## Input Completion (Emacs default, Helm, Ido, Ivy, Ivy/Counsel)

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Operation	Con Emacs, input complete	Function	Note
<ul> <li>Default</li> <li>Ido</li> <li>Ivy</li> <li>Helm</li> </ul>	On Emacs, input completion is available when Emacs prompts for the name of a file, buffer, variable, function, command (and more). The input completion offers a way to complete your input. Several methods are supported, some are built-in or use a package that comes with Emacs, other require external packages. The available input completion methods are:  • Emacs default completion method: use the <tab> key to get a list of potential candidates.  • Ido (Interactive Do), a much more powerful completion method. Ido is distributed with Emacs. It supports what the default completion supports and mode.  • With ido activated, it is used in file (C-x C-f), buffer name (C-x b), command (M-x), help for objects (<f1> o) and several other commands.  • PEL provides completion for searching symbols defined in the source code file visited by the current buffer with M-g h. See Navigation</f1></tab>		
See also: Navigation	• <u>lvy</u> • Helm • Ido/Helm		
Open this PDF file. See also: <u>∑ Help/Info</u>	<f11> M-c <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the local copy of the <u>Sompletion/Input</u> PDF file unless a command prefix (like <b>C-u</b> ) was used. In that case it opens the Github-hosted file instead.  You can also type <b><f1></f1></b> during completion prompt to open this PDF file. See below.
Customize PEL Input Completion Support See also: Customize	<f11> M-c <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL input completion support: open PEL buffer support specific group.  • If OTHER-WINDOW is non-nil (use C-u), display in other window.
Customize Emacs & external package input completion support See also: Customize	<f11> M-c <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs and external packages related to input completion:r. This includes the following customize groups:  1. helm 2. ido 3. ido-completing-read-plus 4. ido-grid-mode 5. ido-vertical 6. ivy 7. counsel 8. minibuffer: where the completion-style user-variable is defined. 9. smex  • When a prefix argument (like C-u) opens the buffer inside another window.
	loaded and will attempt t	o load it if its installed. If it is no	n the corresponding feature is installed and loaded. PEL will prompt if a required feature is not at installed, it will request it to be installed. Note that Emacs will simply refuse to load a group
Input Completion Mode Selection	when its related feature has not previously loaded since Emacs won't know about it. PEL simplifies this.  PEL controls activation of completion methods and packages via customization user-option variables listed below. Several modes can be activated.  With PEL you can identify which one is used by default and change it during an Emacs session by using one of the command listed in the rows below.  Available modes:  1. Ido mode completion. Built-in Emacs but not activated by default.  A powerful completion with several commands available during completion to change the way the candidates are found. See the list of commands in the section below.  Several other packages attempt to extend Ido or provide Ido in more prompts, including the following supported by PEL:  Ido ubiquitous mode external package.  PEL activates it when pel-use-ido-completing-read+ user-option is set to t.  It extends Ido to more prompting commands.  In had mixed results with this package.  Server external package; Ido completion for M-x  PEL activates it when pel-use-smex user-option is set to t.  It extends Ido to M-x, and provides M-x for Ido restricted to major modes.  It changes Ido match presentation to shows Ido matches in vertical lines, potentially with a match count. Similar to what Ivy does.  Ido-grid-mode external package.  PEL activates it when pel-use-ido-grid-mode user-variable is set to t.  It changes Ido match presentation to shows Ido matches in vertical lines, potentially with a match count. Similar to what Ivy does.  With mode completion  Set pel-use-ive it to t.  With mode completion  Set pel-use-ive it to t.  Ido/Helm mode completion  Use set pel-use-belm to t.  Ido/Helm mode, implemented by PEL, where Ido is used for dealing with Files and buffers and Helm is used everywhere else.		
Select the completion mode	<f11> M-c M-c</f11>	(pel-select-completion-mode)	Prompt user for completion mode to activate. The available modes depend on what is currently activated by customization. See the list above.
Toggle Ido ubiquitous mode	You can add more con	nmands with completion (eg. de	Toggle the 'ido-ubiquitous-mode'. This adds Ido completion to a large set of prompting commands that normally do not support Ido.  g Ido completion will also provide ivy and helm completion when those modes are selected. scribe-variable) via the ido-completing-read-plus customization group by adding them to the by adding them in the ido-cr+function-blacklist user-option.
Toggle smex : Ido for M-x and M-X	<f11> M-c M-x</f11>	(pel-toggle-smex)	Toggles use of smex-mode where Ido completion is available for M-x and M-X.  Requires the smex external package.
Change Ido Presentation Direction	<f11> M-c M-v</f11>	(pel-set-ido-geometry)	Select the way Ido shows the match selection: native, vertically or using a grid.  Requires one or both of the following external packages: ido-vertical-mode, ido-grid-mode
Show what completion mode is currently used.	<f11> ? M-c</f11>	(pel-show-active- completion-mode)	Display the completion mode currently used.
Default Input Completion	Emacs default input completion is available when no other completion mechanism is active.  The keys available to expand or act on the completed name (or symbol) are listed below.  See Emacs Completion Example for a simple example of how to use completion keys.  The completion-style user-option variable from the ido group controls the types of matching styles supported:  basic: complete with the same beginning  partial-completion: agressive completion: em-l-m matches emacs-lisp-mode.  emacs22: same as basic but ignores text in minibuffer after point  substring: must contain text in minibuffer & point position controls matching extension added to beginning, end and where point is located initials: a very aggressive completion style: attempt to complete acronyms and initialisms: for example: lch matches list-command-history.  The first 3 are available in the default value of completion-style. They can be added by customization:  M-x customize-option RET completion-style RET to customize this variable,  M-x customize-group RET minibuffer RET access its group or  the PEL <f11> <f2> P M-c 6 key sequence.</f2></f11>		
Complete word	SPC	(minibuffer-complete-word)	Complete the minibuffer contents at most a single word.  • After one word is completed as much as possible, a space or hyphen is added, provided that matches some possible completion.  • Return nil if there is no valid completion, else t.
Complete input	Tab	(minibuffer-complete)	Complete the minibuffer contents as far as possible. Type it twice if no input to list all choices.  Return nil if there is no valid completion, else t.  If no characters can be completed, display a list of possible completions.  If vou repeat this command after it displayed such a list, scroll the window of possible completions.

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
List all possible choices	?	(minibuffer-completion-help &optional START END)	Display a list of possible completions of the current minibuffer contents.
Complete and exit	• RET • C-j	(minibuffer-complete-and- exit)	Exit if the minibuffer contains a valid completion.  Otherwise, try to complete the minibuffer contents. If completion leads to a valid completion, a repetition of this command will exit.  If 'minibuffer-completion-confirm' is 'confirm', do not try to complete; instead, ask for confirmation and accept any input if confirmed.  If 'minibuffer-completion-confirm' is 'confirm-after-completion', do not try to complete; instead, ask for confirmation if the preceding minibuffer command was a member of 'minibuffer-confirm-exit-commands', and accept the input otherwise.
