## **Keyboard Macros**

<u>Description</u>	Keystroke	Function	Note
Keyboard Macros			e of keys and then re-execute that same sequence later. s a very useful tool to speed up editing.
PEL Customization	This holds the followin  • pel-kbmacro-prom  PEL supports the followin	g user options:  pts: if t the keyboard macro recome gexternal packages that extendinal package PEL downloads package.	<f11> k <f2> to quickly access the customization buffer for the group. order will prompt before overriding an existing keyboard macro. Off (nil) by default. d keyboard macro features: s, installs and activates it when the pel-use-centimacro user option is set to t. s, installs and activates it when the pel-use-elmacro user option is set to t. s, installs and activates it when the pel-use-emacros user option is set to t.</f2></f11>
Open this PDF file. See also: <u>▼ Help/Info</u>	<f11> k <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the <u>Neyboard Macros</u> local PDF. With prefix argument (like <b>C-u</b> or <b>M</b> ) open the remote GitHub raw PDF instead. If <b>pel-flip-help-pdf-arg</b> is set it's the other way around.
<u>▼ Customize</u> PEL support for keyboard macros	• <f11> k <f2> • <f11> k e <f2> • <f11> k 1 <f2></f2></f11></f2></f11></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL keyboard macro external package support: centimacro, emacros, elmacro.  • If OTHER-WINDOW is non-nil (use C-u), display in other window.
∑ Customize Emacs support for keyboard macros	<f11> k <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize the Emacs keyboard macro external package support: kmacro, centimacro.
Customize emacros package	<f11> k e <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize the Emacs keyboard macro external package support: emacros.
∑ Customize elmacro package	<f11> k 1 <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize the Emacs keyboard macro external package support: elmacro.
Common C-x C-k prefix	<ul> <li>Several of the keyboard macros commands share the same C-x C-k prefix.</li> <li>Once you have typed the C-x C-k prefix of one of these commands, you can type just the last part for executing the others.</li> <li>For example you could type C-x C-k C-p C-k C-n C-k to exit the previously defined keyboard macro and then execute the last defined keyboard macro.</li> <li>Also since you can bind macros to single characters in the range [0-9] and [A-Z] these can also be executed inside that string of characters.</li> </ul>		
Record & Play		record and play keyboard macro to stop recording and to execut	os, instead of the older $C-x$ ( and $C-x$ ) bindings. These are easier to type and easier to use e the macro.
Start Recording	• <f3></f3>	(kmacro-start-macro-or- insert-counter ARG) (pel-kmacro-start-macro- or-insert-counter ARG)	Record subsequent keyboard input, defining a keyboard macro.  The commands are recorded even as they are executed.  While already defining a macro (with a previous F3), typing F3 inserts the current value of the keyboard macro counter into the buffer, and increments the counter by 1.
End Recording or call last	• C-x ( is an older com	nacro-prompts user-option to t	t, the command will prompt if a keyboard macro already exists and would be overwritten.  r numeric 0 to prevent this prompt and allow overwriting already defined macro.  Ends macro recording done with <f3>. Typing <f4> again runs the last recorded macro.</f4></f3>
macro	stopped with C-g (or C	- <break> on DOS/Windows)!</break>	This is the most convenient way to replay a recently recorded macro. Typing C-u <f4> runs the second macro in the ring.  mes to execute the macro.  If N is 0, the macro will run forever until reaching and error or During that time the display may not even be updated!! cording and cannot be used to replay the macro, unlike <f4> which can be used to replay.</f4></f4>
Execute macro at the head of the macro ring	C-x C-k C-k	(kmacro-end-or-call-macro-repeat ARG)	Use this instead of <f4> to end a macro definition or to execute the <i>current</i> macro (the one at the top of the keyboard macro ring).  • It's advantageous if you want to execute another command with the C-x C-k prefix right after: you won't have to repeat the prefix, so you could type C-k again, C-n or C-p or one of the other commands with the same prefix.</f4>
Allow overwrite of recorded macro	<f11> k k</f11>	(pel-forget-recorded- keyboard-macro)	Forget that a keyboard macro was recorded by <f3>.  • Does not delete the macro from the keyboard macro ring.</f3>
Apply macro to selected area (region)	C-x C-k r	(apply-macro-to-region- lines TOP BOTTOM &optional MACRO)	Apply last defined keyboard macro to each line of a region.  It does it line by line: moves point to the beginning of the line, then executes the macro.
