

6. OPTIONS

Options are a primary means of configuring the appearance and behavior of elvis. They are set via the `:set` command, or the `:let` command. The options' values are examined directly by elvis internally, and can also be displayed via `:set`, or in an expression. The following tables list the names, type, group, and description of each option. One table lists all options alphabetically, and the other breaks list down into groups of related options. I recommend the latter, since there are a *lot* of options.

Most options have two *names* -- a short name that is easy to type in, and a longer descriptive name. You can type in either name; they work equivalently. Elvis always outputs the longer name when it is listing values.

Each option accepts a specific *type* of value. The most common types are **boolean**, **number**, **string**, and **one-of**, but some options have weird types.

Each option serves as an attribute of something. The *group* of an option designates what it is an attribute of. For example, the "filename" option is an attribute of buffers; when you switch to a different buffer, it will have a different value for the "filename" option. Other options are attributes of windows, or display modes, etc. Here's a complete list:

GROUP	DESCRIPTION
buf	Attributes of buffers
win	Attributes of windows
syntax	Attributes of the "syntax" display mode
x11	Attributes of the "x11" user interface
tcap	Attributes of the "termcap" user interface
windows	Attributes of the "windows" user interface
win32	User interface attributes for the Win32 port
global	Global options
lp	<u>Printing options</u>
user	User variables a - z (Global, useful in ex scripts)

You don't need to know an option's group to set that option. You can output the values of all options in a group by passing the group name followed by a question mark to the `:set` command. The following example outputs all of the attributes of the current buffer:

```
:set buf?
```

6.1 Options, grouped by function

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6.1.1 Options that relate the buffer to a file

OPTION NAMES	TYPE	GROUP	DESCRIPTION
filename, file	String	buf	name of file in buffer
bufname, buffer	String	buf	name of buffer
bufid, bufferid	Number	buf	ID number of user buffer
retain, ret	Boolean	buf	keep buffer in session file
modified, mod	Boolean	buf	buffer differs from file
edited, samename	Boolean	buf	buffer loaded from filename
newfile, new	Boolean	buf	filename doesn't exist yet
readonly, ro	Boolean	buf	don't overwrite filename
defaultreadonly, dro	Boolean	global	assume all files readonly
locked, lock	Boolean	win	prevent any alterations
autowrite, aw	Boolean	global	save file before switching
writeany, wa	Boolean	global	don't warn of existing file
backup, bk	Boolean	global	make *.bak file before write
undolevels, ul	Number	buf	number of undoable commands
beautify, bf	Boolean	global	strip ctrl chars from files

The *filename* option stores the name of the text file whose text was initially loaded into the buffer. If no file name is known (e.g., for an internal buffer or a new, untitled buffer) then this will be an empty string. The `:file` command can be used to change the filename. Also, the filename is set automatically when you write the buffer out, if it had no filename before.

The *bufname* option stores the name of the buffer. Usually this will be the same as the filename, but it can be different. Every buffer has a bufname, even if it doesn't have a filename. The name of a

buffer can be changed via the `:buffer` command.

For user buffers, the `bufid` option stores a unique id number for each buffer. Anyplace where you can use the `(name)` notation to specify a buffer, you can also use `(n)` as an abbreviation for the buffer whose `bufid=n`. Also, for filenames you can use `#n` for the filename of the buffer whose `bufid=n`.

The `retain` option indicates whether the buffer is intended to survive past the end of this elvis process. If this option is true and the `tempsession` option is false (`":set retain notempsession"`) then elvis will allow you to exit even if this buffer hasn't been saved since its last change. When you restart the session, the buffer will still exist with all its changed text intact. By default, the `retain` option is false (`":set noretain"`) because that mimics traditional vi behavior.

The `modified` option indicates whether the buffer has been modified since the last time it was written out completely.

The `edited` option indicates whether the filename option has been modified since the last time it was written out. If this option is false, elvis will be more cautious about writing the file out.

The `newfile` option indicates that when the buffer was created it tried to load the file identified by the filename option, but that file did not exist at that time.

The `readonly` option indicates that when the buffer was loaded, the original file was marked as being unwritable. Either that, or the `defaultreadonly` option was set to true (probably via the `-R` command line flag). This option has two purposes: it gives you a way to detect that you can't write the file out, and it protects you from writing out a file that you meant to just look at without modifying.

The `locked` option prevents you from modifying the buffer. Nearly any command which would modify the buffer will fail. The only exceptions are "undo" commands, and commands such as `:e` which merely reload the buffer from its original file.

Setting the `autowrite` option allows elvis to automatically write the current buffer out to a file if it has been modified, before switching to another buffer. By default this option is off, so if you try to switch away from a modified buffer, elvis will just give an error message and refuse to switch until you manually write the file out.

Elvis tries to save you from accidentally clobbering existing files. Setting the `writeany` option disables this protection; elvis will allow you to overwrite any file that the operating system will allow, without giving any warnings.

The `backup` option isn't used internally by elvis, but the default `elvis.bwf` file checks this flag to determine whether it should attempt to make a backup of a file it is about to overwrite. By default, this option is false, so backups will not be made.

For each buffer, the *undolevels* option indicates the number of "undo" versions elvis will maintain. Each undo level requires at least three blocks of the session file (typically 2K bytes each, 6K total) so you probably don't want to set this higher than 100 or so, and you probably want to keep it much lower. The default is 0, which is a special case that mimics vi's traditional behavior.

If the *beautify* option is true, then whenever elvis reads text from a file or external program, it will strip any control characters other than tab, linefeed or formfeed. This is false by default.

6.1.2 Statistics about a buffer

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>readeol, reol</u>	One of	buf	newline mode when reading
<u>writeeol, weol</u>	One of	global	newline mode when writing
<u>bufchars, bc</u>	Number	buf	number of characters
<u>buflines, bl</u>	Number	buf	number of lines
<u>partiallastline, pll</u>	Boolean	buf	file didn't end with newline
<u>errlines</u>	Number	buf	buflines when :make was run
<u>internal</u>	Boolean	buf	elvis requires this buffer
<u>putstyle, ps</u>	One of	buf	type of text in a cut buffer

The *readeol* option determines how elvis reads the file into a buffer. It can be one of the following:

- * **"unix"** The file is opened in binary mode, and any Line Feed characters in the file are converted to newline characters in the buffer.
- * **"dos"** The file is opened in binary mode, and any Carriage Return/Line Feed pairs from the file are converted to newline characters in the buffer.
- * **"mac"** The file is opened in binary mode, and any Carriage Return characters from the file are converted to newline characters in the buffer.
- * **"text"** The file is opened in text mode, and no other conversion takes place.
- * **"binary"** The file is opened in binary mode, and no conversion takes place.

The compiled-in default is "text", but the standard elvis.brf file sets it to a file-dependent value via the fileeol() function.

The *writeeol* option influences how elvis writes buffers out to a file. If a buffer's *readeol* option is set to "binary", then the value of *writeeol* is ignored for that buffer; the file will be written in binary. Otherwise it can be one of the following to determine the output format:

- * **"unix"** The file is opened in binary mode, and newlines are written out as Line Feed characters.
- * **"dos"** The file is opened in binary mode, and newlines are written out as Carriage Return/Line Feed pairs.
- * **"mac"** The file is opened in binary mode, and newlines are written out as Carriage Return characters.

- * **"text"** The file is opened in text mode, and no conversion takes place.
- * **"binary"** The file is opened in binary mode, and no conversion takes place.
- * **"same"** The value of the `readeol` option is used to control the output format.

The default value is "same". You might want to change that to some other mode to force the file to be written in a specific format; for example, setting it to "text" will cause a non-binary file to be written in the local text format.

The `bufchars` and `buflines` options indicate the number of characters and lines in the buffer, respectively. The `buflines` option works by counting newline characters; it is unaffected by vagaries of the display mode. These options can't be set.

The `partiallastline` option indicates whether the file's last line ended with a newline. Text files should always end with a newline. Traditionally, when vi loaded a file that contained a partial last line, it would append a newline to the edit buffer to complete that last line. The extra newline would be written out when the buffer was saved to a file. That's great for vi, but elvis can edit binary files as well as text, and appending newlines onto binary files could cause some problems. So elvis appends a newline just like vi, but also sets the `partiallastline` option to remind itself that when the buffer is saved in binary mode, the last newline should be omitted. Also, the `hex display mode` is smart enough to hide the added newline when this option is set.

The `errlines` option is used to store the number of lines that were in the buffer when the last `:make` or `:cc` command was run. Any difference between `buflines` and `errlines` is used to adjust the line numbers reported in any error messages, to compensate for lines which have been inserted or deleted since then.

The `internal` option indicates that elvis uses the buffer internally. Such buffers can't be deleted.

The `putstyle` option is only relevant for cut buffers. It indicates whether the cut buffer contains characters, whole lines, or a rectangular area. It is set automatically whenever you yank or cut text into a cut buffer; when you put (paste) the contents of that buffer, elvis checks the value of this option to determine how the text should be inserted into your edit buffer.

6.1.3 Options that affect movement commands

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<code>matchchar, mc</code>	String	global	characters matched by %
<code>paragraphs, para</code>	String	buf	nroff paragraph commands
<code>sections, sect</code>	String	buf	nroff section commands
<code>sentenceend, se</code>	String	global	punct at end of sentence
<code>sentencequote, sq</code>	String	global	punct allowed after se
<code>sentencegap, sg</code>	Number	global	spaces required after sq

<u>scroll, scr</u>	Number	win	scroll amount for ^D/^U
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The *matchchar* option stores a list of matching character pairs, for use by the % visual command. In each pair, the first character should be an opening parenthesis (or whatever) and the second character should be the corresponding closing parenthesis. If both characters are identical, then the % command will try to guess whether it should search forward or backward. The default value is `mc=[]{}()`, but you may wish to add `:set mc=[]{}()<>\\""` to your `~/ .exrc` (or `~/elvis.rc`) file.