Escape	C-g	(abort-recursive-edit)	Abort the command that requested this recursive edit or minibuffer input.
Select completion list window	• M-v • <pgup></pgup>	(switch-to-completions)	Select the completion list window: move point to the window listing all possible completions.
In Completion Window	The following commands	are available inside the comple	tion window listing all possible completions.
From completion window:  • Select a completion	• RET • <mouse-2></mouse-2>	(choose-completion &optional EVENT)	Choose the completion at point.  • If EVENT, use EVENT's position to determine the starting position.
Move to next completion	• Tab • <right></right>	(next-completion N)	Move to the next item in the completion list.  • With prefix argument N, move N items (negative N means move backward).
Move to previous completion	• S-Tab • <left></left>	(previous-completion N)	Move to the previous item in the completion list.
Quit completion window	q	(quit-window &optional KILL WINDOW)	Quit the window showing it and selects the window showing the minibuffer.
Kill completion buffer	z	(kill-current-buffer)	Kill completion buffer it and delete the window showing it.
• <u>Ido</u> Input Completion	Emacs also provides the Ido (Interactive Do) completion mechanism in a separate package, part of Emacs distribution but not activated by default.  PEL activates the following extra Ido features when Ido mode is selected:  Ido mode used everywhere, which for Ido mode means for both file and buffer prompts. It does: (ido-everywhere 1)  Flex matching is enabled.  It does: (setq ido-enable-flex-matching t)  Disable need for confirmation when creating new buffers with C-x b It does: (setq ido-create-new-buffer 'always)  Ido mode supports different prompts and has different keys valid for these prompts. There are several key sequences valid for all prompts and some valid for each prompt. The prompt types are listed following the key sequence that opens it:  C-x C-b Prompt for buffers  C-x C-f Prompt for files.  C-x C-d Prompt for directory.  For file prompting, Ido propose files in the current directory but can propose others. The prompt in Ido mode remembers directories that have been visited in the past (even in previous Emacs sessions) so it is able to propose files in different directories than the one holding the file visited in the current buffer.		
all prompts	• 🤞 However, if you w	vant to open a file in a directory of key bindings, listed in the nex	d ido from proposing matches, type <b>C-f</b> to exit Ido mode, then type your new file name. previously visited use completion: ido will be able to find it! t 4 sections.
• Help			o prompt even though focus might move to the new PDF display window.
Open this <u>S</u> Completion/ Input PDF file or the web page  See also: <u>S Help/Info</u>	<f1></f1>	(pel-help-on-completion- input &optional OPEN-WEB- PAGE)	Open the input completion help PDF file.  • With a prefix (like <b>C</b> − <b>u</b> ) use the default browser to open the GitHub web page.  • In the Note that if your browser can render PDF content you will then be able to easily navigate across PDF pages that have several web links.  • Use the <b>C</b> − <b>h</b> key prefix to access Emacs help commands, as PEL uses < <b>f1&gt;</b> for this command.
Match rule control	The following comma	ands control various aspects of	Ido matching mechanism.
Toggle inclusion of ignored files.  Toggle case sensitivity in the search	• C-c • M-C	(ido-toggle-ignore)	Toggle ignoring items for the current prompt:  In ido-buffer: toggle ignoring special buffers identified in the 'ido-ignore-buffers' user-option.  In ido-find-file: toggle ignoring files specified with 'ido-ignore-files' user-option, files with extensions listed in 'completed-ignored-extensions' dired user-option (when 'ido-ignore-extension' user-option is non-nil)  For example, traditional behaviour is:  not to list buffers whose names begin with a space character,  not to list files whose names begin with a #, for which the regexp is '\'#', Customize these user-option variables in the ido customization group.  Toggle the value of 'ido-case-fold' which controls whether searching for buffer or file name should ignore case.  The C-c binding is often hidden by the C-c key prefix used by various packages. PEL adds the M-c key binding to the common ido key map for that purpose.  This is quite useful in OS that treat their file names are can sensitive names (like Unix and Linux, but unfortunately not MacOS!) or just if you want to quickly access names that have
Toggle prefix matching	C-p	(ido-toggle-prefix)	specific upper or lower case letters in it. For example using case sensitive matching will help select a Makefile.  Toggle the value of user-option variable 'ido-enable-prefix'. It's nil by default.
method			<ul> <li>Non-nil means only match if the entered text is a prefix of file name.</li> <li>This behavior is like the standard Emacs completion.</li> <li>If nil, match if the entered text is an arbitrary substring.</li> <li>For example: "base" will match pel—base.el if ido-enable-prefix is nil, but no it is is t.</li> </ul>
Toggle regular expression matching See also: <u>∑ Search/</u> Replace	C-t	(ido-toggle-regexp)	Toggle the value of 'ido-enable-regexp' to enable Ido to perform matching using regular expressions. This is nil (off) by default. You can customize this user-option variable.    Regular expression matching is useful to select file with specific extensions.   See \( \subseteq \) Search/Replace for Emacs regular expression meta characters.
· Completion	The following commands control various aspects of Ido matching mechanism.		
Show all possible completions	?	(ido-completion-help)	Show all possible completions in a completion list buffer.
Complete current selection	Tab	(ido-complete)	Try and complete the current pattern amongst the item names.  • If several candidates, show the list in the *Ido Completions* buffer.
Complete current selection or insert space	SPC	(ido-complete-space)	Try completion unless inserting the space makes sense.  When space cannot be accepted as input, open a completion list buffer.  With list buffer already opened, scroll one page down and roll back to top.

<u>Operation</u>	<u>Keystroke</u>	Function	Note
Narrow list of candidates	• C-SPC	(ido-restrict-to-matches	Set current item list to the currently matched items. Further match only inside this narrowed list.
to current list of matching items.	• C-@	&optional REMOVEP)	With prefix argument, remove the currently matched items instead and start matching against the remaining items.
Undo/redo last Ido "directory merge" proposing file in another directory	C-z	(ido-undo-merge-work- directory &optional TEXT TRY REFRESH)	<ul> <li>Undo or redo last Ido directory merge operation.</li> <li>If no merge has yet taken place, toggle automatic merging option.</li> <li>Ido "directory merge" occurs when trying to match a file name found in other directory.</li> </ul>
Select match, create buffer/file if none	с-ј	(ido-select-text)	Select entered name without attempt for completion.  If no buffer or file exactly matching the prompt exists, create a new one.  buffer: prompt for confirmation as controlled by `confirm-nonexistent-file-or-buffer' and `ido-create-new-buffer' user-options.  file: prompt for confirmation as controlled by `confirm-nonexistent-file-or-buffer' user-option.
