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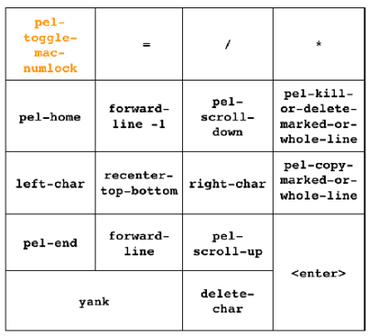
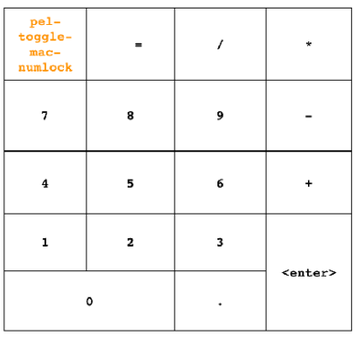
Number Keypad

Operation	Keystroke	Function	Note
PEL Number Keypad Handling	The PEL system implements a numlock and non-numlock mode that works when Emacs operates in Graphics mode and also in Terminal (TTY) mode, despite different key behaviour. The key bindings in non-numlock mode provide access to useful keys for navigation and copy and paste operations.		
Key behaviour when Number Keypad is not num-locked See also: ∑ **Navigation**	**Not Numlocked**  		With PEL, right after pel-init is called, the number keypad is placed in non num-lock mode and 14 of the 18 keys take the special meaning described in the picture to the left. • In graphics mode the top-left-most key is bound to pel-toggle-mac-numlock to switch the keypad numlock mode on or off. • ⚠This key, however, is not bound when Emacs operates in terminal (TTY) mode. To toggle numlock in terminal mode (or also in graphics mode) use the **<f11> #** key sequence. • Four keys implement cursor functionality according to the normal cursor position. • The pel-home and pel-end commands are available in the left column. • The center key, the 5 key, is bound to recenter-top-bottom. • The pel-scroll-down & pel-scroll-up are available in the right column. • The big “0” key is mapped to yank • The “.” key is bound to delete-char. • The “-” key is pel-kill-delete-marked-or-whole-line • The “+”key is pel-copy-marked-or-whole-line
Key behaviour when Number Keypad is num-locked	**Numlocked**  		When PEL numlock mode is activated, the behaviour of the keys never to their default meaning. Note that PEL activates non-numlock mode by default: to activate the numlock mode you can use the **<f11> #** key sequence or press the top-left-most key (in graphics mode only): this executes pel-toggle-mac-numlock.
Toggle PEL Keypad Numlock mode	• **<f11> #** • **<clear>**	(**pel-toggle-mac-numlock**)	Toggle PEL numlock mode. ❖ With PC computers the top-left-most key is an explicit num-lock key.
Show PEL Numlock Mode state	**<f11> ? k #**	(**pel-show-mac-numlock**)	Display state of PEL Keypad num-lock mode.
PEL Copy Keypad Keys	The “+” keypad key can also be used for copy operation. The first of the 3 binding only works when PEL is in non numlock mode, but the other 2 bindings use modifier keys and the commands are bound regardless of the PEL numlock mode.		

Copy region or line at point
 	
★PEL Enhanced Key ★
Available in PEL non numlock mode
 	
See also: ∑ **Cut & Paste**
	• **M-w**
	• **<f11> = l**
	• **<f11> +**
	• **<kp-separator>**
		(**pel-copy-marked-or-whole-line**)	Flexible copy to kill ring.: copy visible region if any, otherwise copy current line to kill ring.
			The copy operation is controlled by the (optional) argument:
			• If N = 0: copy region (regardless of whether it is visible or not.
			• If a region is active/visible: copy the region's text.
			• if no region is active/visible copy N lines:
			  • If no argument, (N=1) copy current line.
			  • If N > 0: copy current line and N-1 following lines.
			  • If I < 0: copy current line and N-1 previous lines.
			All copied lines are complete.
			The copied text is saved in the kill-ring.
			All copy operations are performed by '**kill-ring-save**' (the original binding for that key).
			☛ Replaces standard binding to kill-ring-save which only copies region.
			☛In graphics mode: text is also copied to the OS clipboard.
			☛In terminal (TTY) mode the **keypad +** key is interpreted as <kp-separator> on macOS so this key is bound to the command (in non numlock mode)

Copy complete word at point
 	
See also:
• ∑ **Cut & Paste**
• ∑ **Text Modes**
	• **<f11> = w**
	• **<C-kp-add>**
		(**pel-copy-word-at-point**)	Copy word at point.
			• Shows the text copied in the echo area.
			☝ See table ∑ **Text Modes** for information on text modes that affects this.
			• The **<f11> t m ?** command displays the mode and the **<f11> t m** prefix allows modifications of the mode.
			• See changing the word mode to include or exclude some characters as word delimiters:
			  • subword-mode . To toggle that mode: **<f11> t m b**
			  • superword-mode . To toggle that mode: **<f11> t m p**

Copy complete symbol at point See also: ∑ **Cut & Paste**	• **<f11> = .** • **M-+** • **<M-kp-add>**	(**pel-copy-symbol-at-point**)	Copy symbol at point. Syntax depends on the syntax table for the buffer. • Shows the text copied in the echo area. ☝ The syntax of the symbol depends on the major mode used by the current buffer.

