Scrolling

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>		
Scrolling	Emacs supports both vertical	al and horizontal scrolling, even v	when Emacs is running in text mode. In GUI mode Emacs has scroll bars you can use.		
O GUI-Emacs scroll bars Recenter text in window Vertical scrolling Smooth scrolling Scroll full screen Scroll lock mode PEL window scrolling hydra, vertical & multiwindow vertical scroll Horizontal scrolling Auto-revert tail mode	Emacs has several vertical scroll modes and several global variables to control scrolling behaviour as described in the Textual Scrolling page. Single window scroll, where the navigation commands for up and down are translated to scroll operations when scroll is possible. Dual window scroll, implemented by the PEL package, where a PEL scroll command in one window is reflected in the other, associated window. The scroll-all-mode, where all windows are scrolled together when one of the native Emacs scroll commands is used. Emacs also has the Follow Mode, described at the bottom of this document. See PEL binding for follow-mode. PEL also provides 1-line scroll commands. Note that when Emacs is running in Terminal (TTY) mode, mouse scrolling is normally disabled. PEL activates the ability to scroll with the mouse in terminal mode when the xterm-mouse-mode is activated (it can be enabled by <f11><f12>). See also: Mouse</f12></f11>				
O Follow mode					
Open this PDF file. See also: <u>Nelp/Info</u>	<f11> <f1></f1></f11>	(pel-help-pdf &optional OPEN- WEB-PAGE)	Open the <u>Scrolling</u> local PDF. If the prefix argument (like C-u or M) is used, then it opens the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg useroption is set it's the other way around.		
∑ Customize PEL Scrolling control	<f11> <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL Scrolling support. • If OTHER-WINDOW is non-nil (use C-u), display in other window.		
© Customize Emacs Scrolling control	<f11> <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs Scrolling support groups: frame, follow, smooth-scrolling.		
GUI <u>Scroll bars</u>	Emacs running in graphical	mode supports vertical and horiz	ontal scroll bars.		
Toggle Vertical scroll bar on all frames	<f11> B V</f11>	(scroll-bar-mode &optional ARG)	Toggle vertical scroll bars on all frames (Scroll Bar mode). • This applies to all frames that exist, as well as new frames to be created in the future.		
Toggle Vertical scroll bar on current frame	<f11> B v</f11>	(toggle-scroll-bar ARG)	Toggle whether or not the selected frame has vertical scroll bars. • With ARG, turn vertical scroll bars on if and only if ARG is positive. The variable 'scroll-bar-mode' (in the frame customize group) controls which side the scroll bars are on when they are turned on; if it is nil, they go on the left.		
Toggle Horizontal scroll bar mod eon all frames	<f11> B H</f11>	(horizontal-scroll-bar-mode &optional ARG)	Toggle horizontal scroll bars on all frames for Emacs running graphics mode . This command applies to all frames that exist and frames to be created in the future. If the prefix argument is positive, enable the mode, zero or negative, disable the mode.		
Toggle Horizontal scroll bar on current frame	<f11> B h</f11>	(toggle-horizontal-scroll-bar ARG)	Toggle whether or not the selected frame has horizontal scroll bars. • With ARG, turn horizontal scroll bars on if and only if ARG is positive.		
Recentering in current window	The following command is not a scrolling operation but can help reposition buffer. It can be quite useful to quickly position the line where the cursor is located to the centre, top or bottom of the window, effectively quickly 'scrolling'.				
Position current line to window's Center / Bottom / Top . Refresh screen.	• C-1 • <f11> C-1 • <numkeypad 5=""></numkeypad></f11>	(recenter-top-bottom &optional ARG)	Without argument: moves the current line to window: center -> top -> bottom. The <5> key on numeric keypad can also be used when available and active. See Numkeypad for more information on how to control access to this.		
