Search and Replace

Description	Keystroke	Function	Note
Control/Query how Search Operates	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 ?</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.
Swiper search	<f11> s s</f11>	(swiper &optional INITIAL-INPUT)	Perform an interactive search forward, with an overview: listing several matches in an overview window. Space character match any string. • When non-nil, INITIAL-INPUT is the initial search pattern
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	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 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'. • Lax Search 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'. • <u>A Lax Search</u> 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	A word search finds a sequence of words without regard for the type of punctuation between them. The word search commands do not perform character folding and toggling lax whitespace matching have no effect on them. However there are "lax" word searches that succeed on incomplete words, they are listed below.		g 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)	Start an incremental search with one of the following commands. Type text to search, <pre>Start an incremental search with one of the following commands.</pre> Type text to search, <pre>Start an incremental search with one of the following commands.</pre> Type text to search, <pre>Start an incremental search with one of the following commands.</pre> Type text to search and continue searching. Or repeat key-chord to repeat last search for same text. To reverse search direction, use the other key-chord (for example: if searching with C-s, use C-r to go backward) Type Text to stop search and leave cursor at found position if next command is to insert a character. Other editing key-chords also stop the search but also perform the requested operation (like C-a which ends the search and moves point to the beginning of the line). Abandon search (and return to where you started, type Text Text or C-g C-g. On search exit, original point is added to mark ring, thus you can use C-u C-SPC or C-x C-x to return to the position before the search.		
ISearch - forward	• C-s	(isearch-forward &optional REGEXP-P NO-	Do incremental search forward: start or continue a search.
Incremental Iteral search regexp search	• %-f	RECURSIVE-EDIT)	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 Search. 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 Search). To change direction: type C-r To repeat last previously completed incremental search forward: C-s

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Toggle regular-expression M−r (isearch-toggle-regexp) Toggle regexp searching on or off.		M-s i	(isearch-toggle-invible)	
		• M-r	(isearch-toggle-regexp)	

-		Note
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.
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".
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).
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 "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"
<f11> s 0</f11>	(multi-occur-in-matching-buffers	For example to occur search in all .py files, select the buffers with "\.py\$" (without the quotes).
<f11> s o</f11>		(without the quotes).
1227 8 0	(mail cook per children)	
A C-v `	(next-error &ontional ARG RESET)	A prefix ARG specifies how many error messages to move;
• M-g n • M-g M-n	(Hexterior applicital And ALSET)	 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.
• 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).
C-c C-c	(occur-cease-edit)	Exit the occur-edit mode. See "M-s o" note above.
Simple text replacement of	command.	
<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
<f11> s x r</f11>	(replace-regexp REGEXP TO-STRING Replace every match for regex with new string. &optional DELIMITED START END BACKWARD)	
Query replacement promp	ots. The following 2 commands are query replace.	The answers to prompts are listed after the 2 commands.
M-%	(query-replace FROM-STRING TO-STRING & optional DELIMITED START END BACKWARD REGION-NONCONTIGUOUS-P) Replace some occurrences of a string with another, both specified by user. A negative argument replaces backwards.	
• 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.
replace replace, move to next replace & let me see result before moving on — Press SPC to move on. replace & let me see result before moving on — Press SPC to move on. replace & let me see result before moving on — Press SPC to move on. replace all the rest and don't ask back up to the previous instance u undo last replacement undo last replacement undo ALL replacements or q or q or E modify the replacement string C-r enter recursive edit - Exit the recursive edit with one of: C-M-c or C-] C-W-c delete this instance and enter recursive edit — to make a custom replacement C-M-c exit recursive edit and resume query-replace C-J Exit recursive edit and exit query-replace 2 get help Y replace all strings in all buffer, no questions. — Multi-buffer QR Response N : skip to next buffer without replacing remaining matches in current buffer — Multi buffer QR Response.		
	M-s _	M-S w (isearch-toggle-word)

Description	Keystroke	Function	Note
Regular Expressions	The following rows descri	be Emacs regular expressions (which differ from o	other styles of regex) and tools to try them out.
Build regular expression interactively with re-builder This is a great way to learn	<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.
Emacs regexp!			 re-builder supports different styles of regular expressions, selected by the value of the reb-re-syntax user option. The possible values are: read: the default. Similar to string but requires double escaping of backslashes - similar to how it must be done in Elisp source code. For example: "\((red\)\(read\)\(read\)\(read\)\(read\) string: Similar to read but no double backslashes are needed. Example: "\((red\)\(read\)\(read\)\(read\) rx: A more advanced, s-expression regexp engine, used if you want lisp-style regexp engine. To change reb-re-syntax, do: M-x customize-option reb-re-syntax
Regular expression syntax	Boundary anchors:		PEL also provides the binding: <f11> s x ?</f11>
Regular expression syntax	\$: end of {line \` : beginning of \' : End of {stri \b : word bound \b : word bound \b : any word of \b : any single \b : any condition of \b : any condition of \b : and of word \b : beginning of \b : beginning of \b : beginning of \b : beginning of \b : and of a sy \b : and of a sy	dary marker haracter. Alternative: [[:word:]] brd character. Alternative: [n]:word:]] character except newline the previous expression fous pattern 1 or more times, but with minimal mayor more of the previous expression or more of the previous expression of word d f f f a symbol mbol ular expressions supported by Emacs include \w, \w, \widthered{t} ter in range. [a-z] means all lowercase characters (when case is complements the set (ie: means that we c: : character class C, where C can be any linum : any letter or digit lipha : any letter scii : any of the 127 ASCII characters lank : horizontal whitespace ntr1 : any ASCII control character igit : any digit character raph : any graphic character; everything excep ASCII and non-ASCII control of ower : lower-case letters. If case-fold-search is Use <f11> s m f to toggle the volution ord digit character whose syntax table code is C. character whose syntax table code is not C. table code C cab be one of: r - : any whitespace : space, newline, tab, carr : word constituents: normally all upper- and : symbol constituents: extra characters use : punctuation characters. There is none in I : open parenthesis. Support '(', '\f', '\f') : close parenthesis. Support '(', '\f', '\f') : string quotes : escape-syntax characters : character quotes : comment starters : comment starters : comment enders : generic comment delimiters attive uring group</f11>	NW, \b, \B, \<, \>, \', \' (start and end of buffer) sensitive). Inside range the following characters or expressions can be e want to match anything but what is in the set. y of: pt whitespace, naracters, surrogates and code points unassigned by Unicode. s non-nil it also matches upper-case letters. value of this variable. riage return, formfeed, backspace llower-case letters, and digits. d in variable, function, command names. Lisp. C has some.
	• \& :insert • (form) :uses	whole match string an elisp form with arguments. Use elisp form that t , (upcase \2) : uppercase capturin	take and return strings, such as the following examples: ng group 2 mber and format it as decimal with 2 decimal points.
	• \d : any digit : a	rk in Emacs, but there are alternatives, see above. Iternative: [[:digit:]] t character. Alternative: [^[:digit:]]	

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.
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.
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	
<u>re-builder.el</u>	
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