The *paragraphs* option stores a list of two-letter nroff paragraph commands. This list is used by the | and | movement commands. Similarly, the *sections* option stores a list of section commands, affecting the [[and]] commands. Their defaults are `paragraphs="PPppIPLPQP"` and `sections="NHSHSSSEse"`.

The *sentenceend*, *sentencequote*, and *sentencegap* options all affect the | and | sentence motion commands. The *sentenceend* option is a list of punctuation characters which can appear at the end of a sentence. The *sentencegap* option is the number spaces that must follow a *sentenceend* character in order for it to count as the end of a sentence. The *sentencequote* option is a list of punctuation characters that can appear between the *sentenceend* character and the spaces. Their defaults are `sentenceend="?!."`, `sentencequote=")\\""`, and `sentencegap=2`, which meets the proposed POSIX specifications.

The *scroll* option indicates the number of lines that the ^U and ^D commands should scroll the screen by. Its default value is 12.

6.1.4 Options that affect input mode

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>autoindent, ai</u>	Boolean	buf	auto-indent new text
<u>inputtab, it</u>	One-Of	buf	input mode's (Tab) key
<u>smarttab, sta</u>	Boolean	global	if indenting, (Tab) shifts
<u>completebinary, cob</u>	Boolean	global	complete names of binaries?
<u>autotab, at</u>	Boolean	buf	allow autoindent to use '\t'
<u>tabstop, ts</u>	Number	buf	width of tabstop columns
<u>shiftwidth, sw</u>	Number	buf	width used by < and >
<u>textwidth, tw</u>	Number	buf	width for word-wrap, or 0
<u>wrapmargin, wm</u>	(weird)	win	set textwidth from right
<u>digraph, dig</u>	Boolean	global	allow X-backspace-Y entry

Setting the *autoindent* option causes elvis to automatically insert whitespace at the start of each line, to make it line up with the preceding line. This is convenient when you're editing C source code. It is off by default.

The *inputtab* option controls the behavior of the **Tab** key. It can be set to one of the following values:

- * **tab** - insert an actual tab character. This is the traditional vi

- behavior, and the default for user buffers.
- * **spaces** - insert enough space characters to look like a tab character.
 - * **filename** - attempt filename completion on the preceding word.
 - * **identifier** - attempt tag name completion on the preceding word. If the word is already complete, or if cursor isn't at the end of a word, then it inserts a plain tab character. This can be handy when you're editing source code.
 - * **ex** - a smarter version of filename completion, it knows enough about ex command line syntax to avoid some tabbing mistakes that the filename setting can make. It can also complete ex command names, tag names, option names, and option values. This is the default for the (Elvis ex history) buffer, which is used for entering in ex commands.

The *smarttab* option only affects the behavior of the **Tab** key in input mode, when the cursor is in the indentation portion of a line -- before the first nonwhitespace character. If this option is true, then **Tab** is treated like **^T**, so the line is shifted rightward by one shiftwidth. By default this option is false, so the **Tab** key is treated normally (in accordance with the *inputtab* option).

The *completebinary* option controls whether binary files are included in the list of possible filename completions. The default setting is *nocompletebinary*, so binary files are omitted. This is handy when you're editing source code -- if your directory contains "foo.c" and "foo.o" (or "FOO.OBJ" in the Land of the Lost), then typing f-o-o-TAB will complete the "foo.c" name.

The *autotab* option affects the behavior of the \leq and \geq operator commands, and the **^D** and **^T** input mode keystrokes. If *autotab* is true then elvis will include tab characters in the indentation whitespace; if it is false then the indentation whitespace will consist entirely of space characters. By default, it is true.

Note that if you start with a buffer which contains no tabs, and do a ":set inputtab=spaces noautotab" then no amount of editing will result in the buffer containing tabs... unless you get tricky with **^V** or something.

The *tabstop* option affects the way tab characters are displayed, by specifying how far apart the tab stops should be located. When elvis displays a file with tabs, it displays the tabs as a variable number of spaces. You should probably leave this option at its default value (8) since changing this will make your file look strange in any other context. If you want to use indentation levels of less than 8 characters, you're better off changing shiftwidth.

The *shiftwidth* option indicates how far left or right the \leq and \geq operator commands (and the **^D** and **^T** input mode keystrokes) should shift the line of text. This is used for adjusting the indentation of lines.

When editing a text file in "normal" display mode, the *textwidth* option can be used to cause word-wrap to occur when a line gets too long. The default value of *textwidth* is 0, which disables automatic

word-wrap. Setting it to any larger value causes word-wrap to occur when text is inserted into a line, causing that line to become wider than `textwidth` columns. (Note that this has nothing to do with the display formatting of the "html" and "man" display modes.)

The `wrapmargin` option is provided for backwards compatibility. It allows you to set the `textwidth` relative to the right edge of the window, instead of the left edge. This option's value is actually derived from the `textwidth` option's value and the window's width, so if you resize a window this option's value will appear to change to correspond to the new width; `textwidth` will not change.

Digraphs allow you to enter non-ASCII characters as a combination of two ASCII characters. There are two ways to enter digraphs: `^K X Y` and `X backspace Y`. The second form can cause some confusion if you're not expecting it, so the `digraph` option was created as a way to disable that second form. The first form of digraphs is always available. This option is false by default, to avoid the confusion.

6.1.5 Ex options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<code>prompt</code>	Boolean	global	issue ":" prompt in ex mode
<code>autoprint, ap</code>	Boolean	global	print current line in ex
<code>report</code>	Number	global	minimum # lines to report
<code>optionwidth, ow</code>	Number	global	widths of ":set all" values

The `prompt` option controls whether a ":" prompt is issued before reading each command line in EX mode. It is true by default, and should usually be left that way.

The `autoprint` option causes elvis to display the current line of the edit buffer in certain circumstances, while you're in EX mode. It is true by default.

The `report` option determines the minimum number of lines that must change in a file, before elvis will bother to display a count of the changed lines. As a special case, if `report=0` then it won't report any changes, or failed `:s/old/new/` commands. Its default value is 5, so small changes won't be reported but big ones will.

`optionwidth` sets a limit on how wide a single option can be when output by a `:set` or `:set all` command. Limiting the widths is a good idea, because otherwise a single option that has a long value could force the output to use fewer columns, forcing some options scrolling off the top of the screen before you can read them. The `:set` command likes to leave at least two spaces after each column. The default value is `optionwidth=24`, which guarantees that at least 3 columns can fit on an 80-character terminal, since $80/(24+2)=3$. Note that `optionwidth` has no effect on options that you explicitly name in a `:set` command; for example, `:set tags?` will show you the entire tag path regardless of the value of `optionwidth`.

6.1.6 Window statistics

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>windowid, id</u>	Number	win	ID number of current window
<u>columns, cols</u>	Number	win	width of window
<u>lines, rows</u>	Number	win	height of window

The *windowid* option stores the ID number of the current window. These window IDs are listed by the `:buffer` command. Some GUIs may also display the window ID as part of the window's title. This value is set to a unique value automatically when the window is created. You can't change it.

The *columns* and *lines* options indicate the size of the window.

6.1.7 Options affecting the appearance of text

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>list, li</u>	Boolean	win	show markups, newlines, etc.
<u>showmarkups, smu</u>	Boolean	global	show markup at cursor
<u>bufdisplay, bd</u>	String	buf	default display mode
<u>display, mode</u>	String	win	name of current display mode
<u>number, nu</u>	Boolean	win	display line numbers
<u>ruler, ru</u>	Boolean	win	display cursor's line/column
<u>showcmd, sc</u>	Boolean	win	display command characters
<u>showmatch, sm</u>	Boolean	win	highlight matching parens
<u>showmode, smd</u>	Boolean	win	display the command state
<u>showname, snm</u>	Boolean	global	display the buffer name
<u>showtag, st</u>	Boolean	global	display tag on status line
<u>nonascii, asc</u>	One-Of	global	how to display non-ascii
<u>showstack, sstk</u>	Boolean	win	display some debugging info

In the "normal" or "syntax" display modes, the *list* option causes tab characters to be shown as ^I instead of being expanded to the appropriate amount of whitespace, and it causes the end of each line to be marked with a \$ character. In "html" or "man" mode, it causes all of the markups to be displayed.

In "html" or "man" mode, the *showmarkups* option causes the markup at the cursor to be displayed, but leaves other markups hidden. It has no effect in other display modes. This option is off by default, so markups won't suddenly become visible as you move the cursor around.

Each buffer has a *bufdisplay* option, which indicates that buffer's preferred display mode. Whenever a window starts to show a buffer, it switches its display mode to that buffer's *bufdisplay* mode. You should set *bufdisplay* to the name of a supported display mode: **normal**, **syntax**, **html**, **man**, **tex**, or **hex**. The compiled-in default is **normal** but the standard `elvis.arf` file tries to choose a more clever default, based on the extension of the buffer's filename.

The *display* option indicates which display mode the window is currently in. You can't set this option directly; you must use the :display command instead.

The *number* option causes a line number to be prepended to the start of each line. The line numbers are defined as "one plus the number of newlines preceding the start of the line," which is not necessarily how the current display mode defines lines. Consequently, the line numbers may not increment by 1 every time. These line numbers *do* correspond to the ruler and the visual G command, though. This option is false by default.

The *ruler* option causes the current line number and column number to be displayed at the bottom of the screen. This uses the same definition of "line number" as the number option, above. This option is false by default.

When entering multi-character commands, the *showcmd* option causes the preceding characters of the command to be displayed at the bottom of the window.

The *showmatch* option helps you locate matching parentheses. When you're in input mode, and you type a `)`, `]`, or `}` character, elvis will cause the matching `(`, `[`, or `{` character to be highlighted on the screen. This option is false by default.

The *showmode* option causes elvis to display a one-word label for its current parse state in the lower right-hand corner of the window. Usually, this will be either "Command" or "Input". This option is false by default, but I suggest you make it true because it really is handy.

The *showname* option causes elvis to display the buffer name on the bottom row of each window, unless it has something else to show there such as an error message.

