Search and Replace

Search and neplace				
Description	Keystroke	Function	Note	
Control/Query how Search Operates	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 hyphen superword mode, useful for programming languages using snake-case a lot and subword mode that treats sections of camelCase and PascalCase as distinct words 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 1</f11>	(isearch-toggle-lax-whitespace)	Toggle lax-whitespace searching on or off.	
Toggle case impact on search	<f11> s m u</f11>	(pel-toggle-search-upper-case)	Toggle case sensitivity behaviour of yank in search prompt. • Rotates the value of search-upper-case to: • nil: upper case don't force case sensitivity • t: upper case force case sensitivity • not-yanks: upper case force case sensitivity, and lower case text when yank in search minibuffer.	
Toggle subword-mode	• <f11> t m b • <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.	
(See also: ∑ Text Modes)	• <m-f12> M-b</m-f12>		 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 <u>camelCase</u> and <u>PascalCase</u> are popular.</f12> 	
Toggle superword-mode	• <f11> t m p</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: ∑ Text Modes)	• <f12> M-p • <m-f12> M-p</m-f12></f12>		 With a prefix argument ARG, enable Superword mode if ARG is positive, and disable it otherwise. PEL provides the <f12> M-p key for the programming language modes where snake case is popular (Emacs Lisp, C, C++, Erlang, Python, etc)</f12> 	
Search Tools Selection			command operates. PEL supports the following search tools:	
(See also: ∑ Customize)	Emacs' default ISearch			
			 Emacs normally maps the search-forward command to C-s. PEL provides the ability to activate the following tools that can be activated for searching: The Anzu external package activated by pel-use-anzu user option. Anzu provides a match count in the modeline when search command is used. The Swiper external package activated by pel-use-swiper user option. Swiper is not using isarch-forward; it shows a list of matching lines in the mini-buffer. Use the <f11> <f1> s command to open the PEL search customize group and set the pel-initial-search-tool user option to identify which tool is used when Emacs starts. See the Customize table for more information.</f1></f11> Being able to search using either Emacs default ISearch (see below) and Swiper helps as they are both very useful in different scenarios. 	
Show which search tool is currently used	<f11> ? s</f11>	(pel-show-active-search-tool)	Display the currently used search tool.	
newlines in search and replace	New line in search and replace: Several editors use the C string syntax "\n" to identify the newline character. Emacs does not use it in search and replace queries. In Emacs search and replace queries use C-q C-j to identify newline characters.			
Non-Incremental Search			commands and keystrokes listed below. cation of the incremental search commands (see below).	
Search for word taken at point from the top of current or specified window (See also: ∑ Key-Chords)	• <f11> s . · .:.</f11>	(pel-search-word-from-top &optional N)	Search word at point from top/bottom of buffer in window identified by N. • Search direction: • If N is nil, 0 or larger, perform a search-forward from the top of the buffer in window identified by N. • If N is negative: perform a isearch-backward from the bottom of the buffer in the window selected by the absolute value of N. • Window selection: • If N is not specified, nil, 1, 3, 7 or 9 and larger: search in current window. • If N is 0: search in other window • If N in [2,8] range, search in window identified by the direction corresponding to the cursor in a numeric keypad: 8 := 'up 4 := 'left 5 := 'current 6 := 'right 2 := 'down • Temporary word mode toggle: detecting a 'word' is affected by the subword-mode and superword-mode. When searching in current buffer, the following values of N temporary toggle the mode when grabbing the word: • If N is 7: temporary toggle subword-mode to grab the word. • If N is 9: temporary toggle subword-mode to grab the word. • If N is 9: temporary toggle superword-mode to grab the word. • Explicitly selecting the minibuffer window, or a non-existing window is not allowed, and search is done in current window. • Searched word is remembered and can be used again to repeat an interactive search with C-s or C-r. • Position before searched word is pushed on the mark ring. • Using superword-mode allows you to search for function names in buffer for programming languages. If you do not want to change the mode but want to search for the word as interpreted by the other state of the mode type the command with N equal to 9: M-9 <fi11> s. • With PEL, the .: key-chord is also available when pel-use-key-chord is non-nil. See ∑ Key-Chords. • Command numeric prefix is available with the key-chord binding.</fi11>	

Description	Keystroke	Function	Note
Search forward	<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'. • <u>A Lax Search</u> is not supported.
Search backward	<f11> s b</f11>	(search-backward STRING &optional BOUND NOERROR COUNT)	Search backward from point for STRING. Set point to the beginning of the occurrence found. Search case-sensitivity is determined by the value of the variable 'case-fold-search'. Lax Search is not supported.
Search regexp forward	<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	<f11> s x b</f11>	(re-search-backward REGEXP &optional BOUND NOERROR COUNT)	Search backward from point for regular expression REGEXP. • Search case-sensitivity is determined by the value of the variable 'case-fold-search'.
