Lispy — Short & Sweet Semantically Aware Lisp Editing



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Description	Key	Function	Note
<u>Lispy</u> : Context-based			ring to Emacs for Lisp-like languages with very few keys when point is before (or after) "paren". n point (the cursor) is before the left, opening, paren or after the right, closing paren, the keys are
modal editing of	interpreted as list This table lists the lis		nks to the Lispy function Reference for each one.
Lisp code	This requires the	lispy external package.	PEL downloads, installs and activates lispy when the pel-use-lispy user option is set to t .
Ref: Lispy function			s a file of a specified mode, include the major mode in the PEL user-option pel-modes-activating-lispy . major mode by default. That's OK to learn lispy by activating it for testing. But once you learn and are
Reference			activate when the file is opened automatically by adding the major mode in that list.
<u>▼ Customize</u> PEL use of	<f11> <f2></f2></f11>	(pel-cfg-pkg-lisp	Prompt to customize:
Lispy and Lispy itself.	SPC M-L	&optional OTHER- WINDOW)	PEL lispy support for Emacs Lisp and Common Lisp lispy itself.
			If OTHER-WINDOW is non-nil (use C-u), display in another window.
Toggle <u>Lispy</u> mode See also:	• <f12> M-L • <m-f12> M-L</m-f12></f12>	(pel-lispy-mode &optional ARG)	Toggle lispy-mode on/off. Lispy is a minor mode for navigating and editing LISP dialects. Requires lispy external package. PEL downloads, installs and configure it when pel-use-lispy user
• <u>\$\mathbb{B}(\tau\) - Common Lisp</u>	<f11> SPC 1</f11>		option is set to t. Please read the information on lispy web site.
• ⊈ৠt - Emacs Lisp	M-L		pel-lispy-mode calls lispy-mode but also prepares hydra, loaded dynamically with PEL.
0	I I a a Alaa da Harridaan I aa		Set the pel-modes-activating-lispy user-option to activate lispy automatically for major modes.
Getting Code Help See also: Fleip/Info			the current window or into a help buffer. See the <u>Yelp/Info</u> table for more help commands available even when lispy mode is off.
Describe function at	C-1	(lispy-describe-inline)	Display documentation of current Lisp function (or variable if marked) as a pop-up overplayed window.
point			If docstring is too long it is displayed inside a *lispy-help* buffer.
See Also: <u>Nelp/Info</u>	<f12> 1</f12>		The <f12> 1 key can be used even when lispy mode is not active.</f12>
Describe function arguments	C-2	(lispy-arglist-inline)	Show the argument list of current function.
	<f12> 2</f12>		The <f12> 2 key can be used even when lispy mode is not active.</f12>
Describe function/ variable	xh	(lispy-describe)	A shorthand for describe-function or describe-variable, showing help in the *Help* buffer. • If you want to call describe-variable, you should mark the symbol first.
Show top level form	xw	(lispy-show-top-level)	Show top-level form containing point on mode-line. Eg. inside a defun, show defun name & args.
Numeric		· · · /	d as straight numbers: there's no need to use M-2 to provide the argument 2, just type 2.
Arguments in Lispy	For example just	t type two characters 4, f	ollowed by c to create 4 clones of the following S-expression (sexp).
		nly when point is just befons, such as the] and [ke	ore (or after). You can also type numerical arguments with the Meta key prefix for some commands in eys.
Miscellaneous	· · · · · · · · · · · · · · · · · · ·		ise very early when using lispy.
undo	u	(special-lispy-undo)	Deactivate region and 'undo'.
View: center current sexp	v	(special-lispy-view)	Recenter current sexp to be on the first line of the window. When called twice in a row, recenter back to the
	·	(openial nopy non)	original position.
Multiple Cursors			allowing concurrent visible operations on several spots in the current window. ckage. PEL activates it when pel-use-multiple-cursors is set to t.
See: <u>See: See: See: See: See: See: See:</u>			
Set multiple cursors Add extra cursor(s)	xm	(lispy-cursor-ace)	 Add a cursor at a visually selected paren using an <u>Avy</u> target. Only one cursor can be added with local binding. Any amount can be added with a global binding.