Select first match	• C-m • RET	(ido-exit-minibuffer)	Exit minibuffer, but make sure we have a match if one is needed.  • Select the first element in the list of possible match.
Select next match	• C • C-s • <right></right>	(ido-next-match)	Move to next match element. Put first element of 'ido-matches' at the end of the list.
Select previous match	• C-, • C-r • <left></left>	(ido-prev-match)	Move to last match element. Put last element of 'ido-matches' at the front of the list.
<ul><li>Edit user input</li><li>Switch mode</li></ul>		inside user input used as the bachange the order of matches or	asis for the match search. Use these to modify the user input to update matching request. their position.
Delete next char or     enter Dired	C-d	(ido-magic-delete-char ARG)	Delete following char in user input or perform magic action.  • Before any user entry for item matching in the following file and directory prompt ido functions, preform the following:  • ido-dired C-d enter 'dired' on current directory.'  • ido-find-file C-d enter 'dired' on current directory.  • ido-list-directory C-d enter 'dired' on current directory.
Move backward in user-input or     change to buffer prompt	С-р	(ido-magic-backward-char ARG)	Move backward in user input. Inside directory path move up one directory level.  • Before any user entry for item matching, on the left-most character switch to a buffer prompt selected depending on the currently executing command:  • ido-buffer C-b fallback to 'switch-to-buffer'  • ido-dired C-b switch to 'ido-buffer'  • ido-find-file C-b switch to 'ido-buffer'  • ido-list-directory C-b switch to 'ido-buffer'
<ul> <li>Move forward in user input or</li> <li>change to non-Ido find-file</li> </ul>	C-f	(ido-magic-forward-char ARG	Move forward on user-input.  • Before any user entry item matching, switch to a buffer prompt selected depending on the currently executing command:  • ido-buffer C-f switch to 'ido-find-file'.  • ido-dired C-f fallback to non-ldo 'dired'.  • ido-find-file C-f fallback to non-ldo 'find-file'.  • ido-list-directory C-f fallback to non-ldo brief 'dired'.
Enter non-matching edit mode	С-е	(ido-edit-input)	Switch to a temporary non-matching edit mode for editing the absolute buffer/file/directory name entered so far with Ido; terminate by RET to return to matching mode.  • If cursor is not at the end of the user input, move to end of input.  • When this is selected the matching mechanism is paused. It restarts with <b>RET</b> .
Take/edit first match	M-SPC	(ido-take-first-match)	Use first matching item as input text. Leave the cursor at the end of input text.
			Useful, like <b>C-e</b> to edit a match and create a new file with similar name. Then type <b>C-j</b> to force Ido to use that name and open a new file.
• Escape	Exit the Ido prompt.		Suseful, like <b>c−e</b> to edit a match and create a new file with similar name. Then type <b>c−j</b> to
Escape  Escape prompt		(minibuffer-keyboard-quit)	Suseful, like <b>c−e</b> to edit a match and create a new file with similar name. Then type <b>c−j</b> to
· · · · · · · · · · · · · · · · · · ·	Exit the Ido prompt. C-g	(minibuffer-keyboard-quit)	Useful, like <b>C-e</b> to edit a match and create a new file with similar name. Then type <b>C-j</b> to force Ido to use that name and open a new file.
Escape prompt	Exit the Ido prompt. C-g	(minibuffer-keyboard-quit)	Suseful, like <b>C−e</b> to edit a match and create a new file with similar name. Then type <b>C−j</b> to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.
• buffer prompts	Exit the Ido prompt.  C-g  In C-x b buffer prompts	(minibuffer-keyboard-quit) s, all common commands are av	Useful, like <b>C-e</b> to edit a match and create a new file with similar name. Then type <b>C-j</b> to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Aliable plus the commands listed below. See <b>Buffers</b>
buffer prompts     Change to file prompt Change to iBuffer window	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK	Useful, like <b>C-e</b> to edit a match and create a new file with similar name. Then type <b>C-j</b> to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Aliable plus the commands listed below. See <b>Buffers</b> Drop into 'find-file' from buffer switching.  Open an <b>iBuffer</b> window.
• buffer prompts Change to file prompt Change to iBuffer window See also: <u>Suffers</u>	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS)	Useful, like <b>C</b> − <b>e</b> to edit a match and create a new file with similar name. Then type <b>C</b> − <b>j</b> to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Vailable plus the commands listed below. See <u>Suffers</u> Drop into 'find-file' from buffer switching.  Open an <u>iBuffer</u> window.  See <u>Suffers</u> for more information on ibuffer command.
Escape prompt  • buffer prompts  Change to file prompt  Change to iBuffer window  See also: ∑ Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head)	Useful, like <b>C-e</b> to edit a match and create a new file with similar name. Then type <b>C-j</b> to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Abort the commands listed below. See <b>Buffers</b> Drop into 'find-file' from buffer switching.  Open an <b>iBuffer</b> window.  See <b>Buffers</b> for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.
Escape prompt  • buffer prompts  Change to file prompt  Change to iBuffer window  See also: ∑ Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b  C-S-b C-k C-o	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head) (ido-kill-buffer-at-head)	Useful, like <b>C</b> − <b>e</b> to edit a match and create a new file with similar name. Then type <b>C</b> − <b>j</b> to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Abort the commands listed below. See <b>∑ Buffers</b> Drop into 'find-file' from buffer switching.  Open an <b>iBuffer</b> window.  See <b>∑ Buffers</b> for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.  • If cursor is not at the end of the user input, delete to end of inpu  Toggle the use of virtual buffers.  • With virtual buffers on, you see names of buffers that have been opened recently even if they
Escape prompt  • buffer prompts  Change to file prompt  Change to iBuffer window  See also: ∑ Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual buffers	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b  C-S-b C-k C-o	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head) (ido-kill-buffer-at-head)	Suseful, like C−e to edit a match and create a new file with similar name. Then type C−j to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Abort the commands listed below. See Buffers  Drop into 'find-file' from buffer switching.  Open an iBuffer window.  See Buffers for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.  If cursor is not at the end of the user input, delete to end of inpu  Toggle the use of virtual buffers.  With virtual buffers on, you see names of buffers that have been opened recently even if they have been closed since then. This includes files recently opened.