Name & Save to reuse	Use this to create and use <b>several</b> keyboard macros. Use one of the following 2 quick methods to store and re-use keyboard macros:  • Bind the latest keystroke macro defined to a single key ([0-9] or [A-Z]). Later invoke it with 'C-x C-k prefix', where prefix is that key.  • Assign a name to the latest keyboard macro defined. Later invoke it with 'M-x name', where name is the selected name.		
Bind the most recent defined macro	C-x C-k b	(kmacro-bind-to-key ARG)	Emacs will prompt. Use keys [0-9A-Z].  Emacs then binds the last defined keystroke macro to the corresponding command C-x  C-k 0 through 9 and capital A to Z.  To re-run the macro: type C-x C-k followed by the character that identifies the macro.  For example: C-x C-k 0 would execute macro bound to 0.  These bindings do not persist after Emacs closes.
Name last defined macro	C-x C-k n <name></name>	(kmacro-name-last-macro SYMBOL)	The name can be any string as long as it does not conflict with the name of an existing function (in which case it won't be accepted).  A good convention is to use underscores or period in the names since most of the emacs functions do not use them. For example, "km_" or "km." as prefix.  To execute a name keyboard macro, use M-x <name>  The names do not persist after Emacs closes. If you want to retain the named keyboard macro convert it into Lisp code with insert-kbd-macro in a file and save that file.</name>
Insert Lisp definition in buffer	<f11> k i</f11>	(insert-kbd-macro MACRONAME &optional KEYS)	Insert in buffer the definition of kbd macro MACRONAME, as Lisp code.  MACRONAME should be a symbol.  Optional second arg KEYS means also record the keys it is on (this is the prefix argument, when calling interactively).  This Lisp code will, when executed, define the kbd macro with the same definition it has now. If you say to record the keys, the Lisp code will also rebind those keys to the macro. Only global key bindings are recorded since executing this Lisp code always makes global bindings.  To save a kbd macro, visit a file of Lisp code such as your '~/.emacs', use this command, and then save the file.
Name last defined macro		(name-last-kbd-macro SYMBOL)	An older implementation, similar to <b>kmacro-name-last-macro</b> but which does not put the 'kmacro property to the symbol. I suspect this will eventually go away or become an alias for the other one. Use <b>kmacro-name-last-macro</b> instead.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Keyboard Macro Ring	The macro at the head of the macro ring can be executed with <f4> and C-x C-k n will name it.  The maximum number of macros in the keyboard macro ring is determined by the customizable variable 'kmacro-ring-max'.</f4>		
Show keyboard macro ring status	<f11> k ?</f11>	(pel-kmacro-ring-show- status &optional PRINT-IN- BUFFER)	Show the 'kmacro-ring' status information. Print a message unless PRINT-IN-BUFFER is non-nil in which case it prints the information in a dedicated buffer.
Rotate the macro ring to the next (defined earlier) macro	C-x C-k C-n	(kmacro-cycle-ring-next &optional ARG)	<ul> <li>Move to next keyboard macro in keyboard macro ring.</li> <li>Displays the selected macro in the echo area.</li> <li>The ARG parameter is unused.</li> <li>You can continue to rotate the ring with a single C-n or C-p until the desired macro is at the head of the ring, and then execute it with a single C-k</li> </ul>
Rotate the macro ring to the previous (defined later) macro	C-x C-k C-p	(kmacro-cycle-ring- previous &optional ARG)	<ul> <li>Move to previous keyboard macro in keyboard macro ring.</li> <li>Displays the selected macro in the echo area.</li> <li>The ARG parameter is unused.</li> <li>You can continue to rotate the ring with a single C-n or C-p until the desired macro is at the head of the ring, and then execute it with a single C-k</li> </ul>
Delete current macro from Keyboard macro ring	C-x C-k C-d	(kmacro-delete-ring-head &optional ARG)	Delete current macro from keyboard macro ring.  • The ARG parameter is unused.
