## Search and Replace

Search and neplace			
Description	Keystroke	Function	Note
Control/Query how Search Operates	searches where any case	efault "case folding" and does " <u>lax space r</u> is matched unless the specified pattern co can be modified using some of the commar	ontains at least one upper case letter. It also has different modes for words and
Show how search behaves in mini buffer	<f11> s m ?</f11>	(pel-show-search-case-state)	Describe the search case handling behaviour.  • The information is shown in the mini-buffer.
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 search case sensitivity	<f11> s m f</f11>	(pel-toggle-case-fold-search)	Toggle value of case-fold-search variable
Toggle lax space searching	<f11> s m l</f11>	(isearch-toggle-lax-whitespace)	Toggle lax-whitespace searching on or off.
Search Tools Selection (See also: ∑ Customize)			
	change the currently used	d search tool and to see which one is curren	ntly active.
Select search tool to use	<f11> s s</f11>	(pel-select-search-tool)	<ul> <li>Prompt user for search tool to use with C-s. Show new active one.</li> <li>Emacs normally maps the search-forward command to C-s.</li> <li>PEL provides the ability to activate the following tools that can be activated for searching:</li> <li> The Anzu external package activated by pel-use-anzu user option. Anzu provides a match count in the modeline when search command is used. </li> <li> 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. </li> <li> 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></li> <li> Being able to search using either Emacs default ISearch (see below) and Swiper helps as they are both very useful in different scenarios. </li> </ul>
Show which search tool is	<f1> ? s</f1>	(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 <b>not</b> use it in search and replace queries.  • In Emacs search and replace queries use <b>C-q C-j</b> to identify newline characters.		
Non-Incremental Search	The normal (non-incremental) search can be performed using the commands and keystrokes listed below.  • They can also be invoked by typing <ret> right after the invocation of the incremental search commands (see below).</ret>		
Search for word taken at point from the top of current or specified window	<f11> s .</f11>	(pel-search-word-from-top &optional N)	<ul> <li>Search word at point from top/bottom of buffer in window identified by N.</li> <li>Search direction: <ul> <li>If N is nil, 0 or larger, perform a search-forward from the top of the buffer in window identified by N.</li> <li>If N is negative: perform a isearch-backward from the bottom of the buffer in the window selected by the absolute value of N.</li> <li>Window selection: <ul> <li>If N is not specified, nil or 1: search in current window.</li> <li>If N is 0: : search in other window</li> <li>If N in [2,8] range, search in window identified by the direction corresponding to the cursor in a numeric keypad: <ul> <li>8 := 'up</li> <li>4 := 'left 5 := 'current 6 := 'right</li> <li>2 := 'down</li> </ul> </li> <li>If N is 9 or larger: search in window below.</li> </ul> </li> <li>Explicitly selecting the minibuffer window, or a non-existing window is not allowed, and search is done in current window.</li> <li>Searched word is remembered and can be used again to repeat an interactive search with C-s or C-r.</li> <li>Position before searched word is pushed on the mark ring.</li> <li>Using superword-mode allows you to search for function names in buffer for programming languages.</li> </ul> </li> </ul>
Search forward	<f11> s f</f11>	(search-forward STRING &optional BOUND NOERROR COUNT)	<ul> <li>Search forward from point for STRING.</li> <li>Set point to the beginning of the occurrence found.</li> <li>Search case-sensitivity is determined by the value of the variable 'case-fold-search'.</li> <li>\( \begin{array}{c} \Lax Search \) is not supported.</li> </ul>
Search backward	<f11> s b</f11>	(search-backward STRING &optional BOUND NOERROR COUNT)	<ul> <li>Search backward from point for STRING.</li> <li>Set point to the beginning of the occurrence found.</li> <li>Search case-sensitivity is determined by the value of the variable 'case-fold-search'.</li> <li>Lax Search is not supported.</li> </ul>
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'.