			Return to single cursor with C-g
Add cursors down See: <u>∑ Cursor</u> .	C-7	(lispy-cursor-down ARG)	Add ARG cursors using 'lispy-down'. I found that using the multi-cursor commands directly works well, and often better, than this command.
	<f12> 7</f12>		<u> </u>
Insert		sert and modify whitespa	
Context sensitive space insertion	<space></space>	(lispy-space ARG)	Insert one space, with position depending on ARG: If ARG is 2, amend the current list with a space from current side. If it is 3, switch to the different side beforehand.
			• If jammed between parens, "((" unjam: "((".
			ace (after wrapping a sexp, for example), do the opposite and delete the extra space, "(foo)" to "(foo)".
	o <space></space>	(special-lispy-other- space)	Alternative to 'lispy-space': leave point on the other side.
Insert a new indented line	• C-m	(lispy-newline-and-	Insert new line and indent next line appropriately
Inport a salar	• RET	indent-plain)	Inport a calculation and proceeds it by a cases in alternations where a term and the con-
Insert a colon	:	(lispy-colon)	Insert a colon and precede it by a space in situations where a tag could be written.
Insert a caret		(lispy-hat)	Insert a caret and precede it by a space in required situations. Used for Clojure metadata marker.
Commenting	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	key that comments the se clock is marked both com	exp the follows point, as opposed to the standard M-;, also available, which creates a comment at the end mands comment it.
Inserting comment	;	(lispy-comment	Comment ARG sexps.
Incorp mains	The following commu	&optional ARG)	ters or quotes. They can be typed anywhere.
Insert pairs	,		
Insert a paren pair ofter	((lispy-parens ARG)	Insert a () parenthesis pair, leave point inside.
Insert a paren pair after end of current list	C-8	(lispy-parens-down)	Exit the current S-expr and insert a () parenthesis pair , leave point inside.
Insert []	<f12> 8</f12>	(lispy-brackets ARG)	Insert a [] pair, leave point inside.
Insert { }	}	(lispy-braces ARG)	Insert a [] pair, leave point inside. Insert a { } pair, leave point inside.
Insert ()	{	(lispy-guotes ARG)	Insert a pair of guotes around the point. When the region is active, wrap it in guotes instead.
		(op) quotes Aila)	When inside string, if ARG is nil quotes are quoted, otherwise the whole string is unquoted.
Delete	1 1		nmands, but does not bind the <deletechar></deletechar> key (the 🖾 key, available as Fn 🖾 on Apple laptops).
See also:		nmands to delete the follo	wing list commands: sion at point. It deletes a complete list when point is on the parens.
Oce also. <u>// Out α Paste</u>			te list enclosing point as long is inside the list and not on a parens. See <u>Sum & Paste</u>
Delete sexp forward	C-d	(lispy-delete ARG)	Delete ARG chars or sexps depending on context. Delete sexp, string when point is at the beginning of the sexp or string. When point is at end of sexp/string, delete any trailing whitespace and move to beginning of sexp/string to allow using C-d again to delete the sexp/string.
Delete sexp backward	DEL	(lispy-delete-	From ") ", delete ARG sexps backwards.
		backward ARG)	Otherwise ('backward-delete-char-untabify' ARG). 1

<u>Description</u>	Key	Function	<u>Note</u>
Mark a region	Mark S-expression w	ith the following command	ds. See the command a above: it allows marking any symbol using avy.
Mark symbol	M-m	(lispy-mark-symbol)	Mark current symbol. Can be issued anywhere.
Mark/Unmark list &	m	(special-lispy-mark- list ARG)	Mark the current sexp, moving point to the other end. • If mark is already active, deactivate it instead. When ARG is more than 1, mark ARGth element.
mark car: select car of marked list	i	(lispy-mark-car)	Mark the car of currently active region. Moves point after the first symbol in the list.
Grow marked area: include next/prev sexp	>	(special-lispy-slurp ARG)	Grows marked S-expression to include next.