Keyboard macro counter	A counter is associated with each keyboard macro. A macro can be defined to insert the integer value of the counter in the text. While defining the macro, you can type either <f3> or C-x C-k C-i to insert the counter. You can also define a way to format the counter: use C-x C-k C-f before defining the macro. With these facilities you can easily create a macro to number lines. For example, consider the following commands:  • C-x C-k C-f %02d • <f3> C-a <f3> . SPC <f4>  • That will create lines with: "00.", "01.", "02.", etc By default the counter start at 0. If you want another value, initialize it to another value specify it as a numeric argument to <f3>.</f3></f4></f3></f3></f3>		
Insert current counter & increment by 1	<f3></f3>	(kmacro-start-macro-or- insert-counter ARG)     (pel-kmacro-start-macro- or-insert-counter ARG)	While defining a macro typing <f3> inserts the macro counter in the buffer.</f3>
Insert keyboard macro counter value in the buffer, then increment it by 1 (or ARG)	C-x C-k C-i	(kmacro-insert-counter ARG)	Insert current value of 'kmacro-counter', then increment it by ARG.  Interactively, ARG defaults to 1.  With C-u, insert the previous value of 'kmacro-counter', and do not increment the current value. The previous value of the counter is the one it had before the last increment.  Can be typed while defining a macro, but also outside.
Set keyboard macro counter	C-x C-k C-c	(kmacro-set-counter ARG)	Set the value of ' <i>kmacro-counter</i> ' to ARG, or prompt for value if no argument. With <b>C-u</b> prefix, reset counter to its value prior to this iteration of the macro.
Add prefix arg to the keyboard macro counter	C-x C-k C-a	(kmacro-add-counter ARG)	Add the value of numeric prefix arg (prompt if missing) to ' <i>kmacro-counter</i> '. With C-u, restore previous counter value.
Specify the format for inserting the keyboard macro counter	C-x C-k C-f	(kmacro-set-format FORMAT)	Set the format of 'kmacro-counter' to FORMAT. See formatting strings.  This allows controlling the string inserted when the macro counter is inserted. The text provided should contain a format entry for one integer. The enclosing double quotes are ignored.  The format string must be defined before defining the macro.
Macros with variations	You can force macro exec at that point with <b>C-1</b> , <b>C-</b>		Use C-x q during macro definition to identify that point. When the macro runs, it will prompt
Insert a query in a macro	C-x q	(kbd-macro-query FLAG)	Used when defining a macro to force a query when the macro will be executed.  • With prefix argument (C-u), enters recursive edit, reading keyboard commands even within a kbd macro. You can give different commands each time the macro executes.  • Without prefix argument, asks whether to continue running the macro. Your options are:  • y Finish this iteration normally and continue with the next.  • n Skip the rest of this iteration, and start the next.  • RET Stop the macro entirely right now.  • C-1 Redisplay the screen, then ask again.  • C-r Enter recursive edit; ask again when you exit from that.  Later during execution of that macro, use C-M-c to exit the recursive edit.
Editing macros	You can edit the content of a keyboard macro with the following commands. They format the macro definition in a buffer and enter a specialized mode to edit it. Type <b>C-c C-c</b> to complete the editing.  These work better in <b>graphics</b> mode; in terminal mode the cursor and meta keys are recorded as escape sequences and that's what is shown in the key lossage. It makes the macro actions more difficult to read.		
Edit the last defined keyboard macro	С-ж С-k С-е	(kmacro-edit-macro-repeat &optional ARG)	Edit last keyboard macro.
Edit the last defined keyboard macro	C-x C-k RET	(kmacro-edit-macro &optional ARG)	As edit last keyboard macro, but without kmacro-repeat property.
Edit a previously defined macro name	C-x C-k e <name></name>	(edit-kbd-macro KEYS &optional PREFIX FINISH- HOOK STORE-HOOK)	<ul> <li>Edit a keyboard macro.</li> <li>At the prompt, type any key sequence which is bound to a keyboard macro.</li> <li>Or, type C-x e or RET to edit the last keyboard macro, C-h 1 to edit the last 300 keystrokes as a keyboard macro, or M-x to edit a macro by its command name.</li> <li>With a prefix argument, format the macro in a more concise way.</li> </ul>
Edit the last 300 keystrokes as a keyboard macro	C-x C-k 1	(kmacro-edit-lossage)	Edit most recent 300 keystrokes as a keyboard macro. No mouse click allowed in the last 300 events for this to work.