Escape prompt  buffer prompts  Change to file prompt  Change to iBuffer window  See also: ∑ Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual buffers  dir prompts  Change to buffer prompt  Change to non-ido listing	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b  C-s-b C-k C-o	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head) (ido-kill-buffer-at-head)	Useful, like C−e to edit a match and create a new file with similar name. Then type C−j to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Abort the commands listed below. See ▶ Buffers  Drop into 'find-file' from buffer switching.  Open an iBuffer window.  See ▶ Buffers for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.  If cursor is not at the end of the user input, delete to end of inpu  Toggle the use of virtual buffers.  With virtual buffers on, you see names of buffers that have been opened recently even if they have been closed since then. This includes files recently opened.
buffer prompts  change to file prompt  Change to iBuffer window  See also: ∑ Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual buffers  dir prompts  Change to buffer prompt  Change to non-ido listing directory	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b  C-S-b  C-k  C-o In C-x d or C-x C-d or C-x C-b	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head) (ido-kill-buffer-at-head) (ido-toggle-virtual-buffers) directory related prompts, all cor (ido-enter-switch-buffer) (ido-fallback-command &optional FALLBACK-	See Suffers for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.  If cursor is not at the end of the user input, delete to end of inpu  Toggle the use of virtual buffers.  With virtual buffers on, you see names of buffers that have been opened recently even if they have been closed since then. This includes files recently opened.  Drop into 'ido-switch-buffer' from file switching.  Drop into 'ido-switch-buffer' from file switching.
buffer prompts  change to file prompt  Change to iBuffer window  See also: ∑ Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual buffers  dir prompts  Change to buffer prompt  Change to non-ido listing directory  Enter Dired buffer	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b  C-S-b  C-k C-o In C-x d or C-x C-d or C-x C-b  C-x C-b	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head) (ido-kill-buffer-at-head) (ido-toggle-virtual-buffers) directory related prompts, all con (ido-enter-switch-buffer) (ido-fallback-command &optional FALLBACK- COMMAND)	Useful, like <b>C−e</b> to edit a match and create a new file with similar name. Then type <b>C−j</b> to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Abort the commands listed below. See <b>Buffers</b> Drop into 'find-file' from buffer switching.  Open an iBuffer window.  See <b>Buffers</b> for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.  If cursor is not at the end of the user input, delete to end of inpu  Toggle the use of virtual buffers.  With virtual buffers on, you see names of buffers that have been opened recently even if they have been closed since then. This includes files recently opened.  mmon commands are available plus the commands listed below. See <b>File-mngt</b> Drop into 'ido-switch-buffer' from file switching.  Drop into a non-ido directory listing command: no interpretation, no proposal, accept input as typed.
Escape prompt  • buffer prompts  Change to file prompt  Change to iBuffer window  See also: ∑ Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual buffers  • dir prompts	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b  C-s-b C-k C-o In C-x d or C-x C-d or C-x C-b C-x C-b	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head) (ido-kill-buffer-at-head) (ido-kill-buffer-at-head) (ido-toggle-virtual-buffers) directory related prompts, all con (ido-enter-switch-buffer) (ido-fallback-command &optional FALLBACK- COMMAND) (ido-enter-dired)	Suseful, like C−e to edit a match and create a new file with similar name. Then type C−j to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Abort the commands listed below. See ▶ Buffers  Drop into 'find-file' from buffer switching.  Open an iBuffer window.  See ▶ Buffers for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.  If cursor is not at the end of the user input, delete to end of inpu  Toggle the use of virtual buffers.  With virtual buffers on, you see names of buffers that have been opened recently even if they have been closed since then. This includes files recently opened.  mmon commands are available plus the commands listed below. See ▶ File-mngt  Drop into 'ido-switch-buffer' from file switching.  Drop into a non-ido directory listing command: no interpretation, no proposal, accept input as typed.  Find next directory in match list.
Escape prompt  buffer prompts  Change to file prompt  Change to iBuffer window  See also: ∑Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual buffers  dir prompts  Change to buffer prompt  Change to non-ido listing directory  Enter Dired buffer  Next directory in search  Previous directory in search	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b  C-s-b C-k C-o In C-x d or C-x C-d or C-x C-d C-x C-f C-x C-f C-x C-d <down></down>	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head) (ido-kill-buffer-at-head) (ido-toggle-virtual-buffers) directory related prompts, all cor (ido-enter-switch-buffer) (ido-fallback-command &optional FALLBACK- COMMAND) (ido-enter-dired) (ido-enter-dired) (ido-next-match-dir)	Useful, like <b>C−e</b> to edit a match and create a new file with similar name. Then type <b>C−j</b> to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Albort the commands listed below. See <b>∑ Buffers</b> Drop into 'find-file' from buffer switching.  Open an <b>iBuffer</b> window.  See <b>∑ Buffers</b> for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.  If cursor is not at the end of the user input, delete to end of inpu  Toggle the use of virtual buffers.  With virtual buffers on, you see names of buffers that have been opened recently even if they have been closed since then. This includes files recently opened.  Themon commands are available plus the commands listed below. See <b>∑ File-mngt</b> Drop into 'ido-switch-buffer' from file switching.  Drop into a non-ido directory listing command: no interpretation, no proposal, accept input as typed.  Drop into 'dired' from file switching: open the Dired buffer with current directory name.  Find next directory in match list.  If work directories have been merged, cycle through directories for first matching file.  Find previous directory in match list.
Escape prompt  • buffer prompts  Change to file prompt  Change to iBuffer window  See also: ∑ Buffers  Bury buffer  Kill buffer identified as the first match  Toggle use of virtual buffers  • dir prompts  Change to buffer prompt  Change to non-ido listing directory  Enter Dired buffer  Next directory in search	Exit the Ido prompt.  C-g In C-x b buffer prompts C-x C-f C-x C-b  C-s-b  C-k C-o In C-x d or C-x C-d or C-x C-d  C-x C-f  C-x C-b  C-x C-d <down></down>	(minibuffer-keyboard-quit) s, all common commands are av (ido-enter-find-file) (ibuffer &optional OTHER- WINDOW-P NAME QUALIFIERS NOSELECT SHRINK FILTER-GROUPS FORMATS) (ido-bury-buffer-at-head) (ido-kill-buffer-at-head) (ido-toggle-virtual-buffers)  directory related prompts, all cor (ido-enter-switch-buffer) (ido-fallback-command &optional FALLBACK- COMMAND) (ido-enter-dired) (ido-next-match-dir)	Useful, like C−e to edit a match and create a new file with similar name. Then type C−j to force Ido to use that name and open a new file.  Abort the command that requested this recursive edit or minibuffer input.  Abort the commands listed below. See ■ Buffers  Drop into 'find-file' from buffer switching.  Open an iBuffer window.  See ■ Buffers for more information on ibuffer command.  Bury the buffer at the head of the Ido matches, moving it a the end of the list of matching buffers, before the name of current buffer.  Kill the buffer at the head of 'ido-matches'.  If cursor is not at the end of the user input, delete to end of inpu  Toggle the use of virtual buffers.  With virtual buffers on, you see names of buffers that have been opened recently even if they have been closed since then. This includes files recently opened.  mmon commands are available plus the commands listed below. See ■ File-mngt  Drop into 'ido-switch-buffer' from file switching.  Drop into a non-ido directory listing command: no interpretation, no proposal, accept input as typed.  Drop into 'dired' from file switching: open the Dired buffer with current directory name.  Find next directory in match list.  If work directories have been merged, cycle through directories for first matching file.  Find previous directory in match list.  If work directories have been merged, cycle through directories for first matching file.