Word Search	The word search comm	uence of words without regard for the type nands do not perform character folding and ax" word searches that succeed on incomp	toggling lax whitespace matching have no effect on them.
Incremental Search Word	• 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	• M-s w <ret> • <f11> s w f</f11></ret>	(word-search-forward STRING &optional BOUND NOERROR COUNT)	Searches for exact words that may be separated by punctuations and/or lines. Search string must be a complete set of words.
Search word forward lax	<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	• M-s w C-r <ret> • <f11> s w b</f11></ret>	(word-search-backward STRING &optional BOUND NOERROR COUNT	Searches for exact words that may be separated by punctuations and/or lines. Search string must be a complete set of words.
Search word backward lax	<f11> s w B</f11>	(word-search-backward-lax STRING &optional BOUND NOERROR COUNT)	Same as search word forward except that the search string may end in an incomplete word (unless it ends with whitespaces)
Incremental Search (ISearch)	during the search. Re-typ last search for same text. Type <ret> to stop se search but also perform Abandon search (and re On search exit, original po</ret>	e same key-chord after reaching end of buf To reverse search direction, use the other learch and leave cursor at found position if non the requested operation (like C-a which eleturn to where you started, type <esc><esc) added="" can="" company="" int="" is="" isearch-forward.="" mapped="" mark="" pel="" ring,="" se<="" second="" selected="" td="" the="" thus="" to="" use="" with="" you=""><td>be text to search, to remove chars. Other key-chords can be used fer, wrap to other end and continue searching. Or repeat key-chord to repeat key-chord (for example: if searching with C-s, use C-r to go backward) ext command is to insert a character. Other editing key-chords also stop the ends the search and moves point to the beginning of the line). SC><esc> or C-g C-g. C-u C-SPC or C-x C-x to return to the position before the search. Can set the pel-use-swiper user option which activates the Swiper external what command is mapped to C-s: search-forward or swiper. You can specify ion. Use <f11> <f1> s to customize PEL controlled search.</f1></f11></esc></td></esc)></esc>	be text to search, to remove chars. Other key-chords can be used fer, wrap to other end and continue searching. Or repeat key-chord to repeat key-chord (for example: if searching with C-s, use C-r to go backward) ext command is to insert a character. Other editing key-chords also stop the ends the search and moves point to the beginning of the line). SC><esc> or C-g C-g. C-u C-SPC or C-x C-x to return to the position before the search. Can set the pel-use-swiper user option which activates the Swiper external what command is mapped to C-s: search-forward or swiper. You can specify ion. Use <f11> <f1> s to customize PEL controlled search.</f1></f11></esc>
ISearch - forward 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. • With a prefix argument, do an incremental regular expression search instead, something like: • C-u 1 C-s • M C-s • With PEL, C C-s works. • C-u C-s does not work to perform a regexp ISearch. □ Instead you can also use C-M-s to perform the regexp incremental search forward. • To continue to next match during search: type C-s again (with prefix argument if that was used for regexp Isearch). • To change direction: type C-r • To repeat last completed incremental search forward: C-s C-s • ※-f is always mapped to isearch-forward. • When Anzu is used (see below) the modelling shows the match count. □ On PEL: • This key mapping is used when either pel-initial-search-tool nil or 'anzu' when pel-use-anzu is t. • If pel-use-swiper is t, you can use <f11> s s to change the tool used for search operations.</f11>
Perform Swiper search: interactive search with an overview list	C-s	(swiper &optional INITIAL-INPUT)	Perform a Swiper text search. Opens up the mini buffer and show several matches as they are being typed. Narrow the search by typing a pattern. Multiple patterns are allowed by separating with a space. Select with C-n, C-p, <up> and <down>. Chose (and stop the search) with RET. To search for a space with Swiper, type 2 spaces in the search expression. So: type "foobar" to search for "foo_bar". On PEL: This key mapping is used when pel-use-swiper is t and pel-initial-searchtool is set to swiper. You can use <f11> s s to change the tool used for search operations.</f11></down></up>
ISearch - backward Incremental Iteral search regexp search	C-r	(isearch-backward &optional REGEXP-P NO-RECURSIVE-EDIT)	Do incremental search backward: start or continue a search. • With a prefix argument, do an incremental regular expression search instead; something like: • C-u 1 C-r • M C-s • With PEL, C C-r works. • C-u C-r does not work to perform a regexp ISearch. Instead you can also use C-M-r to perform the regexp incremental search forward. • To continue to next match during search: type C-r again (with prefix argument if that was used for regexp Isearch. • To change direction: type C-s • To repeat last previously completed incremental search backward: C-r C-r • When Anzu is used (see below) the modelling shows the match count. □ On PEL: • This key mapping is used when either pel-initial-search-tool nil or 'anzu' when pel-use-anzu is t. • If pel-use-swiper is t, you can use <f11> s s to change the tool used for search operations.</f11>

Cartier Service Cartier Cartier Service Cartier Service Cartier Service Cartier Cartier Service Cartier Service Cartier Service Cartier		Description	Keystroke	Function	Note
Contractional Symbol Search (Contract Sy	· lı	arch - Regexp — forward		(isearch-forward-regexp &optional	Incremental forward regular expression search. ★ Everything that can be done with C - s can also be done here. For
Would Represe Declared	• II	ncremental	С-М-г		Everything that can be done with C-r can also be done here. For
Blaceton birdy hydron regard projects and an appropriate profess in the commental symbol search is fine non-remainal and account of the float of the search country and the float of			<f11> s x C-s</f11>	(vr/isearch-forward)	Requires visual-regexp-steroids: available when pel-use-visual-
Search symbol at point Search forward-early mission of the common of	ISe	arch with Python regexp	<f11> s x C-r</f11>	(vr/isearch-backward)	Requires visual-regexp-steroids: available when pel-use-visual-
Search symbol at point N=			buffers' major mode). On word.	ly complete match will be found. For exam	ple searching for forward-word in a Lisp file will not match isearch-forward-
Subsequent assorber for the same symbols done with C+ a montor C+z.	ISe	arch 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 M-w. • Useful for searching inside source code while superiors mode is disabled.
