


Search and Replace

	Description	Keystroke	Function	Note
<b>Control/Query how Search Operates</b>		Emacs searches are by default “case folding” and does “lax space matching”. searches where any case is matched unless the specified pattern contains at least one upper case letter. It also has different modes for words and symbols. The behaviour can be modified using some of the commands below.		
Show how search behaves in mini buffer	<f11> s m ?	(pel-show-search-case-state)	Describe the search case handling behaviour. <ul style="list-style-type: none"><li>The information is shown in the mini-buffer.</li></ul>	
Toggle case impact on search	<f11> s m u	(pel-toggle-search-upper-case)	Toggle case sensitivity behaviour of yank in search prompt. <ul style="list-style-type: none"><li>Rotates the value of search-upper-case to:<ul style="list-style-type: none"><li>nil: upper case don't force case sensitivity</li><li>t: upper case force case sensitivity</li><li>not-yanks : upper case force case sensitivity, and lower case text when yank in search minibuffer.</li></ul></li></ul>	
Toggle search case sensitivity	<f11> s m f	(pel-toggle-case-fold-search)	Toggle value of case-fold-search variable	
Toggle lax space searching	<f11> s m l	(isearch-toggle-lax-whitespace)	Toggle lax-whitespace searching on or off.	
<b>Notes on Search &amp; Replace</b>		 <b>New line in search and replace:</b> <ul style="list-style-type: none"><li>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.</li><li>In Emacs search and replace queries use <b>C-q C-j</b> to identify newline characters.</li></ul>		
<b>Incremental Search (ISearch)</b>		Start an incremental search with one of the following commands. Type text to search, <b>&lt;DEL&gt;</b> to remove chars. Other key-chords can be used during the 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 <b>C-s</b> , use <b>C-r</b> to go backward) <ul style="list-style-type: none"><li>Type <b>&lt;RET&gt;</b> 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 <b>C-a</b> which ends the search and moves point to the beginning of the line).</li><li>Abandon search (and return to where you started, type <b>&lt;ESC&gt;&lt;ESC&gt;&lt;ESC&gt;</b> or <b>C-g C-g</b>.</li></ul> On search exit, original point is added to <u>mark ring</u> , thus you can use <b>C-u C-SPC</b> or <b>C-x C-x</b> to return to the position before the search.		
<b><u>ISearch - forward</u></b> <ul style="list-style-type: none"><li>Incremental<ul style="list-style-type: none"><li>literal search</li><li>regexp search</li></ul></li></ul>	<ul style="list-style-type: none"><li><b>C-s</b></li><li> <b>%-f</b></li></ul>	(isearch-forward &optional REGEXP-P NO-RECURSIVE-EDIT)	Do incremental search forward: start or continue a search. <ul style="list-style-type: none"><li>With a prefix argument, do an <b>incremental regular expression search</b> instead, something like:<ul style="list-style-type: none"><li><b>C-u 1 C-s</b></li><li><b>M-- C-s</b></li><li>With PEL, <b>C-- C-s</b> works.</li><li>C-u C-s does <b>not</b> work to perform a regexp ISearch.<ul style="list-style-type: none"><li>➡ Instead you can also use <b>C-M-s</b> to perform the regexp incremental search forward.</li></ul></li></ul></li><li>To continue to next match during search: type <b>C-s</b> again (with prefix argument if that was used for regexp Isearch).</li><li>To change direction: type <b>C-r</b></li><li>To repeat last previously completed incremental search forward: <b>C-s C-s</b></li></ul>	