Description	Keystroke	Function	Note
Word Search	The word search comm	equence of words without regard for the type of punctuation between them.  nmands do not perform character folding and toggling lax whitespace matching have no effect on them.  "lax" word searches that succeed on incomplete words, they are listed below.	
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 ron search exit, original points)  C-s is normally package and the <f11></f11></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="" for<="" forward="" int="" is="" isearch-forward.="" mapped="" mark="" pel="" ring,="" search="" selected="" th="" the="" thus="" to="" use="" with="" you=""><th>pe text to search, <b><del></del></b> 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 <b>C-s</b>, use <b>C-r</b> 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&gt;<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 <b>pel-use-swiper</b> user option which activates the <u>Swiper external</u> what command is mapped to <b>C-s</b>: search-forward or swiper. You can specify oftion. Use <b><f11></f11></b> s to customize PEL controlled search.</esc></th></esc)></esc>	pe text to search, <b><del></del></b> 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 <b>C-s</b> , use <b>C-r</b> 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 <b>pel-use-swiper</b> user option which activates the <u>Swiper external</u> what command is mapped to <b>C-s</b>: search-forward or swiper. You can specify oftion. Use <b><f11></f11></b> s to customize PEL controlled search.</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  • ℜ-f is always mapped to isearch-forward.  • This key mapping is used when either pel-use-swiper or pel-search-with-swiper is nil.  • If pel-use-swiper is t, you can use <f11> s s to toggle the map to swiper instead.</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 and pel-search-with-swiper are both set to t.  You can use <fil> s to toggle the map to isearch-forward instead.</fil></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
ISearch - Regexp - forward     Incremental     regexp search	C-M-s	(isearch-forward-regexp &optional NOT-REGEXP NO-RECURSIVE-EDIT)	Incremental forward regular expression search.
ISearch - Regexp - backward     Incremental     regexp search	C-M-r	(isearch-backward-regexp &optional NOT-REGEXP NO-RECURSIVE-EDIT)	Incremental backward regular expression search.  ► Everything that can be done with C-r can also be done here. For example repeating the search can be done with C-r.
Incremental Symbol Search	Incremental <b>symbol</b> search is like incremental search except that the boundaries of the search must match the boundaries of a symbol (for the buffers' major mode). Only complete match will be found. For example searching for <i>forward-word</i> in a Lisp file will not match <i>isearch-forward-word</i> .  Note: salso see the command described above: <b>pel-search-word-from-top</b> , bound to <b>f11&gt; s</b> .		
Search symbol at point	M-s .	(isearch-forward-symbol-at-point)	Perform a symbol search starting with current symbol at point.  • After capturing the word at point you can extend it by typing M-w.  • Useful for searching inside source code while superiors mode is disabled.  • Use C-s and/or C-r to perform extra searches on the same symbol.
ISearch for symbol	M-s _	(isearch-forward-symbol &optional NOT-SYMBOL NO-RECURSIVE-EDIT)	Prompt for symbol, perform <a href="mailto:symbol search">symbol search</a> .  • Subsequent searches for the same symbol is done with <b>C−s</b> and/or <b>C−r</b> .  • Useful for searching code. For example: "data size" matches "data.size" as well as "data->size", "data + size" and "data size".
ISearch for sequence of words	M-s w	(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.

	Description	Keystroke	Function	Note
Du	ring ISearch		n can be modified to perform other searches.  In can be modified to perform other searches.  In can be modified to perform other searches.	
	Change the search type	<ret></ret>	(search-forward STRING &optional	Typing <ret> right after typing the command (C-s, C-r, C-M-s or C-M-r)</ret>
	to: simple search		BOUND NOERROR COUNT)  • (search-backward STRING &optional BOUND NOERROR COUNT)	<ul> <li>and before typing the text to search for:</li> <li>C-s <ret> or C-r <ret> perform a regular search instead of an ilSearch.</ret></ret></li> <li>C-M-s <ret> or C-M-r <ret> perform a regular regex search.</ret></ret></li> </ul>
	Add word at point to search string	C-w	(isearch-yank-word-or-char)	Appends the next character or word at point to the search string. Repeat it to append more to the search string.
	repeat search forward	• C-s • ∺-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 searched string	While performing a search	n 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
	History next	M-n	(isearch-ring-advance)	Retrieve searched text from search history: get next entry from history
D U	"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.
R I N G	Edit search string	м-е	(isearch-edit-string)	Use this while performing a search and wanting to change the string being searched.  • When M-e is typed during the search, the prompt goes back to the minibuffer allowing the editing of the searched string.  • Edit then search string in minibuffer.  • End editing with <ret>, C-j, C-s or C-r</ret>
I	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.
E	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.
A R	Yank from kill ring to search string	• С-у • Ж-е	(isearch-yank-kill)	Pull string from kill ring into search string.
C H	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.
	Modify search method	While performing a search	ch the following commands modify the search method.	
C	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.
M	Start query replace regexp	C-M-%	(isearch-query-replace-regexp &optional ARG)	Transforms the Search into a regex query replace, using the current string as the regex string to be replaced.
M A	Enter occur search: list all occurrences	M-s o	(isearch-occur REGEXP &optional NLINES)	Start an "occur" search with current search string.  • See "M-s o" row above for more information.
Modify search mode While performing a search the following commands modify the search modes.  Toggle lax whitespace M-s SPC (isearch-toggle-lax-whitespace) Toggle lax matching during this search. Lax matching				
D S	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)	<ul> <li>Toggle word searching on or off.</li> <li>Turning on word search turns off regexp mode.</li> <li>For example: in C file: the expression it-&gt;second.first is not matched by "is second first" but when the word mode (or the symbol mode) is activated it matches.</li> </ul>
	Toggles symbol mode	M-s _	(isearch-toggle-symbol)	Toggle symbol search mode.  • Useful for searching code. For example: "data size" matches "data.size" as well as "data->size", "data + size" and "data size".
	Toggle character folding	M-s '	(isearch-toggle-char-fold)	Toggle char-fold searching on or off.  Turning on character-folding turns off regexp mode.  When character folding is activated all accentuated letters for a given letter match the letter., otherwise it does not match (ie: 'à' matches 'a' when character folding is activated and does not otherwise).
	Stop the incremental search		: Pick found text. Stop current search and leave cursor right after the found text. : Aborts current search and return point to original location.	
Oc	ccur Search			
	t all matching occurrences egexp in current buffer	M-s o	(occur REGEXP &optional NLINES)	<ul> <li>Prompts for a regexp</li> <li>Can use M-n at prompt to recuse previous search strings</li> <li>Use M-n prefix to specify n lines of context in result. Default=list-matching-lines-default-context-lines.</li> <li>"M-s o" can be used during an incremental search.</li> <li>In "Occur* buffer: <ul> <li>"RET&gt; visit corresponding position in the searched buffer</li> <li>"C-o" display the match in other window (but does not select it)</li> <li>&lt;,&gt;: go to the beginning and end of the buffer</li> <li>g: revert the buffer, refreshing the search results</li> <li>e: buffer enters the Occur Edit Mode which allows edits in both buffers simultaneously via edits in the "Occur* buffer.</li> <li>Exit Occur Edit Mode with: <ul> <li>"C-c C-c" (which is: (occur-cease-edit))</li> </ul> </li> <li>Navigate though occurrences (in original buffer): <ul> <li>(next-error): "C-x " or "M-g n" or "M-g M-n"</li> <li>(previous-error): "M-g p" or "M-g M-p"</li> </ul> </li> </ul></li></ul>

