## **Buffers**

Operation	Keystroke	Function	Notes
Manage Buffers	The following commands support buffer management. The <f11> <f1> b key opens the buffer management customization (see <u>\( \) Customize</u> ).</f1></f11>		
Open Buffer Menu	<c-f10></c-f10>	(buffer-menu-open)	Start key navigation of the buffer menu. This is the keyboard interface to <c-down-mouse-1></c-down-mouse-1>
Toggle read-only status of buffer	• C-x C-q • <f11> b r</f11>	(read-only-mode &optional ARG)	When the buffer is in read-only mode the mode line shows '%%' on the left side, in the 'ch' area of "cs:ch-fr buf pos line (major minor)".  The manual states: "For a read-only buffer, it shows '%*' if the buffer is modified, and '%%' otherwise."  See also: the View Mode activating commands toward the end of this table.  A buffer in View Mode cannot be modified.  The View Mode may be used to ensure that no modifications are made to a buffer (visiting a file or not).
Switch to next buffer	• C-x <right> • C-x C-<right> • <f11> b n</f11></right></right>	(next-buffer)	Switch to the next buffer displayed in the current window.
Switch to previous buffer	• C-x <left> • C-x C-<left> • <f11> b p</f11></left></left>	(previous-buffer)	Switch to the previous buffer displayed in the current window.
Show name of previous buffer in window	<f11> b P</f11>	(pel-show-window-previous-buffer)	Show the name of previous buffer used in the current window.
Switch to previous buffer in window	<f11> b l</f11>	(pel-switch-to-last-used – buffer)	Switch buffer in current window to the buffer previously seen in this window. Used twice returns to the same buffer.
Switch to buffer	С-ж в	(switch-to-buffer BUFFER-OR-NAME &optional NORECORD FORCE-SAME- WINDOW)	Switch window to display the previous, or another buffer (entered at prompt).  Switch window to display the previous, or another buffer (entered at prompt).  The invisible buffers have a name that start with a space. To see them type space and tab and a list of those buffers will appear before the list of visible buffers.
List all buffers	С-х С-ь	(list-buffers & optional ARG)     (ibuffer & optional OTHER-WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS)	Display a list of existing buffers in a buffer named "*Buffer List*", the buffer displays information about all buffers and enters the <i>Buffer Menu Mode</i> . See the keystrokes for the Buffer Menu Mode below.  The PEL package the 'ibuffer' function instead, which provides more functionality, working like dired.
Clone buffer	<f11> b c</f11>	(clone-buffer &optional NEWNAME DISPLAY-FLAG)	Create and return a twin copy of the current buffer.  Unlike an indirect buffer, the new buffer can be edited independently of the old one (if it is not read-only). NEWNAME is the name of the new buffer. It may be modified by adding or incrementing <n> at the end as necessary to create a unique buffer name.  For example if buffer *Help* is opened it opens another one named *Help*&lt;2&gt; (or</n>
Toggle buffer between normal and hex display	<f11> b x</f11>	(nhexl-mode &optional ARG)	*Help*<3> if *Help*<2> already exists, etc)  Toggle minor mode to edit files via hex-dump format.  Requires the <a href="mailto:nhexl-mode">nhexl-mode</a> package 2 activated when <a href="mailto:pel-use-nhexl">pel-use-nhexl</a> user option is t.
Activate Hex nibble editing mode	<f11> b X</f11>	(nhexl-nibble-edit-mode &optional ARG)	Minor mode to edit the hex nibbles in 'nhexl-mode'.  Anote: only works after nhexl-mode has been activated once.  Requires the <a href="mailto:nhexl-mode">nhexl-mode</a> activated when <a href="mailto:pel-use-nhexl">pel-use-nhexl</a> user option is t.
Rename a buffer	<f11> b R</f11>	(rename-buffer NEWNAME &optional UNIQUE)	If UNIQUE argument is non-nil via C-u M-x rename-buffer, the name is auto generated to be unique.
Rename buffer - use unique name	<f11> b U</f11>	(rename-uniquely)	Rename the current buffer by adding ' <number>' to the end. Use this if you want multiple *Buffer* or *Info* buffers for example.</number>
Kill current buffer	• <f11> b k •</f11>	(kill-current-buffer)	Example: StackExchange: How can I have multiple help buffer with different content  Kill (close) the current buffer. Does not prompt if there is no change in the buffer.
Kill buffer	C-x k	(kill-buffer &optional BUFFER-OR-NAME)	Kill (close) the current buffer.  • Always prompt to identify a buffer, current is identified. Press enter to kill the buffer.
Kill some buffer		(kill-some-buffers &optional LIST)	Kill some buffers. Asks the user whether to kill each one of them.
Delete all windows of a specific buffer		(delete-windows-on &optional BUFFER-OR-NAME FRAME)	Deletes all windows showing BUFFER-OR-NAME, by calling 'delete-window' on those windows.