Shrink marked area: exclude next/prev sexp	<	(special-lispy-barf ARG)	Shrink marked S-Expression: exclude the one at current end of list of marked S-expressions.
Kill, Copy & Paste See also: <u>∑ Cut & Paste</u>	0	below maintain the consis mands to kill and copy S-	tency of the list parens. expressions when point is inside and not on parens: <f11> - (and <f11> = (See <u>> Cut & Paste</u></f11></f11>
Kill string or list at point	C-, <f12> DEL</f12>	(lispy-kill-at-point)	Kill the quoted string or the list that includes the point. → The C-, key binding is not available in terminal mode. PEL provides the <f12> DEL alternative.</f12>
Kill word forward	M-d	(lispy-kill-word ARG)	Kill ARG words, keeping parens consistent.
Kill word backward	M-DEL	(lispy-backward-kill- word ARG)	Kill ARG words backward, keeping parens consistent.
Kill line	C-k	(lispy-kill)	Kill line, keeping parens consistent.
Kill from point to end of list	M-k	(kill-sentence &optional ARG)	Kill from point to end of list. • With arg, repeat; negative arg -N means kill back to Nth start of list.
Copy region or sexp to kill ring	n	(special-lispy-new-copy)	Copy marked region or sexp to kill ring.
<u>Paste</u>	P	(special-lispy-paste ARG)	When region is active, replace it with current kill. Forward to yank otherwise. • When ARG is given, paste at that place in the current list.
Navigate with avy			ting to identify a word target to move to. Avy is similar to Ace. Lispy uses Avy internally.
<u>commands</u>			a command numerical prefix to select a larger outer scope. r(s) identifying the target to move to that word and select it. They all use avy navigation.
 ace symbol move ARG sets target scope ace highlight targets move to selected word and mark it 	a @*	(special-lispy-ace- symbol ARG)	 Jump to a symbol within the current S-exp and mark it. Each symbol in S-exp is shown with highlight letter: type that letter to move to the symbol. S-exp scope is obtained by exiting the list ARG times: default is 1: current S-exp. to select a larger scope S-exp, use a numeric argument: Example: 3a selects 3 layers of enclosing S-exp to select ace targets.
ace sub-word ARG sets target scope ace highlight targets move to selected sub- word and mark it	- @*	(special-lispy-ace- subword ARG)	Similar to lispy-ace-symbol, but selects a subword instead. • S-exp scope is obtained by exiting the list ARG times: default is 1: current S-exp. to select a larger scope S-exp, use a numeric argument: • Example: 3a selects 3 layers of enclosing S-exp to select ace targets.
Move to Ace target symbol & erase to replace	н 🎯*	(special-lispy-ace- symbol-replace ARG)	Jump to a symbol within the current sexp and delete it, leaving point at location to type the new symbol. • Sexp is obtained by exiting the list ARG times. • Calls lispy-ace-symbol and deletes the selected symbol.
Move to Ace paren target	q ©	(special-lispy-ace- paren &optional ARG)	Highlights each symbol in current sexp as ace target and jump to the selected one. • Updates lispy-back history. • S-exp scope is obtained by exiting the list ARG times: default is 1
Move to Ace target char	Q © *	(special-lispy-ace-char)	Prompts for character, highlights each one in current sexp as ace target and jump to the selected one.
Navigate by-list		the state of the s	de when point is before left paren or after right paren. Use d to switch side to control direction. providing access to the j knight-down and k knight-up. Use z , or any key but j or k to stop the hydra.
Move left outward	h <	(special-lispy-left ARG)	Move outside list backwards ARG times.
Move down current list never exit current list from beginning of top level form to the next	j <u></u>	(special-lispy-down ARG)	Move down ARG times inside current list. With point at the top level move to the next top-level form. Inside a list move to each Guaranteed to never exit the list: 99j moves to the last element of the current list. Moves downward to next to comment if issued from point at start of comment line (on the ;;).
Move down left-most parens on each line	• zj • j	(lispy-knight-down)	Move down left-most paren to the next line (can exit list).
