CustomBashPrompt

From MTU LUG wiki

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1. default prompt "\u@\h:\w\$ "
    \u    username
    \h    hostname
    \w    current working directory
    \$    # if UID is 0 (root), $ otherwise
2. Pretty colors! \[ and \] keep bash from using the enclosed text in prompt-length calculations
    \e[XX;YYm for color, XX is foreground, YY is background. ;1 gives bold foreground, background unnecessary
        if default desired
    \e[0m resets to default, useful at end of prompt.

    Foreground
    30 black
    31 red
    32 green
    33 yellow
    34 blue
    35 purple
    36 teal
    37 white

    Background
    40 black
    41 red
    42 green
    43 yellow
    44 blue
    45 purple
    46 teal
    47 white
    "\[\e[32;1m\]\u@\h:\w\$ \[\e[0m\]" all green
    "\[\e[31;1m\]\u\[\e[0m\]@\[\e[33;1m\]\h\[\e[0m\]:\[\e[36;1m\]\w\[\e[32;1m\]\$ \[\e[0m\]" red user, yellow
        hostname, teal cwd, green UID symbol
3. Informative but kind of bulky and boring. In .bashrc, we can test if we are in an xterm or not using:
    if [ "$TERM" = "linux" ]
If we are, let us put some information up in the xterm titlebar, using the escape sequences "\[\e]2;" "\a"
    if [ "$TERM" = "linux" ]
    then
        export PS1="\[\e[32;1m\]\u@\h:\W\$ \[\e[0m\]"
    else
        export PS1="\[\e]2;\u@\h:\W\a\e[32;1m\]\$\[\e[0m\] "
    fi
Puts username, host, and base of cwd in titlebar, and leaves the UID symbol as prompt in green
4. Scripts! So, if we have scripts that produce output without newlines, we can include them in our prompt by
        enclosing the call in $()
    Battery status is useful on laptops, so we have a script that puts percentage and status (charging,
        discharging, or charged) in a compact form, and colors the percentage based on number (red under
        15%, yellow under 30%, green else
    "[ \$(/home/agmlego/bin/battery-status) ] \[\e]2;\u@\h:\W\a\e[32;1m\]\$\[\e[0m\] " Battery status followed
        by UID symbol in green, username/host/cwd is in titlebar
5. Further customization:
    \a    an ASCII bell character (07)
    \d    the date in "Weekday Month Date" format (e.g., "Tue May 26")
    \e    an ASCII escape character (033)
    \h    the hostname up to the first '.'
    \H    the hostname
    \j    the number of jobs currently managed by the shell
    \l    the basename of the shell's terminal device name
    \n    newline
    \r    carriage return
    \s    the name of the shell, the basename of $0 (the portion following the final slash)
    \t    the current time in 24-hour HH:MM:SS format
    \T    the current time in 12-hour HH:MM:SS format
    \@    the current time in 12-hour am/pm format
    \u    the username of the current user
    \v    the version of bash (e.g., 2.00)
    \V    the release of bash, version + patchlevel (e.g., 2.00.0)
    \w    the current working directory
    \W    the basename of the current working directory
    \!    the history number of this command
    \#    the command number of this command
    \$    if the effective UID is 0, a #, otherwise a $
    \nnn    the character corresponding to the octal number nnn
    \\    a backslash
    \[    begin a sequence of non-printing characters, which could be used to embed a terminal control
        sequence into the prompt
    \]    end a sequence of non-printing characters
```

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