<b>Accumulating Text</b>	Emacs provides the fol	lowing commands to insert text in buffer fro	om various sources.
Append region to specified buffer	<f11> b M-a</f11>	(append-to-buffer BUFFER START END)	Append to specified BUFFER the text of the region.  The text is inserted into that buffer before its point.  BUFFER can be a buffer or the name of a buffer; this function will create BUFFER if it doesn't already exist.
Prepend region to specified buffer	<f11> b M-p</f11>	(prepend-to-buffer BUFFER START END)	Prepend to specified BUFFER the text of the region.  The text is inserted into that buffer after its point.  BUFFER can be a buffer or the name of a buffer; this function will create BUFFER if it doesn't already exist.
Copy region to specified buffer (replacing old content)	<f11> b C-c</f11>	(copy-to-buffer BUFFER START END)	Copy to specified BUFFER the text of the region.  The text is inserted into that buffer, replacing existing text there.  BUFFER can be a buffer or the name of a buffer; this function will create BUFFER if it doesn't already exist.
Insert content of specified buffer at point	<f11> b i</f11>	(insert-buffer BUFFER)	Insert after point the contents of BUFFER.  Puts mark after the inserted text.  BUFFER may be a buffer or a buffer name.
Append region's text to specified file	<f11> b f</f11>	(append-to-file START END FILENAME)	Append the contents of the region to the end of file FILENAME.  • This does character code conversion and applies annotations like 'write-region' does.
Indirect Buffers	ways it is a buffer analogous The section also states	ogue of a symbolic link between files."	shares the text of some other buffer, called the base buffer of the indirect buffer. In some splay multiple views of an outline" (such as Org-Mode files).
Create indirect buffer explicitly	<f11> b I m</f11>	(make-indirect-buffer BASE-BUFFER NAME &optional CLONE)	Create and return an indirect buffer for buffer BASE-BUFFER, named NAME.  BASE-BUFFER should be a live buffer, or the name of an existing buffer.  NAME should be a string which is not the name of an existing buffer.  Optional argument CLONE non-nil means preserve BASE-BUFFER's state, such as major and minor modes, in the indirect buffer.  CLONE nil means the indirect buffer's state is reset to default values.

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Create indirect buffer of current buffer	<f11> b I c</f11>	(clone-indirect-buffer NEWNAME DISPLAY-FLAG &optional NORECORD)	Create an indirect buffer that is a twin copy of the current buffer.  • Give the indirect buffer name NEWNAME. Interactively, read NEWNAME from the minibuffer when invoked with a prefix arg. If NEWNAME is nil or if not called with a prefix arg, NEWNAME defaults to the current buffer's name. The name is modified by adding a ' <n>' suffix to it or by incrementing the N in an existing suffix. Trying to clone a buffer whose major mode symbol has a non-nil 'no-clone-indirect' property results in an error.  • DISPLAY-FLAG non-nil means show the new buffer with 'pop-to-buffer'. This is always done when called interactively.  • Optional third arg NORECORD non-nil means do not put this buffer at the front of the list of recently selected ones.</n>		
Create indirect buffer of current buffer in another window	• C-x 4 c • <f11> b I w</f11>	(clone-indirect-buffer-other-window NEWNAME DISPLAY-FLAG &optional NORECORD)	Like 'clone-indirect-buffer' but display in another window.		
Buffer View Mode	Several commands (view-buffer, etc, see at top of this table) activate the View Mode for a buffer where the buffer is essentially read-only and special commands are available.				
View buffer - no modification allowed	<f11> b v</f11>	(view-buffer BUFFER &optional EXIT-ACTION)	View BUFFER in View mode, returning to previous buffer when done.  • Emacs commands editing the buffer contents are not available; instead, a special set of commands (mostly letters and punctuation) are defined for moving around in the buffer.  • Space scrolls forward, Delete scrolls backward.  • For a list of all View commands, type H or h while viewing. See the View Mode command list below.		
View Mode commands	For a list of all View commands, type H or h while viewing. See the View Mode				
Buffer Menu Mode	other-window, or M-x view-file-other-frame, then c, q and C will return to that buffer.  The list of buffers is shown inside its own buffer, *Buffer List* when (list-buffer) is executed. This buffer support the following commands.				