The *showtag* option causes elvis to display (on the bottom row of each window) the name of the tag being defined at the cursor's position. Usually, this means it tells you the name of the function you're editing. When this option is true, each time you load a text file into an edit buffer elvis will scan the "tags" file for any tags which are defined in the text file. Elvis builds a table of those tags, and stores it in RAM for the sake of speed. Then, each time the window is updated, elvis will compare the cursor position to the definition lines of each tag, and display the name of the last tag it found which is defined at or before the cursor position. By default, this option is false because the tag loading can be slow.

The version of ctags distributed with elvis has a `-l` flag which causes it to generate "ln" hints, which give the line number where the tag is defined. Elvis can use these hints to greatly accelerate the loading of tags when you switch files. The `-l` option is enabled by default if you don't give any flags, so you don't need to give it explicitly unless you're also giving some other flags.

NOTE: The MS-DOS version of elvis is normally configured to omit the showtag option, because memory is tight in the lower 640K.

The *nonascii* option tells elvis how to display characters 0x80 through 0xff. It can have one of the following values:

VALUE	MEANING
all	All characters 0x80-0xff are visible
most	Chars 0xa0-0xff are visible, but not 0x80-0x9f
none	Chars 0x80-0xff are not visible
strip	Convert 0xa0-0xfe to ASCII; others not visible

Any characters which aren't visible will be displayed as '.' characters. Note that this only affects the way the characters are displayed; they are actually stored with their true 8-bit value. The default value of *nonascii* is "most", because that is the correct value for the Latin-1 symbol set.

The *showstack* option causes some debugging output to appear on the bottom row of the window. It is false by default, and you should leave it that way.

6.1.8 Options for a particular display mode

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>commentfont</u> , <u>cfont</u>	One-Of	syntax	font used for comments
<u>stringfont</u> , <u>sfont</u>	One-Of	syntax	font used for strings
<u>keywordfont</u> , <u>kfont</u>	One-Of	syntax	font used for reserved words
<u>functionfont</u> , <u>ffont</u>	One-Of	syntax	font used for function names
<u>variablefont</u> , <u>vfont</u>	One-Of	syntax	font used for variables
<u>prepfont</u> , <u>pfont</u>	One-Of	syntax	font used for preprocessor
<u>otherfont</u> , <u>ofont</u>	One-Of	syntax	font used for other symbols
<u>includepath</u> , <u>inc</u>	String	syntax	where to find #include files

In the *syntax* display mode, the *commentfont*, *stringfont*, *keywordfont*, *functionfont*, *variablefont*, *prepfont* and *otherfont* options specify which font is to be used for different parts of the source code. Each option can be set to **normal**, **bold**, **emphasized**, **italic**, **underlined**, or **fixed**. The *prepfont* is used for preprocessor directives. The *keywordfont* is used for reserved words such as "int" and "return". The *functionfont* is used for any other word which is followed by an opening parenthesis character. The *otherfont* is used for any other word which matches some language-dependent criteria; for C, the word must either contain no lowercase letters or end with a "_t" (probably a constant or a user-defined type). The *variablefont* is used for all other words. Punctuation is always in the normal font; you can't control that.

You can set these variables during initialization, in the .exrc or

elvis.rc file. After that, your window must actually be in the "syntax" mode for these to be accessible.

As a separate step, some user interfaces allow you to specify a color to be used for each font, via the :color command.

The *includepath* option contains a list of directory names where elvis should look for #include files. When you look up a tag whose name begins with a quote character, elvis searches through those directories for a file with the same name as the tag (with the quotes stripped off). This means that you can move the cursor onto a #include file name, hit ^l, and have elvis load the indicated header file.

6.1.9 Messages

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>terse, te</u>	Boolean	global	don't translate messages
<u>verbose</u>	Numeric	global	give more status messages
<u>errorbells, eb</u>	Boolean	global	ring bell for error message
<u>warningbells, wb</u>	Boolean	global	ring bell for warning msg
<u>flash, vbell</u>	Boolean	global	substitute flash for bell

The *terse* option indicates whether elvis should attempt to translate messages via the elvis.msg file. If *terse* is true, then no such translation takes place; the built-in messages are used. If *terse* is false, then elvis will search through the file (actually the "Elvis messages" buffer) for a line which looks like "*terse:verbose*" and if found it'll use the verbose version instead. By default, *terse* is false.

The *verbose* option has nothing to do with the *terse* option. Instead, it indicates the number of **-V** flags given when elvis was invoked. Larger values indicate that the user wants more status messages to be generated. This is handy when elvis isn't initializing itself the way you expected it to; elvis' initialization code frequently tests the value of *verbose* and automatically writes status messages when *verbose* is set to a high enough level. Values normally range from 0 (no extra output) to 9 (maximum output).

The *errorbells* and *warningbells* options cause the terminal's bell to ring when an error message or warning message is generated, respectively. By default the *errorbells* option is true, and the *warningbells* option is false.

Setting the *flash* option causes elvis to use a visible alternative to the bell, if one exists. This is nice in a crowded terminal room. By default this option is false.

6.1.10 Words

OPTION NAMES	TYPE	GROUP	DESCRIPTION
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<u>normalfont, xfn</u>	String	x11	name of normal font
<u>boldfont, xfb</u>	String	x11	name of bold font
<u>italicfont, xfi</u>	String	x11	name of italic font
<u>controlfont, xfc</u>	String	x11	name of toolbar font
<u>underline, uln</u>	Boolean	x11	enables underlining
<u>toolbar, xtb</u>	Boolean	x11	enables the toolbar
<u>scrollbarleft, xsl</u>	Boolean	x11	enable scrollbar on side
<u>scrollbarwidth, xsw</u>	Number	x11	size of scrollbar, in pixels
<u>scrollbartime, xst</u>	Number	x11	delay for scrollbar repeat
<u>borderwidth, xbw</u>	Number	x11	size of text area's border
<u>dblclicktime, xdct</u>	Number	x11	double-click speed, 1/10 Sec
<u>blinktime, xbt</u>	Number	x11	cursor blink rate, 1/10 Sec
<u>textcursor, tc</u>	Number	x11	one of hollow, opaque, xor
<u>xrows, xlines</u>	Number	x11	height of new windows
<u>xcolumns, xcols</u>	Number	x11	width of new windows
<u>firstx, xpos</u>	Number	x11	horiz. position of first win
<u>firsty, ypos</u>	Number	x11	vert. position of first win
<u>stagger</u>	Number	x11	offset for next new window
<u>icon</u>	Boolean	x11	use the built-in icon?
<u>stopshell, ssh</u>	String	x11	interactive shell command
<u>autoiconify, aic</u>	Boolean	x11	iconify old window
<u>altkey, metakey</u>	One of	x11	effect of the Alt key
<u>focusnew, fn</u>	Boolean	x11	force focus into new window
<u>warpto, wt</u>	One of	x11	^W^W forces pointer movement
<u>warpback, xwb</u>	Boolean	x11	upon exit, point to xterm
<u>outlinemono, om</u>	Number	x11	char outlining for X11-mono

6.1.10.1 Termcap options

The *term*, *ttyrows*, *ttycolumns*, and *ttyunderline* options are only present if you're using the **termcap** user interface. They indicate the name of the termcap entry being used (normally taken from the TERM environment variable), the size of the screen, and whether it is safe to try underlining text when colors have been assigned to fonts. The *ttyunderline* option is true by default, but it should be made false on the Linux console, because the console driver has a bug which prevents underlined text from being shown in color.

The *codepage* option only exists in the Win32 version with the termcap interface (WindowsNT or Windows95, in console mode). It indicates which code page (character map) the console is using. Its value is persistent; if you change it in *elvis*, the console will remain changed even after you exit *elvis*. Changing the code page has no effect on the *digraph table*, or *elvis*' idea of which *non-ASCII* characters are printable or should be treated as letters; it only reconfigures the console driver. Typical values are 437 for the standard IBM PC character set, and 850 for extra European characters.

6.1.10.2 Options common to Windows and X11

The *scrollbar*, *toolbar*, and *statusbar* options indicate whether the scrollbar, toolbar, and statusbar should be visible, respectively. By default, all are are visible.

6.1.10.2 Windows options

The *menubar* option indicates whether the menu bar should be visible. By default, it is visible.

The *font* option stores the name of the base font. The easiest way to set it is via the "Options->Font" menu item.

The *normalstyle*, *boldstyle*, *italicstyle*, *fixedstyle*, *emphasizedstyle*, and *underlinedstyle* options determine how elvis will derive each of its fonts from the base font. The values of these options are strings. If the string is "n" then the base font is used unmodified. Other possibilities are any combination of "b" for bold, "i" for italic (slanted), and "u" for underlined. For example, ":set ufn=bu" causes elvis' underlined font to be drawn in bold with an underline.

6.1.10.3 X11 options

The other options all apply to the **x11** interface. The *normalfont*, *boldfont*, and *italicfont* options control the X fonts used for displaying text. Typically, the elvis.ini or ".exrc" file will set these. If you do choose to set them in one of these files, be sure to have your initialization script check which interface is being used because if elvis is using the termcap interface then these x11 options won't exist. These options all default to an empty string; this is a special case which causes elvis to use the "fixed" font for normal text, and to derive the bold and italic fonts from the normal font.

The *controlfont* option determines which font is used for displaying the labels of toolbar buttons, and also the statusbar. Unlike the other fonts, this one is permitted to have a variable pitch. If it is unset, then elvis will use the font named "variable" by default.

The *underline* option determines whether characters in the "underlined" font should be displayed as underlined. Normally, underline is true, so they are underlined. Setting nounderline will cause them to be displayed as normal characters, but in the color of underlined text.

The *toolbar* option controls whether the toolbar is visible or not. It is normally true, which makes the toolbar visible. The toolbar can be configured via the :gui command.

The *statusbar* option controls the visibility of the statusbar. It is true by default, which makes the statusbar is visible. The statusbar always displays the information which would otherwise be shown on the bottom row of the text area only when the ruler and showmode options were true. When you press a toolbar button, the button's one-line description is shown on the statusbar.

