove chars. Other key-chords can be used during the
(ISearch) See also:	search. Re-type same key-chord after reaching end of buffer, wrap to other end and continue searching. Or repeat key-chord to repeat last search for same text. To reverse search direction, use the other key-chord (for example: if searching with C-s, use C-r to go backward) • Type RET to stop search and leave cursor at found position if next command is to insert a character. Other editing key-chords also stop the search but also perform the requested operation (like C-a which ends the search and moves point to the beginning of the line).		
You have no idea how	Abandon search (and return to where you started, type <esc><esc> or C-g C-g.</esc></esc>		
powerful search is!			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 package
• <u>∑ Customize</u>	and the <f11> s s</f11>	key. That key allows you to cha	ange what command is mapped to C-s : search-forward or swiper. You can specify which one is
Showing match count ►	1		option. Use <f11> s <f2> to customize PEL controlled search. option to t to show match count during isearch. The Anzu activated by pel-use-anzu does</f2></f11>
Snowing match count -			>= 27 PEL automatically activates isearch-lazy-count when pel-use-anzu is nil.
ISearch - forward	• C-s	(isearch-forward &optional REGEXP-P NO-RECURSIVE-	Do incremental search forward: start or continue a search.
Incremental	● 第 -f	EDIT)	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</f11>
literal searchregexp search			operations.
 Captures string searched, search again with C-s or C-r 	C-u 1 C-s C-u C-s does n To continue to next r To change direction: S-f is always mapp	or M C-s or, wit ot work to perform a regexp ISo match during search: type C-s a type C-r. To repeat last comp	expression search instead, something like: h PEL, C C-s works. earch. Instead you can also use C-M-s to perform the regexp incremental search forward. Igain (with prefix argument if that was used for regexp Isearch). Ideted incremental search forward: C-s C-s Is the match count.
Perform Swiper search: interactive search with an overview list	C-s	(swiper &optional INITIAL-INPUT)	Perform a Swiper text search. In a minibuffer: show several matches as they are being typed. On PEL: this key mapping is used when pel-use-swiper is t and pel-initial-search-tool is set to swiper. You can use <f11> s s to change the tool used for search operations.</f11>
	 Select with C-n, C-j Chose (and stop the 	p, <up> and <down>. search) with RET.</down></up>	atterns are allowed by separating with a space. in the search expression. So: type "foo_u_bar" to search for "foo_bar".
ISearch - backward	C-r	(isearch-backward	Do incremental search backward: start or continue a search.
Incremental Iteral search regexp search		&optional REGEXP-P NO- RECURSIVE-EDIT)	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 		ent, do an i ncremental regular	expression search instead; something like:
• M— C-s • With PEL, C— • C-u C-r do • Instead you • To continue to n • To change direct		ot work to perform a regexp ISe also use C-M-r to perform the match during search: type C-r a	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. Feverything 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.
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.
minibuffer control of iSearch	The isearch-mb,	available when pel-use-isea	rch-mb is t, allows editing the search string directly in the minibuffer, without special commands.
Toggle iseach-mb mode	<f11> s i</f11>	(isearch-mb-mode	Toggle isearch-mb global minor mode. If the prefix argument is positive, enable the
global minor mode Incremental Symbol Search	mode). Only complete	match will be found. For exam	mode, and if it is zero or negative, disable the mode. except that the boundaries of the search must match the boundaries of a symbol (for the buffers' major ple searching for forward-word in a Lisp file will not match isearch-forward-word. 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	• M-s . • <f11> s .</f11>	(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.
Search for symbol Grab word at point with C-w Captures string searched, search again with C-s or C-r	• M-s _ • <f11> s _</f11>	(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".
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
Before typing any text to 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.
During ISearch			il aspects can be modified by the following commands:
Type C-j to search for end of line.	the way the searchthe search direction	can be modified, taken from va h is done, case sensitivity, word on, or specifying the very first on acremental search command yo	or symbol searches
Stop the incremental	RET		search and leave cursor right after the found text.
D search	C-g	Aborts current search and retu	urn point to original location.
Show key bindings	• C-h b	(describe-bindings &optional PREFIX BUFFER)	Show all key bindings available while performing interactive search.
available during isearch Show isearch command	• <f1> b</f1>	,	Show information about the currently used interactive coards command. That also lists come of the
information	• C-h m • <f1> m</f1>	(describe-mode &optional BUFFER)	Show information about the currently used interactive search command. That also lists some of the key bindings.

	<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
N	Repeat/reverse	Repeat last search, reve		114.19
G	•	-		Depart the surrent accepts at an accepting again pains for your
	repeat search forward	• C-s • %-g	(isearch-repeat-forward)	Repeat the current search, start searching again going forward
	repeat search backward	• C-r • %-d	(isearch-repeat-backward)	Repeat the current search, start searching again going backward
	Select iSearched string	While performing a sear	rch you can issue the following	commands to modify the searched string text.
	History previous	м-р	(isearch-ring-retreat)	Retrieve searched text from search history: get previous entry from history
S	History next	M-n	(isearch-ring-advance)	Retrieve searched text from search history: get next entry from history
Е	"tab" complete history in buffer	• C-M-i • M- <tab></tab>	(isearch-complete)	Perform "tab" completion for search item in the minibuffer against the search history. Opens a buffer with the complete search history. Any one of the past search string can be selected to perform the new search.
A	Edit search string	M-e	(isearch-edit-string)	Use this while performing a search and wanting to change the string being searched.
R C	<u>Lun scuron sumg</u>	M-C	(Iscaron-cure-suring)	 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.
Н				• End editing with RET, C-j, C-s or C-r
	Yank text to iSearch	While performing a sear	rch you can issue the following	commands to modify the searched string text, grabbing text from current location.
С О	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.
М	Add word at point to search string	C-w	(isearch-yank-word-or- char)	Appends the next character or word at point to the search string. Repeat it to append more to the search string.
M A	Add character at point to search string	С-М-У	(isearch-yank-char &optional ARG)	Appends character at point to the search string. If numeric argument appends that many characters.
N	Add text up until next specified character	C-M-z	(isearch-yank-until-char CHAR &optional ARG)	Pull everything until next instance of CHAR from buffer into search string. Prompts for CHAR. • If optional ARG is non-nil, pull until next ARGth instance of CHAR.