Move up current list never exit current list from end of top level form to previous one	k	(special-lispy-up ARG)	Move up ARG times inside current list. • Guaranteed to never exit the list: 99k moves to the first element of the current list. • Moves upward to previous to comment if issued from point at start of comment line (on the ;;).
Move up left-most parens on each line	• zk	(lispy-knight-up)	Move up left-most paren to the previous line (can exit list)
Move outside list forward .	1 /	(special-lispy-right ARG)	Move outside list forwards ARG times. • Parens in strings and comments are ignored.
Flow move in the direction of current paren • (→ down • ; → down •) → up	f	(special-lispy-flow ARG)	Move in the direction of current paren inside current list and then to the next/previous list: • At left: move to next left paren (move going down the file or into the list). • Move forward into a list, then each sub-list, then to beginning of next top-level list. • At right: move to previous right parent (move going up the file). • Don't enter strings or comments.
Move to beginning of current defun	A	(special-lispy- beginning-of-defun &optional ARG)	Forward to beginning-of-defun. When called twice in a row, restore the previous point and mark positions.
Move to beginning of line. Reveal Outline	C-a	(lispy-move- beginning-of-line)	Move to beginning of line
Move to end of line. In string: to end of string. Again: back to original	С-е	(lispy-move-end-of- line)	Forward to 'move-end-of-line' unless already at end of line. • Then return to the point where it was called last, when it was in a string, back to the end paren close to where it was. • If this point is inside string, move outside string.
Move forward to end of list from beginning of top level form to the next] →	(lispy-forward ARG)	Move forward list ARG times or until error. • Son type it from any location, even when point is not before the beginning or after the end of a list. • Also active inside strings and comments. Use } to insert a [] pair.

More particularly in previous from previous for the previ	<u>Description</u>	Key	Function	<u>Note</u>
Move soft filtered (pithod)	beginning of list from end of top level	[-	(lispy-backward ARG)	Move backward to beginning of previous list, up to out of current top-level list and then to previous top
Acceptable in Security Acceptable in Secur	form to previous one			our type it from any location, even when point is not belief the beginning or after the one or a flot.
## CATES 3 ** With no againett, or using white perfect control againster, the key can be typed or depretation. The key can be typed or system. **Similar of the control in the control		d ≒		·
More outside last forward	Move outside list forward	C-3 ∕	(lispy-right ARG)	With no argument, or using Meta prefixed numerical arguments, this key can be typed anywhere.
Substitution Listance Subs		<f12> 3 /</f12>		
Move back Description of the product of the pro	but self-insert inside) /		
Projection in the special content of the sp	Navigation History	To restore past positi	ons, type b around paren	s. The commands marked with 各 update lispy back history.
Coccos est hieside bits current to operate developed and between the current to operate developed and between the current to operate developed and between the current developed	Move back	b		If position isn't special, move to previous or error.
This is useful aging to see where a particular variable is used within the current datum. Goto Definition ado Seffician which g	Search	Lispy search operation	ons are restricted to a spec	iffic list scope. See <u>▼ Search/Replace</u> for more search operations, including the unbounded occur search.
Second Comment Seco		У	(special-lispy-occur)	· · · ·
develop tags soptional Artic) soptional Elegy-pote-projectible project-projectible project-prody; goto definition in local file file file soptional Elegy-pote-projectible soptional Artic) projectific bases directory goto definition in local file file soptional Elegy-pote-projectible project-projectible project-project-projectible project-project-projectible project-project-projectible project-	Goto Definition			
## comparison of the compariso		g		When ARG isn't nil, call 'lispy-goto-projectile' instead.
Transform code Consequence		_	(lispy-goto-projectile)	Jump to symbol within files in ('projectile-project-root').
Move back from symbol Children Move back from symbol Content Move		G		Similar to lispy-goto, but only current file's tags are used instead of whole directory's tags.
Move back from symbol definition jump Symbol	Follow: jump to definition	F	(special-lispy-follow)	
Mary		м		• M can be issued from any position.
Marrow/Midening Narrowing hides everything in the buffer except the selected region, allowing work on that region alone.		D		
See also: ∑ Narrowing widen it back to see the complete buffer again.		М-,	(pop-tag-mark)	M-, can be issued from any position.
