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Name: **Prefix-1**

Description:

*Prefix-1* is a command to access an auxiliary keymap in the Emacs tradition. There are 3 such keymaps: the default keymap, the *Prefix-1* keymap and the *Prefix-2* keymap. *Prefix-1* is always bound to <ESC>. Normally, the user need not be aware of this command; it simply exists more commands can be run from the keyboard. You can think of it as a different kind of shift key.

See Also: *Prefix-2*

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Name: **Prefix-2**

Description:

*Prefix-2* is the command to access the second auxiliary keymap. *Prefix-2* is always bound to <C-X>.

See Also: *Prefix-1*

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Name: **ansi-keys**

Description:

This function interprets the codes sent by the Sun function keys and attempts to do something intelligent with them. The best solution would be to be able to map each of them to a function just like any other key. But since the function keys generate strings of characters, it isn't easy to incorporate them into *dvitool*'s key binding scheme. So instead *dvitool* interprets each sequence and runs a command from a private key map, much like the key map the menu uses. The person who installed *dvitool* can change the default bindings for the function keys; the normal defaults are "unbound" for every key except the arrow keys on the right keypad which scroll, L5 which runs *toggle-tool*, and L7 which runs *close-window*. These binding are site-wide; once compiled in by the installer, they cannot be changed by individual users. This command is something of a hack; it was never intended to be run intentionally by the user. It's ability to interpret the ANSI sequences depends on it being bound to \e[ and you will after you type some additional input, you will get innocuous error messages if you run *ansi-keys* manually. For all its short comings though, it does suppress the unwanted characters that result when your fingers slip onto one of the function keys.

See Also: *enable-ansi-keys*

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Name: **ascii-of-selection**

Description:

This function displays a previously-made selection in ASCII to make it easier to determine what the correct search string for the selection would be.

See Also: *erase-selection*, *extend-selection*, *select-char*

---

Name: **beginning-of-file**

Description:

This command positions `dvitool` on the first page of the DVI file.

See Also: *end-of-file*

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Name: **bind-to-key**

Usage: **function-name** **key-strokes**

Description:

This command “binds” a key (or keys) to a function that will be executed when that key is pressed. The binding’s life is the life of the `dvitool` that executed it; to get bindings which take effect on every instance of `dvitool`, put the *bind-to-key* command in your startup file. Control and mouse characters have ASCII representations which must be used in the startup file. *Describe-key* displays what command a particular key sequence will invoke; as a side effect, it also displays the ASCII representation of the sequence, so it can be used to easily determine the correct ASCII representation for any valid input.

See Also: *describe-key*, *dump-bindings*, *Startup-File*

---

Name: **bottom-edge**

Description:

This command positions the page image so the bottom edge of the current DVI page is visible. If a numeric argument is given, the bottom edge of the visible page (without the bottom margin) will be shown.

See Also: *bottom-left*, *bottom-right*, *top-edge*

---

Name: **bottom-left**

Description:

This command positions the DVI page so the bottom left hand corner is visible. If a numeric argument is given, the bottom left corner of the visible page (without the margins) will be shown.

See Also: *bottom-edge*, *bottom-right*, *top-left*

---

Name: **bottom-right**

Description:

This command positions the DVI page so the bottom right hand corner is visible.

See Also: *bottom-edge*, *bottom-left*, *top-right*

---

Name: **bound-to**

Usage: **command name**

Description:

This command describes all of the key strokes that will invoke **command name** separated by commas.

See Also: *dump-bindings*

---

Name: **cd**

Usage: **filename**

Description:

This command is similiar to the *sh(1)* or *cs(1)* commands of the same name; it changes the directory. When it is given a null argument, it changes to the user's home directory. The working directory can be viewed with the *print* command; it can also be altered with the *set* command, but since *cd* takes a file name which can be completed on, and *cwd* is considered a string when changed with *set*, it is generally easier to use *cd*.

See Also: *cwd*, *print*, *set*

---

Name: **close-window**

Description:

This command “closes” *dvitool* to a small iconic shape. The image that is painted and the position at which the image is painted are controlled by user-definable variables.

