Cursor controll in PHP cli scripts

Controll cursor in CLI scripts by echoing ANSI characters

```
echo "\033[100D";
```

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
```

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