The *scrollbarleft* option determines which side of the window the scrollbar will be drawn on. This option is false by default, so the scrollbar appears on the right side of the window. Making it true will cause the scrollbar to be drawn on the left.

The *scrollbarwidth* option controls the size of the x11 scrollbar. The default value is 14 pixels, and the allowed range is 5 to 40 pixels.

The scrollbar buttons automatically repeat if you hold a mouse button down *scrollbartime* tenths of a second. The default is 4 tenths of a second.

The main text area of a window looks better when the characters aren't drawn immediately adjacent to the edge. The *borderwidth* option allows you to specify how many pixels should be left blank between a character and any edge of the text area. The default is 1 pixel.

The *dblclicktime* option allows you to adjust the speed of mouse double-clicks to match your own clicking habits. The default is 3 tenths of a second.

The *blinktime* option controls the cursor blink rate. If set to 0, the cursor will not blink. If set to a value from 1 to 10, then the cursor will first be visible for that many tenths of a second, and then invisible for the same amount of time. The cursor will only blink in the window which currently has keyboard focus.

The *textcursor* option controls the way the block text cursor is drawn. It can be **xor**, **hollow**, or **opaque**. The default is **xor**, which causes the cursor to be drawn as a filled rectangle with the XOR bitblt function. This converts the background color to the cursor color, and the foreground color to an unpredictable color; hopefully the foreground color will contrast with the cursor color well enough to allow you to discern what the underlying character is. The **hollow** cursor style causes the cursor to be drawn as an unfilled rectangle. This allows you to easily see the underlying character, and detect whether it is highlighted or not. The **opaque** cursor style draws a filled rectangle, which is easier to locate but you can only see the underlying character between blinks.

The *xrows* and *xcolumns* options control the initial size of windows. They default to 34 and 80, respectively, and can also be set via the **-geometry** command-line flag. After a window has been created, you can use your window manager to resize the window.

The *firstx* and *firsty* options, if set, control the position of the first window that elvis creates. If they are unset, then elvis doesn't specify a position for the window. The **-geometry** command-line flag can be used to set these options. After the first window has been created, if the *stagger* option is set to a non-zero value then any new windows are created that many pixels down and to the right of the current window. If *stagger* is zero, then elvis won't specify a position for the new windows, so the window manager can choose the location itself.

The *icon* option can only be set in an initialization file such as elvis.ini or ".exrc"; once the first window has been created it is too late to change it. This option controls whether the window will

be given the default, built-in icon. It is true by default, so windows will get the icon. This is usually a good thing. Some window managers don't allow you to override built-in icons, though, so if you want your window manager to use a different icon for elvis then you'll need to have a "set noicon" in your elvis.ini file.

The *stopshell* option stores a command which runs an interactive shell. It is used for the :shell and :stop ex commands, and the ^Z visual command. Normally, this is set to "xterm &" so you get a shell in a window. The "&" at the end of the command allows elvis to continue responding to user input while the shell is running.

When the ^W^W visual command switches keyboard control to an X11 window which has been iconified, elvis automatically deiconifies it. When it does this, if the *autoiconify* option is set then elvis will iconify the previous window, so the number of iconified elvis windows remains constant. By default, this option is false. Regardless of whether *autoiconify* is set, you can always use your window manager to iconify or deiconify windows manually.

The *altkey* option controls the effect of the **Alt** or **Meta** keys. It can be set to either **control-O**, **setbit**, or **ignore**. The **ignore** value is self explanatory. If the option is set to **control-O** then the x11 interface will simulate a **^O** keystroke before each actual keystroke. This is handy because if you're in input mode you can just hold down **Alt/Meta** to perform a series of visual commands. If the option is set to **setbit** then the x11 interface will set the most significant bit of each ASCII character while the **Alt/Meta** key is held down. Some other programs use this trick as a means of entering non-ASCII characters. (Elvis has a better way though; check out the :digraph command.) The default is **setbit**.

The *focusnew* option causes elvis to force input focus to switch to any newly created window, or to one which has been deiconified. It is true by default; making it false (":set nofocusnew") prevents elvis from forcing a change of input focus in those two situations. Note that elvis always forces a change of input focus when you give a command which switches windows, such as ^W^W.

The *warpto* option can cause elvis to force the mouse pointer to move whenever you use keyboard commands such as ^W^W to switch from one elvis window to another. There are two reasons you may wish to do this: either your window manager requires the pointer to be in a window for that window to receive keystrokes, or you want to have your X server automatically pan the screen to bring the next window into view.

You can set the *warpto* option to any one of the following values: **don't**, **scrollbar**, **origin**, or **corners**. The default is **don't** which prevents any automatic pointer movement. The **scrollbar** value causes the pointer to move to the scrollbar, and **origin** moves it to the upper-left corner. The **corners** value causes the pointer to move first to the corner furthest from the window's text cursor, and then to the nearest corner; this will cause the X server to pan (if necessary) to bring the entire window into view.

The *warpback* option, if set, causes the X terminal's graphic cursor to be moved back to the window which held keyboard focus at the time when elvis was started. Usually this will be the xterm where you typed in the "elvis files..." command line. Just as the *firstx*, *firsty*, and *stagger* options are intended to allow mouseless positioning of elvis windows, the *warpback* option is intended to serve as a mouseless way to switch keyboard focus back to the original xterm, so that mouse haters will find elvis' x11 interface as convenient to use as the termcap interface. By default, *warpback* is false.

The *outlinemono* option affects the way that text is drawn against a stippled background when elvis is run on monochrome X terminals (or with the *-mono* command-line flag). It has no effect on color systems. Because characters drawn on a stippled background can be hard to read, elvis can draw a white outline around the black characters. The value of *outlinemono* is a number that indicates how thick the outline should be. 3 is the thickest supported outline, and 0 is no outline at all. The default is 2.

6.1.11 Regular expression options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>ignorecase</u> , <i>ic</i>	Boolean	global	regexp uppercase=lowercase
<u>magic</u> , <i>ma</i>	Boolean	global	use normal regexp syntax
<u>autoselect</u> , <i>as</i>	Boolean	global	visibly mark searched text
<u>wrapscan</u> , <i>ws</i>	Boolean	global	searching wraps at EOF<->BOF
<u>gdefault</u> , <i>gd</i>	Boolean	global	default change all instances
<u>edcompatible</u> , <i>ed</i>	Boolean	global	remember regsub flags
<u>saveregexp</u> , <i>sre</i>	Boolean	global	remember regexp to use as //

Setting the *ignorecase* option to true will cause elvis to treat uppercase and lowercase letters as being equal, except in character list metacharacters. When *ignorecase* is false (the default), they are treated as different.

The *magic* option selects one of two different syntaxes for regular expressions. When *magic* is true, it uses the normal syntax in which * and . are special characters. When *magic* is false, it uses a simplified syntax.

The *autoselect* option, when true, causes a successful visual search command such as /regexp to visibly mark the matching text just like the y command does. This is intended to compensate for elvis 2.1's lack of a "c" option in the :s/old/new/ command. By default, *autoselect* is false.

The *wrapscan* option determines what happens when a search command bumps into the top or bottom of a buffer. If *wrapscan* is true, then the search will wrap around to the other end of the buffer, so if there's a match anywhere in the buffer, the search will find it. If *wrapscan* is false, then searches fail when they hit the end of the buffer. By default, *wrapscan* is true.

The *gdefault* option affects the default behavior of the `:s/old/new/` command. It is false by default, which causes `:s/old/new/` to assume a count of 1 so only the first instance in each line is changed. Making *gdefault* true will cause it change all instances in each line, as though the "g" flag had been given. If you give an explicit count or "g" flag, then the value of *gdefault* is ignored.

The *edcompatible* option causes elvis to remember any flags that are passed into the `:s/old/new/flags` command, and use them as the default for the next such command. Explicitly naming a flag will toggle that flag's value. This is *not* the way the old ed editor worked, but this option's name and behavior are traditional in vi. This option is false by default.

The *saveregexp* option is normally true, which causes elvis to remember each regular expression. If, in a latter command, you give an empty regular expression, then elvis will recall the saved regular expression instead. This also affects the `n` and `N` commands. You may wish to turn this option off temporarily in a the `lib/elvis.arf` file if you're using any regular expressions there, so that loading a file doesn't interfere with `n` and `N`.

6.1.12 Tag options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<code>taglength, tl</code>	Number	global	significant length of tags
<code>tags, tagpath</code>	String	global	list of possible tag files
<code>tagstack, tsk</code>	Boolean	global	remember origin of tag srch
<code>tagprg, tp</code>	String	global	external tag search program

These options control how elvis performs tag lookup, as for the `:tag` ex command or the `^_` visual command. You should also check out the `previoustag` and `showtag` options.

The *taglength* option defines how many characters are significant in a tag name. By default this option is set to 0, which is a special value indicating that all characters are significant. If you have a lot of long names, you might want to set this to some other value so that you could type in abbreviated names.

The *tags* option stores a list of filenames or directory names where tags are stored. (For directory names, it looks for a file named "tags" in that directory.) When performing tag lookup, elvis will begin by looking for it in the first directory/file mentioned in the list; if it doesn't find it there, then it moves on to the next one, and so on. By default, it just looks in a file named "tags" in the current directory.

In a path, names which start with `"/` (or `"/` in MS-Windows) are assumed to be relative to the directory of the current file. This means that `:set tags=./tags:tags` will cause elvis to first check the "tags" file in the directory of the current text file, and then

the "tags" file in the current directory.

NOTE: Traditionally, this elements in this path have been space-delimited. Since every other path in any other context is either colon-delimited (for Unix) or semicolon-delimited (for Microsoft), and it is becoming more common for filenames to contain spaces, elvis uses colons or semicolons for the tag path too. This makes elvis' "tags" settings incompatible with other versions of vi, though.

If the *tagstack* option is true, then before switching to the file and location of a looked-up tag, elvis will store the original file and position on a stack. Later, you can use the *:pop* or visual *^T* commands to return to your original position. If *tagstack* is false, then the tag stack is unaffected by tag look-up. It is true by default.