WORD NO.PRECURBIVE.EDIT) - With a prefix againment, do a negular single search instead of a sequence of violes without regards to not the voods are separated. During ISearch - Channes the search type to the search string - Channes the search type to the voods are separated. - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search type to the search string - Channes the search string - Select searched string - Channes the search string - Channes the string the search string - Channes the search string - C	ISe	arch for symbol	M-s _	,	 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"
Change the search type to search forward in BOLIND NOEHRICH COUNT) CREET Search Search Search Search Search Search Search Search SENISS deptonal inclination of the search searc			M-s w		With a prefix argument, do a regular string search instead. Like ordinary incremental search except that your input is treated as a
Campa the search type campa the search type campa the search campa the current campa the search	Du	ring ISearch			following characters to modify or repeat the search
### append more to the search string. ### repeat search broward ### c-r ### (search-repeat-forward) ### Repeat the current search, start searching again going forward ### Repeat the current search, start searching again going backward ### Repeat the current search, start searching again going backward #### Repeat the current search, start searching again going backward #### Repeat the current search, start searching again going backward #### Repeat the current search, start searching again going backward ##### Repeat the current search, start searching again going backward ###################################		to:		(search-forward STRING &optional BOUND NOERROR COUNT) (search-backward STRING &optional)	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.</ret></ret></ret>
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repeat search backward Select searched string White performing a search you can issue the following commands to modify the searched string text. History previous M-p (isearch-ring-retreat) Pistring searched text from search history; get previous entry from history Retrieve searched text from search history; get previous entry from history Retrieve searched text from search history; get previous entry from history Retrieve searched text from search history; get previous entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve searched text from search history; get next entry from history Retrieve search string; No different search string Repealed us buffer with the countries of the search string; Retrieve search string search the following commands and the search string; Retrieve search string with previously killed string Redults and the search string; Retrieve search string in minutifier. Respect to the text from search, list in minutifier general performing a search the following commands modify the search string to be replaced. Respect we have a search string and the current string as th				(isearch-repeat-forward)	
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History.next		Select searched string	While performing a search	you can issue the following commands to	modify the searched string text.
