Bash Utils framework

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1 General presentation of the script

1.1 Description of the script

This script displays each color code from the XTERM palette table on the terminal background in a 6 * 40 table, with the code corresponding to each color written in three digits in the foreground.

1.2 How the script works

If the value "-h" or "-help" is passed as the first argument, a simple message summarizing the purpose of the script is displayed on the terminal, without its main code, written in the **for** loop, being executed.

This message will be displayed in the following languages, depending on the \$LANG environment variable. It will be displayed in English if the same variable does not contain the ISO 639-1 code for one of these languages:

· German, English, Spanish, French, Indonesian, Portuguese, Russian, Ukrainian and Chinese.

for loop algorithm:

While the value of the \$i variable, initialized at 16 (value corresponding to the start number of the non-system color code range up to number 255 in the XTERM color table) is strictly less than 256, then:

1. The text background color is modified according to the color code corresponding to the value of the variable \$i, then the three-digit number corresponding to this same value is displayed.

Here's how it works:

- '\e': This is the escape character (ASCII code 27), which marks the beginning of any ANSI escape sequence.
- 48: This is the code telling the Shell interpreter to change the text background color.
- 5: This is the code indicating the use of a custom color index.
- \$i: The value of this variable is used to define the XTERM color table number of the specific color to be displayed.
- m: This is the end code of the ANSI control sequence.
- 2. Text formatting is removed using the printf '\e [0m' command.
- 3. If the current color index is not the sixth of the current row, then a space is displayed to prepare the next iteration of the for loop via the printf '\n' command.

Else a line break is made via the printf'' command to prepare a new row of six columns.

4. End of the « if » condition

End of the « for » loop

1.3 Displaying the XTERM palette table on the terminal

2024-02-05 17:00:04 → dimob-HP-Pavilion-Gaming-Laptop-17-cd1xxx in /usr/local/lib/Bash-utils ± |unstable √| → ./bin/256-color-palette.sh 016 017 018 019 020 02 022 023 024 025 026 02 028 029 030 031 032 03 052 053 054 058 059 060 064 065 066 067 101 102 103 104 132 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249