If the *tagprg* option is set to any value other than "", then whenever you try to do a tag search via *:tag* or *:browse*, elvis will execute *tagprg*'s value as a shell command and interpret its stdout as a list of matching tags. Before the command is run, it is evaluated using the *simpler expression syntax* with *\$1* indicating where the arguments should go. The default value of *tagprg* is "" which causes elvis to use the internal tag search algorithm.

NOTE: You might also consider using the *ccprg* option for this sort of thing, since the *:cc* command has a smarter line parser than the *:tag* command.

6.1.13 Window update parameters

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<i>exrefresh, er</i>	Boolean	global	redraw scrn after each line
<i>nearscroll, ns</i>	Number	global	scroll vs. jump¢er param
<i>wrap</i>	Boolean	win	how long lines are displayed
<i>sidescroll, ss</i>	Number	win	sideways scrolling amount
<i>optimize, op</i>	Boolean	global	run faster
<i>animation, anim</i>	Number	global	animation macro speed
<i>window, wi</i>	Number	global	lines to show for <i>:z</i> command
<i>pollfrequency, pf</i>	Number	global	rate of testing for ^C
<i>maptrace, mt</i>	One of	global	debugger: off, run, or step
<i>maplog, mlog</i>	One of	global	logging: off, reset, append

The *exrefresh* option affects the frequency of window updates when in EX mode. It is normally false, which causes the window to be refreshed at the end of each EX command. If you set *exrefresh* to true, then elvis will update the window's image every time an output line is generated; this makes the command run much slower, but gives you more feedback.

The *nearscroll* option controls elvis' behavior when the cursor is moved off the top or bottom of the window. If the new cursor position is within *nearscroll* lines of the window, then the window

is scrolled to bring the new line into view. If the new cursor position is outside that range, then elvis uses a "jump and center" approach, in which the window's image is drawn from scratch with the new cursor line shown in the center of the window. Its default value is 5.

The *wrap* option determines how elvis will display lines which are too long to fit on a single row of the display. It is true by default, which causes long lines to be wrapped onto multiple rows of the display. This is the traditional vi behavior. Changing it to false will cause long lines to be partially displayed on a single row of the display; you can scroll sideways to reveal the rest of the line by moving the cursor onto it, and then off the edge.

If the *wrap* option is false (indicating that long lines should be displayed via side-scrolling) then the *sidescroll* option controls the scrolling increment. The default is 8, so the display will scroll sideways in chunks of 8 characters at a time.

The *optimize* option affects the efficiency of screen updates. It is normally true, which tells elvis to update the screen image only when it must wait for user input. If you make it false, then elvis will update the screen after every command; among other things, this allows you to see intermediate effects of macros.

The *animation* option is similar. When the *optimize* option is true, elvis still refreshes the screen periodically while executing a large macro so that animation macros can be seen in all their glory. Elvis attempts to figure out which macros are loops, and when one of those macros is invoked elvis considers updating the screen. If *animation=1* then elvis updates the screen every time; when *animation=2* it updates the screen an alternate invocations of those macros, and so on. The default, chosen simply through experimentation, is 3.

Sometimes elvis will choose the wrong macros to refresh. If that happens, then try running the macro with *optimize* option turned off. For example, the bouncing ball macros look better with *optimize* turned off.

The *window* option stores the default number of lines to be displayed by the *:z* command. Historically it has also been used for forcing vi to update only a portion of the screen, but elvis doesn't use it for that.

When elvis is performing some time-consuming operations, such as a global substitution, it will periodically check to see if the user is trying to cancel the operation. For some user interfaces, this inspection takes a significant amount of time so elvis allows the *pollfrequency* option to reduce the frequency of these checks. The default is 20. Larger values of *pollfrequency* will make global substitutions run faster; smaller values make elvis respond to **^C** sooner.

The *maptrace* option controls elvis' built-in macro debugger. It can be **off**, **run** or **step**. The default is **off**, which causes macros to run

normally. If you change it to **run** then elvis will display the contents of the mapping queue at the bottom of the screen while running any macro. The **step** value also displays the mapping queue, but then waits for a keystroke before proceeding. If the keystroke is **^C** then the macro is terminated. If the keystroke is **r** then `maptrace` is set to **run**. Any other keystroke causes elvis to pause again after processing the macro's next character. See section [16.3 How to debug macros](#) for more suggestions for debugging macros.

The `maplog` option can be used to log the information displayed by the `maptrace` option. It also logs any `ex` commands that are executed, other than those that you enter manually. It is **off** by default. Setting it to **append** causes the map trace information to be appended to an internal edit buffer named "Elvis map log". Setting it to **reset** causes that buffer to be clobbered before the next map trace; when that happens, `maplog` will be automatically switched to **append**. You can view the logged data via the command...

```
:( "Eml) sp
```

or the long version, `:(Elvis map log)split`.

6.1.14 Cache options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>blkcache</u> , <u>cache</u>	Number	global	number of blocks in cache
<u>blksize</u> , <u>bsz</u>	Number	global	size of cache block
<u>blkfill</u> , <u>bfill</u>	Number	global	initial chars per text block
<u>blkhash</u> , <u>hash</u>	Number	global	size of cache hash table
<u>blkgrow</u> , <u>bgr</u>	Number	global	allocation table parameter
<u>blkhit</u> , <u>bh</u>	Number	global	# of block requests in cache
<u>blkmiss</u> , <u>bm</u>	Number	global	# of block req. not in cache
<u>blkwrite</u> , <u>bw</u>	Number	global	# of blocks written
<u>sync</u>	Boolean	global	force changes to disk

You probably don't need to know about the "blk" options. The `blkcache` option indicates how many blocks from the session file elvis should keep in its own internal cache, and `blkhit` and `blkmiss` can be used to gauge the efficiency of the cache. `blkwrite` indicates how many blocks have been written to the session file. The `blksize` option indicates the size of each block, `blkfill` indicates how many characters should be stuffed into each block initially (leaving room for more text that the user may insert later), and `blkhash` and `blkgrow` affect a couple of internal tables.

Note that the value of `blksize` can only be set via the `-bblksize` command line flag, and its value must be a power of 2 in the range [512, 8192]. You can't change `blksize` after elvis has started (not even in configuration scripts), because by then the session file has already been created with the other block size.

If the `sync` option is true, then elvis will flush all dirty blocks from its cache at the end of each edit command. Doing this will just

about guarantee that you can recover your changes after a crash, but it can slow down the computer tremendously. The sync option is false by default, and on multi-user systems it should be left that way. On a single-user system, you might consider setting the sync option.

6.1.15 Options that describe the system

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>version, ver</u>	String	global	elvis version number (2.1)
<u>bitsperchar, bits</u>	Number	global	character size (always 8)
<u>gui</u>	String	global	name of user interface
<u>os</u>	String	global	name of operating system
<u>program, argv0</u>	String	global	invocation name of elvis
<u>session, ses</u>	String	global	name of session file
<u>tempsession, temp</u>	Boolean	global	delete session file on exit
<u>newsession, newses</u>	Boolean	global	session file is new
<u>recovering, rflag</u>	Boolean	global	recovering after a crash
<u>exitcode, exit</u>	Number	global	exit code of elvis process

The *version* option stores the version number of elvis -- currently "2.1". If later versions of elvis have features which are incompatible with this version, your script files can use this to check the version number, and skip the uncompatible commands.

The *bitsperchar* option indicates the size of characters that elvis uses internally. Currently this is always 8, but I expect to support 16-bit characters eventually.

The *gui* option indicates which user interface is being used. This can be handy in your initialization files. For example, you might prefer white characters on a blue background when using the "termcap" interface, and black characters on a white background when using the "x11" interface.

The *os* option allows elvis' initialization files to act differently on different operating systems. Its value indicates the name of the local operating system.

The *program* option stores the name by which elvis was invoked; i.e., the value of argv[0]. Typical values would be "elvis" under UNIX, "elvis.exe" under Win32, or "C:\BIN\ELVIS.EXE" under MS-DOS. The default elvis.ini file evaluates tolower(basename(program)) and compares the result to "ex" and "view", to set the initialstate and defaultreadonly options, respectively.

The *session* option stores the name of the current session file. There is rarely any need to check this, but I had to store it someplace and it might as well be accessible, I figured.

The *tempsession*, *newsession*, and *recovering* options describe different aspects of the session file. If *tempsession* is true, then elvis will delete the session file when it exits. If *newsession* is true, then elvis has just created the file so there may be extra

initialization that needs to take place in elvis.ini or someplace. If recovering is true, then the session file may be damaged, so it may be a good idea to skip some initialization steps, or automatically write out all user buffers.

The *exitcode* is the value that elvis will return to its parent process when the elvis process exits. Initially this is 0, which is the conventional indication of a normal, successful exit. You can explicitly set it to other values to indicate special situations. Also, if elvis outputs an error message and *exitcode* has not been explicitly set, then elvis changes *exitcode* to 1, so the parent process can know that elvis had an error.

6.1.16 External programs

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>ccprg</u> , <u>cp</u>	String	buf	shell command for <code>:cc</code>
<u>makeprg</u> , <u>mp</u>	String	buf	shell command for <code>:make</code>
<u>anyerror</u> , <u>ae</u>	Boolean	global	allow <code>:errlist</code> if readonly
<u>equalprg</u> , <u>ep</u>	String	buf	shell command for <code>=</code> operator
<u>keywordprg</u> , <u>kp</u>	String	buf	shell command for <code>K</code> command
<u>shell</u> , <u>sh</u>	String	global	name of shell program
<u>warn</u>	Boolean	global	warn if file not saved

The *ccprg* and *makeprg* are the programs used by the `:cc` and `:make` commands. Before the program strings are executed, they are subjected to the same sort of expression evaluation as the `:eval` command, with `$1` representing any extra arguments from the `ex` command line, and `$2` representing the name of the current file. Their defaults are `cc="cc ($1?$1:$2)"` and `make="make $1"`.

When searching for error messages after a `:cc` or `:make` command, elvis will normally ignore errors about files that you don't have write access to. Usually this is convenient, because it prevents elvis from reading header files that you've misused. However, setting *anyerror* to true will make it read any file that generates a complaint, even if you can't write to it.