See Also: *init-icon-file*, *init-icon-x*, *init-icon-y*

---

Name: **describe-key**

Usage: **key-strokes**

Description:

This command identifies what command a sequence of keystrokes will invoke. In the process it also echos the ASCII character sequences `dvitool` uses to represent all of the different input combinations. This means that you don't have to remember that control-shift-middle-mouse button is represented as `\m\~M`; *describe-key* will tell you that.

See Also: *bind-to-key*, *dump-bindings*

---

Name: **dump-bindings**

Description:

This command creates a file in the current directory called `dvitool.bindings` that describes which command each of the possible keyboard and mouse combinations will invoke.

See Also: *bind-to-key*, *dump-commands*

---

Name: **dump-commands**

Description:

This command creates a file in the current directory called `dvitool.commands` that describes each of the `dvitool` commands, the type of arguments that it takes, and the key strokes it is bound to separated by commas. In addition, all of the `dvitool` variables and the their types are described.

See Also: *dump-bindings*

---

Name: **end-of-file**

Description:

This command positions `dvitool` on the last page of the DVI file.

See Also: *beginning-of-file*

---

Name: **erase-selection**

Description:

This command erases the current selection, if any. It is primarily used to ensure that a search operation begins at the top of the page. A search begins at the end of the current selection, if any, or the top of the page, so erasing the current selection guarantees that the search will begin at the top of the current page.

See Also: *select-char*

---

Name: **exec**

Usage: **command name**

Description:

*Exec* is the most general way to run a **dvitool** command. *Exec* takes a (possibly completed) string and looks in its table of command names. If some command name exactly matches the string, then that command is executed. Since the command name argument to *exec* is subject to completion, a quick way to see all of **dvitool**'s commands is to type `<ESC>x?`.

---

Name: **exit**

Description:

This is the command to use when you wish to end your session with **dvitool**. It is usually bound to `e`, `<C-C>`, and `<C-X><C-C>`.

---

Name: **exit-help**

Description:

This command exits from the last instance of help to the document you were viewing before you invoked help. If the stack of help entries is empty, an error message is printed.

See Also: *help-commands*, *help-overview*, *help-variables*

---

Name: **expose-tool**

Description:

This command behaves exactly the same as the “expose” entry on a the standard tool menu; i.e. it causes a partially covered **dvitool** to become the topmost tool, and thus unobscured. If **dvitool** is not covered by some other tool, this command is a no-op.

See Also: *hide-tool*, *toggle-tool*

---

Name: **extend-selection**

Description:

This command extends a previously made selection to include new characters. The command *select-char* only selects 1 character; thus, the usual method to selection a region of characters is to first select one boundary character with *select-char* and then to select the region by selecting the other boundary character with *extend-selection*. It is an error to run this command with no current selection.

See Also: *ascii-of-selection*, *erase-selection*, *select-char*

---

Name: **find-file**

Usage: **filename**

Description:

This command is the main entry point for viewing a DVI file. *Find-file* takes a filename, expands ~ and \$ characters into home directories and environment variables respectively, appends .dvi if necessary and attempts to read the file and display it. Various error messages are issued if the named file is not a DVI file or if it malformed etc. The argument filename is subject to completion, so at any time the user may enter a space character to attempt completion or a question mark to see the list of choices *dvitool* will select from. If a question mark or space character is needed in the filename itself, precede it with a backslash.

In addition to completion, there is “next file” and “previous file” selection, used in conjunction with the DVI files named on the command line. Control-N gets the next file name off of the list and control-P gets the previous file name. So to preview all of the chapters of your upcoming book, invoke *dvitool* like this: %\_dvitool\_ch\*.dvi and then use control-N and control-P to select which file you’d like to view. Just as with space and question mark, if you really want a control-N or a control-P in your filename, precede it with a backslash.

---

Name: **full-screen**

Description:

The *full-screen* command toggles the size of *dvitool* between as big as the physical screen will allow and whatever size it was before *full-screen* was invoked.

See Also: *zoom-horizontal*, *zoom-vertical*

---

Name: **goto-manuscript-page**

Usage: **string**

Description:

This command searches for a specific page by examining between 1 and 10 of T<sub>E</sub>X's `\count` variables. Each page of a DVI file contains the value of these 10 variables when it was shipped out; with the proper macro definitions, any number of section, chapter, or heading configurations can be described with them. The string that *goto-manuscript-page* takes is parsed into up to 10 fields; then each of the `\count` fields of each page is compared with the parsed string until either a match is found or until all the pages have been examined. The format for the search string is *n*[.*n*]*...* where *n* is either a decimal number or the asterisk character \*. The dot character is a field separator. Thus, assuming the the appropriate macros have put the chapter number into `\count1`, the string *\*.4* will find the first page of chapter 4 beyond the current page.

