Windows - Managing and Moving To Other Windows

Operation		Function	a Moving to Other Windows		
Operation Window	Keystroke Emacs basic window man		Note -x o, C-x 0, C-x 1, C-x 2 and C-x 3 with some derivatives and support for multiple		
Operations See also:	frames. These basic facilities can be extended by several built-in and external packages: • windmove, built-in, activated by PEL, but not using the standard wind move key bindings (which use Shift with cursors) to preserve ability to shift-mark when moving across text with cursor.				
See also:	 winner, also built-in, which provides the ability to restore previous window pane layouts. PEL activates it when pel-use-winner user option is t. ace-window, an external package, which extends the C-x o command by displaying Ace target in the windows' upper left corner to quickly select the target window to move to and possibly operate on. key-chord, an external package, that PEL use (when pel-use-key-chord user option is t) to activate dual-key chords to move across windows. Windows can be dedicated to specific buffers, for example by Speedbar (see Speedbar). Several windows with the same buffers can operate as a single flow with follow mode. 				
	On macOS, in graph On Windows, the Me In graphics mode, m They can also be en	dings under the <f11> key prefix. The nics mode only, the % key is mapped enu key is mapped to the hyper key. nouse operations are available. abled in terminal mode, with the xtern</f11>	ese are available in both graphics and terminal modes. to the super prefix key (s-). Below the � icon is used to represent the Menu key under Windows. m-mouse-mode enabled. With PEL, use <f11><f12> to toggle the xterm-mouse-mode. ames, whether Emacs is running in graphics mode or in terminal mode.</f12></f11>		
Open this PDF file. See also: <u>Nelp/</u> Info	<f11> w <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the local copy of the <u>Number Windows</u> PDF file unless a command prefix (like C-u) was used. In that case it opens the Github-hosted file instead.		
<u>∑ Customize</u> PEL window control	<f11> w <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL Window support. • If OTHER-WINDOW is non-nil (use C-u), display in other window.		
∑ Customize Emacs window control	<f11> w <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs Window support groups: windows, ace-window, ace-window-display, winner, windmove.		
PEL Window Management Hydra	Hydra set of keys to helpTo start this Hydra, hit the	speed up navigation and managemer <f7> key, then hit one of the follow EL window hydra are all identified below.</f7>	otion pel-use-hydra set to t , PEL activates the hydra external package and also creates a not of windows. These keys are identified in the table below. Ving keys once or several times. Ow with a f7> prefix, but after typing f7> once, you can hit several other window hydra keys		
	have the Hydra hint off wh To cancel the Hydra hit th The name of the PEL wind command function listed in the second command c	nen the Hydra activates set the hydra- e <f7> key again or use a command dow hydra commands are not listed b in the Function column. For example nanagement hydra hint menu that sho m buffers that can be dismissed like t e in the current window. All (4,0) (Lisp Interaction Split Split Split c-</f7>	: below		
	Showing Hydra Hint The ace-window bound to	o C-x o key provides a partially over	rlapping feature set but they differ in their key assignments. See below.		
Move point to other window - C-u: swap - C-u C-u: delete	С-х о	(other-window COUNT &optional ALL-FRAMES)	Select (move point) to other window. Select another window in cyclic ordering of windows. With prefix argument consider all frames. This is Emacs default behaviour for this key. And PEL's default: pel-use-ace-window = nil. Change it to activate the functionality described in next row.		