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<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
Re-read directory	C-1	(ido-reread-directory)	Read current directory again.  May be useful if cached version is no longer valid, but directory timestamp has not changed (e.g. with FTP or on Windows).
Wide directory	M-d	(ido-wide-find-dir-or- delete-dir &optional DIR)	Prompt for DIR to search for using 'find', starting from current directory.  • If input stack is non-empty, delete current directory component.
Move to previous directory, push it in list of choices.	м-ь	(ido-push-dir)	Move to previous directory in file name, push current input on stack.
Previous directory in search	M-v	(ido-push-dir-first)	Move to previous directory in file name, push first match on stack.
	M-f	(ido-wide-find-file-or-pop- dir ARG)	Expand absolute path of the directory and leave Ido prompting mode.
Remove directory from history	M-k	(ido-forget-work-directory)	Remove current directory from the history
	M-m	(ido-make-directory &optional DIR)	Prompt for DIR to create in current directory.
Show next element in search history	<pgdn></pgdn>	(next-history-element N)	Puts next element of the minibuffer history in the minibuffer. With argument N, it uses the Nth following element.
Previous file name	M-0	(ido-prev-work-file)	Change to previous working file name in list.  These 2 commands seem to have invalid docstrings, I assume the function names are correct. They move from file to file but i's not obvious what the direction is. More investigation is needed.
Next fil entame	M-C-o	(ido-next-work-file)	Change tonext working file name in list.
Show previous element in search history	<pgup></pgup>	(previous-history-element N)	Puts previous element of the minibuffer history in the minibuffer. With argument N, it uses the Nth previous element.
Search for file matching input	M-s	(ido-merge-work- directories)	Search (and merge) work directories for files matching the current input string.  • This searches in all Ido remembered directories, supporting the match mechanisms.  • For example, if you want to open the file std_base_type.h while editing some Python file but you know you visited a C directory that had that file, type "_base" followed by M-s
file prompts	In C-x C-f file prompt	s, all common commands, direc	d commands and the following commands are available. See <u>File-mngt</u>
Delete disk file at head	C-k	(ido-delete-file-at-head)	Delete disk file identified at the head of the matches. Prompt for deleting the file. Then return to the prompt.
Insert word at point in file-name prompt	C-0	(ido-copy-current-word ALL)	Append the word located at the location of the currently edited buffer (used just before the prompt stated) to the file name used in the prompt.  • This is a way to quickly build a file name using the current directory and the new word (which will include the file extension if there is any in the word at point).
Insert file name of current buffer to prompt	C-w	(ido-copy-current-file-name ALL)	Insert file name of current buffer.  If repeated, insert text from buffer instead.  Use this to create or search for file with the same name as but with a different extension than current one.
Toggle literal reading fo file	M-1	(ido-toggle-literal)	Toggle literal reading of this file.  • When reading a file literally, Emacs visit it in Fundamental mode and does not interpret the type of file and does not use the major mode normally associated with the file.
<u>Ivy/Counsel/Swiper</u>	Ivy is another powerful completion engine, with a lot of support over a large number of packages.  Ivy is easy and intuitive to use; it shows all potential candidates on several lines.  It supports several commands. The commands and key bindings are listed in the following sections.  PEL adds the <f1> key binding to open this page, although Ivy provides a well written help page that is accessible with C-h m and contains most of this information.  See the Ivy, Counsel, Swiper Tutorial  Requires Ivy external package. PEL activates it when the pel-use-ivy user-option is set to t.</f1>		
Open this <u>∑ Completion/</u>	<f1></f1>	(pel-help-on-completion-	Open the input completion help PDF file.
Input PDF file or the web page See also: Help/Info		input &optional OPEN-WEB- PAGE)	<ul> <li>With a prefix (like C-u) use the default browser to open the GitHub web page.</li> <li>Note that if your browser can render PDF content you will then be able to easily navigate across PDF pages that have several web links.</li> <li>Use the C-h key prefix to access Emacs help commands, as PEL uses <f1> for this</f1></li> </ul>
			command.
Help for Ivy	C-h m	(ivy-help)	Open a window with the help for 'ivy'.
Keys for selection navigation	Ivy display selections over	er a set of lines. Use the following	ng keys to navigate through them.
Select next candidate	• C-n • <down></down>	(ivy-next-line)	Select next candidate
Select previous candidate	• C-p • <up></up>	(ivy-previous-line)	Select previous candidate
Scroll to next page	C-v	(ivy-scroll-up-command)	Next page of candidates
Scroll to previous page	M-v	(ivy-scroll-down-command)	Previous page of candidates
Select first candidate	M-<	(ivy-beginning-of-buffer)	Select first candidate
Select last candidate	M->	(ivy-end-of-buffer)	Select last candidate
Keys for single selection	The following commands	act on a single item selection.	
Select candidate end exit	• C-m • RET	(ivy-done)	Exit the minibuffer with the selected candidate.  • Exit with the current action.
Select item and execute single action	М-о	(ivy-dispatching-done)	Select item and prompt for a specific action. One of:  o: default operation for the context. i: insert copied textin buffer w: copy selection text
Select candidate/ continue directory completion	С-ј	(ivy-alt-done &optional ARG)	Exit the minibuffer with the selected candidate.  • When the candidate is a directory, enter it. Otherwise, exit with the current action.  • When ARG is t, exit with current text, ignoring the candidates.
	Tab	(ivy-partial-or-done)	Complete the minibuffer text as much as possible.  • Attempt partial completion, extending the current input as much as possible.  • Tab Tab is the same as C-j.

Section of conditions with  **Comparison of the condition	<u>Operation</u>	<u>Keystroke</u>	Function	Note
Any votes by byprographic actions due to a supplication to see A Table - Childred gain whom any garder words with grow-every is LPCL adds the North Personal Control of the North Action o		С-м-ј	(ivy-immediate-done)	Exit with the current action, calling it on the current input instead of the current candidate.  This is useful especially when creating new files or directories - often the input will match an
Selections  C-N-Is  C-N-Is  C-N-Is  Op-rest line and call  C-N-Is  Op-prest line and call  Next spat at alter  minibility in history  Next spat in history  Next line in history  Next line in history  Pervious input in history  Sept dispression history  In-J dispression-history-  element  Sept dispression-history-  element  Op-pression-history-  In-J dispression-history-  element  Op-pression-history-  In-J dispression-history-  In-J dispression-history		_	(ivy-avy)	Any works by typing 2 characters that are replaced with a highlight to use.  The C-' binding only works in graphics mode. When pel-use-avy is t, PEL adds the M-H key binding that works also in terminal mode.  Requires the avy and ivy-avy external packages PEL activates both of them when the
C-N-a (by-read) C-18-b (by-read-fine-ind-call) C-28-b (by-read		The following commands	act on a multiple item selection	ı, which is used in some context.
