



Linux Ubuntu 26.04 Manual Pages on command 'fish-terminal-compatibility.1'

\$ man fish-terminal-compatibility.1

FISH-TERMINAL-COMPATIBILITY(1) fish-shell FISH-TERMINAL-COMPATIBILITY(1)

fish writes various control sequences to the terminal. Some must be implemented to enable basic functionality, while others enable optional features and may be ignored by the terminal.

The terminal must be able to parse Control Sequence Introducer (CSI) commands, Operating System Commands (OSC) and optionally Device Control Strings (DCS). These are defined by ECMA-48. If a valid CSI, OSC or DCS sequence does not represent a command implemented by the terminal, the terminal must ignore it.

Control sequences are denoted in a fish-like syntax. Special characters other than \ are not escaped. Spaces are only added for readability and are not part of the sequence. Placeholders are written as Ps for a number or Pt for an arbitrary printable string.

NOTE: fish does not rely on your system's terminfo database. In this document, terminfo (TI) codes are included for reference only.

REQUIRED COMMANDS

??

? Sequence ? TI ? Description ?

??

? \r ? n/a ? Move cursor to the begin? ?

? ? ? ning of the line ?

??

? \n ? cud1 ? Move cursor down one ?

? ? ? line. ?

??

? \e[Ps A ? cuu ? Move cursor up Ps ?

? ? ? columns, or one column if ?
 ? ? ? no parameter. ?
 ???
 ? \e[Ps C ? cuf ? Move cursor to the right ?
 ? ? ? Ps columns, or one column ?
 ? ? ? if no parameter. ?
 ???
 ? \x08 ? cub1 ? Move cursor one column to ?
 ? ? ? the left. ?
 ???
 ? \e[Ps D ? cub ? Move cursor to the left ?
 ? ? ? Ps times. ?
 ???
 ? \e[H ? cup ? Set cursor position (no ?
 ? ? ? parameters means: move to ?
 ? ? ? row 1, column 1). ?
 ???
 ? \e[K ? el ? Clear to end of line. ?
 ???
 ? \e[J ? ed ? Clear to the end of ?
 ? ? ? screen. ?
 ???
 ? \e[2J ? clear ? Clear the screen. ?
 ???
 ? \e[0c ? ? Request Primary Device ?
 ? ? ? Attribute. The terminal ?
 ? ? ? must respond with a CSI ?
 ? ? ? command that starts with ?
 ? ? ? the ? parameter byte (so ?
 ? ? ? a sequence starting with ?
 ? ? ? \e[?) and has c as final ?
 ? ? ? byte. ?
 ? ? ? ?

? ? ? Failure to implement this ?

? ? ? will cause a brief pause ?

? ? ? at startup followed by a ?

? ? ? warning. For the time ?

? ? ? being, both can be turned ?

? ? ? off by turning off the ?

? ? ? query-terminal feature ?

? ? ? flag <#featureflags>. ?

??

? n/a ? am ? Soft wrap text at screen ?

? ? ? width. ?

??

? n/a ? xenl ? Printing to the last col? ?

? ? ? umn does not move the ?

? ? ? cursor to the next line. ?

? ? ? Verify this by running ?

? ? ? printf %0"\$COLUMNS"d 0; ?

? ? ? sleep 3 ?

??

OPTIONAL COMMANDS

??

? Sequence	? TI	? Description	?
??			
? \t	? it	? Move the cursor to the ?	
?	?	? next tab stop (? 8 ?	
?	?	? columns). This is mainly ?	
?	?	? relevant if your prompt ?	
?	?	? includes tabs. ?	
??			
? \e[m	? sgr0	? Turn off ?	
?	?	? bold/dim/italic/under? ?	
?	?	? line/reverse attribute ?	
?	?	? modes and select default ?	

? ? ? colors. ?
??
? \e[1m ? bold ? Enter bold mode. ?
??
? \e[2m ? dim ? Enter dim mode. ?
??
? \e[3m ? sitm ? Enter italic mode. ?
??
? \e[4m ? smul ? Enter underline mode. ?
??
? \e[4:2m ? Su ? Enter double underline ?
? ? ? mode. ?
??
? \e[4:3m ? Su ? Enter curly underline ?
? ? ? mode. ?
??
? \e[4:4m ? Su ? Enter dotted underline ?
? ? ? mode. ?
??
? \e[4:5m ? Su ? Enter dashed underline ?
? ? ? mode. ?
??
? \e[7m ? rev ? Enter reverse video mode ?
? ? ? (swap foreground and ?
? ? ? background colors). ?
??
? \e[23m ? ritm ? Exit italic mode. ?
??
? \e[24m ? rmul ? Exit underline mode. ?
??
? \e[38;5; Ps m ? setaf ? Select foreground color ?
? ? ? Ps from the ?
? ? ? 256-color-palette. ?

