Number Keypad

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Operation	_	stroke	lomonto	Fund		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 (T mode, despite different key behaviour. The key bindings in non-numlock mode provide access to useful keys for navigation and copy and p operations. Not Numlocked							
Key behaviour when Number Keypad is not num-locked See also: Navigation		pel- toggle- mac- numlock	Not Nu	mlocked /	*	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-macnumlock to switch the keypad numlock mode on or off.		
		pel-home	forward- line -1	pel- scroll- down	pel-kill- or-delete- marked-or- whole-line	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.</f11>		
		left-char	recenter- top-bottom	right-char	pel-copy- marked-or- whole-line	 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. 		
		pel-end		delete-	<enter></enter>	 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. 		
		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 pel-					When PEL numlock mode is activated, the behaviour of the keys never to their default meaning.		
		toggle- mac- numlock	-	/ *	Note that PEL activates non-numlock mode by default: to activate the numlock mode you can use the <f11> # key sequence or press the to</f11>			
		7	8	9	-	left-most key (in graphics mode only): this executes pel-toggle-mac- numlock.		
		1	2	3	+			
			0		<enter></enter>			
Toggle PEL Keypad Numlock mode	• <f11> # (pel-toggle-mac-numlock) • <clear></clear></f11>					Toggle PEL numlock mode. With PC computers the top-left-most key is an explicit num-lock key.		
Show PEL Numlock Mode state	<f11></f11>	? k #	(pel-show	-mac-numlo	ock)	Display state of PEL Keypad num-lock mode.		
PEL Copy Keypad Keys						The first of the 3 binding only works when PEL is in non numlock mode, but the othend regardless of the PEL numlock mode.		
Copy region or line at point	• M-w (pel-copy-marked-or-whole-line) • <f11> = 1</f11>					Flexible copy to kill ring.: copy visible region if any, otherwise copy curren line to kill ring.		
★PEL Enhanced Key ★ Available in PEL non numlock mode See also: <u>© Cut & Paste</u>	• <f11: <kp-="" sepa.<="" th="" •=""><th>> + rator></th><th></th><th></th><th></th><th>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 (ITY) mode the keypad + key is interpreted as < kp-separator> on macOS so this key is bound to the command (in non numlock mode)</th></f11:>	> + rator>				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 (ITY) 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: • <u>> Cut & Paste</u> • <u>> Text Modes</u>	• <f11: • <c-k< th=""><th>> = w p-add></th><th>(pel-copy-</th><th>word-at-po</th><th>int)</th><th>Copy word at point. • Shows the text copied in the echo area. See table ∑ Text Modes for information on text modes that affects thi • The <f11> t m ? command displays the mode and the <f11> t is 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</f11></f11></f11></f11></th></c-k<></f11: 	> = w p-add>	(pel-copy-	word-at-po	int)	Copy word at point. • Shows the text copied in the echo area. See table ∑ Text Modes for information on text modes that affects thi • The <f11> t m ? command displays the mode and the <f11> t is 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</f11></f11></f11></f11>		
Copy complete symbol at point See also: <u>Sut & Paste</u>	• <f11: • M-+ • <m-k< td=""><td></td><td>(pel-copy-</td><td>symbol-at-</td><td>point)</td><td>Copy symbol at point. Syntax depends on the syntax table for the buffer. • Shows the text copied in the echo area. In the syntax of the symbol depends on the major mode used by the current buffer.</td></m-k<></f11: 		(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. In the syntax of the symbol depends on the major mode used by the current buffer.		

Operation	Keystroke		Fund	ction	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</kp- </f11>		-delete-ma	rked-or-whol						
Implementation Notes 	On macOS keyboa runs in terminal mo		oer keypads	, the keys ava	vailable when Emacs runs in graphics mode differ from the keys available when Emacs					
	# "Emacs -Q" Keypad in Graphics mode When Emacs is running in graphical mode, the <clear> key is available.</clear>									
	<clear:< td=""><td>-</td><td><kp- divide></kp- </td><td><kp- multiply></kp- </td><td>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>.</kp-decimal></td></clear:<>	-	<kp- divide></kp- 	<kp- multiply></kp- 	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>.</kp-decimal>					
	<kp-7></kp-7>	<kp-8></kp-8>	<kp-9></kp-9>	<kp- subtract></kp- 						
	<kp-4></kp-4>	<kp-5></kp-5>	<kp-6></kp-6>	<kp-add></kp-add>						
	<kp-1></kp-1>	<kp-2></kp-2>	<kp-3></kp-3>	<pre><kp-enter></kp-enter></pre>						
		kp-0>	p-0> <kp- decimal></kp- 							
		= / * • The +, / and * keys only re	 The <clear> key is not detectable.</clear> 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</kp-digit> 							
	<kp-7></kp-7>	<kp-8></kp-8>	<kp-9></kp-9>	<kp- subtract></kp- 	is able to handle it properly.					
	<kp-4></kp-4>	<kp-5></kp-5>	<kp-6></kp-6>	<kp- separator> +</kp- 	Also, the <kp-decimal> is not detected, instead Emcas detects the key sequence M-O n.</kp-decimal>					
		<kp-2></kp-2>	<kp-3></kp-3>	RET	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</kp-separator></kp-subtract>					
		kp-0>	-0> M-0 n		have not yet identified.					