Description	Keystroke	Function	Note
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)	
<b>During Occur Search</b>			
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.
Replace Commands		wing commands to perform string replacemes also provides several useful extensions:	ent in buffers.
Unconditional Replace	Simple text replacement of	command.	
Unconditional replace	<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</f11>	(replace-regexp REGEXP TO-STRING &optional DELIMITED START END BACKWARD)	Replace every match for regex with new string.
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</f11>	(query-replace-regexp REGEXP TO- STRING &optional DELIMITED START END BACKWARD REGION- NONCONTIGUOUS-P)	Replace some occurrences of a regex match with a specified string.  A negative argument replaces backwards.  C-% is not an ASCII control character, so C-M-% does not work in Terminal mode.
during a query replacement to identify actions	<ul> <li>y or SPC</li> <li>replace</li> <li>n or <del></del></li> <li>don't replace, move to next</li> <li>replace current and quit</li> <li>replace &amp; let me see result before moving on — Press SPC to move on.</li> <li>! replace all the rest and don't ask</li> <li>' back up to the previous instance</li> <li>u undo last replacement</li> <li>U undo ALL replacements</li> <li>u ondo YRET&gt;</li> <li>abort/exit query-replace</li> <li>E modify the replacement string</li> <li>C-r enter recursive edit - Exit the recursive edit with one of: C-M-c or C-]</li> <li>C-W delete this instance and enter recursive edit — to make a custom replacement</li> <li>C-M-c exit recursive edit and resume query-replace</li> <li>C-J Exit recursive edit and exit query-replace</li> <li>C-J Exit recursive edit and exit query-replace</li> <li>? get help</li> <li>Y replace all strings in all buffer, no questions. — Multi-buffer QR Response</li> <li>N skip to next buffer without replacing remaining matches in current buffer — Multi buffer QR Response.</li> </ul>		
Regular Expression Builder	Use the Regular Expression Builder 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>		
Build regular expression	<f11> s x B</f11>	(re-builder)	Construct and test a regexp interactively.
interactively with re-builder  This is a great way to learn Emacs regexp!			<ul> <li>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.</li> <li>As you edit the regexp in the "*RE-Builder*" buffer, the matching parts of the target buffer will be highlighted.</li> <li>re-builder supports different styles of regular expressions, selected by the value of the reb-re-syntax user option. The possible values are: <ul> <li>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: "\(\(\text{red}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</li></ul></li></ul>
Select the regular expression syntax used by the re-builder	<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.
Change target buffer	C-c C-b	(reb-change-target-buffer BUF)	Change the target buffer and display it in the target window.
Enter/leave sub-expression highlight mode	C-c C-e	(reb-enter-subexp-mode)	<ul> <li>Enter the subexpression mode in the RE Builder.</li> <li>Use this to only highlight the capturing groups.</li> <li>Type 0 to 9 to identify the group to highlight.</li> <li>Type q to exit that mode.</li> </ul>
Select regular expression syntax used	• C-c C-i • C-c <tab></tab>	(reb-change-syntax &optional SYNTAX)	Change the syntax used by the RE Builder.
Quit re-builder	C-c C-q	(reb-quit)	Quit the RE Builder mode.

