Windows — Managing Emacs Windows

<u>Operation</u>	<u>Keystroke</u>	Function		<u>Not</u>	<u>:e</u>	
Window Operations	frames. These basic facilitie • windmove, built-in, activ	nagement commands are bound to use can be extended by several built-in ated by PEL, with different key binding	n and external packages: ngs to preserve ability to sl	hift-mark when moving ac	cross text with curso	r.
See also: • <u>S Customize</u>	 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. layout-restore PEL activates it with pel-use-restore-layout user-option set to t. This associates layouts to buffers. 					
• <u>X Key-Chords</u> • <u>X Frames</u>	 ace-window, extends the C-x o command by displaying Ace target in the windows' upper left corner for quick navigation and access to buttons. PEL activates it when pel-use-ace-window user option is t. key-chord, to activate dual-key chords to move across windows. PEL activates it when pel-use-key-chord user option is t. Windows can be dedicated to specific buffers, for example by Speedbar (see Speedbar). 					
 <u>Speedbar</u> <u>Emacs Lisp</u> Windows section. 						
Follow Mode	Several windows with the same buffers can operate as a single flow with follow mode. PEL provides extra commands and key bindings:					
el All window	• In graphics mode, mouse operations are available. • They can also be enabled in terminal mode, with the xterm-mouse-mode enabled. With PEL, use <f11><f12> to toggle the xterm-mouse-mode.</f12></f11>					
scrolling commands are described in the Scrolling page.					erm-mouse-mode.	
<u>= coronnig</u> pago.	<u> </u>	can be applied to windows in other for rame is visible at a time though.	rames, whether Emacs is r	unning in graphics mode	or in terminal mode.	
Open this PDF file. See also: <u>▼ Help/Info</u>	<f11> w <f1></f1></f11>	(pel-help-pdf & optional OPEN-WEB-PAGE)		ocal PDF. If the prefix argued raw PDF instead. If the) is used, then it opens arg user-option is set it's
∑ Customize PEL window control	<f11> w <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL Window • If OTHER-WINDOW is	s non-nil (use C-u) , disp	lay in other window.	
∑ Customize Emacs window control	<f11> w <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs Wind winner, windmove and w	ow support groups: wind	ows, ace-window, ac	ce-window-display,
				t uses its own group. It place ead. PEL opens that grou		on inside the Emacs dresize user options there.
Show window info	<f11> w d ?</f11>	(pel-show-window-info)		window in minibuffer: #,	buffer, size, dedicate	ed, etc
ace-window # on ∑ Mode Line	• Type <f11> <f2> o</f2></f11>	ay-mode user-option on, the windov ace-window-display-mode to oper	the customize buffer to c	hange it.		
Toggle showing	Activating this will increated the state of	ase your Emacs init time. Instead, use (ace-window-display-mode		ode, <f11> w # , to ac display-mode, a minor m</f11>	· · · · · · · · · · · · · · · · · · ·	e ace window number of
ace-window # on window mode line	• <f11> M-1 #</f11>	&optional ARG)	each window inside the	left hand side of its mode rindow external package	e line.	
Close window [Kill buffer] Create/Split normal/side/root windows Resize window Fit size to buffer content Flip vertical/ horizontal layout Change to previous/next layout Display different buffer in window Change window dedication settings Change buffer in window Dedicated window Recenter buffer	To cancel the Hydra hit the Use the q key to quit fro You can also use b and The windresize comma The ace-window comm. The name of the PEL win command function listed A snapshot of the window r Create Split	m buffers that can be dismissed like B to change the buffer currently visit nd (describe below) provides an alter and bound to C-x o key provides a dow hydra commands are not listed in the Function column. For examp management hydra hint menu shows Layout n: next layout p: last layout y: swap with.# M-v: flip vert. M-h: flip horiz.	the *Help* buffer. It also close in the current window. rnative for most of the compartially overlapping featubelow. They all have a naile, pel-\(\sum_{\text{vishorter}}\) windmove-tup in the minibuffer area a Resize	mands (not all) available re set but has a different I me that begins with pel-∑ up is bound to <f7> <u as="" close<="" its="" keys="" of="" one="" s="" soon="" th=""><th>in this Hydra. key assignment than wnd/ and ends with p>.</th><th>the Hydra # key.</th></u></f7>	in this Hydra. key assignment than wnd/ and ends with p>.	the Hydra # key.