D	(Emacs >= 27.1)	This is often useful for k	keyboard macros, for example in	n programming languages or markup languages in which CHAR marks a token boundary.
S	Yank from kill ring to search string	• С-у • ж-е	(isearch-yank-kill)	Pull string from kill ring into search string.
	Replace just-yanked search string with previously killed string	м-у	(isearch-yank-pop)	Replace just-yanked search string (via (search-yank-kill) with previously killed string.
	iSearch first/last			earch for the first or last string in the buffer. n-allow-motion' instead of these 2 commands. See below.
	Go to first occurrence in buffer (Emacs >= 27.1)	M-s M-<	(isearch-beginning-of- buffer &optional ARG)	 Go to the first occurrence of the current search string. Move point to the beginning of the buffer and search forwards from the top. With a numeric argument, go to the ARGth absolute occurrence counting from the beginning of the buffer. To find the next relative occurrence forwards, type C-s with a numeric argument.
	Go to last occurrence in buffer (Emacs >= 27.1)	M-s M->	(isearch-end-of-buffer &optional ARG)	Go to the last occurrence of the current search string. • Move point to the end of the buffer and search backwards from the bottom. • With a numeric argument, go to the ARGth absolute occurrence counting from the end of the buffer. To find the next relative occurrence backwards, type C-r with a numeric argument.
	iSearch Motion (Emacs >= 28.1)	These include the abov	e 2 commands plus 2 more. Th	user-option set to 1 (on), you can use the following single keys to perform quick navigation searches. ese commands, however, do not accept arguments like their counterparts above. er-option set to t (on) for Emacs >= 28. Since this simplifies navigation.
	Go to first occurrence in buffer (Emacs >= 28.1)	M-<	(beginning-of-buffer)	Go to the first occurrence of the current search string. • Move point to the beginning of the buffer and search forwards from the top.
	Go to last occurrence in buffer (Emacs >= 28.1)	M->	(end-of-buffer)	Go to the last occurrence of the current search string. • Move point to the end of the buffer and search backwards from the bottom.
	Search backward from top of window (Emacs >= 28.1)	• M-v • <pgup></pgup>	(scroll-down-command)	Search backward from the top of the window (the portion of the buffer currently visible).
	Search forward from bottom of window (Emacs >= 28.1)	• C-v • <pgdn></pgdn>	(scroll-up-command)	Search forward from the bottom of the window (the portion of the buffer currently visible).
	Modify iSearch mode	While performing a isea	rch the following commands m	odify the search modes.
	Toggle lax whitespace matching	M-s SPC	(isearch-toggle-lax- whitespace)	Toggle lax matching during this search. Lax matching is on by default. • Any number of whitespace is accepted in the default lax matching. This can also be customized. When off: search exact string.
	Toggle case sensitivity	• M-c • M-s-c	(isearch-toggle-case-fold)	Toggle search case sensitivity.
	Toggle searching in invisible text	M-s i	(isearch-toggle-invible)	Toggle whether invisible text is searched. • Useful when editing outlined text.
	Toggle regular-expression searching	• M-r • M-s-r	(isearch-toggle-regexp)	Toggle regexp searching on or off.
	Toggles word mode	M-s w	(isearch-toggle-word)	Toggle word searching on or off. Turning on word search turns off regexp mode. • For example: in C file: the expression it->second.first is not matched by "is second first" but when the word mode (or the symbol mode) is activated it matches.
	Toggles symbol mode	M-s _	(isearch-toggle-symbol)	Toggle <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.
			ng is activated all accentuated ctivated and does not otherwise	letters for a given letter match the letter., otherwise it does not match (ie: 'à' matches 'a' when e).
	Use occur search	While performing isearc	h you can start an occur search	n for it.
	Enter occur search: list all	M-s o	(isearch-occur REGEXP	Start an "occur" search with current search string.
	occurrences		&optional NLINES)	• See "M-s o" row above for more information.
	Start query replace	To replace char at p	rch the following commands stooint, do: C-s, C-M-y then M-int, do: C-s, C-y then M-int,	%. To replace word at point, do: C-s, C-w then M-%
	Start query replace	M-%	(isearch-query-replace &optional ARG REGEXP- FLAG)	Transforms the Search into a query replace, using the current string as the string to be replaced. You can repeat the middle command to include several chars, words or lines. When prompted for replacement, M-p retrieves the original text that you can then modify.
	Start query replace regexp	• C-M-% • <f11> s x i • C-c Q</f11>	(isearch-query-replace- regexp &optional ARG)	Transforms the Search into a regex query replace, using the current string as the regex string to be replaced. PEL provides direct access to the command via <f11> s x i. If pel-bind-keys-for-regexp user-option is t, PEL adds the C-c Q key binding.</f11>

<u>Description</u>	<u>Keystroke</u>	Function	Note Note
Occur Search ★★	The results are shown in	nside an *Occur* buffer which	supports the following commands:
See: Searching & Editing in	 <ret> visit corresponding position in the searched buffer</ret> C-c C-c Visit corresponding position in searched buffer. C-o display the match in other window (but does not select it) 		
Buffers with Occur Mode All occur searches are done	 <,> go to the beginning and end of the buffer n,p Next and previous match. Emacs >= 28 		
in buffers , not files!	• I (Low	er case L) Center buffer where t	found text is located. Emacs >= 28 which allows edits in the *Occur* buffer.
★★ Edit source buffer	• q Quit o	t the buffer, refreshing the searc occur search: close *Occur* buf default-context-lines user-opt	
List all matching occurrences of regexp in current buffer	M-s o	(occur REGEXP &optional NLINES)	Prompts for a regexp to search. Use numeric prefix to specify n lines of context in result (defaults to list-matching-lines-default-
orregesp in ourent build.		NEINEO	 context-lines see above) Can use M-n and M-n at prompt to recurse previous search regexp strings. M-s o can be used during an incremental search.
Occur search in selected buffers	<f11> s 0 M-s /</f11>	(multi-occur-in-matching- buffers BUFREGEXP REGEXP & optional ALLBUFS)	Show all lines matching REGEXP in buffers specified by BUFREGEXP. • Prompts for a regular expression that identifies files, then one for the text to search. • Normally BUFREGEXP matches against each buffer's visited file name, but if you specify a prefix argument, it matches against the buffer name. • For example to occur search in all .py files, select the buffers with \.py\$
Occur search in selected files	<f11> s o</f11>	(multi-occur BUFS REGEXP &optional NLINES)	Show all lines in buffers BUFS containing a match for REGEXP. This function acts on multiple buffers; otherwise, it is exactly like 'occur'. When you invoke this command interactively, you must specify the buffer names that you want, one by one.