Stepwise macros editing	You can also interactively	execute and edit a keyboard m	acro with the following command.
Stepwise Replay/Edit	C-x C-k SPC	<ul> <li>y execute current co</li> <li>n, d skip &amp; delete current</li> <li>f skip current comm</li> <li><tab></tab></li> <li>c continue execution</li> <li>c ksip and deletes re</li> <li>q, C-g cancel editing, igne insert/execute follo</li> <li>I insert/execute one</li> <li>r replace current cor</li> <li>R read &amp; execute key</li> <li>a append &amp; execute</li> </ul>	nand (don't delete) ommands and all similar in sequence on without further editing est of macro, terminate editing and replace

<u>Description</u>	<u>Keystroke</u>	Function	Note	
-				
<u>centimacro</u>	Requires the <u>centimacro</u> external package PEL downloads, installs and activates it when the <b>pel-use-centimacro</b> user option is set to t.  • Quick access to the pel-kmacro group is available via <f11> k <f2> .</f2></f11>			
Bind other keys to keyboard	<ul> <li>The centimacro package provides the ability to create keyboard macros that are bound to keys other than <f4>.</f4></li> <li>To create a keyboard macro binding you use the centi-assign command, identify the key that will playback the keyboard macro, type the keys that</li> </ul>			
macros.	constitute the keyboard	d macro and terminate it by the	same playback key.	
	<ul> <li>The bindings can overr restore-all command.</li> </ul>	ide another key binding and the	centimacro bindings can be deleted, restoring the original bindings by executing the centi-	
	The centimacro binding	gs are not persistent: they are no	ot kept once Emacs is closed. sign. It's a problem for PEL as PEL uses that key as the repeat key.	
			enti-assign-key user option to identify the default key for centi-assign and reassigns the key	
	on startup. By defau	ult it uses the <c-f5> key inste</c-f5>	ead. But also not the other key binding below, which is always available with PEL.	
			gn-key user option unchanged to <f5> and control the key binding with pel-centi-assign- to repeat and uses pel-centi-assign-key to specify the key binding used for centi-assign.</f5>	
	0		nly once you invoked a centimacro command through one of the the <f11> k keys.</f11>	
Record a keyboard macro	• <c-f5></c-f5>	(centi-assign)	Record a keyboard macro for a specified KEY.	
bound to a specified key	• <f11> k M-=</f11>		<ul> <li>Read a KEY and start recording a keyboard macro for it.</li> <li>Pressing KEY again stops recording and assigns the macro to KEY.</li> </ul>	
See also: <b>Keys - Fn</b>			Aborts if KEY belongs to a minor mode.     Use 'centi-summary' to list bound macros.	
			Use 'centi-restore-all' to un-bind macros and restore the old key bindings.	
			can be used with PEL without disrupting PEL key bindings. The available keys include:	
		, <m-f7> , <c-m-f7> , &lt; , <m-f8> , <c-m-f8> , &lt;</c-m-f8></m-f8></c-m-f7></m-f7>		
	• <c-f9></c-f9>	, <m-f9> , <c-m-f9> , &lt;</c-m-f9></m-f9>		
	• <c-f112 • <c-f122< td=""><td>&gt;, <m-f11>, <c-m-f11> &gt;, <c-m-f12></c-m-f12></c-m-f11></m-f11></td><td></td></c-f122<></c-f112 	>, <m-f11>, <c-m-f11> &gt;, <c-m-f12></c-m-f12></c-m-f11></m-f11>		
			b benchmark, but this key can easily be spared. The <m-f12>, <m-s-f11> and <m-s-< td=""></m-s-<></m-s-f11></m-f12>	
		pecause PEL uses <m-f11> are function key and control key ca</m-f11>	an be used in terminal mode, but they can be used in graphics mode.	