Move point to other window	• C-x o	(other-window COUNT &optional ALL-FRAMES)	Select (move point) to o • With prefix argument	ther window. Select anot consider all frames.	her window in cyclic	ordering of windows.
- C-u: swap - C-u C-u: delete				behaviour for this key. under the functionality description		pel-use-ace-window =
Move to other window Move to specified		(ace-window ARG)	Requires the ace-w	perate on) window select rindow external package window user option is se	. PEL downloads	
window Ace target • Operate on	 With only 2 windows in the current frame, move to the other window. With 3 windows or more: display an Ace target in the windows' upper left corner that identifies the window target: 					
specified window See also:	Type the displayed wir type one of the follo	ndow number to move to that window wing letters, followed by the target w	v (which is all that's availab	ble with <f7> #) , or (with</f7>	C-x o)	
Customize	 x - delete window m - swap windows M - move window c - copy window j - select buffer 					
Demo: <u>C'est la Z,</u> <u>video 5</u>						
		er in the other window				
	 c - split window fairly, either vertically or horizontally v - split window vertically b - split window horizontally 					
	• o - maximize o					
	d This supports selecting v	windows in other frames (both in grap other Emacs frames are in other OS w				
	• In text terminal mode, other Emacs frames are hidden (as they occupy the exact same OS window): just one Emacs frame is displayed. d An argument can be used to perform more operations:					
	To force a window nun windows active.	nber prompt, use any negative prefix	To force a window number prompt, use any negative prefix (including just typing C alone). Useful with several frames when c			rrent frame has 1 or 2
	 Prefixed with one C-u 					
	current buffer moves to	, does a swap between the selected o selected window). The PEL <f112 's.="" <b="">deletes the window identified by</f112>	w x key does the same	,		•

Oneration	Kovotroko	Eupation	Note	
Operation Move point to next window can specify all frames	Keystroke <f11> w o</f11>	Function (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	
Move point to previous window can specify all frames	<f11> w 0</f11>	(pel-other-window-backward &optional N)	to see where the <i>next</i> window is. 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.	
Move point to identified window	with some other bindings, fo	r example in Org-mode these keys of	cursor key bindings described below. In some circumstances, these key bindings can conflict can be translated to Meta-cursor keys that are bound to Org-mode operations.	
Esc-cursor keys for windmove	pel-windmove-on-esc-cu This affects the behavio A Several Linux disthis, otherwise don't becommands.	provides the following user options to control the key bindings: indmove-on-esc-cursor controls the <esc> bindings, it is on by default on macOS and Windows, but off on Linux. s affects the behaviour of the <esc> cursor key bindings in org buffer as well to ensure a regular navigation across all buffers. 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 to the cause it will prevent you from using the Esc C- bindings in replacement for the C-M- bindings you need to access several Emacs in mands. indmove-on-f1-cursor controls the <f1> binding, also on by default.</f1></left></right></esc></esc>		
Move to window above	<pre> <f11> <up> <f1> <up> <f1> <up> <esc> <up> **-<up> *-<up> *<ef7> <up> *<up> *<enp> *<enp< **-<up=""> **-<up> **-<up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></up></enp<></enp></up></up></ef7></up></up></up></esc></up></f1></up></f1></up></f11></pre>	(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 signalled. 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> • <f1> <down> • <esc> <down> • *-<down> • *-<down> • *-<down> • *-<down> • bn</down></down></down></down></down></esc></down></f1></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 signalled. With PEL, the bn key-chord is also available when key-chord is available and active. See Key-Chords.	
Move to window at left	<pre> <f11> <left> <f1> <down> <esc> <left> *-<left> *-<left> *-<left> * <f7> <left> *</left></f7></left></left></left></left></esc></down></f1></left></f11></pre>	(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 signalled. With PEL, the gf key-chord is also available when key-chord is available and active. See S Key-Chords .	
Move to window at right	<pre> <f11> <right> <f1> <right> <fs> <right> <esc> <right> *-<right> *-<right> * <f7> <right> ik</right></f7></right></right></right></esc></right></fs></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 signalled. With PEL, the jk key-chord is also available when key-chord is available and active. See Key-Chords. 	
Swap (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 <u>ace-window</u> external package. PEL downloads, install and activates it when the <u>pel-use-ace-window</u> user options is set to t.	
Close Windows	The following commands are	used to remove (close) windows. The	he last row correspond to a set of four PEL commands bound to cursor keys.	