Tab" complete history in Unifer * C-M-i M- <tab> (isearch-complete) Perform "tab" completion for search litem in the minibuffer against the search history. Opens a buffer with the complete search history. Any one of the past search string as beselved to perform the new search. It builder Edit search string M-o (isearch-edit-string) Use this while performing a search and wanting to change the string being search. No 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 string. Add crest of line at point to search string in minibuffer. M-s C-e (isearch-yank-line &optional ARG) While searching select the text from cursor to end of line as the search string. Add crest of line at point to search string in minibuffer. C-M-y (isearch-yank-char &optional ARG) While searching select the text from cursor to end of line as the search string. If numeric argument appends that many retaines. Add crest of line at point to search string in minibuffer. C-M-y (isearch-yank-kill) Pull string from kill ring into search string. If numeric argument appends that many characters at point to the search string. Bearch string in minibuffer. * 8-e * 8-e Pull string from kill ring into search string. Beize in string in minibuffer. * 8-e * 9-e</tab>		History previous	м-р	(isearch-ring-retreat)	Retrieve searched text from search history: get previous entry from history
Under the distory in buffer **C-M-1		History next	M-n	(isearch-ring-advance)	Retrieve searched text from search history: get next entry from history
searched. When M—e is typed during the search, the prompt goes back to the minibuffer allowing the editing of the searched string. Edit the maker a string in minibuffer. End editing with *RETP. C-j, C-s or C-r search stating Add rest of line at point to search strain in minibuffer. End editing with *RETP. C-j, C-s or C-r search stating Add character at point to search string. Add character at point to search string in minibuffer. Add character at point to search string. C-M-y (isearch-yank-char &optional ARG) Appends character at point to the search string. If numeric argument appends that many characters. Appends character at point to the search string. If numeric argument appends that many characters. Appends character at point to the search string. If numeric argument appends that many characters. Appends character at point to the search string. Fellow search string with the search string (via (search-yank-kill) with previously killed string. Beplace just-yanked search string (via (search-yank-kill) with previously killed string. Modify search method Start query replace Start query replace C-M-% (isearch-query-replace-regexp & first query replace, using the current string as the string to be replaced. Start query replace Start query replace C-M-% (isearch-query-replace-regexp & first query replace, using the current string as the regex string to be replaced. Start query replace Start query replace Start query replace C-M-% (isearch-query-replace-regexp & first query string to be replaced. Start query replace Start query replace Start query replace Start query replace, using the current string as the regex string to be replaced. Start query replace with current search string. Start query replace string to be replaced. Start query replace string to be repl	U			(isearch-complete)	history. Opens a buffer with the complete search history. Any one of the past
search string Add character at point to search string Add character at point to search string Avank from kill ring to search string Beplace just-vanked search string Modify search method Start query replace C—M—8 ElegEXP-FLAG) Start query replace C—M—8 Elegexy Enter occur search: list allocurences Modify search mode Modify search mode Modify search mode Modify search mode Enter occur search: list allocurences Modify search mode Enter occur search: list allocurences M —S PC (isearch-occur REGEXP & Soptional and sold provided in the following commands modify the search with current search string. Sat an incocurrences Modify search mode	I N G	Edit search string	м-е	(isearch-edit-string)	 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.
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Replace just-yanked search string with previously killed string. Modify search method While performing a search the following commands modify the search method. Start query replace M-\$ (isearch-query-replace & optional ARG REGEXP-FLAG) Start query replace Regexp Modify search method While performing a search the following commands modify the search method. Start query replace Regexp-FLAG) Transforms the Search into a query replace, using the current string as the string to be replaced. Transforms the Search into a regex query replace, using the current string as the regex string to be replaced. Transforms the Search into a regex query replace, using the current string as the regex string to be replaced. Modify search mode (isearch-query-replace-regexp) And Modify search mode While performing a search the following commands modify the search modes. Toggle lax whitespace matching Toggle lax whitespace matching Modify search mode (isearch-toggle-lax-whitespace) Toggle lax whitespace is accepted in the default lax matching. This can also be customized. When off: search exact string. Toggle searching in invisible text Toggle regular-expression M-r (isearch-toggle-invible) Toggle regular-expression M-r (isearch-toggle-regexp) Toggle regular-expression M-r (isearch-toggle-regexp) Toggle regular-expression	E	-	С-М-У	(isearch-yank-char &optional ARG)	
search string with previously killed string Modify search method Start query replace M-% (isearch-query-replace & optional ARG REGEXP-FLAG) Start query replace M-% (isearch-query-replace & optional ARG REGEXP-FLAG) Start query replace M-% (isearch-query-replace-regexp & optional ARG) Ment occur search: list all occurrences Modify search mode Toggle lax whitespace matching Modify search mode Modify search mod	A R			(isearch-yank-kill)	Pull string from kill ring into search string.