Show all keyboard macros	<f11> k M-?</f11>	(centi-summary)	Show a summary of bound macros created by centi-assign.	
created by centi-assign		( <b>!</b> : <b>!</b>	Unkind all harmed as a constant by a set of a size of a set of a s	
Unbind all keyboard macros created by centi-assign	<f11> k M-DEL</f11>	(centi-restore-all)	Unbind all bound macros created by centi-assign, restoring the previous key bindings.	
elmacro			rnloads, installs and activates it when the <b>pel-use-elmacro</b> user option is set to <b>t</b> .	
Generate Emacs Lisp code			<f11> k <f2>. The elmacro customization group that provides a set of user options</f2></f11>	
from recorded macros or command history	that can help the generation of Emacs Lisp code.			
Command history	<ul> <li>The elmacro package provide the ability to generate Emacs Lisp commands from the recorded keyboard macros.</li> <li>Once the elmacro-mode is active, you can show and save generated Emacs Lisp code for keyboard macros recorded while elmaco-mode is active.</li> </ul>			
	This help you see what is being executed by the keyboard macro, specially in terminal mode. You can also save the buffer in a file if you want to use the command permanently.			
	PEL provides the following	a key hindings. The key hinding	g for elmacro-mode is available when <b>pel-use-elmacro</b> is <b>t</b> .	
			o-mode has been activated once.	
Toggle activity recording	<f11> k l l</f11>	( <b>elmacro-mode</b> &optional ARG)	Toggle emacs activity recording (elmacro mode).  • With a prefix argument ARG, enable elmacro mode if ARG is positive, and disable it	
			otherwise.	
Generate Emacs Lisp code for the last executed	<f11> k l c</f11>	(elmacro-show-last- commands &optional	Show the last COUNT commands as Emacs lisp code.  • COUNT default is 'elmacro-show-last-commands-default' user option.	
commands		COUNT)	You can also modify this number by using a numeric prefix argument or by using the universal argument, in which case it'll ask for how many in the minibuffer.	
			The command writes the code in a * elmacro - last-X-commands * buffer.  This is basically a better version of 'kmacro-edit-lossage'.	
Generate Emacs Lisp code	<f11> k l m</f11>	(elmacro-show-last-macro	Show the last macro as emacs lisp with NAME.	
for the commands executed by the last invoked	1227 11 2 11	NAME)	Prompts for a Emacs Lisp function name.  It opens a * elmacro -last-macro * buffer and write the Emacs Lisp there.	
keyboard macro.			Check the generated code, there's often several lines after the (interactive) line that	
			represent past commands that you will not want. Just erase the lines.	
Clear the list of recorded commands	<f11> k l DEL</f11>	(elmacro-clear-command- history)	Clear the list of recorded commands.	
emacros			vnloads, installs and activates it when the <b>pel-use-emacros</b> user option is set to <b>t</b> .	
Store keyboard macros in		I-kmacro group is available via cage you can store recording of	<f11> k <f2>.  keyboard macros associated to names. The scope of the macros loaded from files is</f2></f11>	
files associated with major	restricted to the mode	of the buffer from which you loa	d them. You can also store them in global and local files. The definitions stored in global files a definitions stored in local files are accessible while editing files in the same directory.	
mode and location of edited files. are accessible for all buffer of the specified emacros customization group allows sele-			while cuting the same uncomine with cutting the same uncomy.	
	emacros-global-dirpa	th: directory where global mac	ros definitions are stored. acros definition files are stored inside a sub-directory of specified name (defaults to	
			attored in a file specific to a major mode with a name that identifies the major mode.	
Load keyboard macros definitions for the current	<f11> k e L</f11>	(emacros-load-macros)	Load existing keyboard macros for the current mode.  • Attempt to load from the global directory and the current local directory if the files exist	
mode from files.			for the current mode.	
List names of recentled by	Z£115 h = /	(omagras show	Remember the loaded directories inside 'emacrosalready-loaded-dirs'.  Picplay the names of the khd, macros that are currently defined.	
List names of recorded key macros	<f11> k e /</f11>	(emacros-show-macro- names ARG)	Display the names of the kbd-macros that are currently defined.  • With prefix ARG, display macro names in a single column instead of the usual two	
Show recorded less many	25115 5 - 0	(omagrae show recers)	column format.	