Close this windows	• C-x 0 * <f7> 0</f7>	(delete-window &optional WINDOW)	This just closes the window and moves the cursor to the next window.	
Close other (next) window	• <f11> w w * <f7> o</f7></f11>	(pel-close-other-window)	Close the other window. Hide its buffer, does not kill it. • Useful to close temporary window, like the help window, without having to move into it.	
Close all other windows	• C-x 1 * <f7> 1</f7>	(delete-other-windows &optional WINDOW)	Maximize current window: make current window fill its frame. Close all other windows.	
Close 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. If there's only 2 windows, kills the other window. If only 1 window is used, does not kill it. Needs ace-window external package. PEL downloads, installs and activates it when the pel-use-ace-window user options is set to t.	
Maximize window identified by number	<f11> w m</f11>	(ace-maximize-window) (ace-delete-other-windows)	Maximize specified window. Close all windows except the window selected by number, a number shown in the top-left corner of the window. Needs <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 <u>pel-use-ace-window</u> user options is set to t.	
Close a window identified by cursor direction	• ESC C-S- <right> • ESC C-S-<left> • ESC C-S-<down> • ESC C-S-<up> • <f1> C-S-<right> • <f1> C-S-<left> • <f1> C-S-<down> • <f1> C-S-<down> • <f1> C-S-<down> • <f1> C-S-<down> • <f1> C-S-<up> • <f11> C-S-<right> • <f11> C-S-<right> • <f11> C-S-<left> • <f11> C-S-<left> • <f11> C-S-<left> • <f11> C-S-<down> • <f11> C-S-<down> • <f11> C-S-<up> * <f7> C-S-<up></up></f7></up></f7></up></f7></up></f7></up></f7></up></f7></up></f11></down></f11></down></f11></left></f11></left></f11></left></f11></right></f11></right></f11></up></f1></down></f1></down></f1></down></f1></down></f1></left></f1></right></f1></up></down></left></right>	 pel-close-window-right) (pel-close-window-left) (pel-close-window-down) (pel-close-window-up) 	 Kill window pointed by the cursor's direction. The 4 different commands and shown in the same cell for convenience, one for each of the available cursors: <right>, <left>, <down> and <up>.</up></down></left></right> There are 4 possible sets of bindings: 3 sets of stand-alone commands: Commands with <f11> prefix, always available.</f11> Commands with ESC prefix, 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).</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> 	
Close all windows showing buffer	• C-x w 0 • <f11> w 0</f11>	(delete-windows-on &optional BUFFER-OR-NAME FRAME)	Prompts for buffer name and delete all windows showing that buffer. With M-0 prefix: delete only windows in the current terminal's frames. Any other prefix argument means that only windows in the current frame will be deleted. Kill the current buffer and delete the selected 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.	
Kill current buffer	* <f7> k</f7>	(pel-kill-current-buffer)	Kill current buffer and close window without prompting unless it is modified. In Hydra only.	

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>	
Create Window by splitting current window	The split-window-keep-	ds create a new window by splitting the current one. The last row correspond to a set of four PEL commands bound to cursor keys. teep-point user option controls whether point is kept at the same vertical position in both windows (t, the default). If nil, Emacs adjust user to minimize redisplay. Change temporarily with: <f11> w s. Change permanently with: <f11> w <f3> 1 to access the d modify the user option.</f3></f11></f11>		
Toggle split window point behaviour	<f11> w <f4> s</f4></f11>	(pel-toggle-split-window-keep-point)	Toggle the value of split-window-keep-point between values described above. Print description of new value. Change only affects current Emacs session, not stored.	
Create new window below	• C-x 2 * <f7> 2</f7>	(split-window-below &optional SIZE)	Split current window into 2 windows. Leave point in top window. Same buffer in both. Optional SIZE numerical argument identify line count of top window (if positive) or bottom window (if negative).	
Create new window at right	• C-x 3 * <f7> 3</f7>	(split-window-right &optional SIZE)	Split current window into two side-by-side windows. Leave point in the left window. Same buffer in both. • Optional SIZE numerical argument identify column count of left-hand window (if positive) or right-hand window (if negative).	