<b><u>ISearch - backward</u></b> <ul style="list-style-type: none"><li>Incremental<ul style="list-style-type: none"><li>literal search</li><li>regexp search</li></ul></li></ul>	<b>C-r</b>	(isearch-backward &optional REGEXP-P NO-RECURSIVE-EDIT)	Do incremental search backward: start or continue a search. <ul style="list-style-type: none"><li>With a prefix argument, do an <b>incremental regular expression search</b> instead; something like:<ul style="list-style-type: none"><li><b>C-u 1 C-r</b></li><li><b>M-- C-s</b></li><li>With PEL, <b>C-- C-r</b> works.</li><li>C-u C-r does <b>not</b> work to perform a regexp ISearch.<ul style="list-style-type: none"><li>➡ Instead you can also use <b>C-M-r</b> to perform the regexp incremental search forward.</li></ul></li></ul></li><li>To continue to next match during search: type <b>C-r</b> again (with prefix argument if that was used for regexp Isearch).</li><li>To change direction: type <b>C-s</b></li><li>To repeat last previously completed incremental search backward: <b>C-r C-r</b></li></ul>	
<b><u>ISearch - Regexp— forward</u></b> <ul style="list-style-type: none"><li>Incremental<ul style="list-style-type: none"><li>regexp search</li></ul></li></ul>	<b>C-M-s</b>	(isearch-forward-regexp &optional NOT-REGEXP NO-RECURSIVE-EDIT)	Incremental forward regular expression search. <ul style="list-style-type: none"><li>➡ Everything that can be done with <b>C-s</b> can also be done here. For example repeating the search can be done with <b>C-s</b>.</li></ul>	
<b><u>ISearch - Regexp - backward</u></b> <ul style="list-style-type: none"><li>Incremental<ul style="list-style-type: none"><li>regexp search</li></ul></li></ul>	<b>C-M-r</b>	(isearch-backward-regexp &optional NOT-REGEXP NO-RECURSIVE-EDIT)	Incremental backward regular expression search. <ul style="list-style-type: none"><li>➡ Everything that can be done with <b>C-r</b> can also be done here. For example repeating the search can be done with <b>C-r</b>.</li></ul>	
<b><u>ISearch symbol at point</u></b>	<b>M-s .</b>	(isearch-forward-symbol-at-point)	Perform a symbol search starting with current symbol at point. Use <b>C-s</b> and/or <b>C-r</b> to perform extra searches on the same symbol.	
<b><u>ISearch for symbol</u></b>	<b>M-s _</b>	(isearch-forward-symbol &optional NOT-SYMBOL NO-RECURSIVE-EDIT)	Prompt for symbol, perform <u>symbol search</u> . 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”.	
<b><u>ISearch for sequence of words</u></b>	<b>M-s w</b>	(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.	
<b>During ISearch</b>		Right after typing the incremental search command you can type the following characters to modify or repeat the search.		
<b>D U R</b>	<b><u>Change the search type to: simple search</u></b>	<b>&lt;RET&gt;</b>		Typing <b>&lt;RET&gt;</b> right after typing the command ( <b>C-s</b> , <b>C-r</b> , <b>C-M-s</b> or <b>C-M-r</b> ) and before typing the text to search for: <ul style="list-style-type: none"><li><b>C-s &lt;RET&gt;</b> or <b>C-r &lt;RET&gt;</b> perform a regular search instead of an iIsearch.</li><li><b>C-M-s &lt;RET&gt;</b> or <b>C-M-r &lt;RET&gt;</b> perform a regular regex search.</li></ul>
	<b><u>Add word at point to search string</u></b>	<b>C-w</b>	(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.
	<b><u>repeat search forward</u></b>	<ul style="list-style-type: none"><li><b>C-s</b></li><li> <b>%-g</b></li></ul>	(isearch-repeat-forward)	Repeat the current search, start searching again going forward
	<b><u>repeat search backward</u></b>	<ul style="list-style-type: none"><li><b>C-r</b></li><li> <b>%-d</b></li></ul>	(isearch-repeat-backward)	Repeat the current search, start searching again going backward
	<b><u>Select searched string</u></b>	While performing a search you can issue the following commands to modify the searched string text.		
	<b><u>History previous</u></b>	<b>M-p</b>	(isearch-ring-retreat)	Retrieve searched text from search history: get previous entry from history
	<b><u>History next</u></b>	<b>M-n</b>	(isearch-ring-advance)	Retrieve searched text from search history: get next entry from history
	<b><u>“tab” complete history in buffer</u></b>	<ul style="list-style-type: none"><li><b>C-M-i</b></li><li><b>M-&lt;TAB&gt;</b></li></ul>	(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.