Move to other window Move to specified window Ace target Operate on specified window See also: ∑ Customize Customize		(ace-window ARG)	Move to (and possibly operate on) window selected by an Ace target code. Requires the <u>ace-window</u> external package. PEL downloads, installs and activates it when the <u>pel-use-ace-window</u> user option is set to t. Demo: C'est la Z, video 5		
		 With only 2 windows, move to the other window. With 3 windows or more: display an Ace target in the windows' upper left corner: it identifies the window target. Type this number to move to the window, or Type one of the following letters, followed by the target number to move to the target window and operate on it: x - delete window m - swap windows M - move window c - copy window j - select buffer n - select the previous window u - select buffer in the other window c - split window fairly, either vertically or horizontally v - split window vertically 			
		 In graphics mode the other En In text terminal mode, other Endisplayed. An argument can be used to per 	ndow d bindings s in other frames (both in graphics and terminal mode) nacs frames are in other OS window. macs frames are hidden (as they occupy the exact same OS window): just one Emacs frame is form more operations:		
		when current frame has 1 or 2 • Prefixed with one C-u , does a to current window (and curren prompt when there are only 2	a swap between the selected window and the current window, so that the selected buffer moves to buffer moves to selected window). The PEL $<$ f11> w x key does the same (but does not		
Move point to next window can specify all frames	<f11> w o</f11>	(pel-other-window &optional ALL-FRAMES)	Move to other window, like the original other-window. With any prefix argument consider all frames. Without argument move only within current frame. Useful when 'other-window' has been remapped to something like 'ace-window' and want to see where the next window is.		

Operation	<u>Keystroke</u>	Function	<u>Note</u>
Move point to previous window • can specify all frames	<f11> w 0</f11>	(pel-other-window-backward &optional N)	Select Nth previous window. n defaults to 1: meaning direct previous window. with negative n: move as (abs n) but consider all frames. If n is positive consider only current frame. This is the inverse of what does the standard (other-window). This command might be useful when ace-window is not used.
Esc-cursor keys for windmove	Along with several other key bindings, PEL creates the <esc>-cursor key bindings described below. In some circumstances, these key bindings can conflict with some other bindings, for example in Org-mode these keys can be translated to Meta-cursor keys that are bound to Org-mode operations. PEL provides the following user options to control the key bindings: • pel-windmove-on-esc-cursor controls the <esc> bindings, it is on by default on macOS and Windows, but off on Linux. • A Several Linux distros map C-M- bindings such as C-M-<right> and C-M-<left> If this is not the case for your Linux system, you can activate this, otherwise don't because it will prevent you from using the Esc C- bindings in replacement for the C-M- bindings you need to access several Emacs commands. • pel-windmove-on-f1-cursor controls the <f1> binding, also on by default.</f1></left></right></esc></esc>		
Move to window above	• <f11> <up> • <f1> <up> • <f1> <up> • <sc> <up> • %-<up> • %-<up> • \$f7><up> • √yu</up></up></up></up></sc></up></f1></up></f1></up></f11>	(windmove-up &optional ARG)	Select the window above the current one. With no prefix argument, or with prefix argument equal to zero, "up" is relative to the position of point in the window; otherwise it is relative to the left edge (for positive ARG) or the right edge (for negative ARG) of the current window. If no window is at the desired location, an error is signaled. With PEL, the yu key-chord is also available when key-chord is available and active. See Key-Chords.
Move to window below	• <f11> <down> • <f1> <down> • <fs> <down> • %-<down> • %-<down> • \$-<down> • \$f7> <down> • bn</down></down></down></down></down></fs></down></f1></down></f11>	(windmove-down &optional ARG)	Select the window below the current one. • With no prefix argument, or with prefix argument equal to zero, "down" is relative to the position of point in the window; otherwise it is relative to the left edge (for positive ARG) or the right edge (for negative ARG) of the current window. • If no window is at the desired location, an error is signaled. With PEL, the bn key-chord is also available when key-chord is available and active. See Key-Chords.
Move to window at left	• <f11> <left> • <f1> <down> • <esc> <left> • %-<left> • \$-<left> • \$-<left> • (f7) <left> • gf</left></left></left></left></left></esc></down></f1></left></f11>	(windmove-left &optional ARG)	Select the window to the left of the current one. With no prefix argument, or with prefix argument equal to zero, "left" is relative to the position of point in the window; otherwise it is relative to the top edge (for positive ARG) or the bottom edge (for negative ARG) of the current window. If no window is at the desired location, an error is signaled. With PEL, the gf key-chord is also available when key-chord is available and active. See Key-Chords.