Create window at cursor direction	• ESC C- <right> • 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></up></f7></up></f7></up></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></right>	(pel-create-window-right & optional SIZE) (pel-create-window-left & optional SIZE) (pel-create-window-down & optional SIZE) (pel-create-window-up & optional SIZE)	Create a window at the location pointed by the cursor's direction, and move point inside the new window. • Optional SIZE numerical argument identify either: • line count of top window (if positive) or bottom window (if negative). • column count of left-hand window (if positive) or right-hand window (if negative). • 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, 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.	
Create Side Windows			ndows positioned at any of the four sides of a frame's root window. ns the entire frame width under several vertically split windows.	
Create new side window that holds current buffer.	• <f11> w M-w * <f7> M-2 * <f7> M-4 * <f7> M-6 * <f7> M-8</f7></f7></f7></f7></f11>	(pel-buffer-in-side-window &optional N)	Place current buffer in a new, dedicated side window. • By default the side window is at the bottom of the current frame. • Use a numeric argument to specify a different side: For N= 2, 4, 6 or 8, select window pointed by what is pointed by cursor positioned at the layout of numeric keypad: 8 := 'top 4 := 'left 6 := 'right 2 := 'bottom	
Toggle display of side windows in the frame	• C-x w s • <f11> w M-s</f11>	(window-toggle-side-windows &optional FRAME)	Toggle display of side windows on current frame. • If FRAME has at least one side window, delete all side windows on FRAME after saving FRAME's state in the FRAME's 'window-state' frame parameter. Otherwise, restore any side windows recorded in FRAME's 'window-state' parameter, leaving FRAME's main window alone. Signal an error if FRAME has no side windows and no saved state for it is found.	
Create Frame Root Windows	Available on Emacs 29.1 and later only. The PEL Windows Hydra has keys that provides access to this command in all Emacs versions, but for previous versions of Emacs the Hydra uses the split-window commands (listed above) instead.			
Split root window below	C-x w 2 * <f7> M-r</f7>	(split-root-window-below &optional SIZE)	Split root window of current frame in two. The current window configuration is retained in the top window, the lower window takes up the whole width of the frame. Optional SIZE numerical argument identify line count of top window (if positive) or bottom window (if negative).	
Split root window right	C-x w 3 * <f7> M-R</f7>	(split-root-window-right &optional SIZE)	Split root window of current frame into two side-by-side windows. • The current window configuration is retained within the left window, and a new window is created on the right, taking up the whole height of the frame. • Optional SIZE numerical argument identify column count of left-hand window (if positive) or right-hand window (if negative).	
Resize Window Quickly with windresize	Resize the current window quickly using the windresize command (mapped to <f11> w r by PEL). Requires the windresize external package. PEL activates it when pel-use-windresize user-option is set to t. The windresize command can be used while the PEL Window Hydra is active, taking over Hydra keys. Complete and return to Hydra with RET</f11>			
Resize Window interactively	<f11> w r</f11>	(windresize &optional INCREMENT)	Resize windows interactively using the following minor mode keys. • Use RET to complete or C - g to abort. Both exit the mode.	
Resize window using cursors	<pre> <right> <left> <down> <up> </up></down></left></right></pre>	(windresize-right & optional N LEFT-BORDER FIXED-WIDTH) (windresize-left & optional N LEFT-BORDER FIXED-WIDTH) (windresize-down & optional N LEFT-BORDER FIXED-WIDTH) (windresize-up & optional N LEFT-BORDER FIXED-WIDTH)	Resize the current window in the direction of the used cursor. N is the number of lines by which moving borders.	
Resize windows using direction opposite to cursor	• C- <right> • C-<left> • C-<down> • C-<up></up></down></left></right>	(windresize-right-minus) (windresize-left-minus) (windresize-down-minus) (windresize-up-minus)	Same as the above commands but use the direction opposite to the cursor.	
Resize window bottom-right	/	(windresize-bottom-right)	Call 'windresize-right' and 'windresize-down' successively. In move-borders method, move the bottom-right edge of the window outwards. In resize-window method, enlarge the window horizontally and shrink it vertically.	
Resize window top- right	\	(windresize-up-right)	Call 'windresize-right' and 'windresize-up' successively. In move-borders method, move the upper-right edge of the window outwards. In resize-window method, enlarge the window both horizontally and horizontally.	
Resize window top- left	M-/	(windresize-up-left)	Call 'windresize-left' and 'windresize-up' successively. In move-borders method, move the upper-left edge of the window outwards. In resize-window method, shrink the window horizontally and enlarge it vertically.	