The *equalprg* option stores the name of a program to be executed for the visual `=` operator command. Its default value is "fmt", which is a simple text formatting program.

The *keywordprg* option stores the name of the program used by the visual `K` command. This string is evaluated with `$1` being replaced with the word under the cursor at that time, and `$2` the name of the current file. The default value is "ref \$1 file:\$2"; the *ref* program looks up a tag and displays it. If you're using the `x11` user interface, then you might want try the following, which causes the function's header to be displayed in a separate pop-up window:

```
set kp="ref $1 file:$2 2>&1 \| xmessage -file - >/dev/null 2>&1 &"
```

The *shell* option stores the name of the system's command-line

interpreter. It is used when executing all of the above programs, as well as commands entered for the EX `;!` and visual `␣` commands. Its default value is system-dependent; typically it will be `"/bin/sh"` for UNIX, and `"C:\COMMAND.COM"` for MS-DOS.

When any external program is executed, if the current buffer has been changed but not written out to the file, then elvis will normally give a warning message. Setting the `warn` option to false disables this message.

6.1.17 Directory names

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>home</u>	String	global	home directory
<u>elvispath, epath</u>	String	global	list of possible config dirs
<u>sessionpath, spath</u>	String	global	list of possible session dir
<u>directory, dir</u>	String	global	where to store temp files

The `home` option is the name of your home directory. The value of this option is used for replacing the `~` character at the start of a full pathname. If an environment variable named `HOME` exists, then `home` is initialized from its value. Otherwise, its default value is set as follows:

For UNIX:

The default is `"/"`.

For Win32:

The default is derived from environment variables named `HOMEDRIVE` and `HOMEPATH`, which will normally always be defined. Their default value is usually `"C:\users\default"`. If either of those environment variables is undefined, then elvis will attempt to find the pathname of the program, and use its directory. As a last resort, elvis will use `"C:\"` as the default home directory.

For OS/2:

The default home directory is the one containing `ELVIS.EXE`, or if that can't be found then it will use `"C:\"` as the default home directory.

For MS-DOS:

The default home directory is the one containing `ELVIS.EXE`.

The `elvispath` option stores a list of directory names where elvis might find its configuration files. If there is an `ELVISPATH` environment variable, then the `elvispath` option is initialized from the value of `ELVISPATH`. Otherwise it is set to a value such as `"~/elvislib:/usr/local/lib/elvis"` so that elvis will search first in a subdirectory of the user's home directory, and then in the directory where the standard versions of those files were installed. A path like this allows users to override elvis' behavior if they want. The default value depends the operating system, as follows:

For UNIX:

The default contains `~/.elvislib` and the directory that you specified as the data directory when you ran the configure script. (E.g, "configure --datadir=/usr/lib/elvis") The default data directory is `/usr/local/lib/elvis`, so usually `elvispath` will default to `"~/.elvislib:/usr/local/lib/elvis"`.

For Win32, OS/2, or MS-DOS:

The default contains `~\elvislib`, and the directory where `elvis.exe` resides, and a subdirectory under that named "lib". For example, if `elvis` is installed as `C:\elvis\elvis.exe` then `elvispath` would be `~\elvislib;C:\elvis;C:\elvis\lib`.

The `sessionpath` option gives `elvis` a list of possible directories where session files might be placed. `Elvis` uses the first writable directory in that list, and ignores all of the others. The default value depends on the operating system, and can be overridden by the `SESSIONPATH` environment variable. You can't change the `sessionpath` option after `elvis` has started, because the session file has already been created by then.

The `directory` option gives the name of the directory where `elvis` will store its temporary files. The default value is system-dependent. Note that this is *not* where the session file is stored; the `session` option gives the name of the session file.

6.1.18 Initialization options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>exrc</u> , <u>ex</u>	Boolean	global	interpret <code>./exrc</code> file
<u>modeline</u> , <u>ml</u>	Boolean	global	interpret modelines
<u>modelines</u> , <u>mls</u>	Number	global	positions of modelines
<u>safer</u> , <u>trapunsafe</u>	Boolean	global	be paranoid
<u>initialstate</u> , <u>is</u>	One-Of	global	command mode of new windows

The `exrc` option has no built-in meaning to `elvis`, however the default `elvis.ini` file uses this option to determine whether it should look for a `".exrc"` file in the current directory.

The `modeline` option controls whether `elvis` will look for modelines in each buffer after it has been loaded from a file. If `modelines` is true, then `elvis` will search through the first and last `modelines` lines of the buffer for something that looks like `"ex:commands:"` or `"vi:commands:"` and if found, it executes the `commands` as an `ex` command line. This is typically used for changing tabstops and the like. The `modeline` option is false by default, and `modelines` is 5.

The `safer` option closes some security holes. It is intended to make modelines and a `.exrc` file in the current directory safe to use, but I'm not making any promises. When the "safer" option is true, certain commands are disabled, wildcard expansion in filenames is disabled, and certain options are locked (including the `safer` option

itself). Typically you will use the ex command `:safer` to execute an untrusted file, and `:source` to execute a trusted one, rather than futz with the value of the safer option directly.

The `initialstate` option determines what command mode new windows will start in. It can be one of `input`, `replace`, `vi`, or `ex`. The default is `vi`, the visual command mode.

6.1.19 Keyboard map options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<code>remap</code>	Boolean	global	allow key maps to use maps
<code>keytime, kt</code>	Number	global	timeout for function keys
<code>usertime, ut</code>	Number	global	timeout for multi-key maps

Elvis allows keystrokes to be mapped via the `:map` command. Once a map has been defined, these options control how and when those maps are recognized.

The `remap` option controls how many times elvis will attempt to reapply key maps. If the `remap` option is true (the default), then elvis will repeatedly attempt to reapply maps as long as there are any that match. This means that maps can be written to use other maps, allowing some very complex behavior. If `remap` is false, then it will attempt to apply maps only once, so the result of any map is not altered any further. By default, `remap` is true.

The `keytime` and `usertime` options come into play when characters are received which *partially* match one or more maps. For example, suppose the arrow keys are mapped to `h`, `j`, `k`, and `l`, those arrow keys send escape sequences when pressed, and elvis has just received an escape character. How can it tell whether the user hit the **Esc** key or an arrow key?

In this situation, elvis must perform a `read-keystrokes-with-timeout` operation to determine which map applies, if any. If all of the partially matching maps are for special keys such as function keys, then elvis will use the `keytime` value. If at least one of them is for a user map, then elvis will use the `usertime` value. Either way, the values indicate the time, in tenths of a second, that elvis should allow for the rest of the map characters to arrive. If they don't arrive, then none of the partially matching maps is used.

Typically, the `usertime` value will be much longer than the `keytime` value, because the user must hit a series of keys for a user map. For example, many people like to create maps consisting of a semicolon and one or two following letters. (If you're a touch typist, then your right-hand pinky normally rests on the semicolon key, so this is convenient.) By distinguishing between key maps and user maps, elvis can give quick response to the **Esc** while still allowing users to key in their own keymaps at a leisurely pace. Their default values are `keytime=3` and `usertime=15`.

6.1.20 Printing options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>lptype</u> , <u>lpt</u>	String	lp	printer type
<u>lpconvert</u> , <u>lpcvt</u>	Boolean	lp	convert Latin-1 to PC-8
<u>lpcrlf</u> , <u>lpc</u>	Boolean	lp	printer needs CR-LF newline
<u>lpout</u> , <u>lpo</u>	String	lp	printer file or filter
<u>lpcolumns</u> , <u>lpcols</u>	Number	lp	width of printer page
<u>lpwrap</u> , <u>lpw</u>	Boolean	lp	simulate line-wrap
<u>lplines</u> , <u>lprows</u>	Number	lp	length of printer page
<u>lpnumber</u> , <u>lpn</u>	Boolean	lp	print line numbers in margin
<u>lpheader</u> , <u>lph</u>	Boolean	lp	print header at top of page
<u>lpformfeed</u> , <u>lpff</u>	Boolean	lp	send form-feed after last pg
<u>lppaper</u> , <u>lpp</u>	String	lp	paper size (letter, a4, ...)
<u>lpcolor</u> , <u>lpc</u>	Boolean	lp	use colors when printing

These options all affect hardcopy output, done via the `:lpr` command. Note that these options are in a separate group, so you can display all of them by giving the command "se lp?".

The `lptype` option lets elvis know what type of printer you're using, so it can use the correct escape codes (or whatever) to switch fonts. The default is "dumb" because it is the most conservative value, but it is also the least expressive. (Exception: When using the Win32 user interface, the default is "windows".) You should set `lptype` to one of the following values:

VALUE	PRINTER DESCRIPTION
ps	PostScript, one logical page per sheet
ps2	PostScript, two logical pages per sheet
epson	Most dot-matrix printers, no graphic chars
pana	Panasonic dot-matrix printers
ibm	Dot-matrix printers with IBM graphic chars
hp	HP printers, and most non-PostScript lasers
cr	Line printers, overtypes via carriage-return
bs	Overtypes via backspace, like nroff
dumb	Plain ASCII, no font control
html	HTML source code
windows	The Win32 print facility (in WinElvis only)

The `lpconvert` option, when set, causes some printer types to convert non-ASCII Latin-1 characters to PC-8 characters. Most computers use Latin-1 internally for storing text, but many printers use PC-8; hence the need for conversion. This option has no effect on ASCII characters because they never need conversion. This option is ignored if your computer doesn't appear to be using Latin-1 (or, more precisely, if there is no digraph which maps AE to 0xc6, the Latin-1 code for the Æ ligature.) This option is false by default.

NOTE: Not all printer types obey the **lpconvert** option. Postscript printers don't do conversion because they use Latin-1 themselves. The "cr", "bs", and "dumb" printer types ignore it simply because they are typically used for writing to files, not actual printers, and as long as the text remains in the computer no conversion is necessary. Only the "epson", "pana", "ibm", and "hp" printers will obey the **lpconvert** option.