Widen Widen Widen Widen Widen back to see the complete buffer. Operating on Regions Procommands listed above can be used to operate on a marked region of code: * Activate a region first with one of: * a To mark a symbol by its ace target letter. Use numeric argument to widen scope out of current list. * Select another sexy within the list with: * j To select the next sexy in the current list. * k To select the previous sexy in the current list. * k To select the previous sexy in the current list. * k To select the region growing side. The grow/shrink operations apply to the current side of the region. Move point to the other side of the region with: * Stream the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Strinks the region with another sexy on the current side. * Operate on the region. * u Descrivable the region. * u Move region and keep it active. * s Move region on sexy down. * u Move region resk gody. * u Move region resk gody. * P Replace region with current sex. * When the sexy is top level, insert an additional newline. * When the sexy is top level, insert an additional newline. * When the sexy is top level, insert an additional newline. * When the sexy is top level, insert an additional newline. * When any of 1, grow unit the end of the l	•			
The commands listed above can be used to operate on a marked region of code: • Activate a region first with one of: • In Commands support of the provided in the provided i		N		Narrow current sexp or region.
* Activate a region first with one of:	Widen	W	(special-lispy-widen)	Widen back to see the complete buffer.
clone c (special-lispy-clone ARG) Clone sexp ARG times. • When the sexp is top level, insert an additional newline. • Move S-expr The following operations essentially move or modify S-expressions. Use these to write and refactor code. Sturp: grow either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-barf. • With an arg of 0, grow as far as possible. • With an arg of -1, grow until the end of the line where the current sexp ends or as far as possible before that position. (progn (foo) (bar)) → > → (progn (foo (bar))) Barf: shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. (progn (foo) (bar)) → > → (progn (foo (bar))) Shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. (progn (foo) (bar)) → < → (progn (foo)) (bar)		 Activate a region first with one of: m To mark a sexp. a To mark a symbol by its ace target letter. Use numeric argument to widen scope out of current list. Select another sexp within the list with: j To select the next sexp in the current list. k To select the previous sexp in the current list. First select the region growing side. The grow/shrink operations apply to the current side of the region. Move point to the other side of the region with: d to move to the other side of the region. Grow or shrink the region with another sexp on the current side. > Extends the region by one sexp on the current side. < Shrinks the region by one sexp on the current side. 1 To mark the entire parent list with the point at the beginning. 1 To mark the entire parent list with the point at the end. 1 To reduce the mark to only the first child (the car) of the current list Operate on the region: m Deactivate the region and undo. c Clone region and keep it active. s Move region on sexp down. w Move region on sexp down. w Move region inside sexp selected with ace target C Convolute: exchange the order of application of two S-exprs that contain region n Copy region in kill ring without de-activating the mark. 		
• Move S-expr The following operations essentially move or modify S-expressions. Use these to write and refactor code. Slurp: grow either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-barf. • With an arg of 0, grow as far as possible. • With an arg of -1, grow until the end of the line where the current sexp ends or as far as possible before that position. (progn (foo) (bar)) → > → (progn (foo (bar))) Barf: shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-barf (progn (foo) (bar)) → > → (progn (foo (bar))) Shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. (progn (foo) (bar)) → > → (progn (foo))_(bar)	Transform code	Lispy provide a large	number of code transform	nation commands. Once you know them they speed up Lisp code editing.
Slurp: grow either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-barf. • With an arg of 0, grow as far as possible. • With an arg of -1, grow until the end of the line where the current sexp ends or as far as possible before that position. (progn (foo) _(bar)) → > → (progn _(foo (bar))) Barf: shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. Shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. (progn (foo) _(bar)) → < → (progn _(foo))(bar)	clone	С		
• With an arg of 0, grow as far as possible. • With an arg of -1, grow until the end of the line where the current sexp ends or as far as possible before that position. (progn (foo) (bar)) → > → (progn (foo) bar)) Barf: shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. (progn (foo) (bar)) → < → (progn (foo))_(bar)	Move S-expr	The following operati	ons essentially move or m	odify S-expressions. Use these to write and refactor code.