Occur search in all buffers of same mode	• <f11> s M-o • M-s m</f11>	(pel-multi-occur-in-this- mode)	Perform an occur search in all buffers in the same major mode as the current buffer. • Credits: Mickey Petersen
Occur search in all buffers visiting files (or all buffers)	M-s /	(pel-multi-occur-in-all REGEXP &optional ALL)	Perform an occur search in all file-visiting buffers. • With a prefix argument (such as C - u or any numeric argument) search all buffers.
Search for occurrence of text in <u>variety</u> Projectile project buffers	<f8> o</f8>	(projectile-multi-occur &optional NLINES)	Do a 'multi-occur' in the project's buffers . • With a prefix argument, show NLINES of context.
During Occur Search ★★	Navigate through oc	currences with commands issu	ed from the original, possibly multiple, buffer(s). No need to be inside the *Occur* buffer.
occur - next occurence	• C-x ` • M-g n • M-g M-n	(next-error &optional ARG RESET)	A prefix ARG specifies how many error messages to move; negative means move back to previous error messages. Just C-u as a prefix means reparse the error message buffer and start at the first error.
occur - previous occurence	• M-g p • M-g M-p	(previous-error &optional N)	Prefix arg N says how many error messages to move backwards (or forwards, if negative).
Exit occur-edit mode	C-c C-c	(occur-cease-edit)	Exit the occur-edit mode from within the *Occur* buffer or incremental search via M-s o
Fuzzy Finders Search See: File-mngt,		utility is a very fast fuzzy file fir	nder that can be used within Emacs via the fzf.el emacs front-end. It can be used with grep, ripgrep
fzf manual, fzf search syntax			, and 2) 📦 Use the <u>fzf.el</u> external package 🔃 activated by pel-use-fzf
Search current buffer with fzf	<f11> s z</f11>	(fzf-find-in-buffer)	Fuzzy search the current file-visiting buffer. Move point to the selected line.
iEdit mode ★★	Requires the iedit e PEL extends the ied a iedit-mode highlighter of the <tab>, <backter< th=""><th>wxternal package. A PEL down dit-mode slightly and uses differ d area. Since most iedit-mode tab> and M-; keys by M-S-<</th><th>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. rent key bindings for some keys whose global mode meaning is sometimes useful when point is inside key bindings use key bindings that require holding the Meta and the Shift keys, PEL replaces the use fx> function key bindings.</th></backter<></tab>	wxternal package. A PEL down dit-mode slightly and uses differ d area. Since most iedit-mode tab> and M-; keys by M-S-<	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. rent key bindings for some keys whose global mode meaning is sometimes useful when point is inside key bindings use key bindings that require holding the Meta and the Shift keys, PEL replaces the use fx> function key bindings.
Toggle iedit mode	• C-;	(iedit-mode &optional ARG)	Toggle iEdit mode: edit all symbols in scope or region simultaneously. When turning it on:
See also: • <u>S</u> Cursor • <u>S</u> Highlight	• <f11> e • <f11> h e • <f11> m e</f11></f11></f11>		 With C-u prefix, highlight last highlighted text of current buffer With C-u C-u prefix highlight text last highlighted in any buffer. With numerical argument 0, only highlight symbols in current function. With numerical argument 1, highlight current symbol only. If region is active, highlight symbols inside region only. With C-u prefix: outside of region
Select only current function occurrences with numerical prefix 0	 This command behaves differently, depending on the mark, point, prefix argument and variable 'iedit-transient-mark-sensitive'. With iEdit mode, all the occurrences of the current region in the buffer (possibly narrowed) or a region are highlighted. If one occurrence is modified, the change are propagated to all other occurrences simultaneously. 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). Can switch iEdit mode from isearch mode directly. The current search string is used as occurrence. Highlights all current search string occurrences. 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. A 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. 		
See <u>EKey-Chords</u>	I 🕌	⚠ iedit-mode may break key-chords commands from being detected: disable and re-enable the keychord mode with <f11> M-K. ⚠ Both iEdit and Flyspell use the C-; key as their default binding. PEL detects and reports that situation.</f11>	
Customize iedit-mode	customization buffer for	r the PEL control of iedit-mode	extra key binding are activated, like the <f11> <f2></f2></f11> and the <f11> <f3></f3></f11> below, that open and for iedit-mode itself. For those, the background colour is a little darker.
Customize PEL's iedit-mode	<f11> <f2></f2></f11>	(pel-customize-pel-iedit)	Open the customization buffer for the PEL control of the iedit-mode group.
	<f11> <f3> (pel-customize-iedit) Open the customization buffer for the iedit group.</f3></f11>		
Customize edit-mode	-	,	commands available when the edit-minor mode is active
	Use the following comm	,	Display ledit help menu. Use b to show all edit-mode key binding or m for complete help.
Customize edit-mode iedit-mode help commands Show edit-mode help Show keys used to modify	Use the following comm <f1> <f1></f1></f1>	mands to get extra help on the o	Display iedit help menu. Use b to show all edit-mode key binding or m for complete help. Display a short message showing the key bindings for edit commands used to modify the occurence.
Customize edit-mode iedit-mode help commands Show edit-mode help	Use the following comm	nands to get extra help on the c	

iedit-mode navigation			
		nands to move point to other or	
	PEL replaces several ke	ey bindings here. To use default	key bindings (show in red), set pel-iedit-use-alternate-keys user option off (nil).
Move to previous occurence	• S- <tab> × • <backtab> × • M-S-<f7></f7></backtab></tab>	(iedit-prev-occurrence)	Move backward to the previous occurrence in the 'iedit'. If the point is already in the first occurrences, you are asked to type another 'iedit-prevoccurrence', it starts again from the end of the buffer. With PEL, the backtab keys are not used for iedit, allowing their standard bindings. To use them with iedit-mode, set pel-iedit-use-alternate-keys user option off (nil).
Move to next occurrence	• <tab> × • M-S-<f9></f9></tab>	(iedit-next-occurrence)	Move forward to the next occurrence in the 'iedit'. • If the point is already in the last occurrences, you are asked to type another 'iedit-next-occurrence', it starts again from the beginning of the buffer. With PEL, the tab key is not used for iedit, allowing its standard bindings. • To use it with iedit-mode, set pel-iedit-use-alternate-keys user option off (nil).