	Description	Keystroke	Function	Note
I N G  I S E A R C H  C O M M A N D S	<u>Edit search string</u>	<b>M-e</b>	( <b>isearch-edit-string</b> )	Use this while performing a search and wanting to change the string being searched. <ul style="list-style-type: none"> <li>When <b>M-e</b> is typed during the search, the prompt goes back to the minibuffer allowing the editing of the searched string.</li> <li>Edit then search string in minibuffer.</li> <li>End editing with <b>&lt;RET&gt;</b>, <b>C-j</b>, <b>C-s</b> or <b>C-r</b></li> </ul>
	<u>Add rest of line at point to search string</u>	<b>M-s C-e</b>	( <b>isearch-yank-line</b> &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.
	<u>Add character at point to search string</u>	<b>C-M-y</b>	( <b>isearch-yank-char</b> &optional ARG)	Appends character at point to the search string. If numeric argument appends that many characters.
	<u>Yank from kill ring to search string</u>	<ul style="list-style-type: none"> <li><b>C-y</b></li> <li><b>⌘-e</b></li> </ul>	( <b>isearch-yank-kill</b> )	Pull string from kill ring into search string.
	<u>Replace just-yanked search string with previously killed string</u>	<b>M-y</b>	( <b>isearch-yank-pop</b> )	Replace just-yanked search string (via (search-yank-kill) with previously killed string.
	<u>Modify search method</u>	While performing a search the following commands modify the search method.		
	<u>Start query replace</u>	<b>M-%</b>	( <b>isearch-query-replace</b> &optional ARG REGEXP-FLAG)	Transforms the Search into a query replace, using the current string as the string to be replaced.
	<u>Start query replace regexp</u>	<b>C-M-%</b>	( <b>isearch-query-replace-regexp</b> &optional ARG)	Transforms the Search into a regex query replace, using the current string as the regex string to be replaced.
	<u>Enter occur search: list all occurrences</u>	<b>M-s o</b>	( <b>isearch-occur</b> REGEXP &optional NLINES)	Start an “occur” search with current search string. <ul style="list-style-type: none"> <li>See <b>“M-s o”</b> row above for more information.</li> </ul>
	<u>Modify search mode</u>	While performing a search the following commands modify the search modes.		
	<u>Toggle lax whitespace matching</u>	<b>M-s SPC</b>	( <b>isearch-toggle-lax-whitespace</b> )	Toggle <u>lax matching</u> during this search. Lax matching is on by default. <ul style="list-style-type: none"> <li>Any number of whitespace is accepted in the default lax matching. This can also be customized. When off: search exact string.</li> </ul>
	<u>Toggle case sensitivity</u>	<ul style="list-style-type: none"> <li><b>M-c</b></li> <li><b>M-s-c</b></li> </ul>	( <b>isearch-toggle-case-fold</b> )	Toggle search case sensitivity.
	<u>Toggle searching in invisible text</u>	<b>M-s i</b>	( <b>isearch-toggle-invisible</b> )	Toggle whether invisible text is searched. <ul style="list-style-type: none"> <li>Useful when editing outlined text.</li> </ul>
	<u>Toggle regular-expression searching</u>	<ul style="list-style-type: none"> <li><b>M-r</b></li> <li><b>M-s-r</b></li> </ul>	( <b>isearch-toggle-regexp</b> )	Toggle regexp searching on or off.
	<u>Toggles word mode</u>	<b>M-s w</b>	( <b>isearch-toggle-word</b> )	Toggle word searching on or off. <ul style="list-style-type: none"> <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>
	<u>Toggles symbol mode</u>	<b>M-s _</b>	( <b>isearch-toggle-symbol</b> )	Toggle <u>symbol search</u> mode. <ul style="list-style-type: none"> <li>Useful for searching code. For example: “data size” matches “data.size” as well as “data-&gt;size”, “data + size” and “data size”.</li> </ul>
	<u>Toggle character folding</u>	<b>M-s ’</b>	( <b>isearch-toggle-char-fold</b> )	Toggle char-fold searching on or off. <ul style="list-style-type: none"> <li>Turning on character-folding turns off regexp mode.</li> <li>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).</li> </ul>
	<u>Stop the search</u>	<b>&lt;RET&gt;</b> : Pick found text. Stop current search and leave cursor right after the found text. <b>C-g</b> : Aborts current search and return point to original location.		