*Goto-manuscript-page* also accepts strings of roman numerals as input.

See Also: *goto-physical-page*

---

Name: **goto-physical-page**

Usage: **integer**

Description:

This command provides an alternative way to *goto-manuscript-page* to seek to a DVI page. Instead of the complexity of `\count` variables, *goto-physical-page* simply displays the *n*th page of the file. Thus, *goto-physical-page* with an argument of 1 is semantically equivalent to *beginning-of-file*.

See Also: *goto-manuscript-page*

---

Name: **help-commands**

Usage: **help command name**

Description:

This command displays the `dvitool` command help file and then searches for the optional argument in that file. The argument is subject to completion. If completion is used to generate the search string, a match is guaranteed. The user may type in an arbitrary string as an argument.

See Also: *help-overview*, *help-variables*

---

Name: **help-overview**

Usage: **help overview string**

Description:

This command displays the overview file which describes the general mechanisms of `dvitool`. The optional string argument describes a search string to search for in the overview file. If completion is used to generate the string, a match is guaranteed; however, the user may search for arbitrary strings in the overview file.

See Also: *help-commands*, *help-variables*

---

Name: **help-variables**

Usage: **help variable name**

Description:

Like *help-commands*, this command displays the `dvitool` variable help file and then searches for an optional string in that file. If completion is used to generate the search string, then a match is guaranteed; the user may supply arbitrary strings though.

See Also: *help-commands*, *help-overview*

---

Name: **hide-tool**

Description:

This command behaves exactly the same as the “Hide” option of the standard tool menu; i.e. it causes `dvitool` to be placed at the bottom of the stack of visible tools.

See Also: *expose-tool*, *toggle-tool*

---

Name: **left-edge**

Description:

This command positions the page image so the left edge of the page is visible. If a numeric argument is given, the left edge of the visible page (without the margin) will be shown. This command is commonly used when one wants to see the maximum amount of visible page.

See Also: *bottom-left*, *right-edge*, *top-left*

---

Name: **list-all-commands**

Description:

This command simply displays the names of all of the commands.

See Also: *dump-commands*, *list-all-variables*



---

Name: **list-all-variables**

Description:

This command simply displays the names of all of the variables.

See Also: *dump-commands*, *list-all-commands*

---

Name: **magstep-0**

Description:

This function displays the DVI file at its normal size. It is a no-op unless the file has previous been displayed at some other magstep. Note that magnification in `dvitool` is global, that is, everything including the width of the page and the margins will be affected by the magnification routines. There is no analogy to T<sub>E</sub>X's true points in `dvitool`.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-1**

Description:

This command magnifies the document to 120 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-2**

Description:

This command magnifies the document to 144 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-3**

Description:

This command magnifies the document to 172.8 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-4**

Description:

This command magnifies the document to 207.4 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-5**

Description:

This command magnifies the document to 248.8 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-minus-1**

Description:

This command shrinks the document to 83.3 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-minus-2**

Description:

This command shrinks the document to 69.4 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-minus-3**

Description:

This command shrinks the document to 57.9 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-minus-4**

Description:

This command shrinks the document to 48.2 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **magstep-minus-5**

Description:

This command shrinks the document to 40.2 percent of its *magstep-0* size.

See Also: *magstep-minus-5...magstep-5*

---

Name: **mouse-menus**

Description:

This command invokes the menus. It may only be executed in response to a mouse button, though *bind-to-key* will bind it anywhere.

---

Name: **next-page**

Description:

This is the normal command to page through the DVI file. It displays the next page of the document with the upper left hand corner of the page visible, easing the normal reading flow from the bottom of one page to the top of the next.

See Also: *goto-manuscript-page*, *next-page-positioned*, *previous-page*

---

Name: **next-page-positioned**

Description:

This command displays the next page of the DVI file at the same position on the page as the current page. Thus, if you are viewing the bottom of one page and want to see the bottom of the next page, this command suffices.