Move point to previous match  C-c C-c  Ord-net-match	Description	Keystroke	Function	Note
Process of the PEE Suition toget window without a midsh final.   Process of the PEE Suition toget window without a midsh final.   Process of the PEE Suition toget window without a midsh final.   Process of the PEE Suition toget without midsh final.   Process of the Pee Suition toget without midsh final.   Process of the Pee Suition toget without midsh final.   Process of the Pee Suition toget without midsh final.   Process of the Pee Suition toget without midsh final.   Process of the Pee Suition toget without midsh final.   Process of the Pee Suition toget without midsh final.   Process of the Pee Suition toget without midsh final.   Process of the Pee Suition toget without midsh final.   Process of the Pee Suition toget with midsh final.   Proc	Move point to previous match	C-c C-r	(reb-prev-match)	Go to previous match in the RE Builder target window.
Copy Repulser Expressions  Propriets  Regular Expressions  Syntax  Country working:  Sequence of the control of	Move point to next match	C-c C-s	(reb-next-match)	Go to next match in the RE Builder target window.
The following rotes describe Emace regular expressions photo differ from other styles of regard and tools to by them out.  Syntax.  Regular expression syntax  * Designing of pline, strip, Differ	Force update	C-c C-u	(reb-force-update) Force an update in the RE Builder target window without a match limit.	
Regular expression syntax    Country synchor:   Segringing of [lims, strong, buffer]		C-c C-w	(reb-copy)	Copy current RE into the kill ring for later insertion.
Separating of (inc. stimp, buffer)		The following rows descr	ibe Emacs regular expressions (which differ	from other styles of regex) and tools to try them out.
The following do NOT work in Emacs, but there are alternatives, see above.  • \d : any digit : alternative: [[:digit:]]  • \D : any non digit character. Alternative: [^[:digit:]]		• ^ : beginning • \$ : end of {line • \ ' : beginning • \ ' : End of {str • \ b : word boun • \ w : any word of • \ w : any single • \ . : one period • ? : 0 or or 1 of • +? : match prev • * : group of 0 • +? : match prev • * : group of 1 • \ ' : beginning • \ ' : beginning • \ ' : end of wor • \ ' : beginning • \ ' : end of a sy • GNU extensions to reg • [ ] : any charac • Example: used: • ^ • [ : C • a • a • a • a • a • a • a • a • a • a	e, string, buffer} of {string, buffer} of {ary marker} ord character. Alternative: [[:word:]] ord character except newline  if the previous expression ions pattern 1 or more times, but with minimor more of the previous expression or more of the previous expression or more of the previous expression of word do for a symbol mbol ular expressions supported by Emacs incluster in range.  [a-z] means all lowercase characters (where it is complements the set (ie: means is character class C, where C can linum; any letter or digit lipha; any letter or digit lipha; any letter is any of the 127 ASCII characters light; any digit character is any digit character is any digit character; everything a ASCII and non-ASCII con ower: lower-case letters. If case-fold-second is any letter is more consistent in the context of	de \w, \W, \b, \B, \<, \>, \`, \` (start and end of buffer)  n case sensitive). Inside range the following characters or expressions can be that we want to match anything but what is in the set.  the any of:  g except whitespace, introl characters, surrogates and code points unassigned by Unicode. earch is non-nil it also matches upper-case letters.  the value of this variable.  b, carriage return, formfeed, backspace er- and lower-case letters, and digits.  are used in variable, function, command names.  one in Lisp. C has some.  only useful in lisp forms)  In that take and return strings, such as the following examples: apturing group 2  as number and format it as decimal with 2 decimal points.

## Variables controlling search aspects

Variable	Description	Note
case-fold-search	t: ignore case unless the user types in mixed or uppercase. nil: case sensitive: exact match.	Applies to all searches. To change: use pel-toggle-case-fold-search
case-replace	t: preserve case in replacements. nil: don't just case, replace with exact string identified.	Applies to all searches
NOTE =>		To set the variables, use: M-x set-variable
NOTE =>		To set defaults inside init.el, use: (setq-default VARIABLE VALUE)

## 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, lcicle, 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.
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.