<u>Occur Search</u>				
<u>List all matching occurrences of regexp in current buffer</u>		<b>M-s o</b>	( <b>occur</b> REGEXP &optional NLINES)	<ul style="list-style-type: none"> <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=<i>list-matching-lines-default-context-lines</i>.</li> <li>“M-s o” can be used during an incremental search.</li> <li><b>In *Occur* buffer:</b> <ul style="list-style-type: none"> <li><b>&lt;RET&gt;</b> visit corresponding position in the searched buffer</li> <li>“C-o” display the match in other window (but does not select it)</li> <li><b>&lt; , &gt; :</b> go to the beginning and end of the buffer</li> <li><b>g :</b> revert the buffer, refreshing the search results</li> <li><b>e :</b> buffer enters the <b>Occur Edit Mode</b> which allows edits in both buffers simultaneously via edits in the “Occur” buffer. <ul style="list-style-type: none"> <li>Exit Occur Edit Mode with: <ul style="list-style-type: none"> <li><b>“C-c C-c”</b> (which is: (<b>occur-cease-edit</b>))</li> </ul> </li> </ul> </li> <li>Navigate though occurrences (in original buffer): <ul style="list-style-type: none"> <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>
<u>Occur search in selected buffers</u>		<b>&lt;f11&gt; s o</b>	( <b>multi-occur-in-matching-buffers</b> BUFREGEXP REGEXP &optional ALLBUFS)	For example to occur search in all .py files, select the buffers with <b>“\.py\$”</b> (without the quotes).
<u>Occur search in selected files</u>		<b>&lt;f11&gt; s o</b>	( <b>multi-occur</b> BUFS REGEXP &optional NLINES)	
<u>During Occur Search</u>				
	<u>occur - next occurrence</u>	<ul style="list-style-type: none"> <li><b>C-x `</b></li> <li><b>M-g n</b></li> <li><b>M-g M-n</b></li> </ul>	( <b>next-error</b> &optional ARG RESET)	A prefix ARG specifies how many error messages to move; <ul style="list-style-type: none"> <li>negative means move back to previous error messages.</li> <li>Just <b>C-u</b> as a prefix means repars the error message buffer and start at the first error.</li> </ul>
	<u>occur - previous occurrence</u>	<ul style="list-style-type: none"> <li><b>M-g p</b></li> <li><b>M-g M-p</b></li> </ul>	( <b>previous-error</b> &optional N)	Prefix arg N says how many error messages to move backwards (or forwards, if negative).
	<u>Exit occur mode</u>	<b>C-c C-c</b>	( <b>occur-cease-edit</b> )	Exit the occur-edit mode. See <b>“M-s o”</b> note above.
<u>Unconditional Replace</u>		Simple text replacement command.		
<u>Unconditional replace</u>		<b>&lt;f11&gt; s r</b>	( <b>replace-string</b> 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
<u>Unconditional regex replace</u>		<b>&lt;f11&gt; s x r</b>	( <b>replace-regexp</b> REGEXP TO-STRING &optional DELIMITED START END BACKWARD)	Replace every match for regex with new string.
<u>Query Replace</u>		Query replacement prompts. The following 2 commands are query replace. The answers to prompts are listed after the 2 commands.		
<u>Query Replace</u>		<b>M-%</b>	( <b>query-replace</b> 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.