Start query replace M—% (isearch-query-replace & optional ARG REGEXP-FLAG) Start query replace regexp C—M—% (isearch-query-replace-regexp & the regex string to be replaced. Modify search mode Modify search mode Toggle lax whitespace matching Toggle case sensitivity M—c (isearch-toggle-lax-whitespace) Toggle searching in invisible text Toggle regular-expression M—s (isearch-toggle-regexp) (isearch-toggle-regexp) (isearch-toggle-regexp) (isearch-toggle-regexp) C—M—% (isearch-query-replace & optional ARG) Transforms the Search into a query replace, using the current string as the regex string to be replaced. Transforms the Search into a query replace, using the current string as the string to be replaced. Transforms the Search into a query replace, using the current string as the string to be replaced. Transforms the Search into a query replace, using the current string as the string to be replaced. Transforms the Search into a query replace, using the current string as the string to be replaced. Transforms the Search into a query replace, using the current string as the regex string to be replaced. Transforms the Search into a query replace, using the current string as the regex string to be replaced. Transforms the Search into a query replace, using the current string as the regex string to be replaced. Transforms the Search into a query replace, using the current string as the regex string to be replaced. Transforms the Search into a query replace, using the current string as the regex string to be replaced. Transforms the Search into a query replace, using the current string as the regex string to be replaced. Toggle leave string to be replaced. Tansforms the Search into a regex query replace, using the current string as the regex string to be replaced. Tansforms the Search into a regex query replace, using the current string as the regex string to be replaced. Tansforms the Search into a regex query replace. Tansforms the Search into a regex query replace. Tansforms the Se	C	search string with	м-у	(isearch-yank-pop)	
Start query replace regexp (isearch-query-replace-regexp & optional ARG) M Enter occur search: list all occurrences M Modify search mode M Toggle lax whitespace matching Toggle case sensitivity M M C M C (isearch-toggle-case-fold) Toggle searching in invisible text Toggle regular-expression M M C M C (isearch-toggle-regexp) (isearch-toggle-regexp) (isearch-toggle-regexp) (isearch-toggle-regexp) Transforms the Search into a regex query replace, using the current string as the regex string to be replaced. Transforms the Search into a regex query replace, using the current string as the regex string to be replaced. Transforms the Search into a regex query replace, using the current string as the regex string to be replaced. Transforms the Search into a regex query replace, using the current string as the regex string to be replaced. Start an "occur" search with current search string. 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 search case sensitivity. Toggle search case sensitivity. Toggle whether invisible text is searched. • Useful when editing outlined text. Toggle regular-expression Toggle regular-expression Toggle regular-expression Toggle regular-expression Transforms the Search with current sering. Transforms the search with current search with current search with current search string. Toggle search mode Toggle search mode Toggle search modes. Toggle regular-expression Toggle regular-expression Toggle regular-expression Toggle regular-expression		Modify search method	While performing a search	the following commands modify the searc	h method.
M Enter occur search: list all occurrences Modify search mode Modify search mode Toggle lax whitespace matching Toggle case sensitivity M-c M-c M-s Toggle searching in invisible text Toggle regular-expression M-r Soptional ARG) the regex string to be replaced. Start an "occur" search with current search string. 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 searching in invisible text Toggle regular-expression M-r (isearch-toggle-invible) Toggle regexp searching on or off.	C	Start query replace	M-%		
A NO	M		C-M-%		
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 Toggle searching in invisible text Toggle searching in invisible text Toggle regular-expression M-r (isearch-toggle-invible) Toggle whether invisible text is searched. Useful when editing outlined text. Toggle regular-expression M-r (isearch-toggle-regexp) Toggle regexp searching on or off.	M		M-s o		· ·
 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 Toggle searching in invisible text Invisible text Toggle regular-expression M-r (isearch-toggle-regexp) Any number of whitespace is accepted in the default lax matching. This can also be customized. When off: search exact string. Toggle search case sensitivity. Toggle whether invisible text is searched. Useful when editing outlined text. Toggle regexp searching on or off. Toggle regexp searching on or off.	A	Modify search mode	While performing a search	n the following commands modify the searc	h modes.
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invisible text • Useful when editing outlined text. Toggle regular-expression • M-r (isearch-toggle-regexp) Toggle regexp searching on or off.	3	Toggle case sensitivity		(isearch-toggle-case-fold)	<u> </u>
			M-s i	(isearch-toggle-invible)	
				(isearch-toggle-regexp)	Toggle regexp searching on or off.

Description	Keystroke	Function	Note
Toggles word mode	M-s w	(isearch-toggle-word)	Toggle word searching on or off. Turning on word search turns off regexp mode. For example: in C file: the expression it->second.first is not matched by "is second first" but when the word mode (or the symbol mode) is activated it matches.
Toggles symbol mode	M-s _	(isearch-toggle-symbol)	Toggle symbol search mode. • Useful for searching code. For example: "data size" matches "data.size" as well as "data->size", "data + size" and "data size".
Toggle character folding	M-s '	(isearch-toggle-char-fold)	Toggle char-fold searching on or off. Turning on character-folding turns off regexp mode. When character folding is activated all accentuated letters for a given letter match the letter., otherwise it does not match (ie: 'à' matches 'a' when character folding is activated and does not otherwise).
Stop the incremental search		und text. Stop current search and leave cur current search and return point to original le	
Occur Search			
List all matching occurrences of regexp in current buffer	M-s o	(occur REGEXP &optional NLINES)	 Prompts for a regexp Can use M-n at prompt to recuse previous search strings Use M-n prefix to specify n lines of context in result. Default=list-matching-lines-default-context-lines. "M-s o" can be used during an incremental search. In *Occur* buffer: <ret> visit corresponding position in the searched buffer</ret> "C-o" display the match in other window (but does not select it) <, >: go to the beginning and end of the buffer g: revert the buffer, refreshing the search results e: buffer enters the Occur Edit Mode which allows edits in both buffers simultaneously via edits in the *Occur* buffer. Exit Occur Edit Mode with: "C-c C-c" (which is: (occur-cease-edit)) Navigate though occurrences (in original buffer): (next-error): "C-x ~" or "M-g n" or "M-g M-n" (previous-error): "M-g p" or "M-g M-p"
Occur search in selected buffers	<f11> s 0</f11>	(multi-occur-in-matching-buffers BUFREGEXP REGEXP &optional ALLBUFS)	For example to occur search in all .py files, select the buffers with "\.py\$" (without the quotes).