Barf: shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. Shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. (progn (foo) (bar))_ → < → (progn (foo))_(bar)		>		 With an arg of 0, grow as far as possible. With an arg of -1, grow until the end of the line where the current sexp ends or as far as possible before that position.
(120) (120) (1202)		<		Shrink either current sexp or region (if it's active) in appropriate direction. Opposite of lispy-slurp. (progn (foo) (bar)) → < → (progn (foo)) (bar)

<u>Description</u>	Key	Function	<u>Note</u>
Raise: use current sexp as replacement for its parent	r	(special-lispy-raise ARG)	Use current sexp or region as replacement for its parent. Do so ARG times. (let ((total 0)) (+ my-count your-count their-count))
			<pre></pre>
Raise: current and next previous sexp as replacement for their parent	R	(special-lispy-raise- some)	Use current sexp and the following (if called from the left), or the preceeding (if called from the right) sexps, or the active region as replacement for their parent.
Convolute: Exchange the order of application of 2 closest outer forms	С	(special-lispy- convolute ARG)	Exchange the order of application of two closest outer forms, relative to current expression or region. • Replace ((,,, (with (,,,((where and ,,, is arbitrary code. • When ARG is more than 1, pull ARGth expression to enclose current sexp. • When ARG is nil, convolute only the part above sexp.
Example animation			<pre>(if (> (sum count1 coun2 count3) 30) (when verbose</pre>
Move current sexp up	w	(special-lispy-move- up ARG)	Move current sexp or region up arg times. Don't exit the parent list. Also works for outlines.
Move sexp down in list	s	(special-lispy-move- down ARG)	Move current sexp or region down arg times. Don't exit the parent list. Also works for outlines.
Splice the current list into the parent list	/	(special-lispy-splice ARG)	Splice ARG sexp into the containing (parent) list. Move the point to the next list to splice in appropriate direction. If there are none within the parent list, move to the parent list in appropriate direction. ((a) (b) (c)) (b) (c)
Teleport: move current sexp to Ace target	t 🎳	(special-lispy-teleport ARG)	Move current sexp to Ace target inside current function. • Use numerical argument to move that many sexp
	tt 🎯*		Move current sexp to Ace target to any sexp inside current window.
Move current sexp to the left	oh	(special-lispy-move- left)	Move current sexp (or marked region) to the left, outside current list, ARG times.
			<pre>_(do-something with-this) (do-something with-that))</pre>
			<pre>(do-something with-this) (progn (do-something with-that))</pre>
Move current sexp inside first element of list below	oj	(special-lispy-down-	Move current sexp or region to become the first element of next sexp.
inst element of list below		slurp)	(100) '((200) (300)) '((100)
			(200) (300))
Move current sexp to become last element of list above	ok	(special-lispy-up- slurp)	 Move current sexp or region to become the last element of the list above. If the point is by itself on a line or followed only by right delimiters, slurp the point into the previous list. This can be of thought as indenting the code to the next level and adjusting the parentheses accordingly. (progn (do-this) (do-that)) (do-it-again)
			<pre>(progn (do-this) (do-that) (do-it-again))</pre>
Move current sexp to the right, outside current list	ol	(special-lispy-move-right)	Move current expression (or marked region) to the right, outside the current list. Do it ARG times. (progn (do-this) (do-that) (do-it-again))
			<pre>(progn (do-this) (do-that)) (do-it-again)</pre>
Convert current sexp into multi-line	М	(special-lispy-alt- multiline &optional SILENT)	Spread current sexp over multiple lines. • When SILENT is non-nil, don't issue messages. • Especially useful on results of macroexpand.
Reverse list	xR	(lispy-reverse)	Reverse the current list or region selection. A does not handle quoted list properly: it inserts quote ly-raw as the last element of the new list. One way to deal with this is to remove the quote, then reverse and put the quote back.
Format code	The following comma	and do not modify the sem	antics of the code, they just add or remove whitespace.
Turn current sexp into one line	0	(special-lispy-oneline)	Turn current sexp into one line. • Move comments ahead of sexp.