See Also: *next-page*, *previous-page-positioned*

---

Name: **numeric-argument**

Description:

This command is used to enter a “count” which can be interpreted by functions that take an integer as their first argument. It is a prefix argument that is zeroed after each command. The command interpreter checks each time a command is run for a non-zero value of the numeric argument. If it is non-zero and the first argument of the command being executed is of type integer, the command interpreter substitutes the numeric argument for the command argument. For example, *goto-physical-page* takes a single integer argument and is usually bound to **G**. So the character sequence **1G** will position **dvitool** on the first page of the DVI file. Other commands use the presence or absence of a numeric argument as a switch; for example, the edge commands act differently when a numeric argument is present.

---

Name: **previous-page**

Description:

This is the previous analog to *next-page*.

See Also: *next-page*, *previous-page-positioned*

---

Name: **previous-page-positioned**

Description:

This command is the previous analog to *next-page-positioned*.

See Also: *next-page-positioned*, *previous-page*

---

Name: **print**

Usage: **variable name**

Description:

This function shows the value of `dvitool`'s internal variables.

See Also: *set*

---

Name: **redraw-tool**

Description:

This command behaves exactly the same as the “Redisplay” option of the standard tool menu; i.e. it causes `dvitool` to repaint all of its windows.

---

Name: **reload-fonts**

Description:

This function is identical to *reread-file* except that before the file is reread, all of the characters in the font cache are flushed. This command is most useful when some of the pixel images of characters in a DVI file have changed.

See Also: *reread-file*

---

Name: **reread-file**

Description:

This command reloads and redisplay the current DVI file. It is most useful when in the edit- $\text{\TeX}$ -preview cycle.

See Also: *find-file*

---

Name: **right-edge**

Description:

This command positions the page image so the right edge of the current DVI page is visible. If a numeric argument is given, the right edge of the visible page (without the margin) will be shown. This command is commonly used when one wants to see the maximum amount of visible page.

See Also: *bottom-right*, *left-edge*, *top-right*

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---

Name: **scroll-absolute**

Usage: **integer**

Description:

This command scrolls down vertically down the page by the amount of the argument. The argument is a percentage between 0 and 100 of the page to scroll down.

See Also: *scroll-down*

---

Name: **scroll-down**

Description:

This command scrolls the page image down in the window if there is any more of the page to display vertically. The amount scrolled by default is 1/3 of the vertical size of the window; the default can be changed by supplying a numeric argument. That argument is taken as the denominator of the fraction of the window to scroll down. For example, the keystrokes 10d will scroll down by 1/10 the vertical size of the window.

See Also: *numeric-arg*, *scroll-left*, *scroll-right*, *scroll-up*

---

Name: **scroll-left**

Description:

This command is the leftward analog of *scroll-down*.

See Also: *scroll-down*

---

Name: **scroll-right**

Description:

This command is the rightward analog of *scroll-down*.

See Also: *scroll-down*

---

Name: **scroll-up**

Description:

This command is the upward analog of *scroll-down*.

See Also: *scroll-down*

---

Name: **search-backward**

Usage: **literal-string**

Description:

This command is exactly like *search-forward* except that it searches backwards through the document instead of forwards, and the search is begun either from the last character of the page, or the character before the first character of the selection.

See Also: *search-backward-by-font*, *search-forward*

---

Name: **search-backward-by-font**

Usage: **font-name literal-string**

Description:

This command is exactly like *search-backward* except that a **SET\_CHAR** must be in the named font to be a match.

See Also: *search-backward*, *search-forward*

---

Name: **search-forward**

Usage: **literal-string**

Description:

This command searches forward sequentially from a point on the current page for a string of characters in the DVI file. The string is first parsed for any control sequences (any sequence of characters beginning with the backslash (‘\’) character.) Then the search begins, either at the first character on the page if there is no selection on the current page or at the first character after the selection. Each character in the search string is compared with a **SET\_CHAR** operand in the DVI file or with a dvitool-created logical space character that matches an ASCII space character. The character matches if the integer parameter to the **SET\_CHAR** matches the integer value of the ASCII character. If the end of the search string is reached, a match is reported. Note that a match which spans a page boundary will not be found. The variables *kern-threshold* and *line-break-threshold* control how dvitool decides whether movements are interword spaces or kerns.