	Description	Keystroke	Function	Note
	<b>Query Replace Regexp</b>	<ul style="list-style-type: none"> <li>• <b>C-M-%</b></li> <li>• <b>&lt;f11&gt; s x q</b></li> </ul>	( <b>query-replace-regexp</b> REGEXP TO-STRING &optional DELIMITED START END BACKWARD REGION-NONCONTIGUOUS-P)	Replace <i>some</i> occurrences of a regex match with a specified string. <ul style="list-style-type: none"> <li>• A negative argument replaces backwards.</li> <li>• <b>C-% is not an ASCII control character, so C-M-% does not work in Terminal mode.</b></li> </ul>
	<b>QR Response : keys to use during a query replacement to identify actions</b>	<ul style="list-style-type: none"> <li>• y or SPC : replace</li> <li>• n or &lt;DEL&gt; : 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>• q or &lt;RET&gt; : 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-] : 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>		
	<b>Regular Expressions</b>	The following rows describe Emacs regular expressions (which differ from other styles of regex) and tools to try them out.		
	<b>Build regular expression interactively</b>	<b>&lt;f11&gt; s x b</b>	(re-builder)	Construct a regexp interactively. <ul style="list-style-type: none"> <li>• This command makes the current buffer the "target" buffer of the regexp builder. It displays a buffer named <b>"RE-Builder"</b> in another window, initially containing an empty regexp.</li> <li>• As you edit the regexp in the <b>"RE-Builder"</b> buffer, the matching parts of the target buffer will be highlighted.</li> </ul>
	<b>Regular expression syntax</b>	Boundary anchors: <ul style="list-style-type: none"> <li>• ^ : beginning of {line, string, buffer}</li> <li>• \$ : end of {line, string, buffer}</li> <li>• \^ : beginning of {string, buffer}</li> <li>• \' : End of {string, buffer}</li> <li>• \b : word boundary marker</li> <li>• \w : any word character. Alternative: <b>[[:word:]]</b></li> <li>• \W : any non-word character. Alternative: <b>[^[:word:]]</b></li> </ul> <ul style="list-style-type: none"> <li>• . : any single character except newline</li> <li>• \. : one period</li> <li>• ? : 0 or 1 of the previous expression</li> <li>• +? : match previous pattern 1 or more times, but with minimal match (non-greedy)</li> <li>• * : group of 0 or more of the previous expression</li> <li>• + : group of 1 or more of the previous expression</li> <li>• \&lt; : beginning of word</li> <li>• \&gt; : end of word</li> <li>• \_&lt; : beginning of a symbol</li> <li>• \_&gt; : end of a symbol</li> <li>• GNU extensions to regular expressions supported by Emacs include \w, \W, \b, \B, \&lt;, \&gt;, \', \' (start and end of buffer)</li> <li>• [ ] : any character in range.               <p>Example: [a-z] means all lowercase characters (when case sensitive). Inside range the following characters or expressions can be used:</p> <ul style="list-style-type: none"> <li>• ^ : complements the set (ie: means that we want to match anything but what is in the set.</li> <li>• [ : <b>C</b> ] : <b>character class C</b>, where <b>C</b> can be any of:                   <ul style="list-style-type: none"> <li>• alnum : any letter or digit</li> <li>• alpha : any letter</li> <li>• ascii : any of the 127 ASCII characters</li> <li>• blank : horizontal whitespace</li> <li>• cntrl : any ASCII control character</li> <li>• digit : any digit character</li> <li>• graph : any graphic character; everything except whitespace, ASCII and non-ASCII control characters, surrogates and code points unassigned by Unicode.</li> <li>• lower : lower-case letters. If case-fold-search is non-nil it also matches upper-case letters. Use <b>&lt;f11&gt; s m f</b> to toggle the value of this variable.</li> <li>• multibyte</li> <li>• nonascii</li> <li>• print</li> <li>• punct</li> <li>• space</li> <li>• unibyte</li> <li>• upper</li> <li>• word</li> <li>• xdigit</li> </ul> </li> </ul> </li> </ul> <ul style="list-style-type: none"> <li>• \s<b>C</b> : Match any character whose syntax table code is <b>C</b>.