



Text Formatting

Basic Formatting Codes

<code>\033[0m</code>	Clear all formatting (reset to default).
<code>\033[1m</code>	Bold or increased intensity.
<code>\033[4m</code>	Underline.
<code>\033[5m</code>	Blink (may not work in all terminals).
<code>\033[7m</code>	Invert (swap foreground and background colors).
<code>\033[8m</code>	Hidden (useful for passwords).

Foreground Colors (30-37)

<code>\033[30m</code>	Black foreground.
<code>\033[31m</code>	Red foreground.
<code>\033[32m</code>	Green foreground.
<code>\033[33m</code>	Yellow foreground.
<code>\033[34m</code>	Blue foreground.
<code>\033[35m</code>	Magenta foreground.
<code>\033[36m</code>	Cyan foreground.
<code>\033[37m</code>	White foreground.

Background Colors & Extended Colors

Background Colors (40-47)

<code>\033[40m</code>	Black background.
<code>\033[41m</code>	Red background.
<code>\033[42m</code>	Green background.
<code>\033[43m</code>	Yellow background.
<code>\033[44m</code>	Blue background.
<code>\033[45m</code>	Magenta background.
<code>\033[46m</code>	Cyan background.
<code>\033[47m</code>	White background.

Extended Color Codes (256 Colors)

Use the following format to access 256 colors:

`\033[38;5;<color_code>m` for foreground

`\033[48;5;<color_code>m` for background

Where `<color_code>` is a number between 0 and 255.

Example:

`\033[38;5;46m` - Sets the foreground color to color code 46.

Cursor Movement & Screen Control

Cursor Movement Codes

<code>\033[<L>A</code>	Move the cursor up L lines.
<code>\033[<L>B</code>	Move the cursor down L lines.
<code>\033[<C>C</code>	Move the cursor forward C columns.
<code>\033[<C>D</code>	Move the cursor backward C columns.
<code>\033[<R>;<C>H</code> or <code>\033[<R>;<C>f</code>	Move the cursor to row R, column C.
<code>\033[s</code>	Save the current cursor position.
<code>\033[u</code>	Restore the last saved cursor position.

Screen Control Codes

<code>\033[2J</code>	Clear the entire screen.
<code>\033[K</code>	Clear the line from the cursor to the end of the line.
<code>\033[1K</code>	Clear the line from the cursor to the beginning of the line.
<code>\033[2K</code>	Clear the entire line.
<code>\033[0;0H</code>	Move cursor to top left corner (0,0).

Bash Utilities & Examples

Bash Functions

```
hide_cursor() { printf "\e[?25l"; }
show_cursor() { printf "\e[?25h"; }
```

Usage:

Call `hide_cursor` to hide the cursor and `show_cursor` to make it visible again.

Examples

```
# Make text bold and red
echo "\033[1;31mThis is bold red text\033[0m"

# Set background to blue and foreground to white
echo "\033[44;37mWhite text on blue background\033[0m"

# Underline and set foreground to green
echo "\033[4;32mUnderlined green text\033[0m"

# Clear screen and move cursor to top left
echo "\033[2J\033[0;0H"
```