

Many computer terminals and terminal emulators support colour and cursor control through a system of escape sequences. One such standard is commonly referred to as ANSI Colour. Several terminal specifications are based on the ANSI colour standard, including VT100.

The following is a partial listing of the VT100 control set.

<ESC> represents the ASCII "escape" character, 0x1B. Bracketed tags represent modifiable decimal parameters; eg. {ROW} would be replaced by a row number.

Device Status

The following codes are used for reporting terminal/display settings, and vary depending on the implementation:

Query Device Code <ESC>[c

- Requests a Report Device Code response from the device.

Report Device Code <ESC>[{code}0c

- Generated by the device in response to Query Device Code request.

Query Device Status <ESC>[5n

- Requests a Report Device Status response from the device.

Report Device OK <ESC>[0n

- Generated by the device in response to a Query Device Status request; indicates that device is functioning correctly.

Report Device Failure <ESC>[3n

- Generated by the device in response to a Query Device Status request; indicates that device is functioning improperly.

Query Cursor Position <ESC>[6n

- Requests a Report Cursor Position response from the device.

Report Cursor Position <ESC>[{ROW}];{COLUMN}R

- Generated by the device in response to a Query Cursor Position request; reports current cursor position.

Terminal Setup

The h and l codes are used for setting terminal/display mode, and vary depending on the implementation. Line Wrap is one of the few setup codes that tend to be used consistently:

Reset Device <ESC>c

- Reset all terminal settings to default.

Enable Line Wrap <ESC>[7h

- Text wraps to next line if longer than the length of the display area.

Disable Line Wrap <ESC>[7l

- Disables line wrapping.

Fonts

Some terminals support multiple fonts: normal/bold, swiss/italic, etc. There are a variety of special codes for certain terminals; the following are fairly standard:

Font Set G0 <ESC>(

- Set default font.

Font Set G1 <ESC>)

- Set alternate font.

Cursor Control

Cursor Home <ESC>[{ROW}];{COLUMN}H

- Sets the cursor position where subsequent text will begin. If no row/column parameters are provided (ie. <ESC>[H), the cursor will move to the home position, at the upper left of the screen.

Cursor Up <ESC>[{COUNT}A

- Moves the cursor up by COUNT rows; the default count is 1.

Cursor Down <ESC>[{COUNT}B

- Moves the cursor down by COUNT rows; the default count is 1.

Cursor Forward <ESC>[{COUNT}C

- Moves the cursor forward by COUNT columns; the default count is 1.

Cursor Backward <ESC>[{COUNT}D

- Moves the cursor backward by COUNT columns; the default count is 1.

Force Cursor Position <ESC>[{ROW}];{COLUMN}f

- Identical to Cursor Home.

Save Cursor <ESC>[s

- Save current cursor position.

Unsave Cursor <ESC>[u

- Restores cursor position after a Save Cursor.

Save Cursor & Attrs <ESC>7

- Save current cursor position.

Restore Cursor & Attrs <ESC>8

- Restores cursor position after a Save Cursor.

Scrolling

Scroll Screen <ESC>[r

- Enable scrolling for entire display.

Scroll Screen <ESC>[{start}];{end}r

- Enable scrolling from row {start} to row {end}.

Scroll Down <ESC>D

- Scroll display down one line.

Scroll Up <ESC>M

- Scroll display up one line.

Tab Control

- Set Tab <ESC>H
- Sets a tab at the current position.
- Clear Tab <ESC>[g
- Clears tab at the current position.
- Clear All Tabs <ESC>[3g
- Clears all tabs.

Erasing Text

- Erase End of Line <ESC>[K
- Erases from the current cursor position to the end of the current line.
- Erase Start of Line <ESC>[1K
- Erases from the current cursor position to the start of the current line.
- Erase Line <ESC>[2K
- Erases the entire current line.
- Erase Down <ESC>[J
- Erases the screen from the current line down to the bottom of the screen.
- Erase Up <ESC>[1J
- Erases the screen from the current line up to the top of the screen.
- Erase Screen <ESC>[2J
- Erases the screen with the background colour and moves the cursor to home.

Printing

Some terminals support local printing:

- Print Screen <ESC>[i
- Print the current screen.
- Print Line <ESC>[1i
- Print the current line.
- Stop Print Log <ESC>[4i
- Disable log.
- Start Print Log <ESC>[5i
- Start log; all received text is echoed to a printer.

Define Key

- Set Key Definition <ESC>[{{key}};"{string}"p
- Associates a string of text to a keyboard key. {key} indicates the key by its ASCII value in decimal.

Set Display Attributes

- Set Attribute Mode** <ESC>[{{attr1}};...;{{attrn}}m
- Sets multiple display attribute settings. The following lists standard attributes:
 - 0 Reset all attributes
 - 1 Bright
 - 2 Dim
 - 4 Underscore
 - 5 Blink
 - 7 Reverse
 - 8 Hidden
 -
 - Foreground Colours
 - 30 Black
 - 31 Red
 - 32 Green
 - 33 Yellow
 - 34 Blue
 - 35 Magenta
 - 36 Cyan
 - 37 White
 -
 - Background Colours
 - 40 Black
 - 41 Red
 - 42 Green
 - 43 Yellow
 - 44 Blue
 - 45 Magenta
 - 46 Cyan
 - 47 White