C-M-P   (by-previous fine-and-call)   Combines C-p and C-M-m.   (C-M-D-D)   (by-dispatching call)   Not-wolding version of the ministudier input.   Market pate in history   Market polymorphisms   Select the next history demand or symbool. His. at pair.   Market pate in history   Market polymorphisms   Select the next history demand or symbool. His. at pair.   Market pate in history   Select the next history demand or symbool. His. at pair.   Market pate in history   Select the next history demand or symbool. His. at pair.   Market pate in history   Select the previous input or symbool. His. at pair.   Market pate in history   Select the previous history selected arms.   Market pate in history   Select the previous history selected arms.   Market pate in history   Select the previous history selected arms.   Market pate in history   Select the previous history selected arms.   Market pate in history   Select the previous history selected previous history   Select the previous history   Select the previous history selected previous history   Select the previous history selected previous   Select the previous history selected previous   Select the previous history selected previous   Select the previous history selected   Select the previous history   Select the previous history   Select the previous history selected   Select the previous history   Selected   Se	Selections	C-M-m	(ivy-call)	Non-exiting version of <b>C-m</b>
Keys that alter minuffild in put Not logic in history Previous input i		C-M-n	(ivy-next-line-and-call)	Combines <b>C-n</b> and <b>C-M-m</b> .
Previous Input in history   H-a   (injv-next-history-element)   Select the next history element or symbol/LFL at paint.		С-М-р	(ivy-previous-line-and-call)	Combines C-p and C-M-m.
Move to pure his bid.  Move the pure his bid.  Move to previous pattern.  Move to previ		С-М-о	(ivy-dispatching-call)	Non-exiting version of <b>M-o</b>
Previous input in history    C	_	The following commands	modify the user input, using the	e history of previously selected items.
defended   Start a recurrière completion season to select a history exement.	Next input in history	M-n	(ivy-next-history-element)	Select the next history element or symbol/URL at point.
Narrow selection to current matches   S-SPC   Bry-restrict-to-matches	Previous input in history	М-р	1	Select the previous history element or symbol/URL at point.
Narrow selection to current matches  - C-SPC  - Cape decition in kill ring  - Www.		C-r	,	·
Copy selections in kill  K-w (ivy-kill-ring-save) Copies the selected candidates to the kill ring; when the region is active, copies the active region.  Copy selections in kill  K-w (ivy-kill-ring-save) Copies the selected candidates to the kill ring; when the region is active, copies the active region.  Lat selection in buffer  Lat selection in peparate Copies (ivy-occur) Saves the current candidates to a new buffer; the last is active in the new buffer.  Select item from buffer  **Page 4 (ivy-occur) Saves the current candidates to a new buffer; the last is active in the new buffer.  **Design buffer 4 (ivy-occur) Saves the current candidates to a new buffer; the last is active in the new buffer.  **Design buffer 4 (ivy-occur) Press-and-switch)  **Using ivy Hydra  **Page 4 (ivy-occur) Press-and-switch)  **Using ivy Hydra  **Page 4 (ivy-occur) Press-and-switch)  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **Additionally, here are the keys that are otherwise not bound:  **	Norman salaction	-	,	<u>'</u>
Copy selections in kill ring  Saving current completion in buffer  List selection in separate buffer  List selection in separate buffer			(ivy-restrict-to-matches)	This is how Ivy provides narrowing in successive tiers.  The S-SPC binding only works in graphics mode. PEL adds the C-SPC key binding that
Region   R			(har bill size =)	Control the collected conditions to the till down than the control to
Last selection in separate buffer  Last selection in separate buffer  Last selection in separate buffer  REZ  (ivy-occur-press-and-switch)  Lising ivy Hydra  When in Hydra, C-o or I resumes editing, Hydra selection and the current action.  Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - Additionally, here are the keys that are otherwise not bound:  - The left the external package is very powerful and comes with a large set of features.  - The left the external package is very powerful and comes with a large set of features.  - The left the suptained as you by part of refine you are search pattern.  - The left is updated as you by part of refine you are search pattern.  - The left is updated as you by part of refine you are search pattern.  - You can also perform other actions on the selections such as opening a file as not. And you can perform a	ring	M-w	(ivy-kiii-ring-save)	
Select item from buffer  Select item from buffer  - xacuuse_1>  When in Hydra, C-o or i resumes editing.  Hydra editionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  Additionally, there are the keys that are otherwise not bound:  A life in the selection is the selection of the selection is the selection in the selection is the selection is continued in the selection is selected.  Whydroally the selection is the selection is selected.  While the selection is the selection is selected.  While the selection is the selection is selected.  While the selection is selected.  Helm Input  Completion  The Helm external package is very powerful and comes with a large set of features.  It does not use the minibulfer and does not use the stable key for completion, you just need to type some part of the text you search for and Helm we pattern match it. Once you enter a command with Helm input completion a Helm Luffer shows a list of potential match with the most probable on the value of the selection of the commands that open the Helm buffer the whey you type c—selection.  You can navigate the pattern match it is, select one or several matches for some of the commands that open the Helm buffer like when you type c—selection for the command you were executing.  And Helm comes with extensions of other commands, like running top and allowing pattern match to filter the list of processes you want to see.  See the document like "Appackage in alkague of its count helm" of more occurrities with a pattern wildow.  Pets s	_			
Using Ivy Hydra  - Vhon in Hydra, C-o or i resumes editing, - Hydra reduces key strokes, for example: C-n C-n C-n is C-o jjjj in Hydra. Besides certain shorter keys, Hydra shows useful info such case folding and the current action Additionally, there are the keys that are otherwise not bound: - Additionally, there are the keys that are otherwise not bound: - Additionally, there are the keys that are otherwise not bound: - Additionally, there are the keys that are otherwise not bound: - Additionally, there are the keys that are otherwise not bound: - Additionally, there are the keys that are otherwise not bound: - Additionally, the self-there is the self-there is the self-there is the self-there is the self-there Additionally, the self-there is the self-there is the self-there is the self-there is the self-there Whydra-hylbody Invokes Hydra when pel-use-hydra user option is set to t.  - Start ivy Hydra  - C-o (hydra-hylbody) Invokes Hydra when pel-use-hydra user option is set to t.  - Helm Input Completion  - The Helm external package is very powerful and comes with a large set of features It does not use the minibidifer and does not use the -stabs, with for completion you gust need to type some part of the text you search for and Helm vindow when it is opened You can resize the Helm window when it is opened You can resize the Helm window when it is opened You can also perform buffer or when you type C-b to switch/open other buffer or when you type C-b to switch/open other buffer or when you type C-b to switch/open other buffer or when you type C-b to find/open fleigh You can also perform other actions on the selections cust he sopening a file as soot. And you can perform a Helm action and keep the Helm window open (as it normally closes right after you made your selection for the commands that open the Helm buffer like when you type C-b to find/open fleigh You can also perform other actions on the selections cust he extended configuring pattern much list, select one or several matche		C-c C-o	(ivy-occur)	Saves the current candidates to a new buffer; the list is active in the new buffer.