See also: Windows	With arg: centre first: • C-u C-1 C-1	C-1 C-1	With negative arg: bottom first: • C C-1 C-1 C-1		
	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>				
Vertical Scrolling	of the window. This mode water that will be seen that the window. This mode was a seen that the window.	Emacs default vertical scrolling mechanism makes the screen jumps about the size of half a window when the cursor gets close to the top or the bottom of the window. This mode was originally designed to reduce processing requirements. See the following sections of the programming manual for info: • Textual Scrolling • Vertical Fractional Scrolling			
Smooth Scrolling	If you find the behaviour of vertical scrolling annoying, you can activate a smooth scrolling. The smooth-scrolling package provides the <u>smooth-scrolling external package</u> that makes Emacs provide a much smoother scrolling experience. PEL activates smooth scrolling when the <u>pel-use-smooth-scolling</u> user option is set to t. Turn it on or off with the following command.				
Toggle smooth scrolling mode	<f11> s</f11>	(smooth-scrolling-mode &optional ARG)	Toggle smooth scrolling mode on/off. If a numeric argument is used, a positive one turn smooth scrolling on while a negative one turns it off. Requires the smooth-scrolling package. Actvated by pel-use-smooth-scrolling		
Scroll full screen			xt in the current window. These commands scroll without having to enable a special scroll elow). However that also work in the single window scroll and the scroll all mode.		
Scroll up by near full screen	• C-v • <page-down></page-down>	(scroll-up-command &optional ARG)	Use an argument number (M-number) before the C-v to specify the number of lines to scroll. In <u>cua-mode</u> , C-v is used for paste. With PEL, if <u>pel-with-cua-paste</u> user option is set to t, C-v is bound to yank, otherwise it uses Emacs default (used for scroll).		
Scroll down by near full screen	• M-v • <page up=""></page>	(scroll-down-command &optional ARG)	Use an argument number (M-number) before the C-v to specify the number of lines to scroll		
Scroll lock mode			 keys. Also keys that normally move point by line or paragraph will scroll the buffer by the cally fixed relative to window boundaries during scrolling. 		
1 Window Scroll	The single window scroll mo	de allows using normal cursor mo	ovement keys to scroll the window.		
Toggle Scroll-Lock Mode	<f11> 1</f11>	(scroll-lock-mode &optional ARG)	Toggle single window scroll mode. A buffer-local minor mode for pager-like scrolling. • With prefix argument ARG, a positive argument enables it, a negative disables it.		
All Windows Scroll	In this mode all visible windo	ows are scrolled together.			
Toggle Scroll All Mode	<f11> a</f11>	(scroll-all-mode &optional ARG)	Toggle shared scrolling in same-frame windows (Scroll-All mode). • With prefix argument ARG, a positive argument enables it, a negative disables it.		
		When Scroll-All mode is enabled, scrolling commands invoked in one window apply to all visible windows in the same frame.			
Scroll other window		t window in the list of windows dis n be used to scroll the line of that			
Scroll other window up by ~ 1 full window	• Esc <pgdown> • C-M-v</pgdown>	(scroll-other-window &optional ARG)	Scroll the text of the <i>other</i> window one near-full window down (toward the bottom of the buffer). • If a number argument is specified, that identifies the number of lines to scroll. • A negative argument inverses the direction.		
Scroll other window down by ~ 1 full window	• Esc <pgup> • C-M-S-v</pgup>	(scroll-other-window-down &optional LINES)	Scroll the text of the <i>other</i> window one near-full window up (toward the top of the buffer). If a number argument is specified, that identifies the number of lines to scroll. A negative argument inverses the direction.		