Occur search in selected files	<f11> s o</f11>	(multi-occur BUFS REGEXP &optional NLINES)	
During Occur Search			
occur - next occurence	• C-x ` • M-g n • M-g M-n	(next-error &optional ARG RESET)	A prefix ARG specifies how many error messages to move; negative means move back to previous error messages. Just C-u as a prefix means reparse the error message buffer and start at the first error.
occur - previous occurence	• M-g p • 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.
PEL Search/Replace Command Selection	Several regexp engines are available to perform regexp searches. Emacs provides its own. But several external packages provide extensions. The <u>visual-regexp</u> enhances the Emacs regexp search and replace engine by showing matches in the buffer while you are typing the regexp, providing useful feedback when learning Emacs regexp. For replacement it shows both the match in original text and its replacement. The <u>visual-regexp-steroids</u> extends this further by allowing the use of other rexgexp engines like pcre2el and Python. PEL provides the ability to dynamically select the extension to use for your regexp search and replace operations. Use the <f11> ? S to see whis available and active and use <f11> s S to change the regexp engine. Emacs provides the following commands to perform string replacement in buffers. The following external packages also provides several useful extensions: pcre2el visual-regexp visual-regexp visual-regexp-steroids visual-regexp-steroids</f11></f11>		
Search/Replace Regexp Engine Selection (See also: ∑ Customize)	PEL supports several regular expression search/replace engines that control the way several Search and Replace commands operate: • Emacs' default regex engine • it provides visual feedback during search and replace operation: it shows matches in buffer while typing the search text. • it provides visual feedback during search and replace operation: it shows matches in buffer while typing the search text. • ivisual-regexp-steroids : ivisual-regexp-steroids is t • An extension to visual-regex which provides same visual feedback but supports several regexp engines: • emacs, emacs-plain, pcre2el, python and custom (no special custom regexp yet implemented by PEL).		
	 Use <f11><f1> r, to customize the PEL completion group user options above.</f1></f11> Set the pel-initial-regexp-engine user option to select which regexp engine is used when Emacs starts. 		
	When any of the extra search tool is activated via the corresponding pel-use- user option, pel-init makes the following commands available to change the currently used search/replace regexp engine and to see which one is currently active.		
Select the search/replace regexp engine	<f11> s S</f11>	(pel-select-search-regexp-engine)	Select the search/replace and regexp engine to use. • Shows currently used engine at the prompt. Supports completion. With PEL, Activating the engines provided by visual-regexp-steroids currently prevents restoring the original engine. More work is required on PEL code for full dynamic flexibility.
Show which search/replace	<f11> ? S</f11>	(pel-show-active-search-regexpengine &optional WTH-DETAILS)	Display the currently used search regexp engine. Display a detailed message describing what is available the first time it is run and when a prefix argument is used (C-u or any numeric argument will do).
regexp engine is used			and whom a promy argument to about (C a or any mamorite argument will ab).
•	Simple text replacement of	command.	and the press digenters to accept the any national digenters will accept

Description	Keystroke	Function	Note
Unconditional regex replace	• <f11> s x r • C-c r</f11>	(replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD)	Replace every match for regex with new string. PEL only activates the C-c r binding if the pel-bind-keys-for-regexp user option is set to t.
		(pel-replace-regexp): • (replace-regexp REGEXP TO-STRING & optional DELIMITED START END BACKWARD) • (vr/replace REGEXP REPLACE START END) • (vr/select-replace)	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).</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
Visual Regexp Replace with	<f11> s x M-r</f11>	Requires visual-regexp: dayailable when pel-use-visual-regexp is t. (vr/select-replace)	C-c ? : help C-c a : toggle show all or up to the default limit. Default limit is specified by vr/default-feedback-limit
engine selection	KIIIV S X M-F	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.
Visual Regexp Search to multiple-cursors	• <f11> s x M • C-c m</f11>	(vr/mc-mark REGEXP START END) This requires both visual-regexp and	Convert regexp selection to multiple cursors. First performs a Visual regexp search. When the result of the search is accepted (by hitting RET) all matches are converted to multiple cursors,
(See also ∑ Cursor)		multiple-cursors external packages.	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	<f11> s x M-m</f11>	(vr/select-mc-mark) This requires both visual-regexp-	PEL activates this command when both pel-use-multiple-cursors is t and either pel-use-visual-regexp or visual-regexp-steroids is t .