	► The full list of key bindings is available via the <f1> m key.  Note that PEL uses (ibuffer) for the C-x C-b key binding, so the list of commands and key bindings that are available differ.</f1>				
Buffer Menu Mode keys	• ? : Get help • g : Update	buffer list	: Immediately : immediately		
Complete the list	C-n : next buffer     n : next buffer     n : next buffer     C-p : previous     p : previous     d : mark bu     k : mark bu     k : mark bu     s : save buf <del> : Move to     M -<del> : Remove     u : unmark     x : execute     - : mark bu     \$ : toggle re     1 : display 6     2 : Display 6     0 : replace 6     m : mark bu</del></del>	fer in list in list fer in list buffer in list buffer in list buffer in list ffer for deletion ffer for deletion ffer for deletion ffer for deletion ffer previous line, remove all marks on buffer a specific mark from all buffers all marks on buffer marked commands (delete buffers marked ffer as un-modifiable ead-only emacs in full emacs screen this buffer & next in horizontal window other (next) window with this buffer ffer to be displayed in windows buffers marked with in as many windows as	: immediately : immediately : immediately : immediately : immediately : immediately : deleted when pressing x : deleted when pressing x : deleted when pressing x : saved when pressing x : immediately if just after marking : immediately if just after marking : immediately immediately : when pressing v		

Operation	Keystroke	Function	Notes		
IBuffer Mode command (1)	'H' - View the marked 'V' - Revert the marked 'V' - Roygle read-only s 'L' - Toggle lock state s 'D' - Kill the marked bu 'M-s a C-s' - Do increr 'M-s a C-M-s' - Isearc 'r' - Replace by regex; 'Q' - Query replace in s 'I' - As above, with a re 'P' - Print the marked I 'O' - List lines in all ma 'X' - Pipe the contents 'N' - Replace the conte '!' - Run a shell comma 'E' - Evaluate a form in using (read-only-mode 'W' - As above, but vie	puffers in the selected frame. buffers in another frame. d buffers. d buffers. state of marked buffers. of marked buffers. uffers. nental search in the marked buffers. in for regexp in the marked buffers. of in each of the marked buffers. each of the marked buffers. each of the marked buffers. outfers. uffers which match a given regexp (I of the marked buffers with the output of the marked buffers with the output of the marked buffers. This is a very and with the buffer's file as an argument. each of the marked buffers. This is a very and with the buffer while the form is evaluated. ed lines from the *Ibuffer* buffer, but don't I of the form is evaluated.	of a shell command.  flexible command. For example, if you want to make all of the marked buffers read-only, try		
Buffer Mode command (2)	** c' - Change the marl *u' - Unmark the buffer *DEL' - Unmark the pre *M-DEL' - Unmark buffer *U' - Unmark all marke ** M' - Mark buffers by ** u' - Mark all "unsave ** m' - Mark all buffers ** s' - Mark all buffers ** e' - Mark all buffers ** r' - Mark all buffers of ** r' - Mark buffers in ' ** h' - Mark buffers in ' ** - Mark buffers older 'd' - Mark buffers buffer all ** m' - Mark buffers b ** f' - Mark buffers b	ly marked buffers, and mark all unmarked is used on marked buffers. If at point. If a topint. If	odified, and has an associated file. an associated file.		
Buffer Mode command (3)	'/ RET' - Add a filter by a '/ m' - Add a filter by a '/ m' - Add a filter by bu '/ c' - Add a filter by bu '/ c' - Add a filter by bu '/ b' - Add a filter by bu '/ b' - Add a filter by file '/ '- Add a filter by file '/ '- Add a filter by file '/ '- Add a filter by mo '/ e' - Add a filter by bu '/ '- Add a filter by bu '	major mode now in use. erived mode. uffer name. uffer content. asename. rectory' - Add a filter by directory name. extension. odified buffers. a arbitrary Lisp predicate. uffer size. uffer size. ecial buffers. filters with a name. lisly saved filters. to current filters. two filters with their logical AND. wo filters with thoj filter. sense of the top filter. topmost filter.	chosen by completion.		
IBuffer Mode command (4)	Filter group comman '/ g' - Create filter grou '/ P' - Remove top filte 'TAB' - Move to the ne 'M-p' - Move to the pr '/ \' - Remove all active '/ S' - Save the current '/ R' - Restore previous '/ X' - Delete previous	ds: p from filters. r group. xt filter group. evious filter group. e filter groups. groups with a name. sly saved groups.			
IBuffer Mode command (5)	Sorting commands:  ',' - Rotate between the various sorting modes.  's i' - Reverse the current sorting order.  's a' - Sort the buffers lexicographically.  's f' - Sort the buffers by the file name.  's v' - Sort the buffers by last viewing time.  's s' - Sort the buffers by size.  's m' - Sort the buffers by major mode.				
IBuffer Mode command (6)	Other commands:  'g' - Regenerate the list of all buffers. Prefix arg means to toggle whether buffers that match 'ibuffer-maybe-show-predicates' should be displayed.  '' - Change the current display format.  'SPC' - Move point to the next line.  'C-p' - Move point to the previous line.  'h' - This help.  '=' - View the differences between this buffer and its associated file.  'RET' - View the buffer on this line.  'o' - As above, but in another window.  'C-o' - As both above, but don't select the new window.  'b' - Bury (not kill!) the buffer on this line.				