supports multi-window grant of the sync-scroll sprough with the pell-toggle-scroll-type, pel-add-window part of the sync-scroll group with the pell-toggle-scroll-sync, pel-add-window that are part of the sync-scroll group with the pell-toggle-scroll-sync pel-add-window-from-scroll-sync commands. The first one creates a set of 2 windows the current one and its next window. Control the set of windows that are part of the sync-scroll set will scroll together only when the pell-scroll-down commands are used, in any major-node. Hydra for scrolling: I horizontal 1-odurn of the sync-scroll set will scroll together only when the pell-scroll-down commands are used, in any major scroll the scroll down commands are used. While sync-scroll scroll be scroll-down commands are used. While sync-scroll set will scroll together only when the pell-scroll-down commands are used. While sync-scroll scroll be scroll-down-down scroll scroll be scroll-down-down commands are used. While sync-scroll is active jou can scroll the scroll-down will not scroll be scroll-down commands are used. While sync-scroll is active jou can scroll set set to scroll wortening less under used. While sync-scroll scroll be scroll-down-down scroll scroll be scroll-down commands are used. While sync-scroll is active jou can scroll scroll be scroll-down commands. The scroll-down and scroll scroll scroll be scroll-down commands. The scroll-down and scroll s					
C-cups: up C-cleft>: bint C-cleft>: left C-cleft>:	 Control the set of windows that are part of the sync-scroll group with the pel-toggle-scroll-sync, pel-add-window-to-scroll-sync and pel-remove-window-from-scroll-sync commands. The first one creates a set of 2 windows: the current one and its next window. The windows part of the sync-scroll set will scroll together only when the pel-scroll-up, pel-scroll-down commands are used, but also when the following keys are used: pel-home (bound to <home>, and pel-end (bound to <end>). Nothing else unfortunately. See Navigation.</end></home> While sync-scroll is active you can scroll the current window only with the commands pel-scroll-down-only-this and pel-scroll-up-only-this. 				
Scroll up/down by N lines For the next 2 command: repetition and inverse movement supported by numeric argument: Positive N identifies a repetition cour Negative N identifies repetition in the control of the second of the	use any of the hydra				
Scroll up 1 line * M- <down> * (=7? M-<down> * C-<ff?> C-<down> * (=7? M-<down> * (=7? M-<down) (="7?" *="" m-<dow<="" m-<down)="" td=""><td>nt.</td></down)></down></down></down></down></down></down></down></down></ff?></down></down>	nt.				
Scroll down 1 line	fer.				
Scroll other window up by 1 line Scroll other window down by 1 line M-S- <f5> (pel-scroll-up-other &optional N) Scroll the text of the other window one line down (toward the bottom</f5>	> that do work. The scroll hydra with its				
Sync-scroll group	of the buffer).				
• Toggle PEL window scroll mode Copel-toggle-scroll-sync & Scroll mode Copel-toggle-scroll-sync & Scroll mode Copel-toggle-scroll-sync & Scroll current window Copel-toggle-scroll-sync & Co					
## This command does not activate a minor-mode, therefore there If currently off, place the current and next window inside the list of windows that must be scrolled together: the PEL window scroll sy. When turning it on, you can identify the other window with a a numeric argument. The value of N can be 2,4,6 or 8 and correspond to the PEL window scroll sync group. Add current window to the PEL window scroll group Add current window to the PEL window scroll sync group. Add current window to the PEL window scroll sync group. Add current window to the PEL window scroll sync group. Add current window to the PEL window scroll sync group. Add current window from the PEL window scroll sync group. Add current window from the PEL window scroll sync group. If less than 2 windows remain in the group, the command display a window sadding another window later. To turn it off completely re-iss use the pel-toggle-scroll-sync command twice. Scroll current window If you wish to only scroll the current window while a sync-scroll group is active, use the following 2 commands.					
Add current window to the PEL scroll sync group. If PEL scroll sync is currently off, it adds the current and next window scroll sync group. Remove current window from the PEL window scroll group Remove scroll group (pel-remove-window-from-scroll-sync) (pel-remove-window-from-scroll-sync) (pel-remove-window-from-scroll-sync) Remove current window from the PEL window scroll sync group. If less than 2 windows remain in the group, the command display a lit's possible to leave only 1 window inside the PEL window scroll sync group. If you wish to only scroll the current window while a sync-scroll group is active, use the following 2 commands.	This command does not activate a minor-mode, therefore there's no indication. If currently off, place the current and next window inside the list of windows that must be scrolled together: the PEL window scroll sync group. When turning it on, you can identify the other window with a a numeric argument. The value of N can be 2,4,6 or 8 and correspond to the cardinal points represented by the keypad cursor keys: 8 (up) 4 (left) 6 (right)				
window from the PEL window scroll group If less than 2 windows remain in the group, the command display a lt's possible to leave only 1 window inside the PEL window scroll sy allows adding another window later. To turn it off completely re-iss use the pel-toggle-scroll-sync command twice. Scroll current window If you wish to only scroll the current window while a sync-scroll group is active, use the following 2 commands.	ow to the PEL				
	ync group. That				
 Only when sync-scroll is active Use a prefix argument to scroll by several lines, or use the repeat command (bound to <f5> under PEL).</f5> 	If you wish to only scroll the current window while a sync-scroll group is active , use the following 2 commands. • Use a prefix argument to scroll by several lines, or use the repeat command (bound to <f5></f5> under PEL).				