Move to first occurence	M-<	(iedit-goto-first- occurrence)	Move to the first occurrence.
Move to last occurence	M->	(iedit-goto-last- occurrence)	Move to the last occurrence.
iedit-mode search area	Use the following comm	mands to change the text area v	where occurrences are found. PEL replace some bindings for convenience (see ➤)
Toggle selection of occurrence	• M-; ×	(iedit-toggle-selection)	Select or deselect the occurrence under point.
	• M-S- <f8></f8>		 When deselecting, if there was only 1 occurrence, iedit-mode is also turned off. With PEL, M-; is replaced by M-<f8> which does not clash with comment-dwim.</f8> To use the default M-; key binding, set pel-iedit-use-alternate-keys user option off (nil).
Restrict searched area to current function	м-н	(iedit-restrict-function &optional ARG)	Restricting ledit mode in current function.
Restrict searched area to current line	M-I	(iedit-restrict-current-line)	Restrict ledit mode to current line.
Expand searched area backwards	M-{	(iedit-expand-up-a-line &optional N)	After start iedit-mode only on current symbol or the active region, this function expands the search region upwards by N line. N defaults to 1. If N is negative, collapses the top of the search region by '-N' lines.
Expand searched area forward	M-}	(iedit-expand-down-a-line &optional N)	After start iedit-mode only on current symbol or the active region, this function expands the search region downwards by N line. N defaults to 1. If N is negative, collapses the bottom of the search region by '-N' lines.
Expand searched area to previous match	М-р	(iedit-expand-up-to- occurrence &optional ARG)	Expand the search region upwards until reaching a new occurrence. If no such occurrence can be found, throw an error. With a prefix, bring the top of the region back down one occurrence.
Expand searched area to next match	M-n	(iedit-expand-down-to- occurrence &optional ARG)	Expand the search region downwards until reaching a new occurrence. If no such occurrence can be found, throw an error. With a prefix, bring the bottom of the region back up one occurrence.
Toggle case sensitivity of occurence matching	• M-C • <f1> M-c</f1>	(iedit-toggle-case- sensitive)	Toggle case-sensitive matching occurrences. ★ With PEL, the default M-C key is replaced by <f1> M-C.</f1>
iedit-mode replacement	Use the following comm	nands to replace all marked occ	currences. These commands are available over a highlighted occurrence.
Convert occurrences to lower case letters	• M-L • M-C	(iedit-downcase- occurrences)	Convert occurrences to lower case.
Convert occurrences to upper case letters	• M-U ×	(iedit-upcase-occurrences)	Convert occurrences to upper case.
Replace text of occurrences	M-R	(iedit-replace-occurrences &optional TO-STRING)	Replace occurrences with STRING. Prompt for replacement string. Note: instead of using this command the occurrences can also be edited using in place.
Blank occurences	M-SPACE	(iedit-blank-occurrences)	Replace occurrences with blank spaces.
Delete occurrences text	M-D	(iedit-delete-occurrences)	Delete occurrences.
Prefix occurrences with a number	M-N	(iedit-number-occurrences START-AT &optional FORMAT-STRING)	Insert numbers in front of the occurrences. START-AT, if non-nil, should be a number from which to begin counting. Format string specified by iedit-increment-format-string user option. When called interactively with a prefix argument, prompt for START-AT and FORMAT.
Misc iedit commands	Other iedit-mode com	mands. These commands are a	vailable over a highlighted occurrence.
Buffering	м-в	(iedit-toggle-buffering)	Toggle buffering. This is intended to improve iedit's response time. If the number of occurrences are huge, it might be slow to update all the occurrences for each key stoke. When buffering is on, modification is only applied to the current occurrence and will be applied to other occurrences when buffering is off.
Apply last global modification	M-G	(iedit-apply-global- modification)	Apply last global modification.
Switch to multiple-cursors- mode	м-м	(iedit-switch-to-mc-mode)	Switch to 'multiple-cursors-mode'. So that you can navigate out of the occurrence and edit simultaneously with multiple cursors. © Requires the multiple-cursors external package. PEL activates it when pel-use-multiple-cursors is set to t.

Description	Keystroke	Function	<u>Note</u>
Unconditional Replace	Non-interactive text rep	lacement commands.	
<u>Unconditional replace</u>	<f11> s r</f11>	(replace-string FROM- STRING TO-STRING &optional DELIMITED START END BACKWARD)	Replace all instances of from-string by to-string from point to end of buffer. • Emacs displays the number of string replaced after the operation.
Unconditional regex replace	• <f11> s x r • C-c r</f11>	(pel-replace-regexp) (replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD) (vr/replace REGEXP REPLACE START END) (vr/select-replace)	Replace every match for regex with new string. PEL only activates the C-c r binding when pel-bind-keys-for-regexp is set to t. When pel-use-visual-regexp or pel-use-visual-regexp-steroids is set to t, PEL selects the pel-query-replace-regexp command instead of Emacs' replace-regexp. This command uses the regex engine provided by Emacs or one of the these external package as selected by pel-select-search-engine-regexp (bound to <f11> s S) With Emacs engine selected, replace-regexp is used and it's possible to use lisp expressions in the replacement string, making this super powerful. See examples in the Emacs Wiki. The vr/replace and vr/select-replace are only available when any of pel-use-visual-regexp or pel-use-visual-regexp-steroids is set to t.</f11>
Visual Regexp Replace	<f11> s x R</f11>	(vr/replace REGEXP REPLACE START END) № Requires visual-regexp: available when pel-use-visual-regexp is t.	Replace every match for regex with new string. With visual feedback. The following sub-commands are available while composing the search text: • M-p : Previous search/replacement string • C-c ? : help • C-c a : toggle show all or up to the default limit. Default limit is specified by vr/default-feedback-limit
Visual Regexp Replace with engine selection	<f11> s x M-r</f11>	(vr/select-replace)	C-c p: toggle preview The following are available only when using the Python regexp engine: C-c i: toggle case sensitivity (ignore case) C-c m: toggle multi-line match of ^ and \$ C-c s: toggle dot matches newline C-c u: enable Unicode by default.