Move to window at right	<pre> <f11> <right> <f1> <right> <f1> <right> <esc> <right> %-<right> %-<right> <f7> <right> ik </right></f7></right></right></right></esc></right></f1></right></f1></right></f11></pre>	(windmove-right &optional ARG)	Select the window to the right of the current one. • With no prefix argument, or with prefix argument equal to zero, "right" is relative to the position of point in the window; otherwise it is relative to the top edge (for positive ARG) or the bottom edge (for negative ARG) of the current window. • If no window is at the desired location, an error is signaled. With PEL, the jk key-chord is also available when key-chord is available and active. See Key-Chords.
Exchange windows	• <f11> w x • <f7> x</f7></f11>	(ace-swap-windows)	Swap buffers of the current window with another. If 3 windows or more, a single digit shows up in the top-left corner identifying the number to type to swap to this window. Requires the ace-window external package. PEL downloads, install and activates it when the pel-use-ace-window user options is set to t.
Close/Create Windows		e used to create and remove windows to two sets of four PEL commands be	
Close this windows	• C-x 0 • <f7> 0 • <f7> d</f7></f7>	(delete-window &optional WINDOW)	This just closes the window and moves the cursor to the next window.
Kill current buffer and close window See also: Buffers	• C-x 4 0 • <f7> k</f7>	(kill-buffer-and-window)	Kill the current buffer and delete the selected window.
Close a window identified by number	<f11> w k</f11>	(ace-delete-window)	Delete a window selected by a number, a number shown in the top-left corner of the window. Pequires the <u>ace-window</u> external package. PEL downloads, installs and activates it when the <u>pel-use-ace-window</u> user options is set to t.
Close all other windows	• C-x 1 • <f7> 1 • <f7> .</f7></f7>	(delete-other-windows &optional WINDOW)	Make current window fill its frame.
Maximize one window, identified by number	<f11> w m</f11>	(ace-maximize-window) (ace-delete-other-windows)	Maximize a window. Close all windows except the window selected by number, a number shown in the top-left corner of the window. Requires the <u>ace-window</u> external package. The old versions used ace-window-maximize, but newer versions use ace-delete-maximize-windows. PEL uses the one that is available. PEL downloads, install and activates it when the pel-use-ace-window user options is set to t.
Create new window below	• C-x 2 • <f7> 2 • <f7> -</f7></f7>	(split-window-below &optional SIZE)	Split the selected window into two windows, one above the other. • The selected window is above. The newly split-off window is below and displays the same buffer. ► Note that Emacs default behaviour attempts to maximize the view into the current buffer when splitting the buffer into 2 windows. This means that the cursor will not be located in the same position in the new window. To change this behaviour and keep the same point in both windows, execute (setq split-window-keep-point nil). The PEL packages does that.
Create new window at right	• C-x 3 • <f7> 3 • <f7> </f7></f7>	(split-window-right &optional SIZE)	Split the selected window into two side-by-side windows. • The selected window is on the left. The newly split-off window is on the right and displays the same buffer.
Create window at cursor direction	• ESC C- <right> • ESC C-<left> • ESC C-<left> • ESC C-<down> • ESC C-<up> • <f1> C-<right> • <f1> C-<left> • <f1> C-<left> • <f1> C-<down> • <f1> C-<up> • <f11> C-<up> • <f11> C-<up> • <f11> C-<left> • <f11> C-<up> • <f11> C-<up> • <f11> C-<up> • <f7> C-<up> • <f7> C-<up> • <f7> C-<left> • <f7> C-<left> • <f7> C-<up> • <f7> C-<up></up></f7></up></f7></left></f7></left></f7></up></f7></up></f7></up></f11></up></f11></up></f11></left></f11></left></f11></left></f11></left></f11></left></f11></left></f11></up></f11></up></f11></up></f1></down></f1></left></f1></left></f1></right></f1></up></down></left></left></right>	(pel-create-window-right) (pel-create-window-left) (pel-create-window-down) (pel-create-window-up)	Create a window at the location pointed by the cursor's direction, and move point inside the new window. • The 4 different commands and shown in the same cell for convenience, one for each of the available cursors: ⟨right⟩, ⟨left⟩, ⟨down⟩ and ⟨up⟩. • There are 4 possible sets of bindings: • 3 sets of stand-alone commands: • Commands with ⟨f11⟩ prefix, always available. • Commands with ESC prefix, always available when pel-windmove-on-esc-cursor user option is on (set to t). • Commands with ⟨f1⟩ prefix, available when pel-windmove-on-f1-cursor user option is on (set to t). • The Hydra-based commands, with the Hydra activated with any of the key sequences that use the ⟨f7⟩ prefix. Available when pel-use-hydra user option is set to t.