??

? \e[48;5; Ps m ? setab ? Select background color ?

? ? ? Ps from the ?

? ? ? 256-color-palette. ?

??

? \e[58;5: Ps m (note: ? Su ? Select underline color Ps ?

? colons not semicolons) ? ? from the ?

? ? ? 256-color-palette. ?

??

? \e[Ps m ? setaf setab ? Select foreground/back? ?

? ? ? ground color. This uses a ?

? ? ? color in the aforemen? ?

? ? ? tioned 256-color-palette, ?

? ? ? based on the range that ?

? ? ? contains the parameter: ?

? ? ? 30-37 maps to foreground ?

? ? ? 0-7, 40-47 maps to back? ?

? ? ? ground 0-7, 90-97 maps to ?

? ? ? foreground 8-15 and ?

? ? ? 100-107 maps to back? ?

? ? ? ground 8-15. ?

??

? \e[38;2; Ps ; Ps ; Ps m ? ? Select foreground color ?

? ? ? from 24-bit RGB colors. ?

??

? \e[48;2; Ps ; Ps ; Ps m ? ? Select background color ?

? ? ? from 24-bit RGB colors. ?

??

? \e[49m ? ? Reset background color to ?

? ? ? the terminal's default. ?

??

? \e[58;2:: Ps : Ps : Ps m ? Su ? Select underline color ?

? (note: colons not semi? ? ? from 24-bit RGB colors. ?

? colons) ? ?

??

? \e[59m ? Su ? Reset underline color to ?

? ? ? the default (follow the ?

? ? ? foreground color). ?

??

? \e[Ps S ? indn ? Scroll up the content ?

? ? ? (not the viewport) Ps ?

? ? ? lines (called SCROLL UP / ?

? ? ? SU by ECMA-48 and "scroll ?

? ? ? forward" by terminfo). ?

? ? ? When fish detects support ?

? ? ? for this feature, status ?

? ? ? test-terminal-features ?

? ? ? scroll-content-up <# ?

? ? ? status-test-terminal-fea? ?

? ? ? tures> will return 0, ?

? ? ? which enables the ctrl-I ?

? ? ? binding to use the ?

? ? ? scrollbar-push <# ?

? ? ? special-input-functions- ?

? ? ? scrollbar-push> special ?

? ? ? input function. ?

??

? \e[= Ps u, \e[? Ps u ? n/a ? Enable the kitty keyboard ?

? ? ? protocol. ?

??

? \e[6n ? n/a ? Request cursor position ?

? ? ? report. The response ?

? ? ? must be of the form \e[?

? ? ? Ps ; Ps R where the first ?

? ? ? parameter is the row num? ?

? ? ? ber and the second para? ?

?	?	? meter is the column num? ?
?	?	? ber. Both start at 1. ?
?	?	? ?
?	?	? This is used for truncat? ?
?	?	? ing multiline autosugges? ?
?	?	? tions at the screen's ?
?	?	? bottom edge, by the ?
?	?	? scrollbar-push <# ?
?	?	? special-input-functions- ?
?	?	? scrollbar-push> special ?
?	?	? input function, and in? ?
?	?	? side terminals that im? ?
?	?	? plement the OSC 133 ?
?	?	? click_events feature. ?
??		
? \e[\x20 q	? Se	? Reset cursor style to the ?
?	?	? terminal's default. This ?
?	?	? is not used as of today ?
?	?	? but may be in future. ?
??		
? \e[Ps \x20 q	? Ss	? Set cursor style (DEC? ?
?	?	? SCUSR); Ps is 2, 4 or 6 ?
?	?	? for block, underscore or ?
?	?	? line shape. ?
??		
? \e[Ps q	? n/a	? Request terminal name and ?
?	?	? version (XTVERSION). ?
?	?	? This is only used for ?
?	?	? temporary workarounds for ?
?	?	? incompatible terminals. ?
??		
? \e[?25h	? cvvis	? Enable cursor visibility ?
?	?	? (DECTCEM). ?