(See also ∑ Cursor)		steroids and multiple-cursors external packages.	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
Query Replace	Query replacement promp	ots. The following 2 commands are query re	eplace. The answers to prompts are listed after the 2 commands.
Query Replace	M-%	(query-replace FROM-STRING TO- STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P)	Replace <i>some</i> occurrences of a string with another, both specified by user. A negative argument replaces backwards.
Query Replace Regexp	• C-M-% • <f11> s x q • C-c q</f11>	(query-replace-regexp REGEXP TO- STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P) — (pel-query-replace-string)	Replace <i>some</i> 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 the pel-bind-keys-for-regexp user option is set to t. 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	<f11> s x Q</f11>	(vr/query-replace REGEXP REPLACE START END) Requires visual-regexp: available when pel-use-visual-regexp is t.	Replace <i>some</i> 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
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 ? : help C-c a : toggle show all or up to the default limit. Default limit is specified by vr/default-feedback-limit C-c p : toggle preview The following are available only when using the Python regexp engine: C-c i : toggle case sensitivity (ignore case) C-c m : toggle multi-line match of ^ and \$ C-c s : toggle dot matches newline C-c u : enable Unicode by default.
QR Response : keys to use during a query replacement to identify actions	• n or :dd • . :re • , :re • . :re • . :ba • u :ur • u :ur • q or <ret> :al • E :m • C-r :er • C-W :dd • C-M-c :e) • C-J :E: • ? :gg • Y :re</ret>	place on't replace, move to next eplace current and quit place & let me see result before moving on place all the rest and don't ask ack up to the previous instance ado last replacement ado ALL replacements oort/exit query-replace odify the replacement string atter recursive edit - Exit the recursive edit - elete this instance and enter recursive edit - cit recursive edit and resume query-replace et help place all strings in all buffer, no questions. etip to next buffer without replacing remainin	with one of: C-M-c or C-] —to make a custom replacement
Interpret and Lint Emacs Lisp Regexp with <u>xr</u> . Convert it to rx-style	The <u>xr</u> external package provides a function that interprets Emacs Lisp regexp and prints a descriptive <u>rx-style semantic form</u> to explain it. All commands described below require the <u>xr</u> external package activated when the <u>pel-use-xr</u> user option is set to t. The <u>rx Emacs Lisp macro</u> can be used in Emacs Lisp code to express a regexp in a more readable fashion. Type <f1> o rx for more info.</f1>		
semantic form	PEL provides <u>xr</u> when the pel-use-xr user option is set to t . PEL provides the following commands which take a regexp at the prompt or from text at point to print a description inside 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.

Keystroke	Function	Note
<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.
<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.
<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.
While regex-tool is runr The regex-tool uses Em	ning: type C-c C-c to force an update and access Lisp regular expressions by default. It compares to the compare to the co	d C-c C-k to quit using it. can also use full Perl regexp if you have Perl installed on your system.
<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
C-c C-c	(regex-tool-markup-text &optional BEG END LEN)	Force an update of the regex-tool windows.
C-c C-k	(regex-tool-quit)	Quit regex-tool and close its 3 windows, reverting to the window layout used before it was just turned on.
C-c <f1></f1>	(pel-select-regex-tool-engine)	Open the customize buffer to change regex-tool-backend user option. • Select between Emacs and Perl backend. • To close the customize buffer, type q. • Force an update of the regex-tool to rescan using the new backend, with C-c C-c.
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.</f1></f11></f11>		
<f11> s x B</f11>	(re-builder)	Construct and test a regexp interactively. This command makes the current buffer the "target" buffer of the regexp builder. It displays a buffer named "*RE-Builder*" in another window, initially containing an empty regexp. As you edit the regexp in the "*RE-Builder*" buffer, the matching parts of the target buffer will be highlighted. re-builder supports different styles of regular expressions, selected by the value of the reb-re-syntax user option. The possible values are: read: the default. Similar to string but requires double escaping of backslashes - similar to how it must be done in Elisp source code. For example: "\(red\\green\\)" string: Similar to read but no double backslashes are needed. Example: "\(red\\green\)" rx: A more advanced, s-expression regexp engine, used if you want lisp-style regexp engine.
<f11> s x <f1></f1></f11>	(pel-reb-re-syntax)	Select regular expression syntax used by the re-builder: • customize reb-re-syntax user option. • This user option is part of the re-builder group which contains other related settings. • This is a global binding: it can be used any time.
C-c C-b	(reb-change-target-buffer BUF)	Change the target buffer and display it in the target window.
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.
• C-c C-i • C-c <tab></tab>	(reb-change-syntax &optional SYNTAX)	Change the syntax used by the RE Builder.
C-c C-q	(reb-quit)	Quit the RE Builder mode.