Visual Regexp Search to multiple-cursors See also: Cursor	• <f11> s x M • C-c m</f11>	(vr/mc-mark REGEXP START END)	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>S Cursor</u>	<f11> s x M-m</f11>	external packages. (vr/select-mc-mark) Requires both visual-regexp-steroids & multiple-cursors external packages.	PEL activates these commands when both pel-use-multiple-cursors is t and either pel-use-visual-regexp or visual-regexp-steroids is t. PEL only activates the C-c m binding when pel-bind-keys-for-regexp is set to t.
Query Replace	Query replacement pro	mpts. The following 2 comman	ds are query replace. The answers to prompts are listed after the 2 commands.
Query Replace	M-%	(query-replace FROM- STRING TO-STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P)	Replace <i>some</i> occurrences of a string with another, both specified by user. • A negative argument replaces backwards. • When prompted for replacement use M-p to retrieve the original text that you can then modify.
Query Replace Regexp	• C-M-% • <f11> s x q • C-c q</f11>	(pel-query-replace-regexp) (query-replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P) (vr/query-replace REGEXP REPLACE START END) (vr/select-query-replace)	Replace some occurrences of a regex match with a specified string. • A negative argument replaces backwards. • C-M-% does not work in Terminal mode. © PEL only activates the C-c q binding if pel-bind-keys-for-regexp user option is set to t. © When pel-use-visual-regexp or pel-use-visual-regexp-steroids is set to t, PEL selects the pel-query-replace-regexp command instead of Emacs' query-replace-regexp. • This command uses the regex engine provided by Emacs or one of the these external package as selected by pel-select-search-engine-regexp (bound to <f11> s S).</f11>
Visual Regexp Query Replace	<f11> s x Q</f11>	(vr/query-replace REGEXP REPLACE START END) Requires visual-regexp: available when pel-use-visual-regexp is t.	Replace some occurrences of a regex match with a specified string with visual feedback inside the buffer. A negative argument replaces backwards. The following sub-commands are available while composing the search text: M-p : Previous search/replacement string C-c ? : help C-c a : toggle show all or up to the default limit. Default limit is specified by vr/default-feedback-limit
Visual Regexp Query Replace with engine selection	<f11> s x M-q</f11>	(vr/select-query-replace) Requires visual-regexp- steroids: available when pel-use-visual-regexp- steroids is t.	C-c p : toggle preview The following are available only when using the Python regexp engine: C-c i : toggle case sensitivity (ignore case) C-c m : toggle multi-line match of ^ and \$ C-c s : toggle dot matches newline C-c u : enable Unicode by default.
Replace text with regexp found in marked file(s) using Dired See also: Dired	Open a Dired buffer with C-x d , mark the files and directories to search/replace into with m , then type Q	(dired-do-find-regexp-and- replace FROM TO)	Replace matches in all files and/or directories currently marked in Dired buffer. For any marked directory, matches in all of its files are replaced, recursively. However, skip files matching grep-find-ignored-files & subdirectories matching grep-find-ignored-directories REGEXP should use constructs supported by your local 'grep' command.
QR Response : keys to use during a query replacement to identify actions	• n or • . • , • ! • 0 • u • u • u • q or <ret> • E • C-r • C-w • C-M-c • C-] • ? • Y</ret>	replace : replace, move to next : replace current and quit : replace & let me see result before moving on — Press SPC to move on. : replace all the rest and don't ask : back up to the previous instance : undo last replacement : undo ALL replacements : abort/exit query-replace : modify the replacement string : enter recursive edit - Exit the recursive edit with one of: C-M-c or C-] : delete this instance and enter recursive edit — to make a custom replacement : exit recursive edit and resume query-replace : Exit recursive edit and exit query-replace : get help : replace all strings in all buffer, no questions. — Multi-buffer QR Response : skip to next buffer without replacing remaining matches in current buffer — Multi buffer QR Response.	

Description	<u>Keystroke</u>	Function	<u>Note</u>
Using <u>Exprojectile</u>		mmands Projectile mode must key sequence: <f11> <f8></f8></f11>	be activated first. PEL provides the following key binding to do it when pel-use-projectile user <f8></f8>
Search in Project Using <u>National Projectile</u>	 Searching in project buffers: projectile provides the multi-occur for project buffers, shown non the first row. Searching in project files: projectile provides the following recursive-grep like search tools, they are listed starting on the second row. The first one searches inside buffers, not in files. That may be useful when looking for unsaved buffers or for special buffers. The last 2 require external packages and external command line utilities that must have been installed separately: ripgrep and ag. The ripgrep and ag searches are faster than the standard grep search. 		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. I command line utilities that must have been installed separately: ripgrep and ag.
Search for occurrence of text in project buffers	<f8> o</f8>	(projectile-multi-occur &optional NLINES)	Do a 'multi-occur' in the project's buffers . • With a prefix argument, show NLINES of context. See Occur section above for navigation.
Search in project files with recursive grep	<f8> s g</f8>	(projectile-grep &optional REGEXP ARG)	Perform rgrep in the project. • With a prefix ARG asks for files (globbing-aware) which to grep in. • With prefix ARG of '-' (such as 'M'), default the files (without prompt), to 'projectile-grep-default-files'. • With REGEXP given, don't query the user for a regexp.
Search in project files with ripgrep Rust (ripgrep) regex syntax	<f8> s r</f8>	(projectile-ripgrep SEARCH-TERM &optional ARG)	Run a Ripgrep search with 'SEARCH-TERM' at current project root. • With an optional prefix argument ARG SEARCH-TERM is interpreted as a regular expression. • Requires the projectile, ripgrep.el external packages as well as the ripgrep command line utility. • PEL activates this command when pel-use-projectile is non-nil. But to make it work you must also set pel-use-ripgrep to t. Also note that the ripgrep command line utility must be installed
Search in project files with ag • PCRE regex syntax	<f8> s s</f8>	(projectile-ag SEARCH- TERM &optional ARG)	manually. 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.
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 rx Emacs Lis PEL provides xr, a r 	bed below require the <u>xr</u> extern p macro can be used in Emacs	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. In the pel-use-xr user option is set to t. PEL provides the following commands which take a regexp at maide the *regexp-eval* buffer.