Resize window bottom-left	M-\	(windresize-bottom-left)	Call 'windresize-left' and 'windresize-up' successively. In move-borders method, move the bottom-left edge of the window outwards. In resize-window method, shrink the window both horizontally and vertically.	
Reposition window	• C-M- <right> • C-M-<left> • C-M-<down> • C-M-<up></up></down></left></right>	(windresize-right-fixed) (windresize-left-fixed) (windresize-down-fixed) (windresize-up-fixed)	Move the window to the direction identified by the cursor, keeping its width (or height) constant.	

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>	
Set window resize/ reposition increment step	i	(windresize-set-increment &optional N)	Set the window resize increment step value to N. Use a numeric argument prefix to set N interactively: For example: M-4 i sets the increment to 4.	
Increase the resize/ reposition increment step	+	(windresize-increase-increment &optional SILENT)	Increase the increment. • If SILENT is non-nil, don't output a message.	
Decrease the resize/reposition increment step	-	(windresize-decrease-increment & optional SILENT)	Decrease the increment. • If SILENT is non-nil, don't output a message.	
Negate resize/ reposition increment	~	(windresize-negate-increment &optional SILENT)	Negate the increment value. Changes the direction of window resize operations. • If SILENT is non-nil, don't output a message.	
Balance Windows	• = • C-x +	(windresize-balance-windows)	Balance window sizes.	
Delete current window	• 0 • C-x 0	(delete-window &optional WINDOW)	Delete current window During my testing C-x 0 behaved like windresize-other-window instead. Should investigate. 0 works fine though.	
Delete other windows	• 1 • C-x 1	(windresize-delete-other- windows)	Delete other windows.	
Split window vertically	• 2 • C-x 2	(windresize-split-window- vertically)	Split window vertically. Creates 2 windows: one on top of the other.	
Split window horizontally	• 3 • C-x 3	(windresize-split-window- horizontally)	Split window horizontally. Creates 2 windows side by side.	
Save window configuration	s	(windresize-save-window-configuration)	Save the current window configuration in the ring.	
Restore window configuration	r	(windresize-restore-window-configuration)	Restore the previous window configuration in the ring.	
Move point to other adjacent window	 M-S-<right></right> M-S-<left></left> M-S-<down></down> M-S-<up></up> 	(windresize-select-right &optional ARG) (windresize-select-left &optional ARG) (windresize-select-down &optional ARG) (windresize-select-up &optional ARG)	Select the window identified by the cursor. If ARG is nil or zero, select the window relatively to the point position. If ARG is positive, select relatively to the top edge and select relatively to the bottom edge otherwise.	
Move point to other window	0	(windresize-other-window)	Select other window.	
Move point to previous window	р	(windresize-previous-window)	Select the previous window.	
Move point to next window	n	(windresize-next-window)	Select other window.	
Set window layout and exit windresize	• x • RET	(windresize-exit)	Keep this window configuration and exit 'windresize'.	
Cancel window layout and exit windresize	• q	(windresize-cancel-and-quit)	Cancel window resizing and quit 'windresize'. • Restore window layout used before the entry into windresize mode. • The layouts, are, however still available via winner-undo <f11> w p, with PEL.</f11>	
Resize Window Using the base Emacs commands	The following commands are used to change the current window size. Except when used inside the hydra, none of these commands are easy to re-type quickly. The best way to use them is to type them once and then use a repeat key: Emacs native repeat key is C-x z once and then repeat more by only typing 'z'. PEL also binds the <f5> key to repeat. 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. 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. The commands with ESC prefix, available when pel-windmove-on-esc-cursor user option is on (set to t). The Hydra-based commands, activated with any of the key sequences that use the <f7> prefix. Available when pel-use-hydra user option is set to t.</f7></f11></f7></f5>			
Grow window taller	• C-x ^	(enlarge-window DELTA	Grow window taller by DELTA lines (defaults to 1), specify more with C-u n (or M- n) argument	
	• <f11> w s V • ESC M-<up> • <f1> M-<up> * <f7> V</f7></up></f1></up></f11>	&optional HORIZONTAL)	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. 	