??

? \e[?1004h ? n/a ? Enable focus reporting. ?

??

? \e[?1004l ? n/a ? Disable focus reporting. ?

??

? \e[?1049h ? n/a ? Enable alternate screen ?

? ? ? buffer. ?

??

? \e[?1049l ? n/a ? Disable alternate screen ?

? ? ? buffer. ?

??

? \e[?2004h ? ? Enable bracketed paste. ?

??

? \e[?2004l ? ? Disable bracketed paste. ?

??

? \e[0; Pt \x07 ? ts ? Set terminal window title ?

? ? ? (OSC 0). Used in fish_ti ?

? ? ? tle <>. ?

??

? \e[2; Pt \x07 ? ts ? Set terminal tab title ?

? ? ? (OSC 1). Used in ?

? ? ? fish_tab_title <>. ?

??

? \e[7;file:// Pt / Pt \x07 ? ? Report working directory ?

? ? ? (OSC 7). Since the ter ?

? ? ? minal may be running on a ?

? ? ? different system than a ?

? ? ? (remote) shell, the host ?

? ? ? name (first parameter) ?

? ? ? will not be localhost. ?

??

? \e[8;; Pt \e\ ? ? Create a hyperlink (OSC ?

? ? ? 8) <<https://gist.github.com> ?

? .com/egmontkob/ ?
 ? eb114294ef? ?
 ? bcd5adb1944c9f3cb5feda>. ?
 ? This is used in fish's ?
 ? man pages. ?
 ???
 ? \e]52;c; Pt \x07 ? ? Copy to clipboard (OSC ?
 ? 52). Used by fish_clip? ?
 ? board_copy <>. ?
 ???
 ? \e]133;A; ? ? Mark prompt start (OSC ?
 ? click_events=1\x07 ? ? 133), with kitty's ?
 ? click_events extension. ?
 ? The click_events exten? ?
 ? sion enables mouse clicks ?
 ? to move the cursor or se? ?
 ? lect pager items, assum? ?
 ? ing that cursor position ?
 ? reporting is available. ?
 ???
 ? \e]133;C; cmdline_url= Pt ? ? Mark command start (OSC ?
 ? \x07 ? ? 133), with kitty's cmd? ?
 ? line_url extension whose ?
 ? parameter is the URL-en? ?
 ? coded command line. ?
 ???
 ? \e]133;D; Ps \x07 ? ? Mark command end (OSC ?
 ? 133); Ps is the exit ?
 ? status. ?
 ???
 ? \eP+q Pt \e\ ? ? Request terminfo capabil? ?
 ? ity (XTGETTCAP). The pa? ?
 ? rameter is the capabil? ?

?	?	? ity's hex-encoded ter? ?
?	?	? minfo code. To advertise ?
?	?	? a capability, the re? ?
?	?	? sponse must be of the ?
?	?	? form \eP1+q Pt \e\\ or ?
?	?	? \eP1+q Pt = Pt \e\\. In ?
?	?	? either variant the first ?
?	?	? parameter must be the ?
?	?	? hex-encoded terminfo ?
?	?	? code. The second vari? ?
?	?	? ant's second parameter is ?
?	?	? ignored. ?
?	?	? ?
?	?	? Currently, fish only ?
?	?	? queries the indn string ?
?	?	? capability. ?

??

DCS COMMANDS AND GNU SCREEN

Fully-correct DCS parsing is optional because fish switches to the alternate screen before printing any DCS commands. However, since GNU screen neither allows turning on the alternate screen buffer by default, nor treats DCS commands in a compatible way, fish's initial prompt may be garbled by a DCS payload like +q696e646e. For the time being, fish works around this by checking for presence of the STY environment variable. If that doesn't work for some reason, you can add this to your ~/.screenrc:

```

altscreen on

Or add this to your config.fish:

function GNU-screen-workaround --on-event fish_prompt
    commandline -f repaint
end
functions --erase GNU-screen-workaround
end
```

UNICODE CODEPOINTS

By default, fish outputs the following non-ASCII characters:

as well as control pictures (U+2400 through U+241F), and locale-specific ones in translated strings <#variables-locale>.

Author

fish-shell developers

Copyright

fish-shell developers

4.2

Jan 02, 2026

FISH-TERMINAL-COMPATIBILITY(1)