Since a match is based on the position of the character in the font, ligatures, in particular require some special handling. The “fi” ligature for example is at position 12 decimal in the roman font family. This corresponds to the ASCII character control-L. So to search for the word “file”, you must use the string `\^Lle`. The command *ascii-of-selection* greatly eases the task of computing the proper search string for a selection.

Searches can be aborted prematurely by hitting the L1 key (usually the key at the upper-left most position on the keyboard). This is the same key that is used to reboot the machine, but you needn't hold it down like a control key to make it work; just depress it and release it. Every so often `dvitool` will check to see if the key has been depressed and will terminate the search if it has. This key is effective only in the search functions.

See Also: *ascii-of-selection*, *kern-threshold*, *line-break-threshold*, *search-backward*, *search-forward-by-font*

---

Name: **search-forward-by-font**

Usage: **font-name literal-string**

Description:

This command is exactly like *search-forward* except that a `SET_CHAR` must be in the named font to be a match.

`Dvitool` keeps a cache of all the fonts you've used, so the fonts presented as choices for the *font-name* argument may or may not actually be in your DVI file. This isn't a major concern, however, since `dvitool` will just issue an innocuous error message if you ask to restrict searching to a font that doesn't exist in your current DVI file.

See Also: *search-forward*

---

Name: **select-char**

Description:

This command makes a single character of the DVI file the current selection. The character chosen is highlighted by displaying it in inverse video. It may only be executed in response to an input from the mouse. To extend the selection to more than one character, use *extend-selection*. A "double click" will select a word (a sequence of contiguous non-space characters).

See Also: *ascii-of-selection*, *extend-selection*, *which-char*, *which-font*

---

Name: **set**

Usage: **variable name value string**

Description:

This command is used to change the value of `dvitool`'s variables. It can be run interactively, but is used most often in the user's `.dvitoolrc` file to customize `dvitool`'s behavior. This first argument is the name of the variable to change and the second argument is the value to change it to. The second argument will of

course vary depending on the type of the variable to be changed; to get the previous contents of the variable, type your **rprnt** character (usually control-R, see *stty(1)*).

See Also: *print*

---

Name: **toggle-tool**

Description:

This command puts **dvitool** at the top of the windows visible on the screen unless it already is the top window; in that case it puts it on the bottom of the stack.

See Also: *expose-tool*, *hide-tool*

---

Name: **top-edge**

Description:

This command positions the page image so the top edge of the current **DVI** page is visible. If a numeric argument is given, the top edge of the visible page (without the top margin) will be shown.

See Also: *top-left*, *top-right*, *bottom-edge*

---

Name: **top-left**

Description:

This command positions the **DVI** page so the top left hand corner is visible. If a numeric argument is given, the top left corner of the visible page (without the margins) will be shown.

See Also: *top-edge*, *top-right*, *bottom-left*

---

Name: **top-right**

Description:

This command positions the **DVI** page so the top right hand corner is visible. If a numeric argument is given, the top right corner of the visible page (without the margins) will be shown.

See Also: *top-edge*, *top-left*, *bottom-right*

---

Name: **version**

Description:

Print a string which contains the version number of **dvitool**.



---

Name: **which-char**

Description:

This command describes some of the properties of the first character of the selection. It reports the font name and the position of the character in the font in decimal, octal, and hexadecimal. If the selection contains more than one character, it is trimmed down to the first character in the selection and the information is reported on that character.

See Also: *ascii-of-selection*, *which-font*

---

Name: **which-font**

Description:

This command reports the font name of the characters in the selection. If there are characters from more than one font in the selection, the selection is first trimmed to include only characters from the same font as the first character in the selection.

See Also: *ascii-of-selection*, *which-char*

---

Name: **zoom-horizontal**

Description:

Make `dvitool` as wide as the physical screen. Like *full-screen* and *zoom-vertical*, this command is a toggle; running it again will return `dvitool` to its previous dimensions.

See Also: *full-screen*, *zoom-vertical*

---

Name: **zoom-vertical**

Description:

This command offers the same functionality as clicking control middle button on the name stripe, e.g. the tool becomes as tall as the physical screen while retaining the current width. This command is a toggle; running it again will return `dvitool` to its previous dimensions.

See Also: *full-screen*, *zoom-horizontal*