Interpret Emacs Lisp regexp at point.	<f11> s x x</f11>	(pel-xr-at-point &optional DIALECT)	Grab regexp at point and print its interpretation in *regexp-eval* buffer. • Uses `xr-pp' to expand regexp in rx notation. • If region is marked, grab content of region instead. • DIALECT is selected by numeric argument: • nil, 1 := medium verbose • < 0 := terse • 4 := brief : short keywords • 16 := verbose : verbose keywords. To pass 4 type the C-u prefix, and 16 type C-u C-u prefix keys. • LIMITATION: it does not support double quote inside a regexp taken at point even if it is quoted. To grab it mark the region, excluding the delimiting quotes.
Interpret Emacs Lisp regexp provided at prompt.	<f11> s x X</f11>	(pel-xr-regxp)	Prompt for regexp and print its interpretation in *regexp-eval* buffer. • Uses `xr-pp' to expand regexp in rx notation.
Lint Emacs Lisp regexp at point	<f11> s x l</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: ፻활፲ - 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. The package can also used in a script to analyze regular expressions using Emacs batch invocation.		
Lint regular expressions in	Requires the relint e	external package. 2 PEL instal	Is and activates it when the pel-use-relint user-option is set to t. Scan the current buffer for regexp errors.
current buffer Lint regular expressions in	<f11> s x M-l f</f11>	(relint-file FILE)	⚠The buffer must be in emacs-lisp-mode. Scan FILE, an elisp file, for regexp-related errors.
specified file Lint regular expressions in specified directory	<f11> s x M-1 d</f11>	(relint-directory DIR)	Prompts for Emacs Lisp file. Scan all *.el files in DIR for regexp-related errors. Prompts for the directory.
opsomed diffetoly			 Prompts for the directory. Scans directory tree: all Emacs Lisp files in the specified directory all all sub-directories, recursively.

Function Description <u>Keystroke</u> Note The following rows describe Emacs regular expressions (which differ from other styles of regex) and tools to try them out. **Emacs Regexp Syntax Emacs Regular expression** Special characters: .* + ? [^ \$ \ **Boundary anchors:** : beginning of {line, string, buffer}. Can be used at the beginning of the regexp or after $\mbox{\em V}$ Backslash constructs (elisp) : end of {line, string, buffer} Backslash constructs • \ : beginning of {string, buffer} (emacs) : end of {string, buffer} ! Of the above 2 manuals, the match empty string, but only at point. (This construct is not defined when matching against a string.) Elisp manual is more complete. The Emacs manual does not \b : word boundary marker • \B : not word boundary marker describe all available syntax. \w : any word character. Alternative: [f:word:]] : any non-word character. Alternative: [^[:word:]] Basic: : (a period) any single character except newline. To search for any character including newline use: [^\0] ٠ ١. • \ : either quotes a special character (such as \$) or introduces special construct (see below). • 1 <u>Alternative</u> **Expression Quantifiers - postfix operators:** : 0 or or 1 of the previous expression greedy (greedy:= the longest valid match) · ? : 0 or more of the previous expression - greedy : 1 or more of the previous expression - greedy
: 0 or or 1 of the previous expression - non-greedy (non-greedy := the shortest valid match) • ?? : 0 or more of the previous expression - non-greedy • *? • +? : 1 or more of the previous expression - non-greedy Expression Quantifiers - repetition postfix operators:
• \{n\} : n repetitions. For example, x\{4\} matches the string xxxx and nothing else. • \{n,m\} : between n and m repetitions: must match at least n times but no more than m times. If m is omitted there is no upper limit. **Boundaries:** (GNU extensions to regular expressions supported by Emacs): beginning of word : end of a symbol : beginning of a symbol • \w word-constituent character (as defined in syntax table) ١w any character that is not word-constituent • \b **\B** : empty string at beginning/end of word : empty string but not at beginning/end of word start of string or buffer : end of string or buffer \= : match the empty string but only at point. Character alternative sets and Character Classes: 1 character classes like [:alpha:] must be used within a character alternative set. So if you want to express a space or tab, use **2** square brackets, as in: **[[:blank:]]**• [] : set of alternative of characters, may include the following: without escaping: '\$', '.'. Include a '-' at end, ']' at first, '^' anywher anywhere but first. • 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. Can match a newline if not in set. · [:C:] character class C, where C can be any of the following (eg. [[:alnum:]]): : any letter or digit • alnum • alpha : any letter any of the 127 ASCII characters • blank : horizontal whitespace: a space or tab character : any ASCII control character : any digit character, same as [0-9]. [-+[:digit:]] matches any digit as well as '+' and '-' • digit any graphic character; everything except whitespace, ASCII and non-ASCII control characters, surrogates and code • graph points unassigned by Unicode. lower-case letters. If case-fold-search is non-nil it also matches upper-case letters. Use <f11> s m f to toggle it. • 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. · punct : any character that has whitespace syntax. Note that syntax depends on the major mode • unibyte : any unibyte character • upper any upper-case letter, as determined by the current case table If case-fold-search is non-nil, it also matches any lower-case letter! word : any character that has word syntax.