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>	
	• C-x w - * <f7> .</f7>	(fit-window-to-buffer &optional WINDOW MAX-HEIGHT MIN-HEIGHT MAX-WIDTH MIN-WIDTH PRESERVE-SIZE)	Adjust size of WINDOW to display its buffer's contents exactly. WINDOW must be a live window and defaults to the selected one. If WINDOW is part of a vertical combination, adjust WINDOW's height. The new height is calculated from the actual height of the accessible portion of its buffer. The optional argument MAX-HEIGHT specifies a maximum height and defaults to the height of WINDOW's frame. The optional argument MIN-HEIGHT specifies a minimum height and defaults to 'window-min-height'. Both MAX-HEIGHT and MIN-HEIGHT are specified in lines and include mode and header line and a bottom divider, if any. If WINDOW is part of a horizontal combination and the value of the option 'fit-window-to-buffer-horizontally' is non-nil, adjust WINDOW's width. The new width of WINDOW is calculated from the maximum length of its buffer's lines that follow the current start position of WINDOW. The optional argument MAX-WIDTH specifies a maximum width and defaults to the width of WINDOW's frame. The optional argument MIN-WIDTH specifies a minimum width and defaults to 'window-min-width'. Both MAX-WIDTH and MIN-WIDTH are specified in columns and include fringes, margins, a scrollbar and a vertical divider, if any.	
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.	
	• <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.	
· ·	• <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.	
Trillaott Layout	· · · · · · · · · · · · · · · · · · ·		rindow layout. Two packages are available . cs. PEL activates them when pel-use-winner user option is t .	
window	• 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.	
recent window	• C-c <right> • <f11> w n * <f7> n</f7></f11></right>	(winner-redo)	Restore a more recent window configuration saved by Winner mode.	
and the second second	The vectornal <u>layout-restore</u> package. PEL activates it with <u>pel-use-restore-layout</u> user-option set to t. This associates layouts to buffers. This needs investigation work - <u>use caution</u> .			
Save Window layout	<f11> w l s</f11>	(layout-save-current)	Save the current layout, add a list of current layout to layout-configuration-alist.	
Restore Layout	<f11> w l r</f11>	(layout-restore &optional BUFFER)	Restore the layout related to the buffer BUFFER, if there is such a layout saved in 'layout-configuration-alist', and update the layout if necessary.	
·	<f11> w 1 d</f11>	(layout-delete-current &optional BUFFER)	Delete the layout information from 'layout-configuration-alist' if there is an element list related to BUFFER.	
Opcii Dulici III	With the following commands you can show a different buffer inside another window. One command select (move point to) that window. The other does not. • Under PEL, the prompt for buffer name is using the input completion method currently active (default, Ido, Helm,) • See Completion/Input for more information.			
	• C-x 4 C-o • <f11> w b</f11>	(ido-display-buffer) ———————————————————————————————————	Display a buffer in other window but don't select it.	
	• 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> .	
			ay that future windows operations do not affect the dedicated windows. It with the following command. Use <f11> w ? to show the current window state.</f11>	
	* <f7> d one and a dedicated window into a normal one.</f7>		Toggle the dedicated status of the current window, changing a normal window into a dedicated one and a dedicated window into a normal one. !\textsup Use with care after learning about dedicated windows.	
		vs mode which applies all scroll com	mands to all visible windows. To support mouse wheel or scroll bar you need to implement	
		de using 3 windows	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.	
	Text in the first window goes to the bottom and then	continues there.	 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. 	
	• <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.	

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
recentering in current window	The following 2 command do not move point, but reposition the text in the current window. • These are quite useful as they can be used to refresh the view in the current window. See also: Navigation		
Position current line to window's Center / Bottom / Top. Refresh screen.	• C-1 • <f11> C-1 * <f7> 5</f7></f11>	(recenter-top-bottom &optional ARG)	Without argument: moves the current line to window: center -> top -> bottom. • With arg: centre first: • C-u C-1 C-1 C-1 C-1 • → center → bottom → center → top • With negative arg: bottom first: • C C-1 C-1 C-1 • → bottom → center → top • With arg 0: top first: • M-0 C-1 C-1 C-1 • → top → bottom → center • With numeric positive: move current line to window top position N • With negative numeric: move current line to bottom window position: -1 := last line • PEL provides the <f11> C-1 key binding because some modes use C-1 as a prefix key.</f11>
Reposition comment/definition in full view	• C-M-1 • C-[C-1 • Esc C-1	(reposition-window &optional ARG)	Attempts to make the current comment or current definition fully visible by scrolling the lines without changing the point. • Further invocations move it to the top of the window or toggle the visibility of comments that precede it (by scrolling the lines).

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.