Stringify current sexp	S	(special-lispy-stringify &optional ARG)	Transform current sexp into a string. • Quote newlines if arg isn't 1.
Bind var: current sexp to let bound variable	xb	(lispy-bind-variable)	Transform the current list expression into a let-bound variable; iedit-mode is used to name the new variable. Use M-m to finish naming the variable. • Bind current expression as variable. • 'lispy-map-done' is used to finish entering the variable name. The bindings of 'lispy-backward' or 'lispy-mark-symbol' can also be used.
<u>Unbind a let bound</u> <u>variable</u>	xu	(lispy-unbind-variable)	Substitute let-bound variable • Unbind a let-bound variable. Also works for Clojure. Current version fails to update the values of the unbound variable. See bug report.
turn nested if into cond	хс	(lispy-to-cond)	Transform current 'if' expressions to equivalent 'cond' expression.
turn current lambda into a defun	xd	(lispy-to-defun)	Turn the current lambda or toplevel sexp or block into a defun.

<u>Description</u>	Key	Function	Note Note
	хD	(lispy-extract-defun)	Extract the marked block as a defun. For the defun to have arguments, capture them with 'lispy-bind-variable'
Inline current function or macro call	xf	(lispy-flatten ARG)	Inline current function or macro call, i.e. replace it with function body. The function should be interned and its body find-able. • Pass the ARG along.
	xF	(lispy-let-flatten)	Inline a function at the point of its call using 'let'.
turn cond into nested if expressions	xi	(lispy-to-ifs)	Transform current 'cond' expression to equivalent 'if' expressions.
<u> </u>	xk	(lispy-extract-block)	Transform the current sexp or region into a function call. The newly generated function will be placed above the current function. Starts the input for the new function name and arguments. To finalize this input, press "[".
turn current defun into a lambda	xl	(lispy-to-lambda)	Turn the current function definition into a lambda.
Eval sexp and replace it with its result	xr	(lispy-eval-and- replace)	Eval current expression and replace it with the result.
Toggle between last threaded macro form and unthreaded form	x>	(lispy-toggle-thread- last)	Toggle current expression between the <u>last-threaded macro</u> form and the unthreaded forms. (+ 40 (- (/ 25 (+ 20 5))))
			<pre>(thread-last (+ 20 5) (/ 25) (-) (+ 40)) As the example shows, the thread-last code is not always created in the nicest-looking way. Emacs help proposes this instead:</pre>
EDegug Support			
	xe	(lispy-edebug ARG)	Start/stop edebug of current thing depending on ARG. • ARG is 1: 'edebug-defun' on this function. • ARG is 2: 'eval-defun' on this function. • ARG is 3: 'edebug-defun' on the function from this sexp. • ARG is 4: 'eval-defun' on the function from this sexp.
	хj	(lispy-debug-step-in)	Eval current function arguments and jump to definition
ERT test support			
	xt	(lispy-view-test)	View better the test at point.
	хT	(lispy-ert)	Call ('ert' t): run all ERT tests.
Outline operations	Also see C-a above	which moves to beginning	of line and reveals outlines.
Toggles on off org-mode- like outline	I	(special-lispy-shifttab ARG)	Toggles on/off an org-mode-like outline. • To make this work, lispy-mode will modify outline-regexp and outline-level-function for the current buffer while it's on.
Indent / hide/show outline	i	With no active region: (special-lispy-tab)	If in outline: hide/show outline, otherwise indent all code of current paren • When region is active, call 'lispy-mark-car'.
Next outline level	J	(special-lispy-outline- next ARG	Takes a numeric prefix arg and calls outline-next-visible-heading arg times or until past the last outline-regexp.
<u>Previous outline level</u>	К	(<u>special-lispy-outline-</u> <u>prev</u> ARG)	Takes a numeric prefix arg and calls outline-previous-visible-heading arg times or until past the first outline-regexp.
Evaluate Code			
Eval last sexp	е	(special-lispy-eval ARG)	Eval last sexp. Display result in echo area. • When ARG is 2, insert the result as a comment.