C-c C-r	(reb-prev-match)	Go to previous match in the RE Builder target window.
C-c C-s	(reb-next-match)	Go to next match in the RE Builder target window.
C-c C-u	(reb-force-update)	Force an update in the RE Builder target window without a match limit.
C-c C-w	(reb-copy)	Copy current RE into the kill ring for later insertion.
	<fil>s x I The external regex-too. While regex-tool is runred. The regex-tool uses Empty of the regex-tool uses Empty. The regex-tool-back. C-c C-c C-c C-c C-c C-d While the rebuilder is red. The regular experiment. The regular</fil>	<pre><fill> s x X</fill></pre>

Description	Keystroke	Function	Note
Emacs Regular Expressions Syntax	The following rows descri	be Emacs regular expressions (which differ f	from other styles of regex) and tools to try them out.
Emacs Regular expression syntax Emacs Regular expression syntax	\$: end of {line	dary marker haracter. Alternative: [[:word:]] ord character. Alternative: [^[:word:]] ord character. Alternative: [^[:word:]] character except newline If the previous expression rious pattern 1 or more times, but with minimion or more of the previous expression or more of the previous expression of word do for a symbol mbol ular expressions supported by Emacs include ter in range. [a-z] means all lowercase characters (when complete in range. [a-z] means all lowercase characters (when complete in any letter or digit lipha in any letter or digit lipha in any letter or digit lipha in any digit character ligit in any ASCII control character in any ASCII control character in any ASCII control character in any digit character if case-fold-sea (Use <f11) folding="" folding<="" for="" in="" sometime="" td="" the=""><td>e \w, \W, \b, \B, \<, \>, \', \' (start and end of buffer) case sensitive). Inside range the following characters or expressions can be nat we want to match anything but what is in the set. be any of: except whitespace, trol characters, surrogates and code points unassigned by Unicode. arch is non-nil it also matches upper-case letters. oggle the value of this variable. o, carriage return, formfeed, backspace r- and lower-case letters, and digits. s used in variable, function, command names. he in Lisp. C has some. only useful in lisp forms) that take and return strings, such as the following examples: pturing group 2 as number and format it as decimal with 2 decimal points.</td></f11)>	e \w, \W, \b, \B, \<, \>, \', \' (start and end of buffer) case sensitive). Inside range the following characters or expressions can be nat we want to match anything but what is in the set. be any of: except whitespace, trol characters, surrogates and code points unassigned by Unicode. arch is non-nil it also matches upper-case letters. oggle the value of this variable. o, carriage return, formfeed, backspace r- and lower-case letters, and digits. s used in variable, function, command names. he in Lisp. C has some. only useful in lisp forms) that take and return strings, such as the following examples: pturing group 2 as number and format it as decimal with 2 decimal points.
	• \D : any non digi	t character. Alternative: [^[:digit:]]	

Search & Replace — References

Topic & URL	Description
GNU Emacs - Searching and Replacement	GNU Emacs manual section describing search & replace features.
Regular Expression Help @ EmacsWiki	Some quick info on Emacs regular expression syntax.
Search - Incremental Search - Emacs Wiki	Large list of commands and key bindings. Also contains links to several other pages describing search modes, Icicle, etc
Replace - GNU Emacs Manual - Replacement Commands	
Replace - ErgoEmacs - Emacs: Find and Replace Commands	Quick view of what's available by default.
Replace - How do I "M-x replace-string" across all buffers in emacs?	Some info here using ICycle.
Emacs Regular Expression Syntax	
Emacs Regular Expression Syntax @ GNU Emacs Manual	
Searching in directory tree	
Is there a way to use query-replace from grep/ack/ag output modes?	This page describes several packages and functions to perform directory tree searches.
Regular Expressions & re-builder	
re-builder.el	Emacs built-in regular expression builder mode code.
Re Builder @ Emacs Wiki	
Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions?	
re-builder: the Interactive regexp builder	
Search at Point	
"super star" or find the word under the cursor equivalent in emacs	Search at point with "M-s ."
Thing at point @ Emacs Wiki	Describes functions to retrieve text elements at point
The built-in regex-opt.el library	The built-in regex-opt package helps creation of simple regular expression strings.
Regexp Opt @ EmacsWiki	Quick description of regex-opt capabilities.
The built-in rx.el library	The rx macro converts an easy-to-read s-expression description of a regex into a regular expression
rx @ EmacsWiki	A quick overview of the idea behind rx. Also shows a macro that extends it.
Exploring Emacs Rx Macro from Francis Murillo	A more extensive presentation of rx with several examples.
Other Regular Expression Emacs Lisp Libraries	
xr - converts regex to structured rx form	Converts a string regular expression into the rx notation S-Exp form. Usefull to understand complex regex in Emacs Lisp source code.
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.
regex-tool	Tool using frame to test Emacs regular expressions.