• Scroll up Bring text ahead into view. (pel-scroll-up-only-this &optional N) (pel-scroll-up-only-this &optional N) Move text N (defaults to 1) lines up (same direction as forward) toward • Only scroll current window by N lines. No other windows part of the scroll. The command temporary disable the sync-scroll and re-esta • The command is only available during a sync-scroll group is active.	e sync-scroll group ablish it after.				
• Scroll down Bring text behind into view. (pel-scroll-down-only-this &optional N) (pel-scroll-down-only-this &optional N) Move text N lines down (same direction as backwards), toward the to • Only scroll current window by N lines. No other windows part of the scroll. The command temporary disable the sync-scroll group is active.	e sync-scroll group ablish it after.				
TOT WITHOUT TO THE PARTY OF THE	 Left and right scrolling are also part of the PEL scroll Hydra: Requires the hydra external package. With PEL user option pel-use-hydra set to t. To have the Hydra hint off when the Hydra activates set the hydra-is-helpful user option to nil (but then you can still toggle it on/off with?. 				
Scroll window 1 column left • <f11> } • <f11> 3 • <f11> <right> * C-<f7> C-<right> Scroll the entire window left by 1 column. • A numeric argument N can be used to identify more columns</right></f7></right></f11></f11></f11>					
Scroll window 1 column right • <f11> { • <f11> { • <f11> <left> * C-<f7> C-<left> C-<ff> C-<left> C-<ff> C-</ff></left> C-<ff> C-</ff></ff></left> C-<ff> C-</ff></f7></left> C-<ff> C- C-<ff> C- C-<ff< td=""><td></td></ff<></ff></ff></f11></f11></f11>					
Scroll window (lines) left • C-x < (scroll-left &optional ARG SET-MINIMUM) Scroll window left. • This command is disabled by default. The first time you use it it window left.	ill prompt to enable it.				
Scroll window (lines) right • C-x > • C- <pgup> (scroll-right & optional ARG SET-MINIMUM) Scroll window right. • This command is disabled by default. The first time you use it it will</pgup>	I prompt to enable it.				
Automatic scroll to end of buffer					
Toggle auto-revert tail mode • <f11> t • <f11> t • <f11> f r t (auto-revert-tail-mode & optional ARG) Toggle reverting tail of buffer when the file grows. • With a positive ARG enable Auto-Revert Tail Mode , a negative disa</f11></f11></f11>	ables it.				
See more in: File-mngt • When Auto-Revert Tail Mode is enabled, the tail of the file is constantly followed, as with the shell command 'tail -f'. This means the grows on disk (presumably because some background process is appending to it from time to time), this is reflected in the current You can edit the buffer, turn this mode off and on again as you please. • When Auto-Revert Tail Mode is enabled, the tail of the file is constantly followed, as with the shell command 'tail -f'. This means the grows on disk (presumably because some background process is appending to it from time to time), this is reflected in the current You can edit the buffer, turn this mode off and on again as you please.	buffer.				

Description	<u>Keystroke</u>	Function	<u>Note</u>		
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: <u>S Windows</u>	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-byside 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>∑ Windows</u>	• <f11> f • <f11> w 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 - Reference

Торіс	Note		
Scroll two opened buffers in a split window at the same time	Use scroll-all-mode I got it to work briefly (when (SL) was displayed in the mode line lighter) but have not been able to get it to work ever since. The scroll-lock-mode behaves like it is documenting in the source code; which is just to prioritize scrolling instead of moving point in the lines.		
Emacs Wiki - Scroll All Mode			
Emacs Wiki - Scroll Lock			
GNU Emacs Manual - Scrolling			
GNU Emacs Manual - Auto Scroll			
GNU Emacs - Follow Mode			
Can I scroll the windows in emacs synchronously? @ StackOverflow			