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
Close a window at cursor direction	The best way to use the	em is to type them once and then use	
	 Emacs native repeat key is C-x z once and then repeat more by only typing 'z'. The PEL package also binds the <f5> key to repeat.</f5> PEL also provides the Window Hydra (described above) which can be started with one of the following commands using the <f7> prefix. Once the Hydra is entered, commands can be issued again without any prefix.</f7> Each of the first 5 commands below have 5 possible bindings: The Emacs default key binding using the C-x prefix. The commands with the default PEL <f11> prefix, always available.</f11> The commands with ESC prefix, available when pel-windmove-on-esc-cursor user option is on (set to t). The commands with <f1> prefix, available when pel-windmove-on-f1-cursor user option is on (set to t).</f1> The Hydra-based commands, with the Hydra activated with any of the key sequences that use the <f7> prefix. Available when pel-use-hydra user option is set to t.</f7> 		
Grow window taller	• C-x ^ • <f11> w s V • ESC M-<up> • <f1> M-<up> • <f7> V</f7></up></f1></up></f11>	(enlarge-window DELTA &optional HORIZONTAL)	Grow window taller by DELTA lines (defaults to 1), specify more with C-u n (or M- n) argument prefix. • See note above for availability of various bindings.
Shrink window smaller	• <f11> w s v • ESC M-<down> • <f1> M-<down> • <f7> v</f7></down></f1></down></f11>	(shrink-window DELTA &optional HORIZONTAL)	Shrink height of window by DELTA lines (defaults to 1), specify more with C-u n (or M- n) argument prefix. • See note above for availability of various bindings.
Grow windows wider	• C-x } • <f11> w s H • ESC M-<right> • <f1> M-<right> • <f7> H</f7></right></f1></right></f11>	(enlarge-window-horizontally DELTA)	Enlarge the current window horizontally. See note above for availability of various bindings.
Shrink window narrower	• C-x { • <f11> w s h • ESC M-<left> • <f1> M-<left> • <f7> h</f7></left></f1></left></f11>	(shrink-window-horizontally DELTA)	Reduce the width of the current window. • See note above for availability of various bindings.
Make all windows the same size	• C-x + • <f11> w s = • ESC <kp-5> • <f1> <kp-5> • <f7> =</f7></kp-5></f1></kp-5></f11>	(balance-windows & optional WINDOW-OR-FRAME)	Balance the sizes of windows of WINDOW-OR-FRAME. WINDOW-OR-FRAME is optional and defaults to the selected frame. If WINDOW-OR-FRAME denotes a frame, balance the sizes of all windows of that frame. If WINDOW-OR-FRAME denotes a window, recursively balance the sizes of all child windows of that window. See note above for availability of various bindings.
Reduce current window size if buffer is smaller than window	• C-x - • <f11> w s -</f11>	(shrink-window-if-larger-than- buffer &optional WINDOW)	Shrink height of current window if its buffer doesn't need so many lines. More precisely, shrink window vertically to be as small as possible, while still showing the full contents of its buffer. Do not shrink window to less than 'window-min-height' lines. Do nothing if the buffer contains more lines than the present window height, or if some of the window's contents are scrolled out of view, or if shrinking this window would also shrink another window, or if the window is the only window of its frame.
Quick Window Layout Change	The following commands flip	the layout of 2 windows: the current	and next window between 2 horizontal windows to 2 vertical windows and vice versa.
Flip 2 horizontal windows to 2 vertical ones	• <f11> w v • <f7> M-v</f7></f11>	(pel-2-vertical-windows)	Convert 2 horizontal windows into 2 vertical windows. • Flip the orientation of the current window and its next one. • The next window is placed at the right of the current window.