Hydra reduces key strokes, for example: C=n. C=n. C=n. C=n. S=0 jijj in Hydra. Besides certain shorter keys, Hydra shows useful info such case reciding and the current action.     Additionally, here are the keys that are otherwise not bound: <ul> <li>Additionally, here are the keys that are otherwise not bound:</li></ul>	Select item from buffer		1	Used in the new buffer calls the appropriate action on the selected candidate.
## Helm Input Completion  The Helm external package is very powerful and comes with a large set of features.  • It does not use the minibuffer and does not use the t-tab- key for completion; you just need to type some part of the text you search for and Helm water match it. Once you enter a command with Helm input completion a Helm buffer shows a list of potential match with the most probable on to the list is updated as you type and refine your search pattern.  • You can navigate the pattern match list, select one or several matches (for some of the commands that open the Helm buffer like when you type C−s to is owitch/Open other buffer or when you type C−s to find/open file(s).  • You can also perform other actions on the selections such as opening a file as root. And you can perform a Helm action and keep the Helm window open (as it normally closes right after you made your selection for the command you were executing.  • And Helm comes with extensions of other commands. Helm for a more comprehensive overview with screen shots.  PEL provides a basic configuration for Helm that is similar to the extended config described in that document. But it does not set Helm values that can be customized. Customize Helm with M−x customize−group helm or with <fi>110 &lt; fi&gt;22 p helm. (See also:) (Sustomize)  PEL sets the Helm global prefix to be C−c b. Once helm mode is active (or ido/helm mode) you can execute global Helm commands via that prefix key the following sections describe the commands available inside Helm buffer window.  • The following sections describe the commands available inside Helm buffer window.  • C-t (helm-toggle-resplit-and-windows)  • C-t (helm-toggle-resplit-and-windows)  • C-n (helm-toggle-resplit-and-windows)  • C-n (helm-toggle-resplit-and-windows)  • C-n (helm-next-line &amp;optional ARG)  • C-n (helm-pext-line &amp;optional ARG)  • C-n (helm-pext-line &amp;optional ARG)  • C-n (helm-pext-line &amp;optional ARG)  • C-p (helm-pext-line &amp;optional ARG)  • Same behavior as 'helm-next-line' when called with a numer</fi>		<ul> <li>Additionally, here are the keys that are otherwise not bound:</li> <li>&lt; and &gt; adjust the height of the minibuffer.</li> <li>c (ivy-toggle-calling) - toggle calling the current action each time a different candidate is selected.</li> <li>M (ivy-rotate-preferred-builders) - rotate regex matcher.</li> <li>w and s scroll the actions list.</li> </ul>		
The Helm external package is very powerful and comes with a large set of features.  It does not use the minibuffer and does not use the -tabkey for completion; you just need to type some part of the text you search for and Helm we pattern match it. Once you enter a command with Helm input completion at Helm buffer shows a list of potential match with the most probable on to the pattern match it. Once you enter a command with Helm input completion at Helm buffer shows a list of potential match with the most probable on to the pattern match it. Once you enter a command with Helm input completion at Helm buffer shows a list of potential match with the most probable on to the pattern match it. Once you enter a command with Helm input completion at Helm buffer shows a list of potential match with the most probable on to the pattern match it. Once you used so you selection for some of the command you used the command so which you to go the command so with the pattern match to filter the list of processes you want to see.  You can also perform other actions on the selections such as opening a file as root. And you can perform a Helm action and keep the Helm window open (as it normally closes right after you made your selection for the command you were executing.  And Helm comes with extensions of other commands, like running top and allowing pattern match to filter the list of processes you want to see.  See the document title "A package in a league of its own: Helm" for a more comprehensive overview with screen shots.  PEL provides a basic configuration for Helm that is similar to the extended config described in that document. But it does not set Helm values that can be customized. Customize Helm with M—x customize—group helm model searched in that document. But it does not set Helm values that can be customized. Customize Helm with M—x customize—group helm model is active (or ido/helm mode) you can execute global Helm commands via that prefix key the provides a basic configuration for Helm that for a more provid	a			
**It does not use the minibuffer and does not use the -tab>-key for completion; you just need to type some part of the text you search for and Helm w pattern match its. Once you enter a command with Helm input completion a Helm buffer shows a list of potential match with the most probable on to The list is updated as you type and refine your search pattern.  **You can resize the Helm window when it is opened.**  **You can revize the Helm window when it is opened.**  **You can revize the Helm window when it is opened.**  **You can alwayea the pattern match list, select one or several matches (for some of the commands that open the Helm buffer like when you type C-x C-f to find/open file(s).  **You can alwayea the pattern match list, select one or several matches (for some of the commands that open the Helm buffer like when you type C-x C-f to find/open file(s).  **You can alwayea the pattern match list, select one or several matches (for some of the commands that open the Helm buffer like when you type C-x C-f to find/open file(s).  **You can alwayea the pattern match list, select one or several matches (for some of the commands that open the Helm buffer window open (as it normally closes right after you made your selection for the command you were executing.  **And Helm comes with extensions of other commands, like running top and allowing pattern and to filter the list of processes you want to see.  **See the document title "A package in a league of its own: Helm" for a more comprehensive overview with screen shots.  **PEL provides a basic configuration for Helm that is similar to the extended config described in that document. But it does not set Helm values that can be customized. Customized Helm window for a more comprehensive overview with screen shots.  **PEL provides a basic configuration for Helm that is similar to the extended config described in that document. But it does not set Helm walues that can be customized. Customized Helm window sections as a section of the saction of the filter window.  **PE			, , , , , ,	
Helm buffer  Resize Helm Window  Use the following command to reposition the Helm buffer window from horizontal to vertical, going through the 4 possible quadrants of the frame.  Resize Helm window  C-t  (helm-toggle-resplit-and-swap-windows)  Navigate Helm Pattern buffer  Move to next pattern  • C-n • <down>  (helm-next-line &amp; optional ARG)  Move selection to the next ARG line(s). • When numeric prefix arg is &gt; than the number of candidates, then move to the last candidates of current source (i.e. don't move to next source).  Move selection to the ARG previous line(s). • Same behavior as 'helm-next-line' when called with a numeric prefix arg.