The *lpcrlf* option forces elvis to convert each newline character to a CR/LF pair. Some printers, on some systems, require this. Most don't, so this option is false by default. If you attempt to print something and only the first line is visible, or the text is badly jumbled, then try ":set lpcrlf" and maybe that'll fix it.

The *lpout* option should be either the name of a file or device (such as "prn" or "/dev/lp0") to which the printer output should be sent, or ! character followed by a shell command (such as "!lp -s") which reads printer text from stdin and submits it to the printer spooler. The default is system dependent.

The *lpcolumns* option tells elvis how wide the printer page is. The default is 80 columns. If you have a wide-carriage printer, you may wish to set *lpcolumns*=132. If you have a postscript printer and set *lpcolumns* to a value greater than 80, elvis will compress the characters to make the longer lines fit.

The *lpwrap* option tells elvis how to handle lines that are wider than *lpcolumns*. If this options is true (the default) then long lines will wrap onto multiple printed lines. If *lpwrap* is false, then it will clip long lines.

The *lplines* option tells elvis how long the usable portion of each page is; i.e., how many lines it should print on each page. The default is 60. Some display modes print headers at the top of each page; those lines are included in the *lplines* count. Setting *lplines*=0 causes elvis to assume that pages are infinitely long, which sounds about right for fan-fold printer paper. If you have a PostScript printer and set *lplines* to a value greater than 60, then the page will be compressed vertically to make it fit.

The *lpnumber* option does to printouts what the number option does for a window -- it causes the line number to be output in the left margin. This is **false** by default.

The *lpheader* option controls whether printouts will have a line at the top of each page showing the file name, date, and page number, or other information. Different display modes have different header formats. This is **true** by default.

The *lpformfeed* option controls whether elvis will send a form-feed control character after the last page of any print job. This should generally be false if you're printing through a print spooler program, because print spoolers usually add the final formfeed themselves. Under MS-DOS, elvis is normally configured to send the

text directly to the printer device, **prn**, and you may wish to set the `lpformfeed` option there.

The `lppaper` option is only significant for PostScript printers. The value of `lppaper` is inserted into the PostScript output before the contents of the `elvis.ps` file. `elvis.ps` contains code which scales the output to fit on the paper. The default version supports **letter**, **legal**, **executive**, **a4** and **a3** paper sizes. Adding new paper sizes to that file is fairly easy. You should be careful when setting `lppaper` because `elvis` won't prevent you from setting it to an unsupported value. The default value is **letter**.

The `lpcolor` option is currently only supported for the "windows" printer type under Microsoft Windows95/98/NT. When true, it allows printouts to use color for the foreground. (The background is always white.) Normally it is false (`no!pcolor`), which forces all printouts to use black since that usually prints faster and looks better, and is always less expensive.

6.1.21 Previous arguments

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<code>previousdir</code> , <code>pdir</code>	String	global	previous directory name
<code>previousfile</code>	String	global	name of alternate file
<code>previousfileline</code>	Number	global	line# from previousfile
<code>previouscommand</code>	String	global	previous shell command line
<code>previousstag</code> , <code>ptag</code>	String	global	previous search tag

These options all store the previous value of some type of input, so that the same value can be used again later. You can set these options, but there really isn't much point to it, usually.

The `previousdir` option stores the name of the previous working directory. Initially it is set from the value of the `$OLDPWD` environment variable. After that, each `!cd` command will store the old current working directory into this option before switching to the new working directory. If you give `elvis` a file name which begins with `"~"`, `elvis` will replace the `"~"` with the value of this option.

The `previousfile` option stores the name of an alternate file. Usually this is the name of the last file you mentioned, other than that of the current file. When you switch from one file to another, the name of the previous file is stored here, along with the line number (in `previousfileline`), so you can easily bounce between this file and the previous one. Whenever you type in a filename as an argument to an `ex` command, any instances of the `#` character are replaced by the value of `previousfile`.

The `previouscommand` option stores the last shell command you typed in. When you enter the next shell command line, any instances of the `!` character will be replaced by the value of `previouscommand`.

The *previoustag* option stores the name of the last tag you looked up. This value is also stored on the tagstack in the hope that it may help you remember where you were when you performed all of your recent tag lookups.

6.1.22 Unsupported options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>hardtabs</u> , <u>ht</u>	Number	global	width of terminal's tabs
<u>mesg</u>	Boolean	global	disable SysAdmin messages
<u>more</u> , <u>mo</u>	Boolean	global	allow "Hit <Enter>" prompt
<u>novice</u>	Boolean	global	beginner mode
<u>redraw</u>	Boolean	global	redraw screen during input

The *hardtabs*, *mesg*, *more*, *novice*, and *redraw* options exist in elvis, but they don't do anything. Perhaps some day...

6.1.23 User variables

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>a</u>	String	user	user variable
<u>b</u>	String	user	user variable
<u>c</u>	String	user	user variable
<u>d</u>	String	user	user variable
<u>e</u>	String	user	user variable
<u>f</u>	String	user	user variable
<u>g</u>	String	user	user variable
<u>h</u>	String	user	user variable
<u>i</u>	String	user	user variable
<u>j</u>	String	user	user variable
<u>k</u>	String	user	user variable
<u>l</u>	String	user	user variable
<u>m</u>	String	user	user variable
<u>n</u>	String	user	user variable
<u>o</u>	String	user	user variable
<u>p</u>	String	user	user variable
<u>q</u>	String	user	user variable
<u>r</u>	String	user	user variable
<u>s</u>	String	user	user variable
<u>t</u>	String	user	user variable
<u>u</u>	String	user	user variable
<u>v</u>	String	user	user variable
<u>w</u>	String	user	user variable
<u>x</u>	String	user	user variable
<u>y</u>	String	user	user variable
<u>z</u>	String	user	user variable

These one-letter options have no preset purpose. They are useful for holding temporary values which you expect to use in an expression later. These are all string values, but because the expression

evaluator doesn't distinguish between a number and a string which happens to look like number, you can also use these as numbers. For example, the command...

```
:let i=i+1
...does exactly what you would expect.
```

6.2 Alphabetical list of options

OPTION NAMES	TYPE	GROUP	DESCRIPTION
<u>a</u>	String	user	user variable
<u>altkey, metakey</u>	One of	x11	effect of the Alt key
<u>animation, anim</u>	Number	global	animation macro speed
<u>anyerror, ae</u>	Boolean	global	allow :errlist if readonly
<u>autoiconify, aic</u>	Boolean	x11	iconify old window
<u>autoindent, ai</u>	Boolean	buf	auto-indent new text
<u>autoprint, ap</u>	Boolean	global	print current line in ex
<u>autoselect, as</u>	Boolean	global	visibly mark searched text
<u>autotab, at</u>	Boolean	buf	allow autoindent to use '\t'
<u>autowrite, aw</u>	Boolean	global	save file before switching
<u>b</u>	String	user	user variable
<u>backup, bk</u>	Boolean	global	make *.bak file before write
<u>beautify, bf</u>	Boolean	global	strip ctrl chars from files
<u>bitsperchar, bits</u>	Number	global	character size (always 8)
<u>blkcache, cache</u>	Number	global	number of blocks in cache
<u>blkfill, bfill</u>	Number	global	initial chars per text block
<u>blkgrow, bgr</u>	Number	global	allocation table parameter
<u>blkhash, hash</u>	Number	global	size of cache hash table
<u>blkhit, bh</u>	Number	global	# of block requests in cache
<u>blkmiss, bm</u>	Number	global	# of block req. not in cache
<u>blksize, bsz</u>	Number	global	size of cache block
<u>boldstyle, bfn</u>	String	windows	n or combination of b/i/u
<u>boldfont, xfb</u>	String	x11	name of bold font
<u>borderwidth, xbw</u>	Number	x11	size of text area's border
<u>bufchars, bc</u>	Number	buf	number of characters
<u>bufdisplay, bd</u>	String	buf	default display mode
<u>bufid, bufferid</u>	Number	buf	ID number of user buffer
<u>buflines, bl</u>	Number	buf	number of lines
<u>bufname, buffer</u>	String	buf	name of buffer
<u>c</u>	String	user	user variable
<u>ccprg, cp</u>	String	buf	shell command for :cc
<u>codepage, cpg</u>	Number	win32	console character set
<u>columns, cols</u>	Number	win	width of window
<u>commentfont, cfont</u>	One-Of	syntax	font used for comments
<u>d</u>	String	user	user variable
<u>dblclicktime, xdct</u>	Number	x11	double-click milliseconds
<u>defaultreadonly, dro</u>	Boolean	global	assume all files readonly
<u>digraph, dig</u>	Boolean	global	allow X-backspace-Y entry
<u>directory, dir</u>	String	global	where to store temp files
<u>display, mode</u>	String	win	name of current display mode
<u>e</u>	String	user	user variable
<u>edcompatible, ed</u>	Boolean	global	remember regsub flags

