## Number Keypad

Operation Keystroke Function Note											
Operation PEL Number Keypad			lements a ni			Mote mode that works when Emacs operates in Graphics mode and also in Terminal (TTY)					
Handling		espite differe	ent key beha	viour. The k		n non-numlock mode provide access to useful keys for navigation and copy and paste					
Key behaviour when Number Keypad is not num-locked		pel-	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					
See also: Navigation		toggle- mac- numlock	=	/	*	in the picture to the left.  • In graphics mode the top-left-most key is bound to pel-toggle-mac-					
		pel-home	forward- line -1	pel- scroll- down	pel-kill- or-delete- marked-or- whole-line	<ul> <li>numlock to switch the keypad numlock mode on or off.</li> <li>1. 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></li> </ul>					
		left-char	recenter- top-bottom	right-char	pel-copy- marked-or- whole-line	<ul> <li>Four keys implement cursor functionality according to the normal cursor position.</li> <li>The pel-home and pel-end commands are available in the left column.</li> </ul>					
		pel-end ye	forward- line	pel- scroll-up delete- char	<enter></enter>	<ul> <li>The center key, the 5 key, is bound to recenter-top-bottom.</li> <li>The pel-scroll-down &amp; pel-scroll-up are available in the right column.</li> <li>The big "0" key is mapped to yank</li> <li>The "." key is bound to delete-char.</li> <li>The "." key is pel-kill-delete-marked-or-whole-line</li> </ul>					
Kay hahayiaya whan Nymbar			Numl	ocked		The "+"key is pel-copy-marked-or-whole-line  When PEL number's mode is estimated the helperious of the keye power to					
Key behaviour when Number Keypad is num-locked		pel- toggle- mac- numlock	-	/		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 <fi1> # key sequence or press the top-</fi1>					
		7	8	9	-	left-most key (in graphics mode only): this executes pel-toggle-mac-numlock.					
		4	5	6	+						
		1	2	3	<enter></enter>						
			0	•	(enter)						
Toggle PEL Keypad Numlock mode	• <f11: • <clean< th=""><th></th><th>(pel-toggle</th><th>e-mac-num</th><th>lock)</th><th>Toggle PEL numlock mode.  Toggle PEL numlock mode.  Toggle PEL numlock mode.  Toggle PEL numlock mode.  Toggle PEL numlock mode.</th></clean<></f11: 		(pel-toggle	e-mac-num	lock)	Toggle PEL numlock mode.					
Show PEL Numlock Mode state	<f11></f11>			-mac-numlo		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 other id regardless of the PEL numlock mode.					
★PEL Enhanced Key ★ Available in PEL non numlock mode  See also: <u>▼ Cut &amp; Paste</u>	• <f11> = 1 • <f11> + • <kp- separator=""></kp-></f11></f11>					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)</kp->					
Copy complete word at point  See also:	• <f11: • <c-kj< th=""><th></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 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</f11></f11></f11></f11></th></c-kj<></f11: 		(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 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</f11></f11></f11></f11>					
Copy complete symbol at point  See also:  Cut & Paste	• <f11: • M-+ • <m-kj< th=""><th></th><th>(pei-copy-</th><th>symbol-at-<sub>l</sub></th><th>point)</th><th>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.</th></m-kj<></f11: 		(pei-copy-	symbol-at- <sub>l</sub>	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.					

<u>Operation</u>	<u>Keystroke</u>		Fund	ction		<u>Note</u>
PEL Kill Keypad Keys	The "-" keypad key o	an also be u	sed for kill o	operation. Th	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&gt; • ℋ-x</kp- </f11>	can also be used for kill operation. The binding (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 -1: (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 -3: (M= - 3 C=w): kill 4 lines including current one.  With arg -3: (M= - 3 C=w): delete 3 lines including current one.  With arg -3: (M= - 3 C=w): delete 3 lines including current one.  With arg -3: (M= - 3 C=w): delete 4 lines including current one.  With arg -3: (M= - 3 C=w): delete 5 lines including current one.  With arg -3: (M= - 3 C=w): delete 5 lines including current one.  With arg -3: (M= - 3 C=w): delete 5 lines including current one.  With arg -3: (M= - 3 C=w): delete 5 lines including current one.  With arg -3: (M= - 3 C=w): delete 5 lines including current one.  With arg -3: (M= - 3 C=w): delete 5 lines including current one.  With arg -3: (M= - 3 C=w): delete 5 lines including current one.  With arg -3: (M= - 3 C=w): delete 7 lines including current one.  With arg -3: (M= - 3 C=w): delete 7 lines including current one.  With arg -3: (M= - 3 C=w): delete 7 lines including current one.  With a region active/visible:  In graphics mode this also copies text to the OS clipboard.  In graphics mode this also copies text to the OS clipboard.  In graphics mode this also copies text to the OS clipboard.  In graphics mode this also copies text to the OS clipboard.
Implementation Notes <b></b>	On macOS keyboard		er keypads	, the keys ava	ailable whe	this command, making this easy to use key able to perform more.  en Emacs runs in graphics mode differ from the keys available when Emacs
		e. acs-Q"Keyp	ad in Graphic	cs mode		When Forces is a major in any philaders do the colors have in a will be had
	<clear></clear>	-	<kp- divide&gt;</kp- 	<kp- multiply&gt;</kp- 		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>.</kp-decimal></clear>
	<kp-7></kp-7>	<kp-8></kp-8>	<kp-9></kp-9>	<kp- subtract&gt;</kp- 		decimals.
	<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>	<kp-enter></kp-enter>		
		-Q" Keypad ir	decimal>	on TTV mode		When Emacs is running in terminal (TTY) mode,  • The <clear> key is not detectable.</clear>
	Emacs					
	<kp-7></kp-7>	= <kp-8></kp-8>	/ <kp-9></kp-9>	* <kp- subtract=""></kp->		<ul> <li>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.</kp-digit></li> <li>On the right-most row the <kp-subtract> is detectable, but the key</kp-subtract></li> </ul>
	<kp-4></kp-4>	<kp-5></kp-5>	<kp-6></kp-6>	<kp- separator&gt;</kp- 	_	below is detected as <kp-separator> instead of the normal <kp-add>.  • Also, the <kp-decimal> is not detected, instead Emacs detects the key sequence M-O n.  ⚠ With Emacs running on macOS in terminal mode hitting the key where <clear> is located can make Emacs loose its ability to detect the <kp-subtract> and <kp-separator> keys. If this happens type</kp-separator></kp-subtract></clear></kp-decimal></kp-add></kp-separator>
	<kp-1></kp-1>	<kp-2></kp-2>	<kp-3></kp-3>	RET		
	<kj< td=""><td colspan="2">p-0&gt; M-0 n</td><td></td><td></td><td>the <clear> key again.</clear></td></kj<>	p-0> M-0 n				the <clear> key again.</clear>