</li> <li>• \S<b>C</b> : Match any character whose syntax table code is not <b>C</b>.               <p>The <b>syntax table</b> code <b>C</b> cab be one of:</p> <ul style="list-style-type: none"> <li>• SPC or - : any whitespace : space, newline, tab, carriage return, formfeed, backspace</li> <li>• w : word constituents: normally all upper- and lower-case letters, and digits.</li> <li>• _ : symbol constituents: extra characters used in variable, function, command names.</li> <li>• . : punctuation characters. There is none in Lisp. C has some.</li> <li>• ( : open parenthesis. Support '(', '{', '['</li> <li>• ) : close parenthesis. Support ')', '}', ']'</li> <li>• " : string quotes</li> <li>• \ : escape-syntax characters</li> <li>• / : character quotes</li> <li>• &lt; : comment starters</li> <li>• &gt; : comment enders</li> <li>• ! : generic comment delimiters</li> <li>•   : generic string delimiters</li> </ul> </li> </ul> <ul style="list-style-type: none"> <li>• \  : Alternative</li> <li>• \( , \) : Capturing group</li> <li>• \{ , \} : Repetition</li> <li>• \1 to \9 : Insert text from group N</li> <li>• \#1 to \#9 : Insert text from group \N but cast as an integer (only useful in lisp forms)</li> <li>• \? : prompt for user input</li> <li>• \# : inserts a number incremented from 0</li> <li>• \&amp; : insert whole match string</li> <li>• \, (form ...) : uses an elisp form with arguments. Use elisp form that take and return strings, such as the following examples:               <ul style="list-style-type: none"> <li>• \,(upcase \2) : uppercase capturing group 2</li> <li>• \,(format "% .2f" \#3) : Cast group 3 as number and format it as decimal with 2 decimal points.</li> </ul> </li> </ul> The following do NOT work in Emacs, but there are alternatives, see above. <ul style="list-style-type: none"> <li>• \d : any digit : alternative: <b>[[:digit:]]</b></li> <li>• \D : any non digit character. Alternative: <b>[^[:digit:]]</b></li> </ul>		

	Description	Keystroke	Function	Note
<b>Word Search</b>		Two of the following commands begin with at the iterative word search key-chord, followed by <RET>. Emacs has no binding for the word lax search.		
<b>Search word forward</b>		<b>M-s w &lt;RET&gt;</b>	(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.
<b>Search word forward lax</b>		<b>&lt;f11&gt; s l w</b>	(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)
<b>Search word backward</b>		<b>M-s w C-r &lt;RET&gt;</b>	(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.
<b>Search word backward lax</b>		<b>&lt;f11&gt; s l W</b>	(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)

### 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 <b>pel-toggle-case-fold-search</b>
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
<b>GNU Emacs - Searching and Replacement</b>	GNU Emacs manual section describing search & replace features.
<b><u>Search - Incremental Search - Emacs Wiki</u></b>	Large list of commands and key bindings. Also contains links to several other pages describing search modes, Icicle, etc..
<b>Replace - GNU Emacs Manual - Replacement Commands</b>	
<b>Replace - ErgoEmacs - Emacs: Find and Replace Commands</b>	Quick view of what's available by default.
<b><u>Replace - How do I “M-x replace-string” across all buffers in emacs?</u></b>	Some info here using ICycle.
<b>Searching in directory tree</b>	
<b><u>Is there a way to use query-replace from grep/ack/ag output modes?</u></b>	This page describes several packages and functions to perform directory tree searches.
<b>Regular Expressions &amp; re-builder</b>	
<b><u>re-builder.el</u></b>	
<b><u>Re Builder @ Emacs Wiki</u></b>	
<b><u>Why do regular expressions created with the regex builder use syntax different from the interactive regular expressions?</u></b>	
<b><u>re-builder: the Interactive regexp builder</u></b>	
<b>Search at Point</b>	
<b><u>“super star” or find the word under the cursor equivalent in emacs</u></b>	Search at point with “M-s .”
<b><u>Thing at point @ Emacs Wiki</u></b>	Describes functions to retrieve text elements at point