Show recorded key macro names and their code	<f11> k e ?</f11>	(emacros-show-macros)	Displays the kbd-macros that are currently defined.	
define emacros	Use the following comma	nds to name the last defined ke	yboard macro	
Assigns a name for the last keyboard macro created	<f11> k e =</f11>	(emacros-name-last-kbd-	Assigns a name to the last keyboard macro defined.  • Accepts letters and digits as well as " " and "-".	
with <f3> and <f4></f4></f3>		macro-add &optional ARG)	Requires at least one non-numerical character.	
			<ul> <li>Prompts for a choice between local and global saving.</li> <li>With ARG, prompt the user for the name of a file to save to. Default is the last location</li> </ul>	
			that was saved or moved to in the current buffer.	
execute emacros	Use the following commands to execute a named macro that has already been defined or loaded.  • These commands are only available once one of the first 4 commands above has been executed.			
Execute keyboard macro by		(emacros-auto-execute-	Prompts for the name of a macro and execute when a match has been found.	
name		named-macro)	Accepts letters and digits as well as "_" and "-".  Backspace acts normally, <b>C-g</b> exits, <b>RET</b> does rudimentary completion.	
			Default is the most recently saved, inserted, or manipulated macro in the current buffer.	

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Execute keyboard macro by name read from mini buffer. Supports completion.	• C-c e • <f11> <f4> • <f11> k e e</f11></f4></f11>	(emacros-execute-named-macro)	Prompts for the name of a macro and execute it. Does completion.  Default is the most recently saved, inserted, or manipulated macro in the current buffer.
manage emacros	Use the following commands to reset the macros to their original meaning, delete, and rename macros.  The macros can also be moved from local or global scope or vice versa.  These commands are only available once one of the first 4 commands above has been executed.		
Erases all keyboard macros and reload only the ones for the current mode.	<f11> k e R</f11>	(emacros-refresh-macros)	Erases all macros and then reloads for current buffer.  When called in a buffer, this function produces, as far as kbd-macros are concerned, the same situation as if Emacs had just been started and the current file read from the file system.
Delete a recorded keyboard macro from file.	<f11> k e DEL</f11>	(emacros-remove-macro)	Remove macro from current session and from current macro files.  The macroname defaults to the name of the most recently saved, inserted, or manipulated macro in the current buffer.
Rename a keyboard macro	<f11> k e r</f11>	(emacros-rename-macro)	Renames macro in macrofile(s) and in current session.  Prompts for an existing name of a keyboard macro and a new name to replace it.  Default for the old name is the name of the most recently named, inserted, or manipulated macro in the current buffer.
Move definition of keyboard macro between local and global files.	<f11> k e m</f11>	(emacros-move-macro)	Move macro from local to global macro file or vice versa.  Prompts for the name of a keyboard macro and a choice between "from local" and "from global", then moves the definition of the macro from the current local macro file to the global one or vice versa.  Default is the name of the most recently saved, inserted, or manipulated macro in the current buffer.

## Keyboard Macros — References

Topic & Link	Description		
Emacs Keyboard Macros			
GNU Emacs manual - Keyboard Macros			
GNU Emacs manual - Keyboard Macros - Basic Usage			
GNU Emacs - naming, saving macros			
GNU Emacs - macros with variations			
GNU Emacs - keyboard macro counter			
GNU Emacs- editing keyboard macro			
Emacs Wiki - Keyboard Macros			
Emacs Wiki - Keyboard Macros Tricks			
Code example 2 - adding more keys to run macros			
Introduction - very basic			
Example @ Ergoemacs			
Stepwise Editing a Keyboard Macro			
Building macros with pause, prompts, etc			
Define, name and run keyboard macros			
Extra Notes	2 elisp files implement these functions: macros.el and kmacro.el . The latter appears to be newer and provides more functionality. For example: it provides the (kmacro-name-last-macro SYMBOL) similar to the (name-last-kbd-macro SYMBOL). It's almost the same code except that it puts the macro property to the symbol, which the older function does not do. I would think that these 2 files should be merged in future versions of Emacs to reduce code bloat.		
External Packages	The following external packages extend keyboard macro support		
centimacro	Provides the ability to record keyboard macros assigned to another key (instead of F4).		
emacros	Provides the ability to store keyboard macros inside files.		
elmacro	Provides ability to generate Emacs Lisp code from recorded macro or last executed commands.		