Eval current region sexp. Insert result.	E	(special-lispy-eval- and-insert)	Eval current region or sexp. The result will be inserted in the current buffer after the evaluated expression.
Eval current sext &	xv	(lispy-eval-expression)	Like 'eval-expression', but for current language (Emacs Lisp, Common Lisp, Clojure, etc)
replace it at point Eval current sexp in the content of the of the other window	p	(special-lispy-eval- other-window	Eval current expression in the context of other window. • In case the point is on a let-bound variable, add a 'setq'. • When ARG is non-nil, force select the window.
EDebug current defun	xe	&optional ARG)	edebug current defun. Or cider-debug-defun-at-point for Clojure.
	2xe		2xe will eval current defun instead.
Debug - step in	xj		 Evaluate the arguments at the current function's call Jump to the function's definition Set the result of evaluation to the function's arguments
EDebug stop	z	(special-lispy-edebug- stop)	Does the same as q in edebug, except current function's arguments will be saved to their current values. • This allows to continue debugging with lispy-eval (e) from edebug's current context. • The advantage is that you can edit the code as you debug, as edebug puts your code in read-only mode.
Execute Tests: run ert	хT		
Buffer/Region operations			
Store current buffer and region for further operation	хВ	(lispy-store-region- and-buffer)	Store current buffer and 'lispybounds-dwim'.
<u>-региноп</u>			

Description	Key	Function	<u>Note</u>
Ediff regions	В	(special-lispy-ediff- regions)	Comparable to 'ediff-regions-linewise'. • First region and buffer come from 'lispy-store-region-and-buffer' • Second region and buffer are the current ones.
Save buffer	xs	(save-buffer &optional ARG)	Save current buffer in visited file if modified. Same as C-x C-s
Visit another file	v	(special-lispy-visit ARG)	Visit another file within this project using <u>projectile</u> or <u>find-file-in-project</u> . • Use v to open the file in the current window. Use 2v to open the file in another window.
See: <u>Projectile</u>	Customize lispy-visit-method to select what function to use. • PEL supports both of these external packages, and use the pel-use-projectile and pel-use-find-file-in-project user-options to download and activate each one. Unless you are familiar with find-file-in-project you may find projectile more useful and faster.		
	og	(special-lispy-goto-mode)	Goto verb. key binding a special-lispy-goto-def-ace b special-pop-tag-mark d special-lispy-goto e special-lispy-goto-elisp-commands f special-lispy-follow j special-lispy-follow j special-lispy-goto-def-down l special-lispy-goto-local p special-lispy-goto-projectile q special-lispy-quit r special-lispy-goto-recursive
Move to definition of selected lisp element	oga	(special-lispy-goto- def-ace ARG)	Jump to definition of selected element of current sexp. • Sexp is obtained by exiting list ARG times.
Move back: pop tag	ogb	(special-pop-tag- mark)	Pop back to where M was last invoked.
Move to symbol within files of current directory	ogd	(special-lispy-goto ARG)	Jump to symbol within files in current directory. • When ARG isn't nil, call 'lispy-goto-projectile' instead.
Move to Elisp command pithing current file	oge	(special-lispy-goto- elisp-commands)	Jump to Elisp commands within current file. Prompts using ivy completion mechanism. • When ARG is non-nil, force a reparse
	ogf	(special-lispy-follow)	Follow to 'lispycurrent-function'.
	ogj	(special-lispy-goto- def-down)	Jump to definition of ARGth element of current list.
	ogl	(special-lispy-goto- local)	Jump to symbol within current file. • When ARG is non-nil, force a reparse.
	ogq	(special-lispy-quit)	Remove modifiers.
	ogr	(special-lispy-goto- recursive)	Jump to symbol within files in current directory and its subdirectories. ⚠ Potentially long search process. Stop with C-g .
Others ****			
	хC	(lispy-cleanup)	
	• xC-h • x?	(lispy-x-more- verbosity)	
	xn	(lispy-cd)	Change the current REPL working directory. Not implemented for Emacs Lisp.
	хр	(lispy-set-python- process)	