 xdigit : the hexadecimal digits: '0' through '9', 'a' through 'f' and 'A' through 'F'. · Special Characters: \sC : Match any character whose $\underline{\text{syntax table}}$ code is $\textbf{\textit{C.}}$ • \sc : Match any character whose $\underline{\text{syntax table}}$ code is not $\textbf{\textit{C.}}$ 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. ຢ Use **describe-syntax** to see a : symbol constituents: extra characters used in variable, function, command names. : punctuation characters. There is none in Lisp. C has some. description of the syntax-table of : matches the open "parens" characters identified by the syntax-table of the buffer major-mode; typically: '(', '{', '[', ...' matches the close "parens" characters identified by the syntax-table of the buffer major-mode; typically: '), '}', ']',... the current buffer •) : string quotes. \leq This is useful and important. In 'string-syntax' the double quote does **not** require escaping! **Syntax Table** Syntax Descriptors Inside the 'string-syntax' regexp, you can use \s" and \S". In read-syntax those become \\s\" and \\S\" Syntax Classes ⚠ Because double quote is not needed in the string-syntax means that the string-syntax cannot be used Syntax Flags 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 string delimiters : generic comment delimiters · \cC : Match any character whose category is C. Some of the $\underline{category}$ chars: \mathbf{a} : ASCII, \mathbf{b} : arabic, \mathbf{c} : chinese, \mathbf{g} : greek, \mathbf{l} : latin · \cC : Match any character whose category is not C. **Grouping:** See Also (elisp): · \(... \)
· \(?: ... \) : Capturing group Backslash constructs
Match Data : \underline{Shy} , $\underline{non-capturing\ group}$, which cannot be referred to with \1 to \9. Is not counted in the group numbers \(?num:\): Explictly numbered capturing group. No restriction on numbering. Several groups can have the same number, the last match wins. Replacing matched text Simple Match Data • \1 to \9 : Insert text from group N \#1 to \#9 : Insert text from group \N but cast as an integer (only useful in lisp forms) Access Entire Match Data Other: · \? : prompt for user input Saving/Restoring Match : inserts a number incremented from 0 : insert whole match string • \,(form ...) : uses an **Emacs Lisp form** with arguments. Use elisp form that take and return strings, such in the following examples: : uppercase capturing group 2
 : Cast group 3 as number and format it as decimal with 2 decimal points. See also this article. \,(upcase \2)\,(format "%.2f" \#3) New Line, hard-tab and ASCII control character basic char syntax : 🤘 When typing a regexp in read-syntax inside Elisp code string, you can represent the newline character with the \n 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 $\mathbf{c} - \mathbf{q} \cdot \mathbf{c} - \mathbf{j}$. This is the same for most ASCII control characters that have Emacs basic char syntax: $\a, \b, \t, \n, \v, \f, \r$, and \e Unavailable sequences: 1 The following do NOT work in Emacs, but there are alternatives, see above. : any digit Alternative: [[:digit:]] : any non digit character. Alternative: [^[:digit:]] • \d • \D : any digit

<u>Description</u>	<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.		
implify display of escape haracters used in regexp trings		e Github page for more informa	as a single fontified using 'easy-escape-face' and composed into 'easy-escape-character'. as a single fontified using 'easy-escape-face' and composed into 'easy-escape-character'.		
	• "[\\t\\n]" \(\therefore\) "[\t\\n]"				
	 You can also identify Use <f11> s <f2< li=""> </f2<></f11>	y major modes where it is activa 2> to open the relevant PEL cus			
	the easy-escape custo • Adjust the foregro		uble-slash and the single slash too subtle, try the following, customizing the following user-options in f11> s <f3> 4 to open the easy-escape customization group): acter.</f3>		
Regex-tool	While regex-tool is rThe regex-tool uses	unning: type C-c C-c to force Emacs Lisp regular expressions	e regular expression tester tool. PEL activates it when pel-use-regex-tool is t . e an update and C-c C-k to quit using it. s by default. It can also use full <u>Perl regexp</u> if you have Perl installed on your system. e 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		
orce an update of regex-tool	C-c C-c	(regex-tool-markup-text &optional BEG END LEN)	Force an update of the regex-tool windows.		
Quit regex-tool	C-c C-k	(regex-tool-quit)	Quit regex-tool and close its 3 windows, revert to the window layout used before it was used.		
Change the regex-tool backend engine - select between Emacs and Perl.	C-c <f2></f2>	(pel-select-regex-tool- engine)	Open the customize buffer to change regex-tool-backend user option. • Select between Emacs and Perl backend. • To close the customize buffer, type q. • C-c C-c forces an update of the regex-tool to rescan using the new backend.		
<u>re-builder</u> :			gular Expression Builder, targeted to learn the Emacs regular expression syntax.		
Emacs Regular Expression Builder	While the re builder type the regular of	is running: expression (regexp) and see the	re-builder. PEL provides the <f11> s x B key for that. matches in the other window, (Emacs supports 3 syntaxes, see below):</f11>		
	Use C-c C-With PEL, youuse one of the sp	i to select the new syntax. can also use <f11> s x <f< td=""><td>(Linacs supports 3 syntaxes, see below). 1> to quickly open the customize page to change the default syntax user option. n reb-mode. These are listed below.</td></f<></f11>	(Linacs supports 3 syntaxes, see below). 1> to quickly open the customize page to change the default syntax user option. n reb-mode. These are listed below.		
Build regular expression interactively with re-builder	<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.		
d This is a great way to learn Emacs regexp!	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. 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. sylvant of the re-builder group which contains other related settings.		
Select re-builder regular	• C-c C-i	(reb-change-syntax	This is a global binding: it can be used any time. Change the syntax used by the RE Builder.		
expression syntax Change target buffer	• C-c <tab></tab>	&optional SYNTAX) (reb-change-target-buffer	Affects current session. Does not change customize default. Change the target buffer and display it in the target window.		
		BUF)			
Toggle case sensitivity Enter/leave sub-	C-c C-c	(reb-toggle-case) (reb-enter-subexp-mode)	Toggle case sensitivity of searches for RE Builder target buffer. Enter the subexpression mode in the RE Builder, which only highlights the specified capturing group		
expression highlight mode		,	of each match. • Type 0 to 9 to identify the group to highlight. Type q to exit that mode.		
Move point to previous match	C-c C-r	(reb-prev-match)	Go to previous match in the RE Builder target window.		
Move point to next match	C-c C-s	(reb-next-match)	Go to next match in the RE Builder target window.		
Force update	C-c C-u	(reb-force-update)	Force an update in the RE Builder target window without a match limit.		
Copy Regular Expression to kill ring.	C-c C-w	(reb-copy)	Copy current RE into the kill ring for later insertion. d It also converts the expression to a read 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 o read-syntax	Emacs Lisp unfortunately does not have raw strings. This means that when writing a regex in Emacs Lisp code, which accepts what Emacs calls the readsyntax, you need to escape the double quote character (to allow the "character be part of a string). The regex syntaxes also require escaping the backslash character. So to identify a backslash in a Elisp string regex you need to use 4 consecutive backslash. The following tool help convert a literal regexp into an elisp string regexp which provides escaping for Emacs Lisp purposes (as does 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: \((foo\ bar\) \\ Example 2: when typing: \((foo\ bar\) \\ Example 2: when typing: \((foo\ bar\) \\ Example 2: when typing: \((foo\ bar\) \\ 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 pc The pcre2el packag following features: convert Emacs sy convert either syn untangle complex show the complet	e 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	is available when pel-use-pcre2el is t . (p Translator or RegeXp Tools). According to its documentation the pcre2el package provides the
In pcre-mode regexp use the PCRE syntax. Experimental function and experimental binding until it gets integrated better in PEL.	<f11> s x P</f11>	(pcre-mode &optional ARG)	Use emulated PCRE syntax for regexps wherever possible. Advises the 'interactive' specs of 'read-regexp' and the following other functions so that they read PCRE syntax and translate to its Emacs equivalent: 'align-regexp' 'find-tag-regexp' 'sort-regexp-fields' 'isearch-message-prefix' 'ibuffer-do-replace-regexp' Also alters the behavior of 'isearch-mode' when searching by regexp.