</down>		<ul> <li>It does not use the minibuffer and does not use the <tab> key for completion; you just need to type some part of the text you search for and Helm will pattern match it. Once you enter a command with Helm input completion a Helm buffer shows a list of potential match with the most probable on top. The list is updated as you type and refine your search pattern.</tab></li> <li>You can resize the Helm window when it is opened.</li> <li>You can navigate the pattern match list, select one or several matches (for some of the commands that open the Helm buffer like when you type C-x b to switch/open other buffer or when you type C-x C-f to find/open file(s).</li> <li>You can also perform other actions on the selections such as opening a file as root. And you can perform a Helm action and keep the Helm window open (as it normally closes right after you made your selection for the command you were executing.</li> <li>And Helm comes with extensions of other commands, like running top and allowing pattern match to filter the list of processes you want to see.</li> <li>See the document title "A package in a league of its own: Helm" for a more comprehensive overview with screen shots.</li> </ul>		
Resize Helm window  C-t  (helm-toggle-resplit-and-swap-windows)  Nulti key command to re-split and swap helm window. First call runs 'helm-toggle-resplit-window', and second call within 1s runs 'helm-swap-windows'.  Navigate Helm Pattern buffer  The following commands move the currently selected pattern line in the Helm pattern buffer list  Move to next pattern  C-n (helm-next-line &optional ARG)  Move selection to the next ARG line(s). When numeric prefix arg is > than the number of candidates, then move to the last candidate of current source (i.e. don't move to next source).  Move to previous pattern  C-p (helm-previous-line &optional ARG)  Nove selection to the ARG previous line(s). Same behavior as 'helm-next-line' when called with a numeric prefix arg.	Helm buffer			
Swap-windows   First call runs 'helm-toggle-resplit-window', and second call within 1s runs 'helm-swap-windows'.		_	-	
Move to next pattern  C-n (helm-next-line &optional ARG)  Move selection to the next ARG line(s).  When numeric prefix arg is > than the number of candidates, then move to the last candidate of current source (i.e. don't move to next source).  Move to previous pattern  C-p (helm-previous-line &optional ARG)  Move selection to the ARG previous line(s).  Same behavior as 'helm-next-line' when called with a numeric prefix arg.	nesize neim window	C-E		First call runs 'helm-toggle-resplit-window', and second call within 1s runs 'helm-swap-
Move to next pattern  • C-n • <down>  (helm-next-line &amp;optional ARG)  Move selection to the next ARG line(s). • When numeric prefix arg is &gt; than the number of candidates, then move to the last candidates of current source (i.e. don't move to next source).  Move to previous pattern  • C-p • <up> (helm-previous-line &amp;optional ARG)  Move selection to the ARG previous line(s). • Same behavior as 'helm-next-line' when called with a numeric prefix arg.</up></down>		The following commands	move the currently selected pa	ttern line in the Helm pattern buffer list
• <up> &amp;optional ARG) • Same behavior as 'helm-next-line' when called with a numeric prefix arg.</up>				When numeric prefix arg is > than the number of candidates, then move to the last candidate
Move down 1 page (helm-next-page) Move selection forward with a pageful	Move to previous pattern	_		
• <pgdn></pgdn>	Move down 1 page	• C-v • <pgdn></pgdn>	(helm-next-page)	Move selection forward with a pageful.
Move up 1 page  • M-v  • <pgup>  (helm-previous-page) Move selection back with a pageful.</pgup>	Move up 1 page		(helm-previous-page)	Move selection back with a pageful.

<u>Operation</u>	<u>Keystroke</u>	Function	<u>Note</u>
Move to top of list	M-<	(helm-beginning-of-buffer)	Move selection at the top of helm buffer list.
Move to end of list	M->	(helm-end-of-buffer)	Move selection at the bottom of helm buffer list.
Select patterns in Helm Pattern buffer	The following commands, available only for some input lists, allow you to mark several patterns to be processed.		
Toggle line selection	• C-SPC • C-@	(helm-toggle-visible-mark ARG)	Toggle helm visible mark at point ARG times.  If ARG is negative toggle backward.
Select all	м-а	(helm-mark-all &optional ALL)	Mark all visible unmarked candidates in current source.  • With a prefix arg mark all visible unmarked candidates in all sources.
Operate on selection	The following commands	are used to act on the selected	litems from the Helm list
Copy Helm selection to current buffer	• C-c C-i • C-c <tab></tab>	(helm-copy-to-buffer)	Copy selection or marked candidates to 'helm-current-buffer'.  Note that the real values of candidates are copied and not the display values.
Act on current selection(s)	RET	(helm-maybe-exit- minibuffer)	If Helm session has completed the search and is displaying the result, exit the helm session and act on the current selection, doing what corresponds to the command that launched the Helm session.  • The action applies to all selected candidates and is applied inside the window that was current when the Helm session started. so if point is inside window A when you issue a C-x C-f command to find a file and select several files then these files will be opened in buffers whose window will split the area of the previous window A.
Act on current selection(s)  List possible actions First is the native action Other possible actions follow. The list depends on the original command.	• <tab> • C-i</tab>	(helm-select-action)	Select an action for the currently selected candidate(s).  If action buffer is selected, back to the helm buffer.  If several actions are possible, display a menu of possible actions, their assigned function key (for the first 12 possible action), a short descriptive link that may include possible key binding for the action.  The list of possible actions can be quite long. For example, the list of actions shown in a Helm session opened to visit a file can include about 50 different actions that range from just visiting the file to diffing it, making a backup, compiling it, opening in hexadecimal editing, etc  The action applies to all selected candidates and is applied inside the window that was current when the Helm session started. so if point is inside window A when you issue a C-x C-f command to find a file and select several files then these files will be opened in buffers whose window will split the area of the previous window A.
Perform action on current pattern without quitting Helm	• C-j • C-M-i	(helm-execute-persistent- action &optional ATTR SPLIT)	Perform the associated action ATTR without quitting helm.  • The action applies to the current pattern, not lines that might have been selected.
Helm Help	Once Helm is running the	following command open Helm	ns manual.
Open Helm Manual (in Org mode format)	• C-h m • C-c ?	(helm-help)	Generate helm's help according to 'help-message' attribute.  If 'helm-buffer' is empty, provide completions on 'helm-sources' to choose its local documentation.  If source doesn't have any 'help-message' attribute, a generic message explaining this is added instead.  The global 'helm-help-message' is always added after this local help.
Launching Helm Search	The rest of this table	needs to be completed.	
Helm special commands		ing commands that integrate will light the light mode is active the <b>F</b>	th other tools.  11> h key prefix is active giving quick access to these useful helm commands.