Flip 2 vertical windows to 2 horizontal ones	• <f11> w h • <f7> M-h</f7></f11>	(pel-2-horizontal-windows)	Convert 2 horizontal windows into 2 horizontal windows. • Flip the orientation of the current window and its next one. • The next window is placed below the current one.
Window Layout History	The following commands allow you to restore a previously used window layout. They depend on the winner package, a package that is part of the standard Emacs. PEL activates them when pel-use-winner user option is t.		
Restore an earlier window configuration	• C-c <left> • <f11> w p • <f7> p</f7></f11></left>	(winner-undo)	Switch back to an earlier window configuration saved by Winner mode. In other words, "undo" changes in window configuration.
Restore a more recent window configuration	• C-c <right> • <f11> w n • <f7> n</f7></f11></right>	(winner-redo)	Restore a more recent window configuration saved by Winner mode.
Open Buffer in another window	the other does not. Under Pl		ide another window. One command select that other window (move point to that window) and IDO version of the command when the pel-use-ido customization variable is set to t, otherwise more information at the prompt.
Select buffer in other window	• C-x 4 b • <f11> w B</f11>	(ido-switch-buffer-other-window)	Select buffer bufname in another window (switch-to-buffer-other-window). See <u>Select Buffer</u> .
Display buffer in other window, don't select the other window.	• C-x 4 C-o • <f11> w b</f11>	(ido-display-buffer) ———————————————————————————————————	Display a buffer in other window but don't select it. When <i>pel-use-ido</i> is customized to t, (ido-display-buffer) is used, which prompts and provides easy to select list of available buffer names. Otherwise the standard Emacs (display-buffer) is used prompting without showing the available buffers.

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
Dedicated Windows	Emacs windows can be dedicated to specific buffers in such a way that future windows operations do not affect the dedicated windows. The following commands help you manage dedicated windows.		
Show dedicated status of current window	<f11> w d ?</f11>	(pel-show-window-dedicated- status)	Display the dedicated status of the current window in the echo area (the minibuffer).
Toggle dedicated status of current window	• <f11> w d d • <f7> d</f7></f11>	(pel-toggle-window-dedicated)	Toggle the dedicated status of the current window, changing a normal window into a dedicated one and a dedicated window into a normal one. Luse with care after learning about dedicated windows.
Follow Mode	Emacs has a scroll all windows mode which applies all scroll commands to all visible windows. To support mouse wheel or scroll bar you need to implement extra code as suggested by the Emacs Wiki Scroll All Mode page.		
See also: Scrolling	Text in the first window goes to the bottom and then	continues there.	 When Emacs follow-mode is used on 2 or more windows, these windows show the text of the same buffer spread across these windows that act as a one continuous stream. Follow mode is a minor mode that combines windows into one tall virtual window. This is accomplished by two main techniques: The windows always displays adjacent sections of the buffer. This means that whenever one window is moved, all the others will follow. (Hence the name Follow mode.) Should point (cursor) end up outside a window, another window displaying that point is selected, if possible. This makes it possible to walk between windows using normal cursor movement commands. Follow mode comes to its prime when used on a large screen and two or more side-by-side windows are used. The user can, with the help of Follow mode, use these full-height windows as though they were one.
Toggle follow-mode See also: <u>∑ Scrolling</u>	• <f11> w f • <f11> f</f11></f11>	(follow-mode &optional ARG)	Toggle Follow mode. With a prefix argument ARG, enable Follow mode if ARG is positive, and disable it otherwise.
Scrolling Window	For all other commands to scroll the window text, see the <u>Scrolling</u> page.		

Windows - Reference

Topic/URL	Comment
GNU Emacs — Displaying a Buffer in a Window	Describes the Emacs features related to displaying buffers inside windows.
GNU Emacs Lisp — Displaying Buffers — The Zen of Buffer Display	Describes the rules Emacs tries to use to control the creation of new windows when they are created dynamically from commands.