pcre2el rxt-mode	You may want to auThat can be done	tomatically activate the rxt-mo by customization. With PEL us rxt-mode to the list of minor m	al, buffer to activate the various commands that use the C-c / key prefix. de for Perl buffers. (See NL - Perl). se the <f12> <f2> key sequence to open the PEL customization for the current major mode. sodes identified by the pel-cperl-activates-minor-modes to automatically activate rxt-mode in Perl</f2></f12>
Toggle rtx-mode on/off	<f11> s x p</f11>	(rxt-mode &optional ARG)	Toggle pcre2el rxt-mode. • With a prefix argument ARG, enable rxt-mode if ARG is positive, and disable it otherwise.
Do what I mean commands	The following command	ds try to detect what regexp sy	ntax to use based on the current major mode.
Explains regexp at point	C-c / /	(rxt-explain)	Pop up a buffer with pretty-printed 'rx' syntax for the regex in marked area. Prompts for one if nothing currently marked. • Chooses regex syntax to read based on current major mode, calling 'rxt-explain-elisp' if buffer is in 'emacs-lisp-mode' or 'lisp-interaction-mode', or 'rxt-explain-pcre' otherwise.
Convert regexp to other syntax	C-c / c	(rxt-convert-syntax)	Convert regex at point to other kind of syntax, depending on major mode. For buffers in 'emacs-lisp-mode' or 'lisp-interaction-mode', calls 'rxt-elisp-to-pcre' to convert to PCRE syntax. Otherwise, calls 'rxt-pcre-to-elisp' to convert to Emacs syntax. The converted syntax is displayed in the echo area and copied to the kill ring; see 'rxt-elisp-to-pcre' and 'rxt-pcre-to-elisp' for details.
Convert regexp at point to RX syntax	С-с / ж	(rxt-convert-to-rx)	Convert regex at point or in region to RX syntax. If other found, prompt. Chooses Emacs or PCRE syntax by major mode.
Convert regexp at point to RX syntax	C-c / '	(rxt-convert-to-strings)	Convert regex at point to RX syntax. Chooses Emacs or PCRE syntax by major mode.
Commands that work on PCRE regexp	The following command	ds take a PCRE regexp.	
Insert RX syntax for PCRE regexp in new buffer	C-c / p /	(rxt-explain-pcre REGEXP & optional FLAGS)	Insert the pretty-printed 'rx' syntax for REGEXP in a new buffer. • REGEXP is a regular expression in PCRE syntax. See rxt-pcre-to-elisp' for a description of how REGEXP is read interactively.
Translate PCRE regexp to Emacs Lisp regexp and string to kill ring	C-c / p e	(rxt-pcre-to-elisp PCRE &optional FLAGS)	Translate PCRE, a regexp in Perl-compatible syntax, to Emacs Lisp. Interactively, uses the contents of the region if it is active, otherwise reads from the minibuffer. Prints the Emacs translation in the echo area and copies it to the kill ring. PCRE regexp features that cannot be translated into Emacs syntax will cause an error.
Translate PCRE regexp to RX syntax	С-с / р 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.
Query replace using PCRE syntax.	C-c / %	(pcre-query-replace- regexp)	Perform 'query-replace-regexp' using PCRE syntax. • Consider using 'pcre-mode' instead of this function.
Commands that work on Emacs regexp	The following command	ds take a Emacs regexp.	
Insert RX syntax for Emacs Lisp regexp in new buffer	C-c / e /	(rxt-explain-elisp REGEXP)	Insert the pretty-printed 'rx' syntax for REGEXP in a new buffer. • REGEXP is a regular expression in Emacs Lisp syntax. See 'rxt-elisp-to-pcre' for a description of how REGEXP is read interactively.
Translate an Emacs Lisp regexp to PCRE	C-c / e p	(rxt-elisp-to-pcre REGEXP)	Translate REGEXP, a regexp in Emacs Lisp syntax, to Perl-compatible syntax. Interactively, reads the regexp in one of three ways. With a prefix arg, reads from minibuffer without string escaping, like 'query-replace-regexp'. Without a prefix arg, uses the text of the region if it is active. Otherwise, uses the result of evaluating the sexp before point (which might be a string regexp literal or an Emacs Lisp expression that produces a string). Displays the translated PCRE regexp in the echo area and copies it to the kill ring. Emacs regexp features such as syntax classes which cannot be translated to PCRE will cause an error.
Translate an Emacs Lisp regexp to RX syntax	C-c / e x	(rxt-elisp-to-rx REGEXP)	Translate REGEXP, a regexp in Emacs Lisp syntax, to 'rx' syntax. • See 'rxt-elisp-to-pcre' for a description of the interactive behavior and 'rx' for documentation of the S-expression based regexp syntax.
Get all strings that match an Emacs Lisp regexp	C-c / e '	(rxt-elisp-to-strings REGEXP)	Return a list of all strings matched by REGEXP, an Emacs Lisp regexp. • See 'rxt-elisp-to-pcre' for a description of the interactive behavior. • This is useful primarily for getting back the original list of strings from a regexp generated by 'regexp-opt', but it will work with any regexp without unbounded quantifiers (*, +, {2, } and so on). • Throws an error if REGEXP contains any infinite quantifiers.
Toggle regexp between Emacs	• C-c / e t	(rxt-toggle-elisp-rx)	Toggle the regexp near point between Elisp string and rx syntax.

Search & Replace — References

GNU Emace. Searching and Replacement Regular Expression Help © Emace Will Regular Expression Help © Emace Will Replace - Exportmental Search - Emace Will Replace - Replace Repeated Expression Syntax C (NU Emace Manual Resplace Repeate - Exportmental Search - Emace Will Replace - Emace Will Replace - Exportmental Search - Emace Will Replace - Emace Will	Topic & URL	Description
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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. pcre2el As described in its overview: "`pcre2el' or `rxt' (RegeXp Translator or RegeXp Tools) is a utility for working with 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.	Regexp Opt @ EmacsWiki	Quick description of regex-opt capabilities.
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