Operation	Keystroke	Function	Note
PEL Kill Keypad Keys	The "-" keypad key can also be used for kill operation. The binding only works when PEL is in non numlock mode.		

Kill/Delete marked region/line(s)
 	
★PEL Enhanced Key ★
 	
Available in PEL non numlock mode
 	
See also: **∑ Cut & Paste**
	• **C-w**
	• **<f11> - 1**
	• **<kp-subtract>**
	• **⌘-x**
		(**pel-kill-or-delete-marked-or-whole-line** &optional N)	Flexible region/whole-line kill/delete.
			• N=0 := kill region (active/visible or not)
			• Sign of N selects operation:
			  • positive := kill (default)
			  • negative := delete
			• Select text to delete/kill based on presence of region:
			  • if a region is marked: kill/delete region's text,
			  • if no region: kill/delete abs(N) lines, start at point.
			• If operation is to kill 1 line and the line is empty, then delete line instead of killing it.
			• **Scenarios:**
			  • With no arg:
			  • with no active/visible region: kill current line, but if line is empty delete it.
			  • with an active/visible region: kill region's text.
			  • With arg **0**: (**M-0 C-w**) : kill region's text, whether region is active/visible or not.
			  • With a non zero arg:
			  • With no region active/visible:
			  • With arg **-** : (**M- - C-w**) or (**C- - C-w**) : delete current line
			  • With arg **-1** : (**M- - 1 C-w**) or (**C- - 1 C-w**) : delete current line
			  • With arg **4**: (**M - 4 C-w**) : kill 4 lines including current one.
			  • With arg **-3**: (**M- - 3 C-w**) : delete 3 lines including current one.
			  • With a region active/visible:
			  • With any negative mark argument: delete the region's text.
			  • With no argument or any positive argument: kill the region's text.
			
			✂ This replaces the standard Emacs binding to kill-region which always kill text between mark and point, even when the region is not marked. When text is killed it is killed with kill-region, so it retains the filtering and kill ring text appending capabilities.
			
			☝ In graphics mode this also copies text to the OS clipboard.
			
			☝ With PEL in non-numlock mode, the "-" key on the number keypad is bound to this command.
			 On macOS in graphics mode only: PEL rebinds **⌘-x** from (kill-region) to this command, making this easy to use key able to perform more.

Implementation Notes	On macOS keyboards with number keypads, the keys available when Emacs runs in graphics mode differ from the keys available when Emacs runs in terminal mode.		
	"Emacs -Q" Keypad in Graphics mode <table><tr><td><clear></td><td>=</td><td><kp-divide></td><td><kp-multiply></td></tr><tr><td><kp-7></td><td><kp-8></td><td><kp-9></td><td><kp-subtract></td></tr><tr><td><kp-4></td><td><kp-5></td><td><kp-6></td><td><kp-add></td></tr><tr><td><kp-1></td><td><kp-2></td><td><kp-3></td><td rowspan="2"><kp-enter></td></tr><tr><td colspan="2"><kp-0></td><td><kp-decimal></td></tr></table>	When Emacs is running in graphical mode, the <clear> key is available and the number keys are distinguishable from the self-insert digits. The keys on the right-most row are also distinguishable and so is the key labelled <kp-decimal>.
	"Emacs -Q" Keypad in Terminal.app TTY mode <table><tr><td></td><td>=</td><td>/</td><td>*</td></tr><tr><td><kp-7></td><td><kp-8></td><td><kp-9></td><td><kp-subtract> -</td></tr><tr><td><kp-4></td><td><kp-5></td><td><kp-6></td><td><kp-separator> +</td></tr><tr><td><kp-1></td><td><kp-2></td><td><kp-3></td><td rowspan="2">RET</td></tr><tr><td colspan="2"><kp-0></td><td>M-O n</td></tr></table>	When Emacs is running in terminal (TTY) mode, • The <clear> key is not detectable. • The +, / and * keys only register as self-insert. The digit keys register as self-insert digits but if we bind the corresponding <kp-digit> key Emacs is able to handle it properly. • On the right-most row the <kp-subtract> is detectable, but the key below is detected as <kp-separator> instead of the normal <kp-add>. • Also, the <kp-decimal> is not detected, instead Emcas detects the key sequence **M-O n**. ⚠ Under some circumstances, still with unknown trigger, I have seen that Emacs looses the ability to detect <kp-subtract> and <kp-separator> in terminal mode. It could be a bug in PEL, in macOS or just some trigger I have not yet identified.