<u>edited, samename</u>	Boolean	buf	buffer loaded from filename
<u>elvispath, epath</u>	String	global	list of possible config dirs
<u>emphasizedstyle, efn</u>	String	windows	n or combination of b/i/u
<u>equalprg, ep</u>	String	buf	shell command for = operator
<u>errlines</u>	Number	buf	buflines when :make was run
<u>errorbells, eb</u>	Boolean	global	ring bell for error message
<u>exitcode, exit</u>	Number	global	exit code of elvis process
<u>completebinary, cob</u>	Boolean	global	complete names of binaries?
<u>exrc, ex</u>	Boolean	global	interpret ./exrc file
<u>exrefresh, er</u>	Boolean	global	redraw scrn after each line
<u>f</u>	String	user	user variable
<u>filename, file</u>	String	buf	name of file in buffer
<u>firstx, xpos</u>	Number	x11	horiz. position of first win
<u>firsty, ypos</u>	Number	x11	vert. position of first win
<u>fixedstyle, ffn</u>	String	windows	n or combination of b/i/u
<u>flash, vbell</u>	Boolean	global	substitute flash for bell
<u>focusnew, fn</u>	Boolean	x11	force focus into new window
<u>font, fnt</u>	String	windows	base font
<u>functionfont, ffont</u>	One-Of	syntax	font used for function names
<u>g</u>	String	user	user variable
<u>gdefault, gd</u>	Boolean	global	default change all instances
<u>gui</u>	String	global	name of user interface
<u>h</u>	String	user	user variable
<u>hardtabs, ht</u>	Number	global	width of terminal's tabs
<u>home</u>	String	global	home directory
<u>i</u>	String	user	user variable
<u>icon</u>	Boolean	x11	use the built-in icon?
<u>ignorecase, ic</u>	Boolean	global	regexp uppercase=lowercase
<u>initialstate, is</u>	One-Of	global	command mode of new windows
<u>inputtab, itab</u>	One-Of	buf	input mode's (Tab) key
<u>internal</u>	Boolean	buf	elvis requires this buffer
<u>italicstyle, ifn</u>	String	windows	n or combination of b/i/u
<u>italicfont, xfi</u>	String	x11	name of italic font
<u>j</u>	String	user	user variable
<u>k</u>	String	user	user variable
<u>keytime, kt</u>	Number	global	timeout for function keys
<u>keywordfont, kfont</u>	One-Of	syntax	font used for reserved words
<u>keywordprg, kp</u>	String	buf	shell command for K command
<u>l</u>	String	user	user variable
<u>lines, rows</u>	Number	win	height of window
<u>list, li</u>	Boolean	win	show markups, newlines, etc.
<u>locked, lock</u>	Boolean	win	prevent any alterations
<u>lpcolor, lpcl</u>	Boolean	lp	use colors when printing
<u>lpcolumns, lpcols</u>	Number	lp	width of printer page
<u>lpcrlf, lpc</u>	Boolean	lp	printer needs CR-LF newline
<u>lpformfeed, lpff</u>	Boolean	lp	send form-feed after last pg
<u>lpheader, lph</u>	Boolean	lp	print header at top of page
<u>lplines, lprows</u>	Number	lp	length of printer page
<u>lpnumber, lpn</u>	Boolean	lp	print line numbers in margin
<u>lpout, lpo</u>	String	lp	printer file or filter
<u>lppaper, lpp</u>	String	lp	paper size (letter, a4, ...)
<u>lptype, lpt</u>	String	lp	printer type
<u>lpwrap, lpw</u>	Boolean	lp	simulate line-wrap
<u>m</u>	String	user	user variable
<u>magic, ma</u>	Boolean	global	use normal regexp syntax
<u>makeprg, mp</u>	String	buf	shell command for :make

<u>maplog, mlog</u>	One of	global	logging: off, reset, append
<u>maptrace, mt</u>	One of	global	debugger: off, run, or step
<u>mesg</u>	Boolean	global	disable SysAdmin messages
<u>modeline, ml</u>	Boolean	global	interpret modelines
<u>modelines, mls</u>	Number	global	positions of modelines
<u>modified, mod</u>	Boolean	buf	buffer differs from file
<u>n</u>	String	user	user variable
<u>nearscroll, ns</u>	Number	global	scroll vs. jump¢er param
<u>newfile, new</u>	Boolean	buf	filename doesn't exist yet
<u>newsession, newses</u>	Boolean	global	session file is new
<u>nonascii, asc</u>	One-Of	global	how to display non-ascii
<u>normalstyle, nfn</u>	String	windows	n or combination of b/i/u
<u>normalfont, xfn</u>	String	x11	name of normal font
<u>novice</u>	Boolean	global	beginner mode
<u>number, nu</u>	Boolean	win	display line numbers
<u>o</u>	String	user	user variable
<u>optimize, opt</u>	Boolean	global	run faster
<u>optionwidth, ow</u>	Number	global	widths of ":set all" values
<u>os</u>	String	global	name of operating system
<u>otherfont, ofont</u>	One-Of	syntax	font used for other symbols
<u>outlinemono, om</u>	Number	x11	char outlining for X11-mono
<u>p</u>	String	user	user variable
<u>paragraphs, para</u>	String	buf	nroff paragraph commands
<u>partiallastline, pll</u>	Boolean	buf	file didn't end with newline
<u>pollfrequency, pf</u>	Number	global	rate of testing for ^C
<u>prepfont, pfont</u>	One-Of	syntax	font used for preprocessor
<u>previouscommand</u>	String	global	previous shell command line
<u>previousdir, pdir</u>	String	global	previous directory name
<u>previousfile</u>	String	global	name of alternate file
<u>previousfileline</u>	Number	global	line# from previousfile
<u>previousstag, ptag</u>	String	global	previous search tag
<u>program, argv0</u>	String	global	invocation name of elvis
<u>prompt</u>	Boolean	global	issue ":" prompt in ex mode
<u>putstyle, ps</u>	One of	buf	type of text in a cut buffer
<u>q</u>	String	user	user variable
<u>r</u>	String	user	user variable
<u>readeol, reol</u>	One of	buf	newline mode when reading
<u>readonly, ro</u>	Boolean	buf	don't overwrite filename
<u>recovering, rflag</u>	Boolean	global	recovering after a crash
<u>redraw</u>	Boolean	global	redraw screen during input
<u>remap</u>	Boolean	global	allow key maps to use maps
<u>report</u>	Number	global	minimum # lines to report
<u>retain, ret</u>	Boolean	buf	keep buffer in session file
<u>ruler, ru</u>	Boolean	win	display cursor's line/column
<u>s</u>	String	user	user variable
<u>safer, trapunsafe</u>	Boolean	global	be paranoid
<u>saveregexp, sre</u>	Boolean	global	remember regexp to use as //
<u>scroll, scr</u>	Number	win	scroll amount for ^D/^U
<u>scrollbar, sb</u>	Boolean	(gui)	enable the scrollbar
<u>scrollbarleft, xsl</u>	Boolean	x11	draw scrollbar on left side
<u>scrollbartime, xst</u>	Number	x11	delay for scrollbar repeat
<u>scrollbarwidth, xsw</u>	Number	x11	size of scrollbar, in pixels
<u>sections, sect</u>	String	buf	nroff section commands
<u>sentenceend, se</u>	String	global	punct at end of sentence
<u>sentencegap, sg</u>	Number	global	spaces required after sq
<u>sentencequote, sq</u>	String	global	punct allowed after se

<u>session, ses</u>	String	global	name of session file
<u>sessionpath, spath</u>	String	global	list of possible session dir
<u>shell, sh</u>	String	global	name of shell program
<u>shiftwidth, sw</u>	Number	buf	width used by < and >
<u>showcmd, sc</u>	Boolean	win	display command characters
<u>showmarkups, smu</u>	Boolean	global	show markup at cursor
<u>showmatch, sm</u>	Boolean	win	highlight matching parens
<u>showmode, smd</u>	Boolean	win	display the command state
<u>showname, snm</u>	Boolean	global	display the buffer name
<u>showstack, sstk</u>	Boolean	win	display some debugging info
<u>showtag, st</u>	Boolean	global	display tag on status line
<u>sidescroll, ss</u>	Number	win	sideways scrolling amount
<u>smarttab, sta</u>	Boolean	global	if indenting, (Tab) shifts
<u>stagger</u>	Number	x11	offset for next new window
<u>statusbar, xstat</u>	Boolean	x11	enables the statusbar
<u>stringfont, sfont</u>	One-Of	syntax	font used for strings
<u>sync</u>	Boolean	global	force changes to disk
<u>t</u>	String	user	user variable
<u>tabstop, ts</u>	Number	buf	width of tabstop columns
<u>taglength, tl</u>	Number	global	significant length of tags
<u>tagprg, tp</u>	String	global	external tag search program
<u>tags, tagpath</u>	String	global	list of possible tag files
<u>tagstack, tsk</u>	Boolean	global	remember origin of tag srch
<u>tempsession, temp</u>	Boolean	global	delete session file on exit
<u>term, ttytype</u>	String	tcap	terminal's termcap entry
<u>terse, te</u>	Boolean	global	don't translate messages
<u>textcursor, tc</u>	Number	x11	one of hollow, opaque, xor
<u>textwidth, tw</u>	Number	buf	width for word-wrap, or 0
<u>toolbar, tb</u>	Boolean	(gui)	enable the toolbar
<u>ttycolumns, ttycols</u>	Number	tcap	width of screen
<u>ttyrows, ttylines</u>	Number	tcap	height of screen
<u>ttyunderline, ttyu</u>	Boolean	tcap	okay to mix color & underln
<u>u</u>	String	user	user variable
<u>underline, uln</u>	Boolean	x11	enables underlining
<u>underlinedstyle, nfn</u>	String	windows	n or combination of b/i/u
<u>undolevels, ul</u>	Number	buf	number of undoable commands
<u>usertime, ut</u>	Number	global	timeout for multi-key maps
<u>v</u>	String	user	user variable
<u>variablefont, vfont</u>	One-Of	syntax	font used for variables
<u>verbose</u>	Boolean	global	give more status messages
<u>w</u>	String	user	user variable
<u>warn</u>	Boolean	global	warn if file not saved
<u>warningbells, wb</u>	Boolean	global	ring bell for warning msg
<u>warpback, xwb</u>	Boolean	x11	upon exit, point to xterm
<u>warpto, wt</u>	One of	x11	^W^W forces pointer movement
<u>window, wi</u>	Number	global	lines to show for :z command
<u>windowid, id</u>	Number	win	ID number of current window
<u>wrap</u>	Boolean	win	how long lines are displayed
<u>wrapmargin, wm</u>	Boolean	win	set textwidth from right
<u>wrapscan, ws</u>	Boolean	global	searching wraps at EOF<->BOF
<u>writeany, wa</u>	Boolean	global	don't warn of existing file
<u>writeeol, weol</u>	One of	buf	newline mode when writing
<u>x</u>	String	user	user variable
<u>xcolumns, xcols</u>	Number	x11	width of new windows
<u>xrows, xlines</u>	Number	x11	height of new windows
<u>y</u>	String	user	user variable

<u>z</u>	String	user	user variable
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